

Haier

More Creation, More Possibilities

Haier

HVAC Solutions

A2W

Installation Manual

2025/26



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1.0. OUTDOOR UNIT & ATW-A03 N CONNECTION

Outdoor Installation



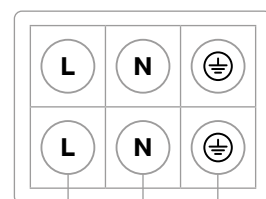
Indoor Installation

ATW-A03 N



1.1. ELECTRICAL WIRING/CONNECTIONS

1.1.1. Single phase installation - 1ph-ODU



L = Live
N = Neutral
⊕ = Ground

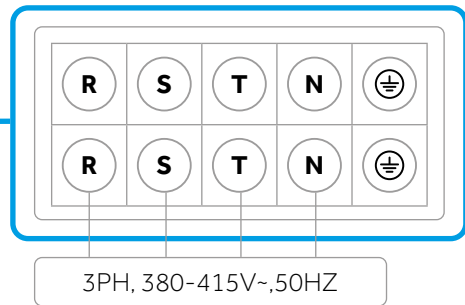
1PH, 220-240V~,50HZ

ODU MONOBLOC:

AW042MUGHA AW062MUGHA
AW082MUGHA AW102MUGHA
AW122MXGHA AW142MXGHA
AW162MXGHA

1.1. ELECTRICAL WIRING/CONNECTIONS

1.1.2 Three-phase installation - 3ph-ODU



R = Line 1
 S = Line 2
 T = Line 3
 N=Neutral
 ⊕=Ground

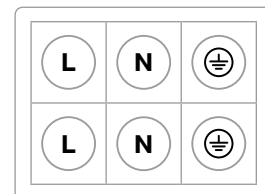
ODU MONOBLOC:

AW10NMUGHA AW12NMUGHA
 AW14NMUGHA AW16NMUGHA

1.1.3. Electrical connection for ATW-A03 N - always 240V single phase



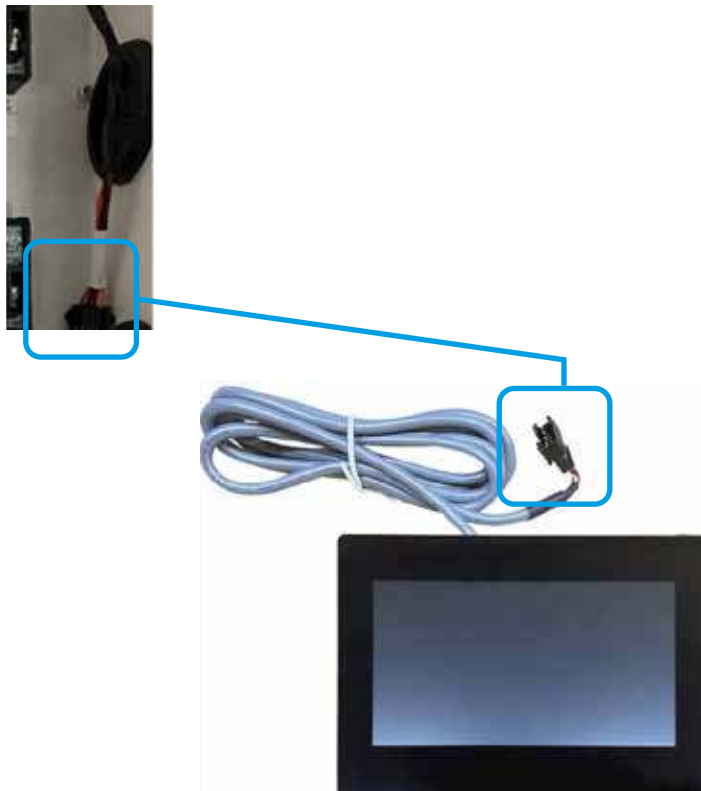
Inner



L = Live
 N=Neutral
 ⊕=Ground

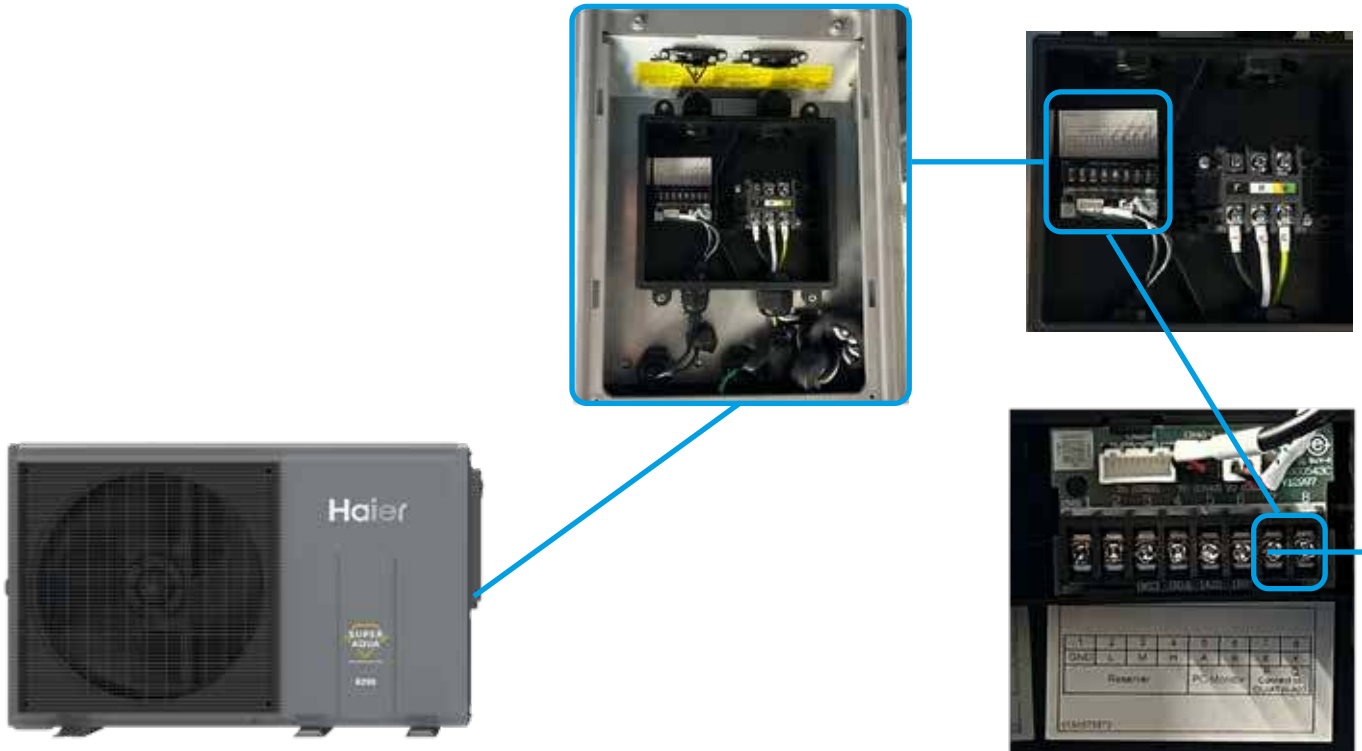


1.1.4 Wired controller connection

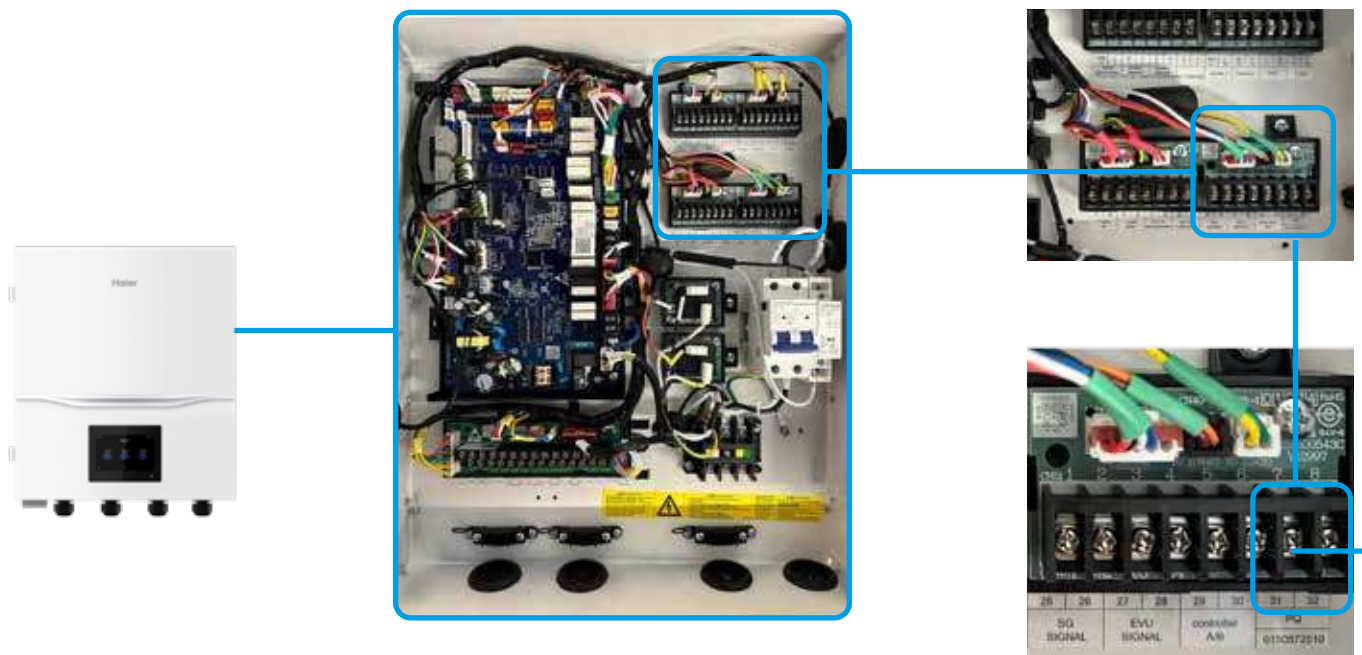


1.2. CONNECTION BETWEEN OUTDOOR UNIT AND ATW-A03 N

Outdoor Unit



Indoor unit ATW-A03



Connection Board 4

Connection Board 1 - Outdoor Unit

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Reserved				PC Monitoring		PQ	

Connection Board 4 - Indoor unit ATW-A03

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG Signal		EVU Signal		Controller A/B		PQ	

Connect a 2 core communication cable from 7(X) and 8(Y) of Board 1 of the outdoor unit to 31 (X) and 32 (Y) Board 4 of the Indoor unit ATW-A03

The interconnection bus between Outdoor unit and ATW-A03N, must be done with a shielded cable of 2x0,75mm.

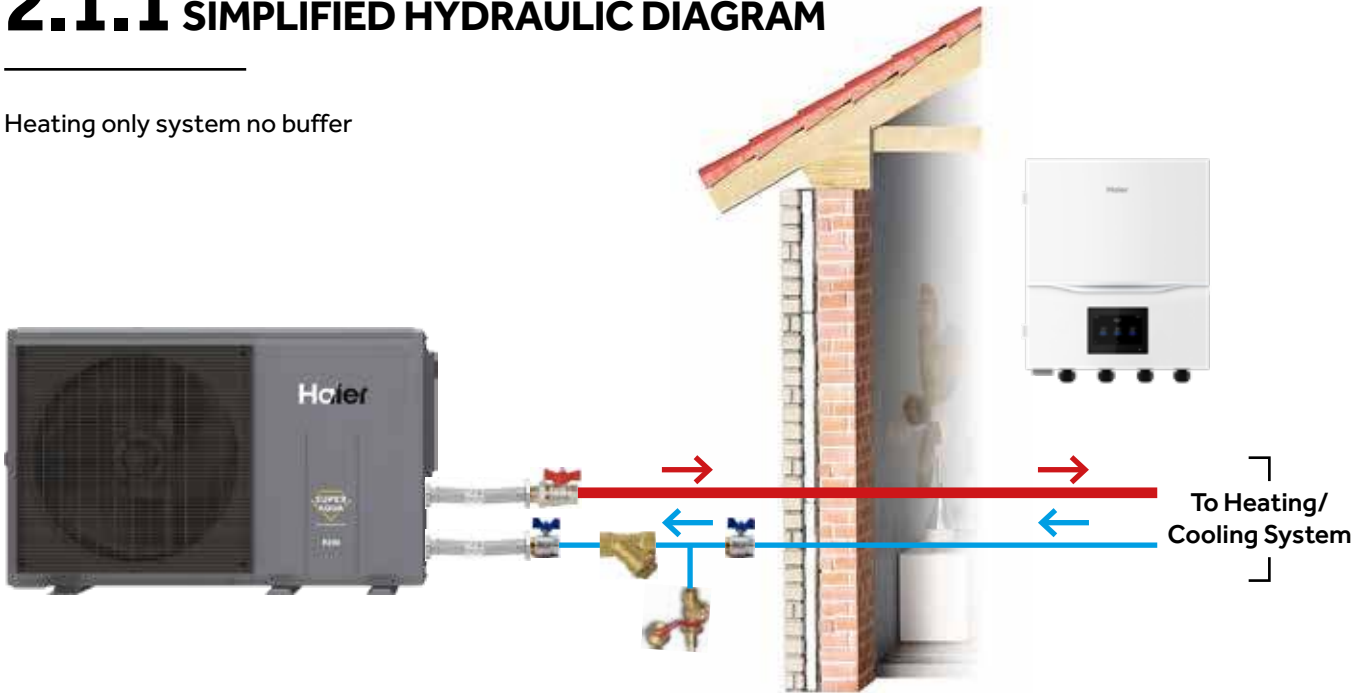
Note in the middle of the blue PCB a green and red light flashes if the communication is ok. If the LED's stop flashing outdoor unit is switched off.

2.0. ZONE 01

2.1. ZONE 1 WITHOUT BUFFER TANK

2.1.1 SIMPLIFIED HYDRAULIC DIAGRAM

Heating only system no buffer



	Flexible hose pipe		Delivery water flow
	Ball Valve		Return water flow
	Ball Valve		
	Water filter		
	Drain Valve		

ALL THE DIAGRAMS AND THE ACCESSORIES ARE ONLY AN EXAMPLE OF THE INSTALLATION AND HAVE TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL REGULATIONS.

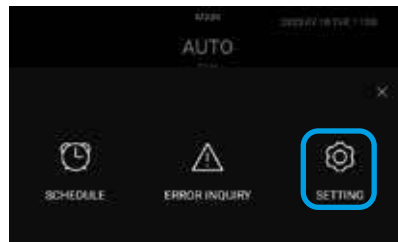
FOR ELECTRICAL CONNECTIONS REFER TO POINT 1.0.

2.1.2. Controller Setting

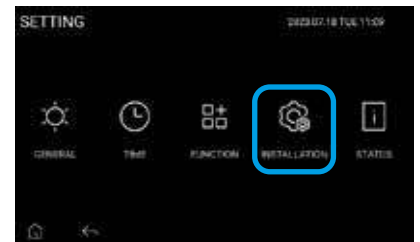
Equipment Installation main settings



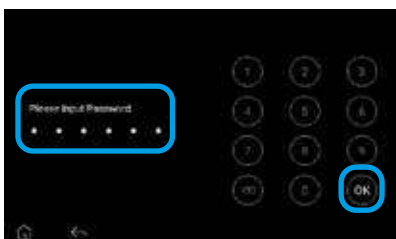
1



2



3



4 * Password "841226" OK



5



*** SELECT ON TO ACTIVATE ZONE 1**

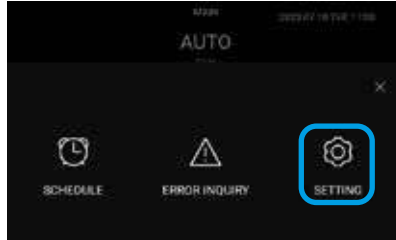
Function	Parameter Range	Settings
Zone 1	ON/OFF	ON

2.1.2. CONTROLLER SETTING

System Installation main settings



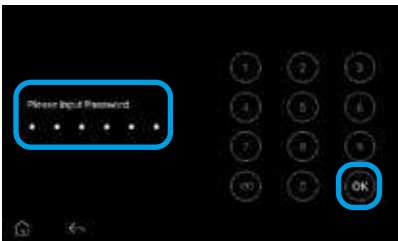
1



2



3



4 * Password "841226" OK



5

Equipment Installation main settings



← Main Controller

*** SELECT THE CONTROL MODE FOR ZONE 1**

Function	Parameter Range	Settings
Control Mode of Zone1	Main controller, Third party controller	Main controller



← 27°C

← 6°C

***ENTER DELTA T° FOR HEATING ON**

Function	Parameter Range	Settings
ΔT for Heating On	0 -15 °C	6°C



← 5°C

***ENTER DELTA T° FOR COOLING ON**

Press "house" to return to main menu

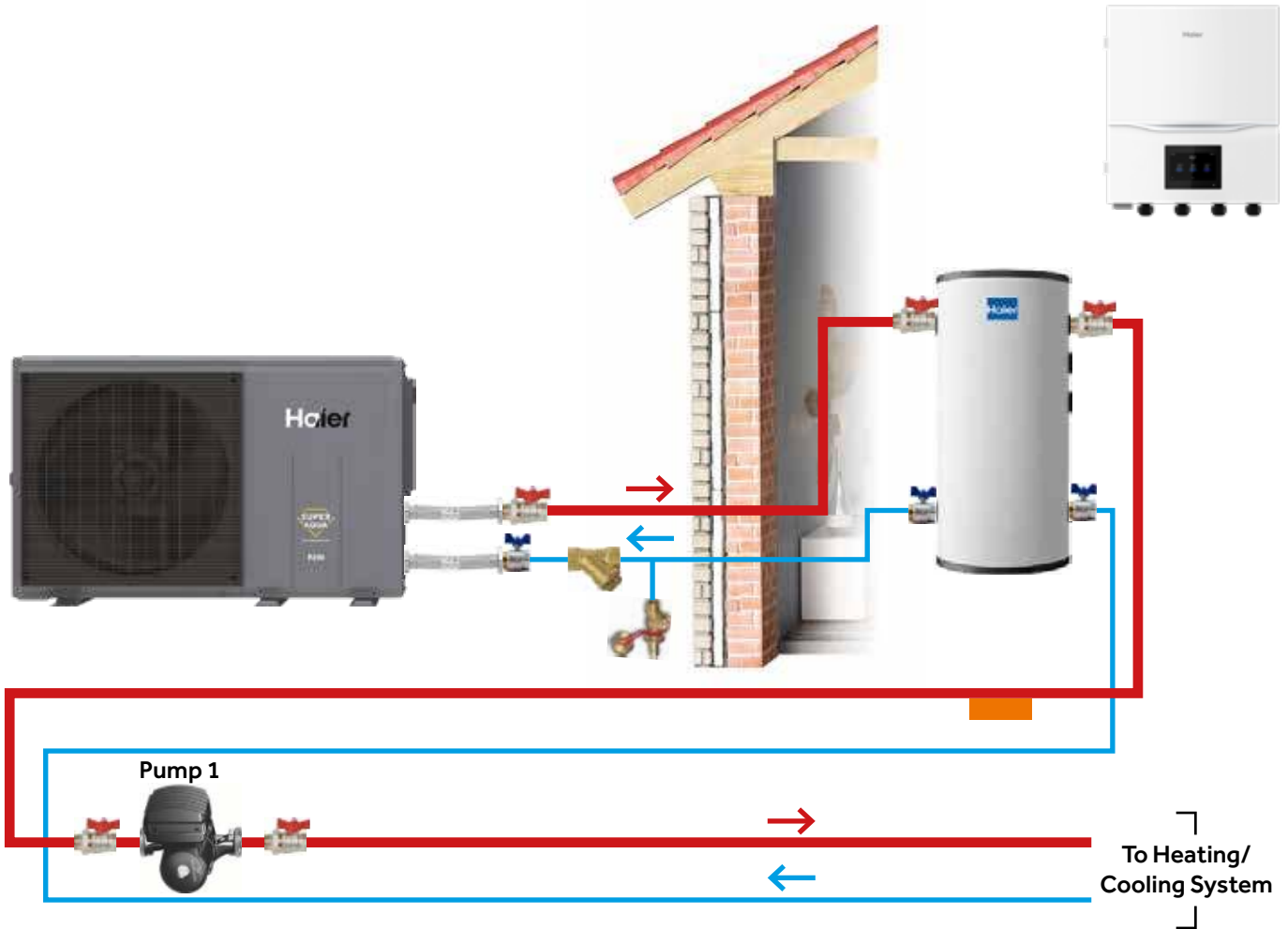
Function	Parameter Range	Settings
ΔT for Cooling On	0 -15 °C	5°C










***PARAMETERS TO BE CHANGED ARE MARKED IN BOLD BLUE.**

2.2. ZONE 1 WITH BUFFER TANK

2.2.1. SIMPLIFIED HYDRAULIC DIAGRAM

2.2.1. Heating only with a buffer tank / hydraulic separation



	Flexible hose pipe		Buffer Tank
	Ball Valve		Water pump
	Ball Valve		Delivery water flow
	Water filter		Return water flow
	Drain Valve		

ALL THE DIAGRAMS AND THE ACCESSORIES ARE ONLY AN EXAMPLE OF THE INSTALLATION AND HAVE TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL REGULATIONS.

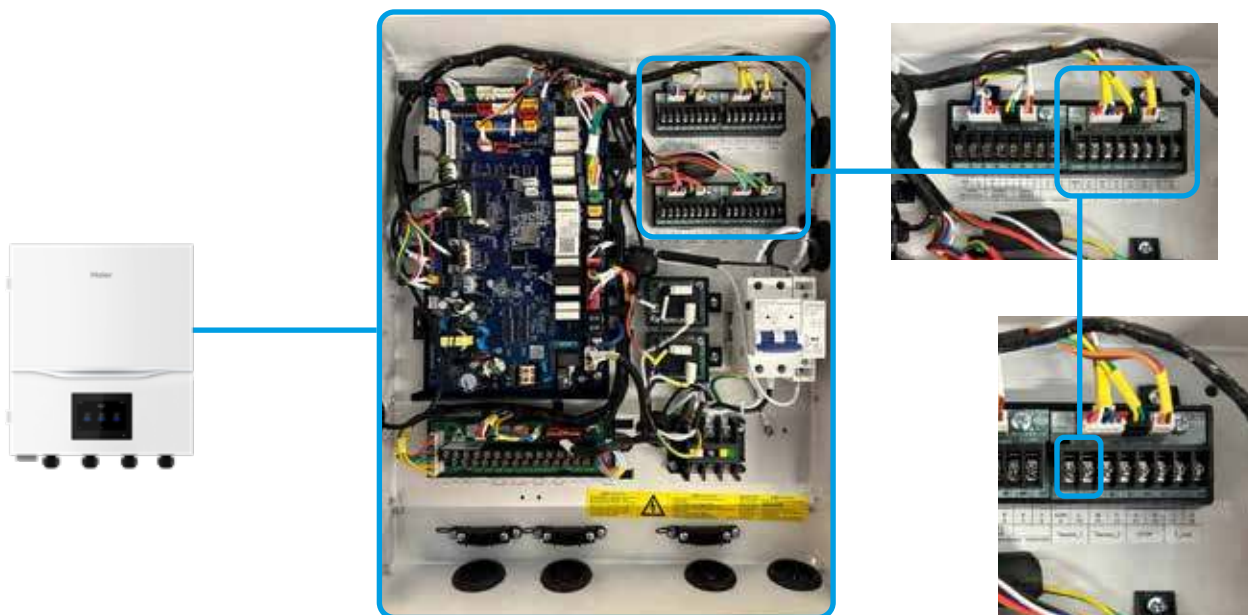
FOR ELECTRICAL CONNECTIONS REFER TO POINT 1.0.

Note: The unit must operate with the minimum system volume, see annexe at end of manual.

2.2.2. CONNECTIONS

Water temperature sensor for Zone 1

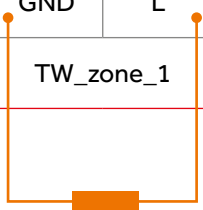
All the connections on connection board 1, 2, 3 and 4 are with screw terminals.



Connection Board 2

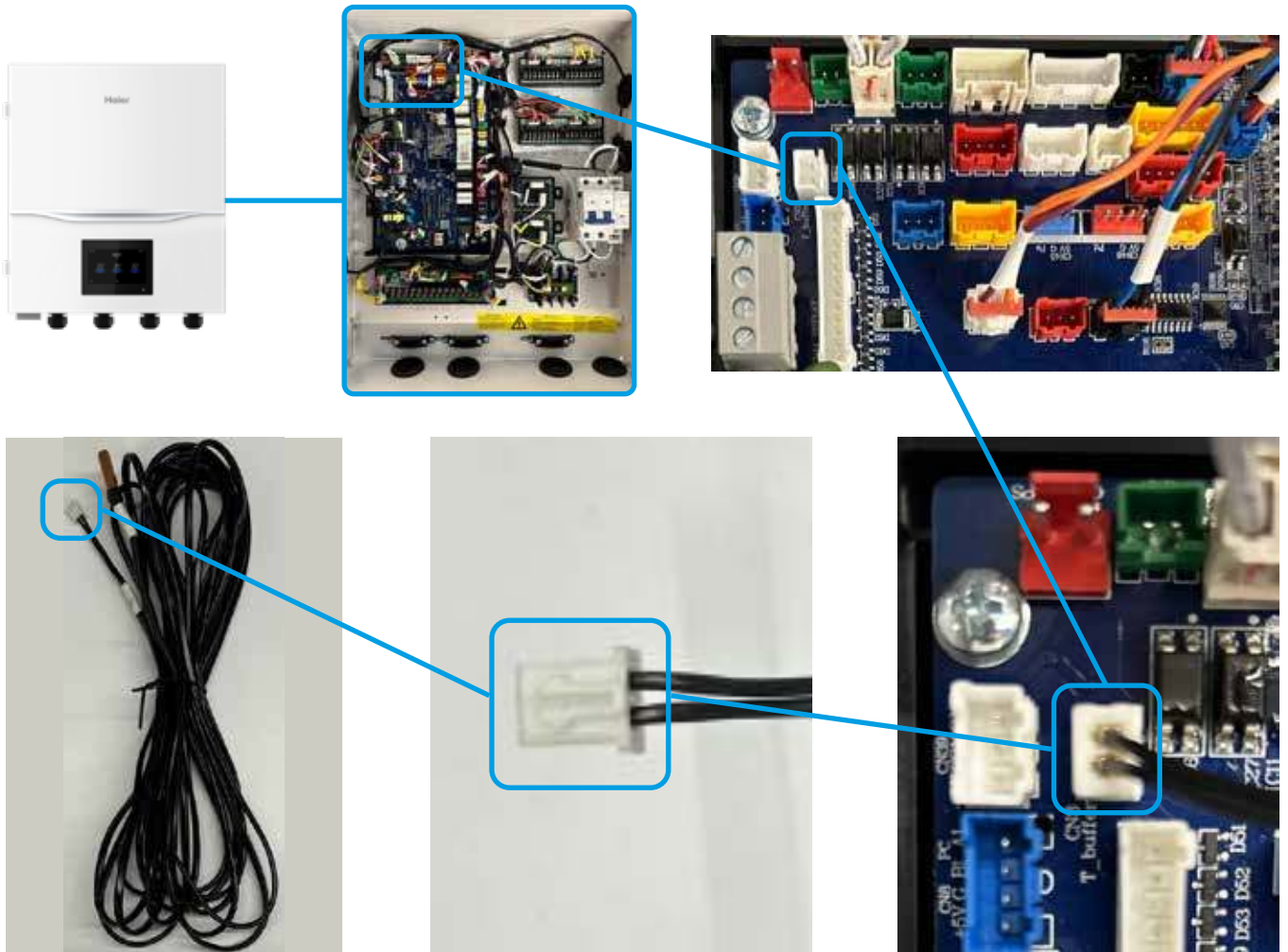
Connection Board

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zone_1		TW_zone_2		STOP		T_out2	



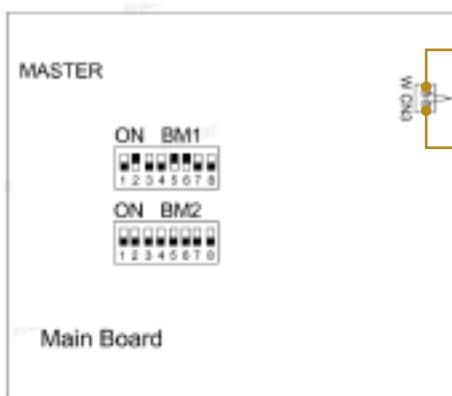
NOTE YOU CAN USE EITHER ZONE 1 SENSOR TW_ZONE 1 OR THE WATER SENSORS IN THE OUTDOOR UNIT TO CONTROL THE HEAT PUMP.

2.2.2. SIMPLIFIED HYDRAULIC DIAGRAM



* You must use the sensor with the white plug.

*** T-BUFFER IS NOT MANDATORY**



On the main PCB in the connector CN3 we can connect the water temperature for buffer tank.

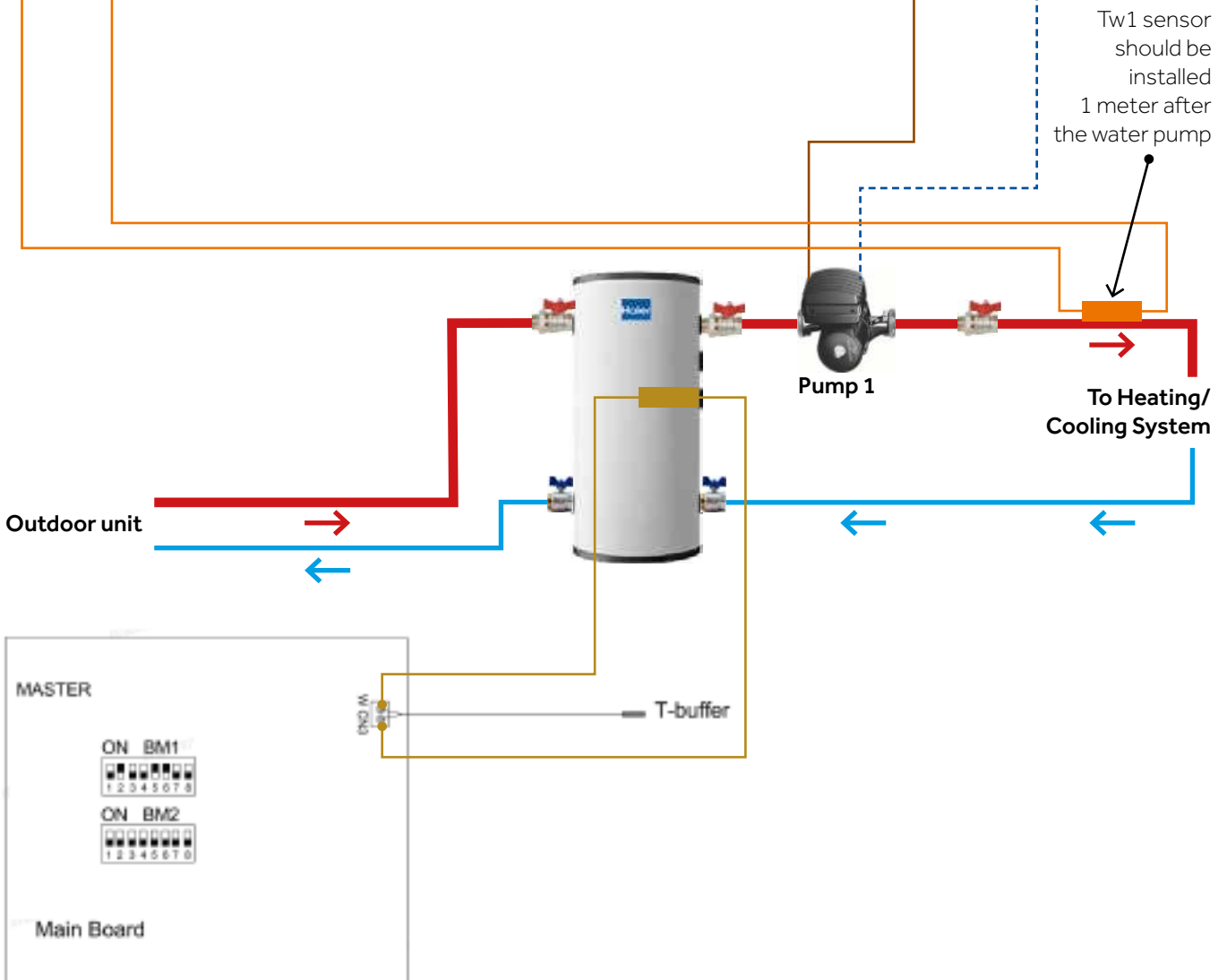


**IT'S POSSIBLE TO SET THE UNIT TO OPERATE TO CONTROL THE BUFFER TEMPERATURE ONLY.
IF YOU WANT TO DO THIS YOU CAN INSTALL A BUFFER CONTROL SENSOR.**

2.2.3. SIMPLIFIED HYDRAULIC DIAGRAM

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1	Tw zone_2	STOP			T_out2		

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N						
				Heater 1		Heater 2		Boiler		Error			



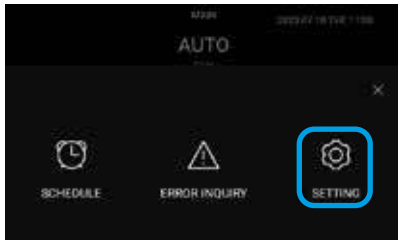
	Buffer Tank		T Buffer water temp sensor
	Ball Valve		Tw zone 1 water temp sensor
	Ball Valve		Delivery water flow
	Water pump		Return water flow
	Neutral		Live

2.2.4. CONTROLLER SETTINGS

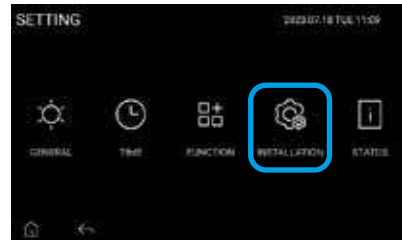
Equipment Installation main settings



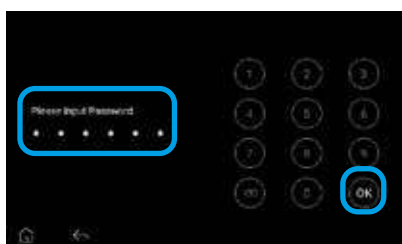
1



2



3



4 * Password "841226" OK



5



← ON
 ← OFF
 ← OFF
 ← ON

* SELECT ON TO ACTIVATE ZONE 1

* SELECT ON TO ACTIVATE BUFFER TANK

Press "house" to return to main menu

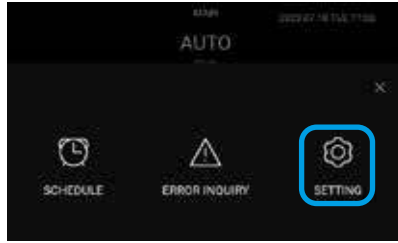
Function	Parameter Range	Settings
Zone 1	ON/OFF	ON
Buffer Tank	ON/OFF	ON

2.2.4. CONTROLLER SETTINGS

System Installation main settings



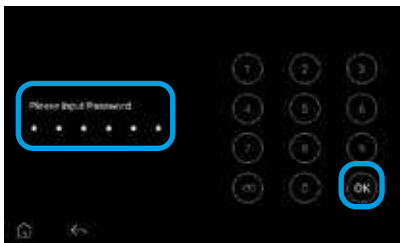
1



2



3



4 * Password "841226" OK



5



- ← Main Controller
- ← Main Controller
- ← Main Controller
- ← Main Controller

* SELECT THE CONTROL MODE FOR ZONE 1

Function	Parameter Range	Settings
Control Mode of Zone 1	Main controller Third party controller	Main controller



- ← 45°C
- ← 27°C
- ← 6°C
- ← 0°C

*ENTER DELTA T° FOR HEATING ON

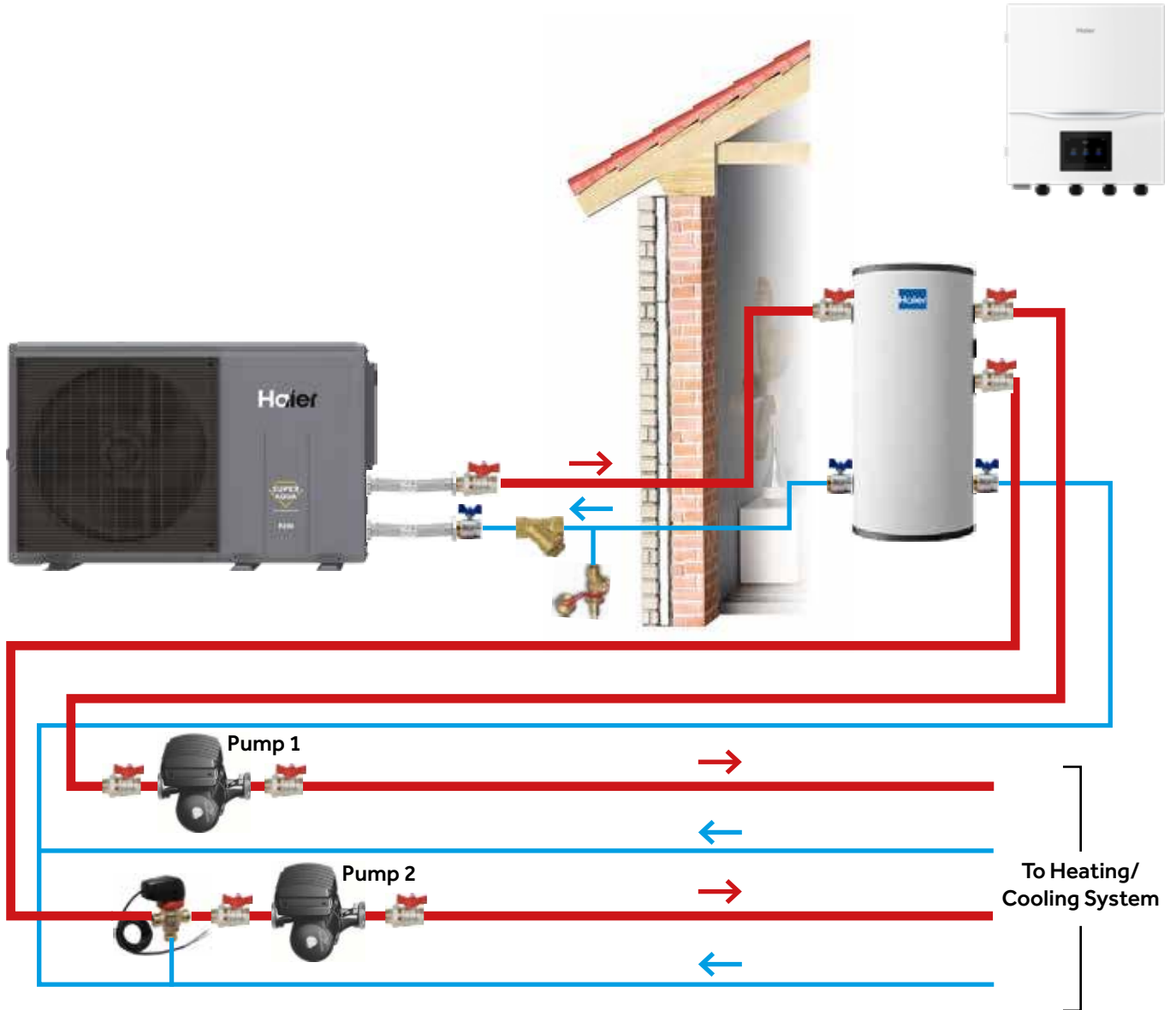
Press "house" to return to main menu











Function	Parameter Range	Settings
ΔT for Heating On	0 - 15°C	6°C

3.0. ZONE 2 - MULTIPLE ZONES

3.1. SIMPLIFIED HYDRAULIC DIAGRAM

Heating only multiple zones



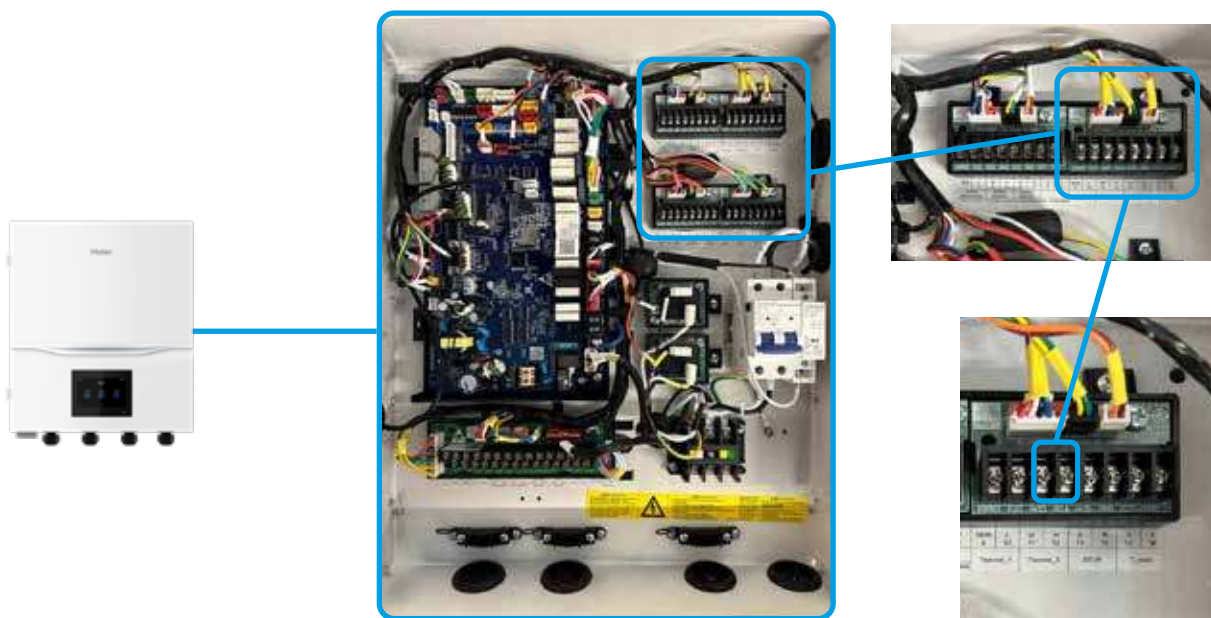
	Flexible hose pipe		Buffer Tank
	Ball Valve		Water pump
	Ball Valve		Mixing Valve
	Water filter		Delivery water flow
	Drain Valve		Return water flow

ALL THE DIAGRAMS AND THE ACCESSORIES ARE ONLY AN EXAMPLE OF THE INSTALLATION AND HAVE TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL REGULATIONS.

FOR ELECTRICAL CONNECTIONS REFER TO POINT 1.0.

PUMPS 1, 2 ETC ARE CONTROLLED BY EXTERNAL RUN SIGNALS. THE HEAT PUMP HEATS THE BUFFER. THE CONTROL OF VALVES AND PUMPS AFTER THE BUFFER IS BY EXTERNAL THERMOSTATS - RUN SIGNALS.

3.2. WATER TEMPERATURE SENSOR FOR ZONE 2



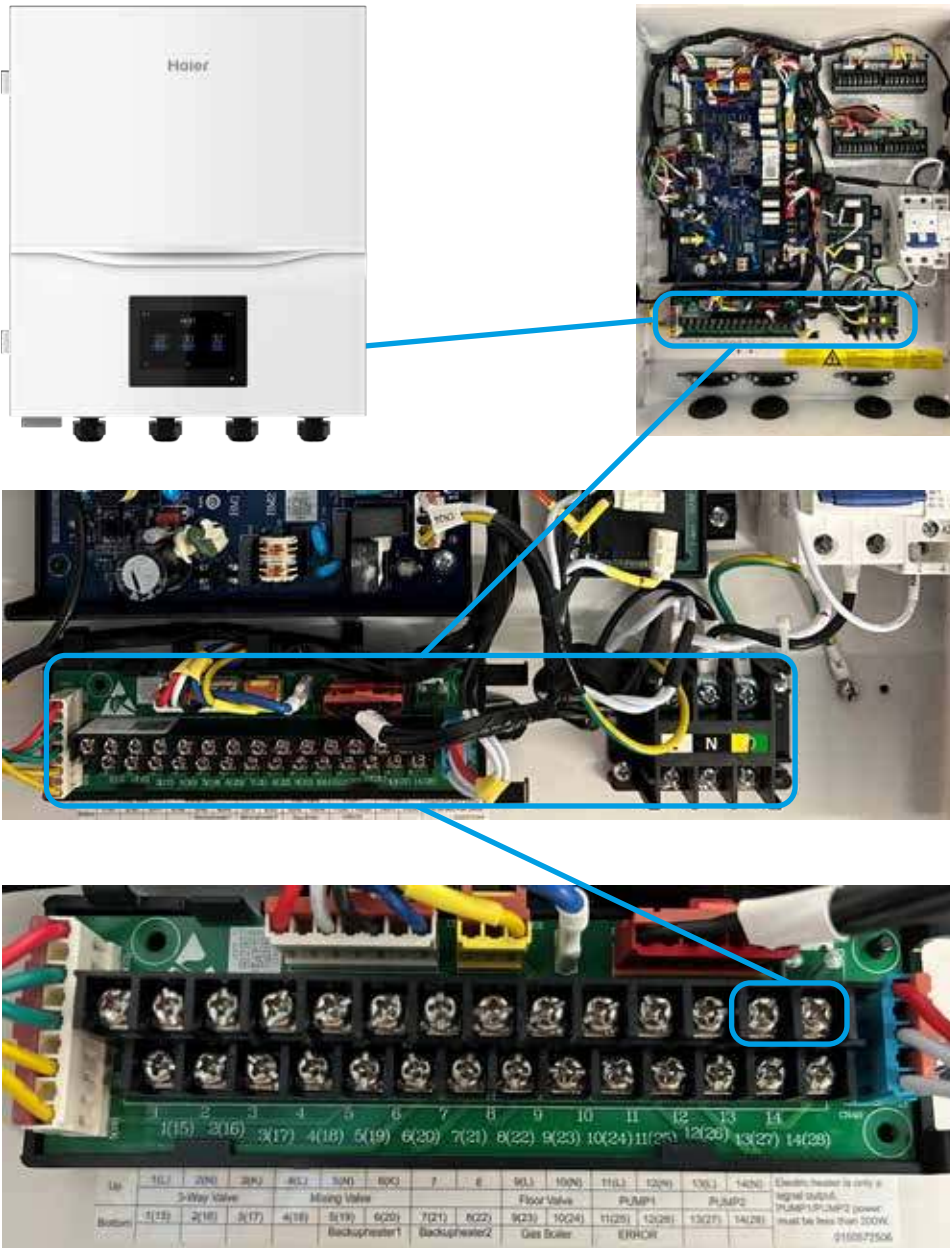
Connection Board 2

Connection Board

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zone_1		TW_zone_2		STOP		T_out2	

On the connection board number 2 between terminals 11 (M) and 12 (H) we can connect the water temperature sensor for zone 2.

Water pump for Zone 2



Connection Board 5

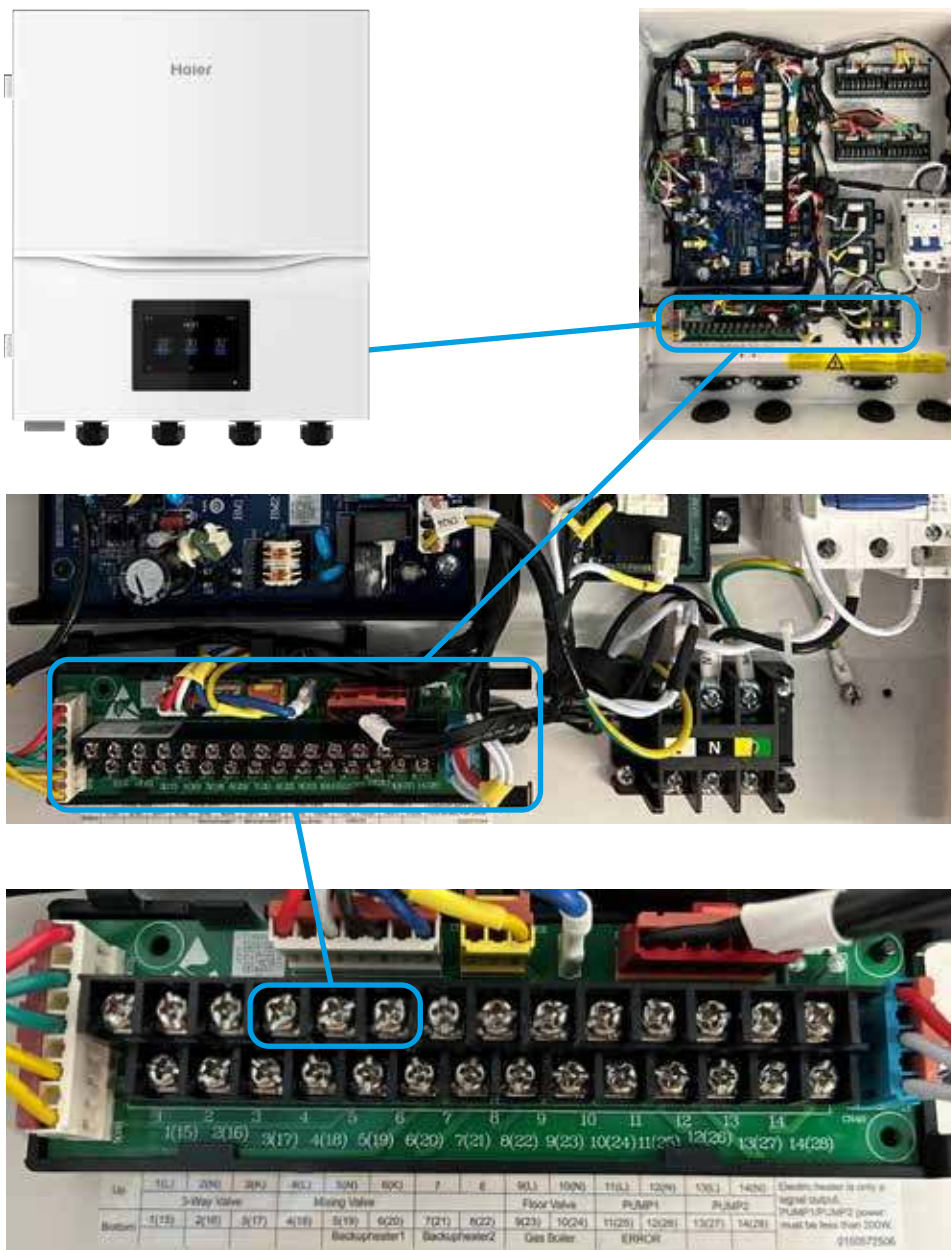
* All the connections on connection board 5 are with screw terminals.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N			Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

On connection board number 5 between terminals 13 (live) and 14 (neutral) we can connect the water pump for zone 1. On this connection we have an output voltage of 230VAC. The maximum electrical power that this contact can support is 200W.



Mixing Valve for Zone 2



Connection Board 5

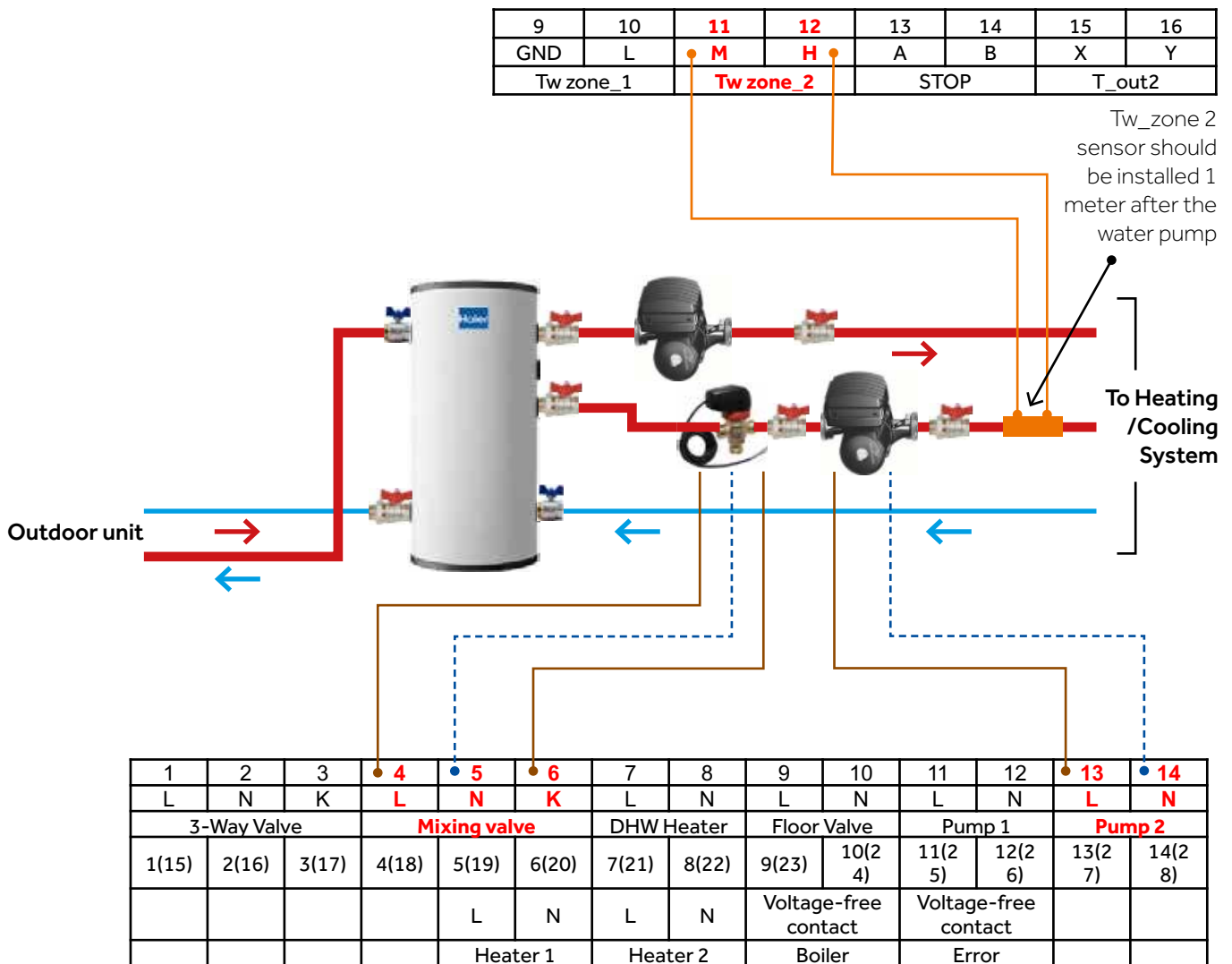
* All the connections on connection board 5 are with screw terminals.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			Floor Valve			Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact		Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			



On connection board number 5 between terminals 4 (L), 5 (N) and 6 (K) we can connect the mixing valve for zone 2. On this connection we have an output voltage of 230VAC between 4 (L – live) and 5 (N – neutral) for closing the valve; 230VAC between 6 (K – live) and 5 (N – neutral) for opening the valve

3.3. SIMPLIFIED CONNECTION DIAGRAM



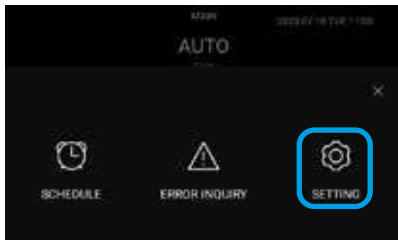
	Buffer Tank		Tw zone 2 water temp sensor
	Ball Valve		Delivery water flow
	Ball Valve		Return water flow
	Water pump		Live
	Mixing Value		Neutral

3.4. CONTROLLER SETTINGS

Equipment Installation main settings



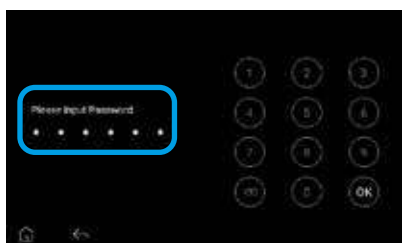
1



2



3



4 * Password "841226"



5



← ON
← ON
← OFF
← OFF

* SELECT THE CONTROL MODE FOR ZONE 1
* SELECT THE CONTROL MODE FOR ZONE 2

Function	Parameter Range	Settings
Zone 1	ON/OFF	ON
Zone 2	ON/OFF	ON



← ON
← OFF
← ON
← OFF

* SELECT ON TO CONSIDER BUFFER TANK
* SELECT ON TO ALLOW COOL MODE
* SELECT ON TO ALLOW COOL MODE OF ZONE2

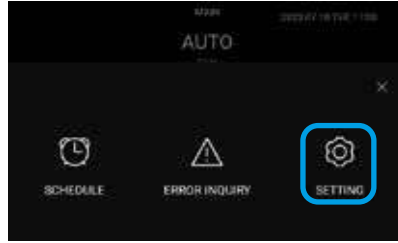
Function	Parameter Range	Settings
Buffer Tank	ON/OFF	ON
Allow Cool Mode	ON/OFF	ON
Allow Cool Mode Zone 2	ON/OFF	OFF

* THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.

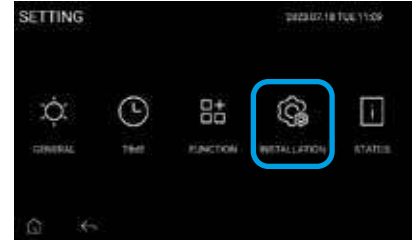
System Installation main settings



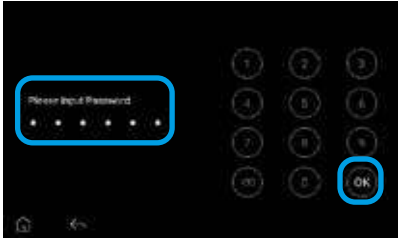
1



2



3



4 * Password "841226" OK



5



← Main Controller

* SELECT THE CONTROL MODE FOR ZONE 1

← Main Controller

* SELECT THE CONTROL MODE FOR ZONE 2

← Main Controller

← Main Controller

Function	Parameter Range	Settings
Control Mode of Zone 1	Main controller Third party controller, IDU ambient Temp. sensor	Main controller
Control Mode of Zone 2	Main controller Third party controller	Main controller



← 45°C

← 27°C

← 6°C

← 0°C

*ENTER DELTA T° OF HEATING ON

Press "house" to return to main menu

Function	Parameter Range	Settings
ΔT for Heating On	0 - 15°C	6°C

SCROLL DOWN TWO PAGES FOR THESE SETTINGS



← 5°C

← 45°C

← 24°C

← 60s

***ENTER DWH TEMPERATURE**



← 60s

Function	Parameter Range	Settings
Travel Time of Mixing Value	30 - 240s	60s

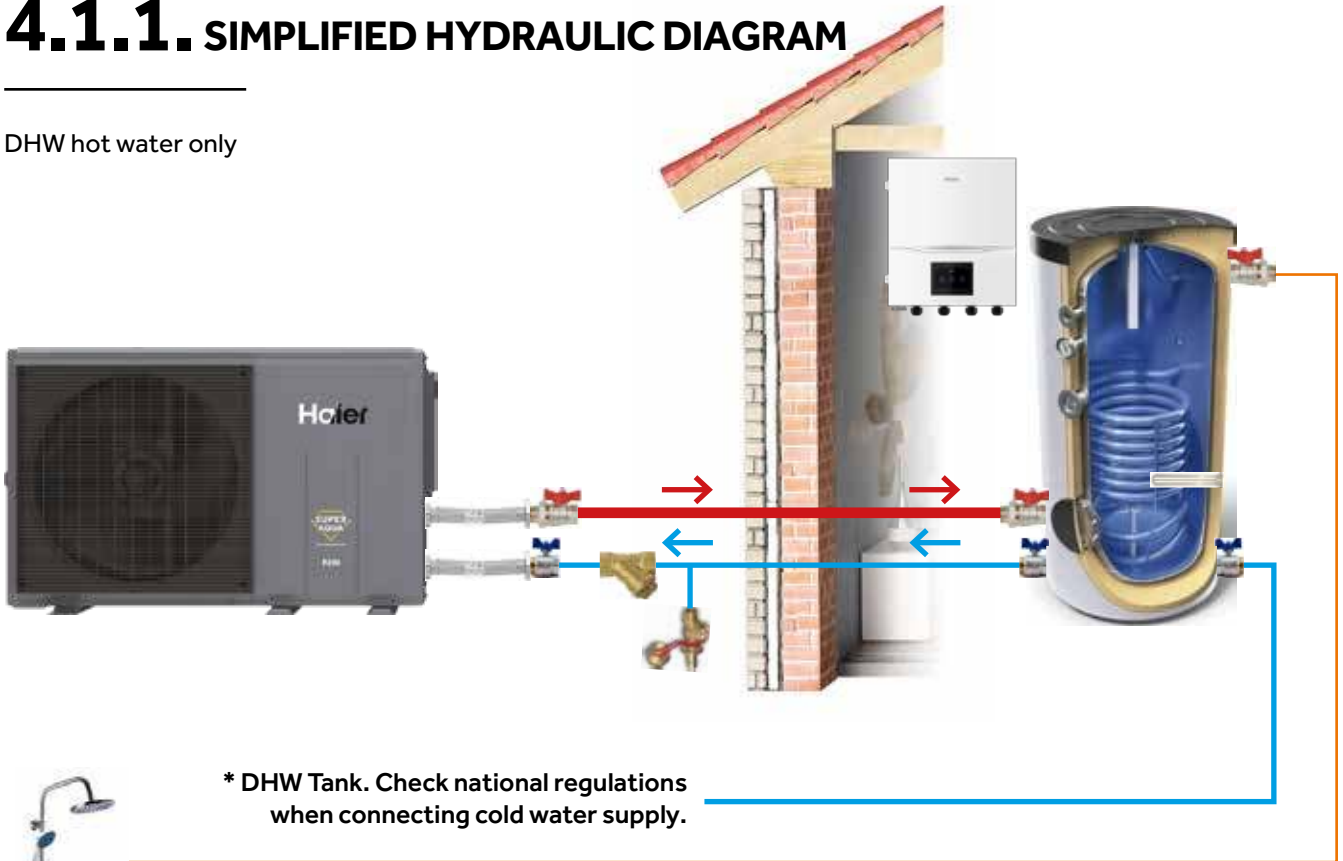
*** THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.**

4.0. DOMESTIC HOT WATER

4.1. DHW INSTALLATION

4.1.1. SIMPLIFIED HYDRAULIC DIAGRAM

DHW hot water only



	Flexible hose pipe		DHW Tank
	Ball Valve		Electrial Heater DHW
	Ball Valve		Delivery water flow
	Water filter		Return water flow
	Drain Valve		

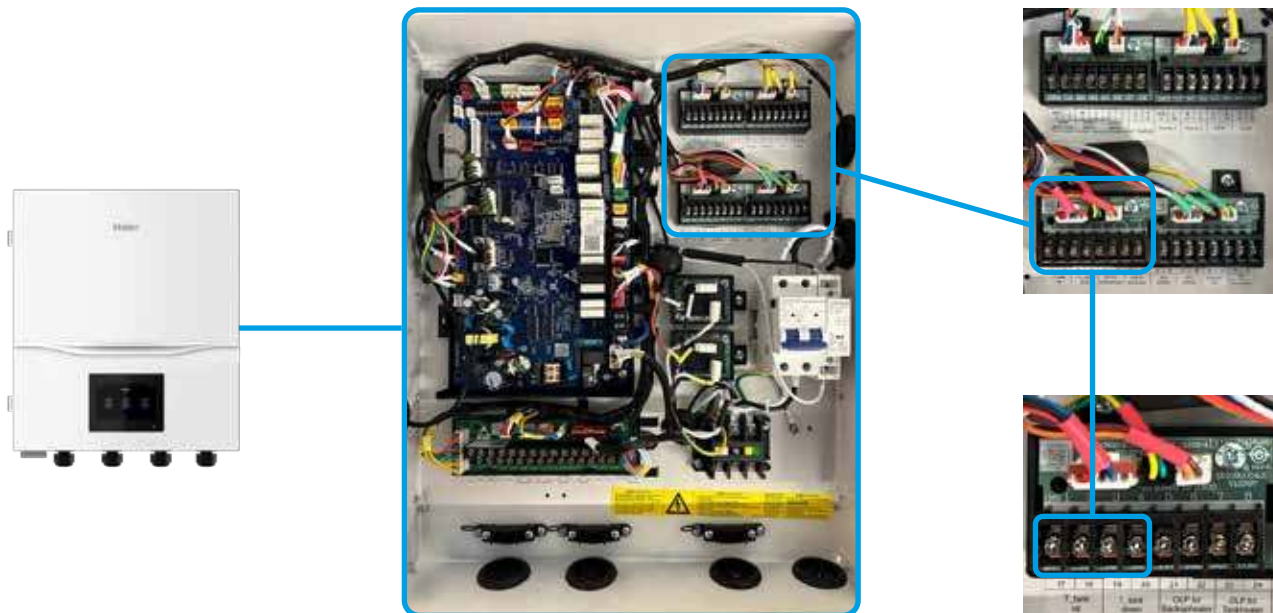
ALL THE DIAGRAMS AND THE ACCESSORIES ARE ONLY AN EXAMPLE OF THE INSTALLATION AND HAVE TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL REGULATIONS.

FOR ELECTRICAL CONNECTIONS REFER TO POINT 1.0.

An E10 error shows if a cylinder sensor is not wired into the system.

4.1.2. CONNECTIONS

Water temperature sensors connection



Connection Board 3

Connection Board

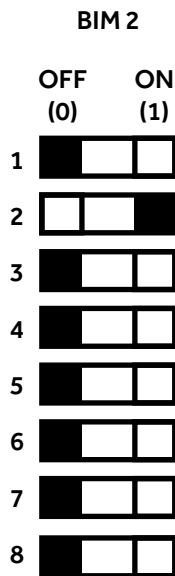
17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_tank up		T_tank down		OLP Auxiliary Heater		OLP For Tank Heater	

On connection board number 3 between terminals 17 (GND) and 18 (L) we must connect the T_tank up water temperature sensor for the DHW tank, that should be installed in the top of the tank.

On the connection board number 3 between terminals 19 (M) and 20 (H) we must connect the T_tank down water temperature sensor for the DHW tank, that should be installed in the bottom of the tank.

* If the DHW has only one pocket for water temperature control only use T-tank up, it's necessary to modify switch BM2 on ATW-A03 N for avoid a error E10, missing temperature sensor.

Switch Setting - 1 sensor for DHW

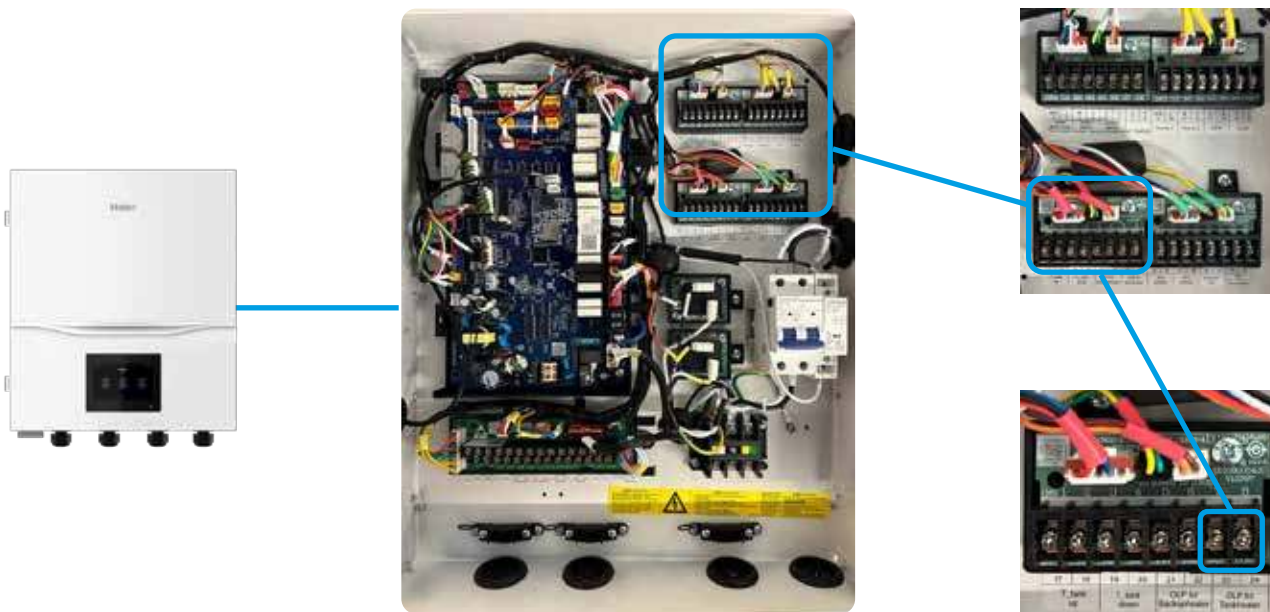


BM2	Water tank Sensor selection	(2)	Water tank sensor selection
		ON (1)	Only 1 sensor, T_tank up
		OFF (0)	2 sensor, T_tank up and T_tank down (default)

If your installation is using one DHW sensor, change Switch 2 on BM2 to on.

Note: You must power off the unit for 60 seconds, then move dip switches, they are not read if the power is on.

Protection signal feedback port of electrical heater for Tank heater (OLP)



Connection Board 3

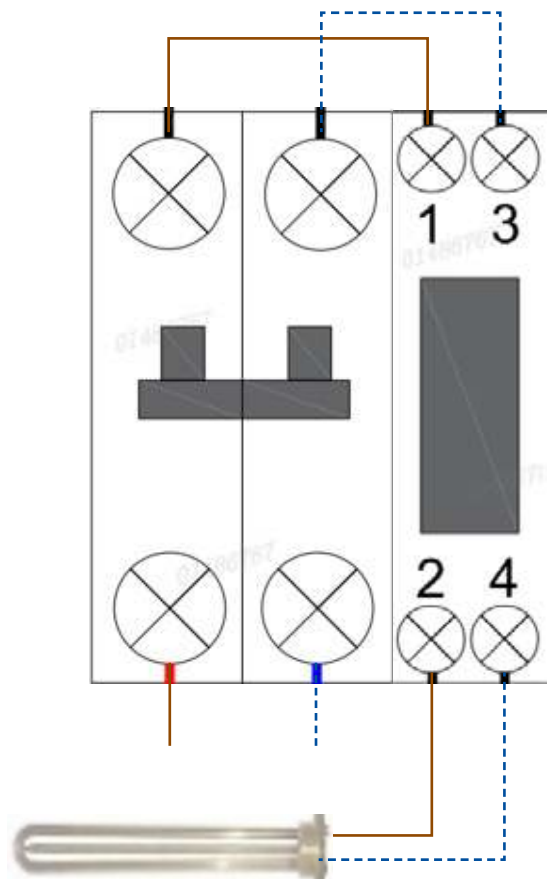
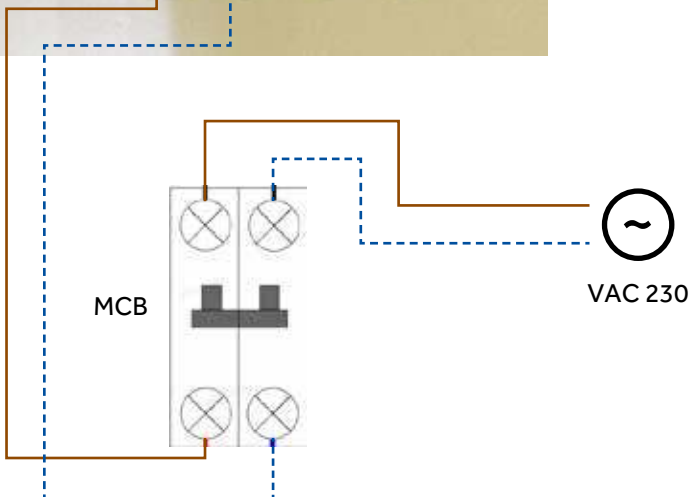
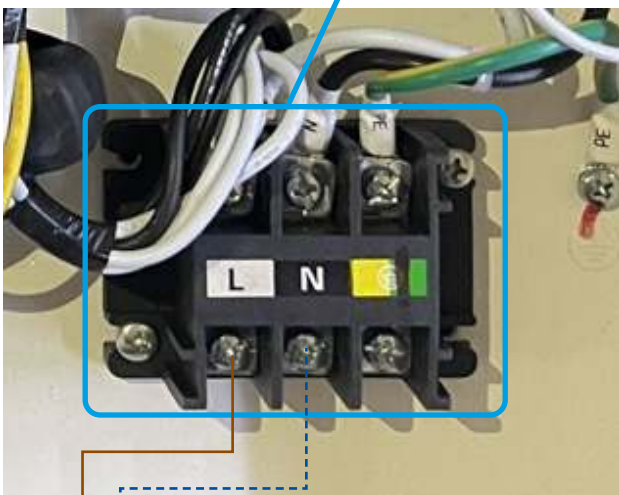
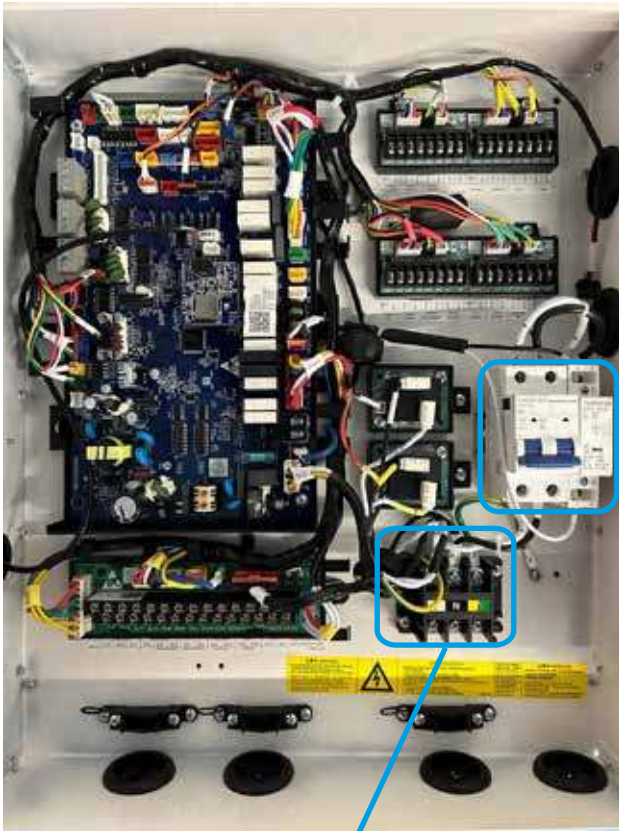
Connection Board

17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_tank up		T_tank down		OLP Auxiliary Heater		OLP For Tank Heater	

On the connection board number 3 between terminals 23 (X) and 24 (Y) connect the OLP for tank Heater

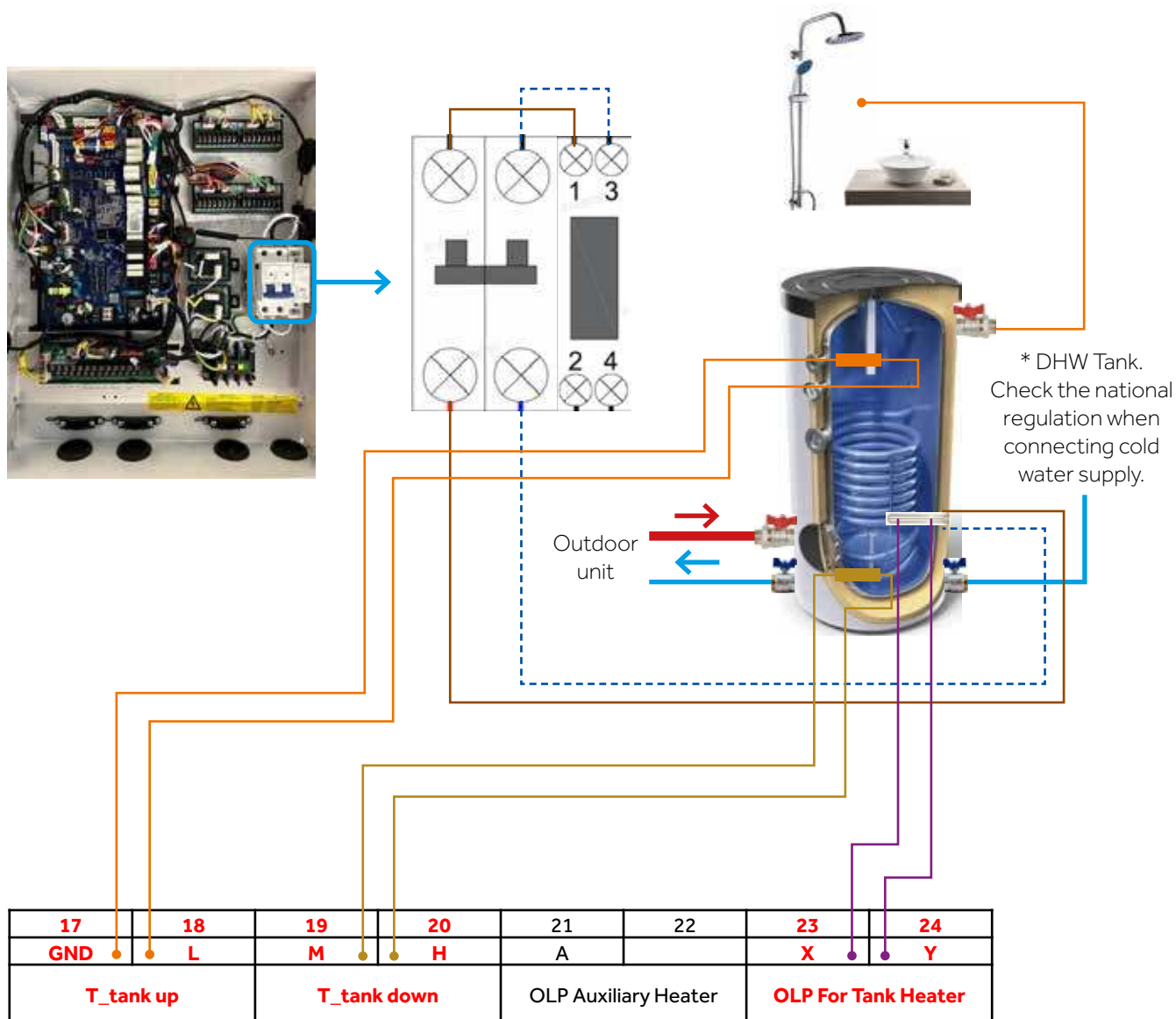
On connection board number 3 between terminals 23 (X) and 24 (Y) we must connect the electrical heater protection for the DHW tank. This is a normally closed volt-free contact, which means that when the contact is closed, no error; when the contact is open, we have an error.

Electrical Heater



4.1.3. SIMPLIFIED CONNECTION DIAGRAM

Equipment Installation main settings



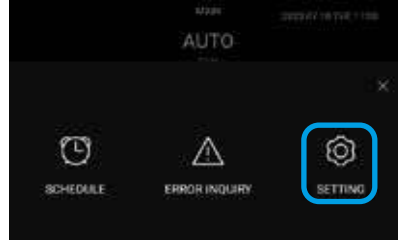
	DHW Tank		T_tank up water temperature sensor
	Ball Valve		T_tank down water temperature sensor
	Ball Valve		OLP For Tank Heater
	Delivery water flow		Line
	Return water flow		Neutral
	Electric Heater DHW		

4.1.4. CONTROLLER SETTINGS

System Installation main settings



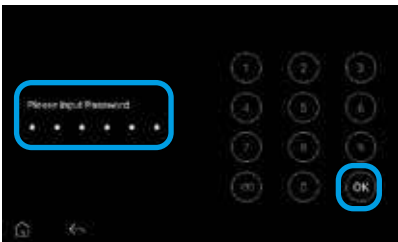
1



2



3



4 * Password "841226" OK



5



← OFF
← ON
← OFF

* SELECT ON FOR DHW

Function	Parameter Range	Settings
DHW	ON/OFF	ON



← 0°C
← 10min
← ON
← 3.0kW

* SELECT ON TO ALLOW TANK HEATER
* ENTER THE TANK HEATER POWER

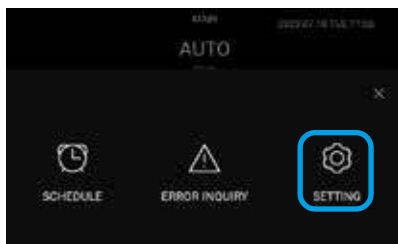
Press "house" to return to main menu

Function	Parameter Range	Settings
Allow Tank Heater	ON/OFF	ON
Tank heater power	0.0 - 9.0 kW	3.0kW

* THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.



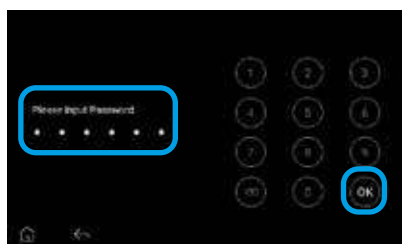
1



2



3



4 * Password "841226" OK



5



- ← Main Controller
- ← Main Controller
- ← **Main Controller**
- ← Main Controller

*** SELECT THE CONTROL MODE OF DHW**

Function	Parameter Range	Settings
Control Mode of DHW	Main controller, Third party controller	Main controller



- ← **45°C**
- ← 27°C
- ← 6°C
- ← 0°C

*** SELECT DHW ON TEMP**

THIS SETTING TELLS THE UNIT THE TEMPERATURE THE WATER MUST FALL TOO BEFORE IT STARTS HEATING THE DHW TANK.

Function	Parameter Range	Settings
DHW On Temp	30 - 75°C	45°C



***ENTER TANK RE-HEAT TEMP**

Press "house" to return to main menu

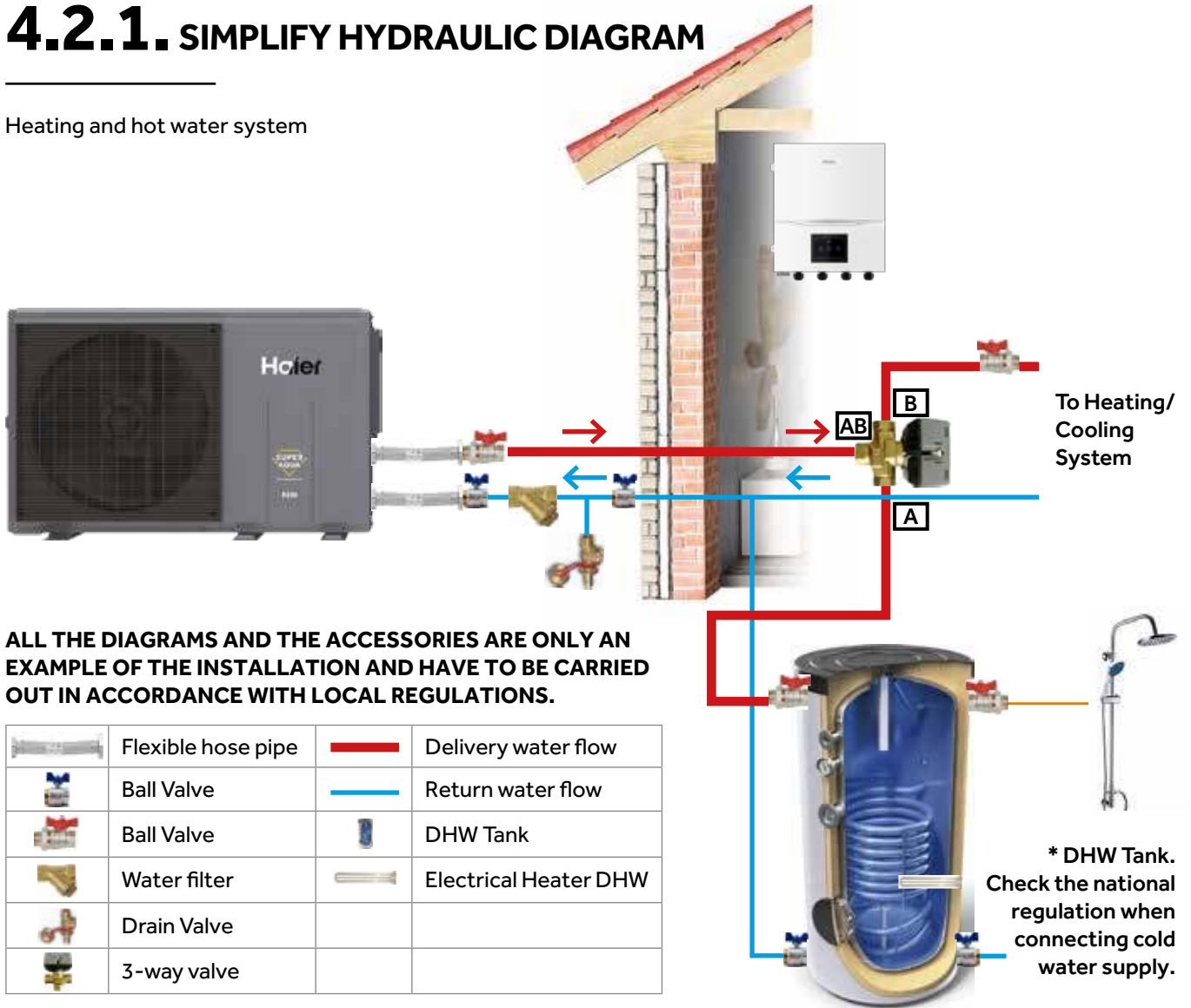
Function	Parameter Range	Settings
Tank Re-heat Temp	-12 - 2°C	-3°C

*** THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.**

4.2. DHW + 3-WAY VALVE FOR HEATING & COOLING INSTALLATION

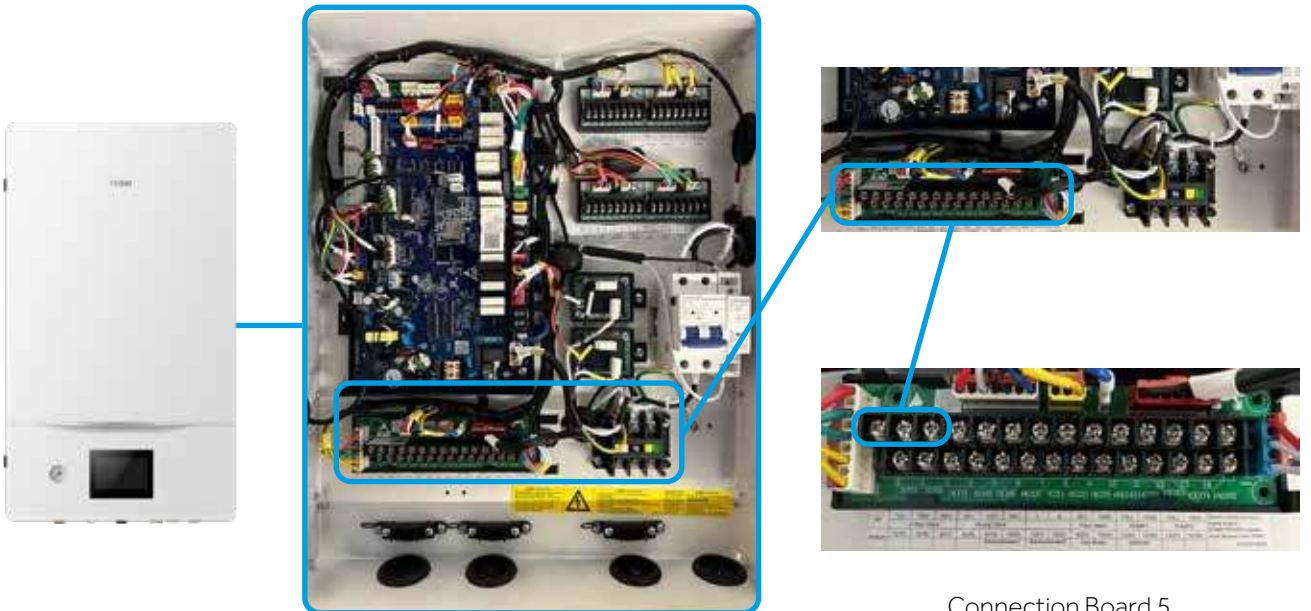
4.2.1. SIMPLIFY HYDRAULIC DIAGRAM

Heating and hot water system



FOR ELECTRICAL CONNECTIONS REFER TO POINT 1.0.

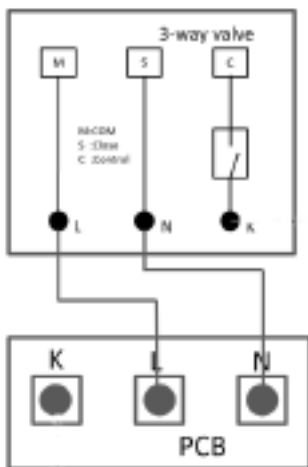
Three-way valve



Connection Board 5

Connection Board

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				

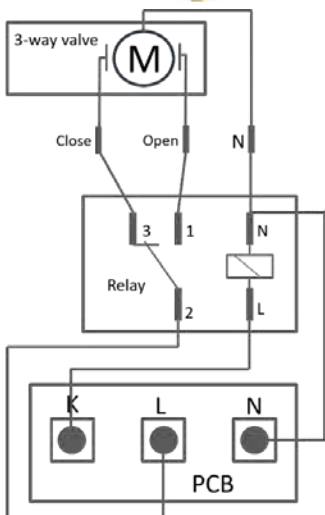


SPST

If you are using a 3-way valve with a spring return.

The valve needs a 230 Volt signal from K (live) to N (Neutral) to move the valve to DHW mode. When there is no DHW demand, there will be no power to the valve so it will return to heating using the return spring.

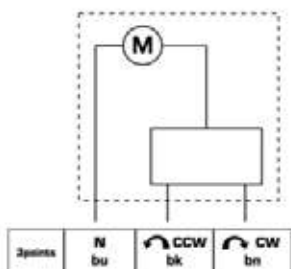
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



SPDT

If you are using a 3-port valve with no spring return, you will need to add a field supplied relay. The pcb only has one output so it cannot open and close the valve.

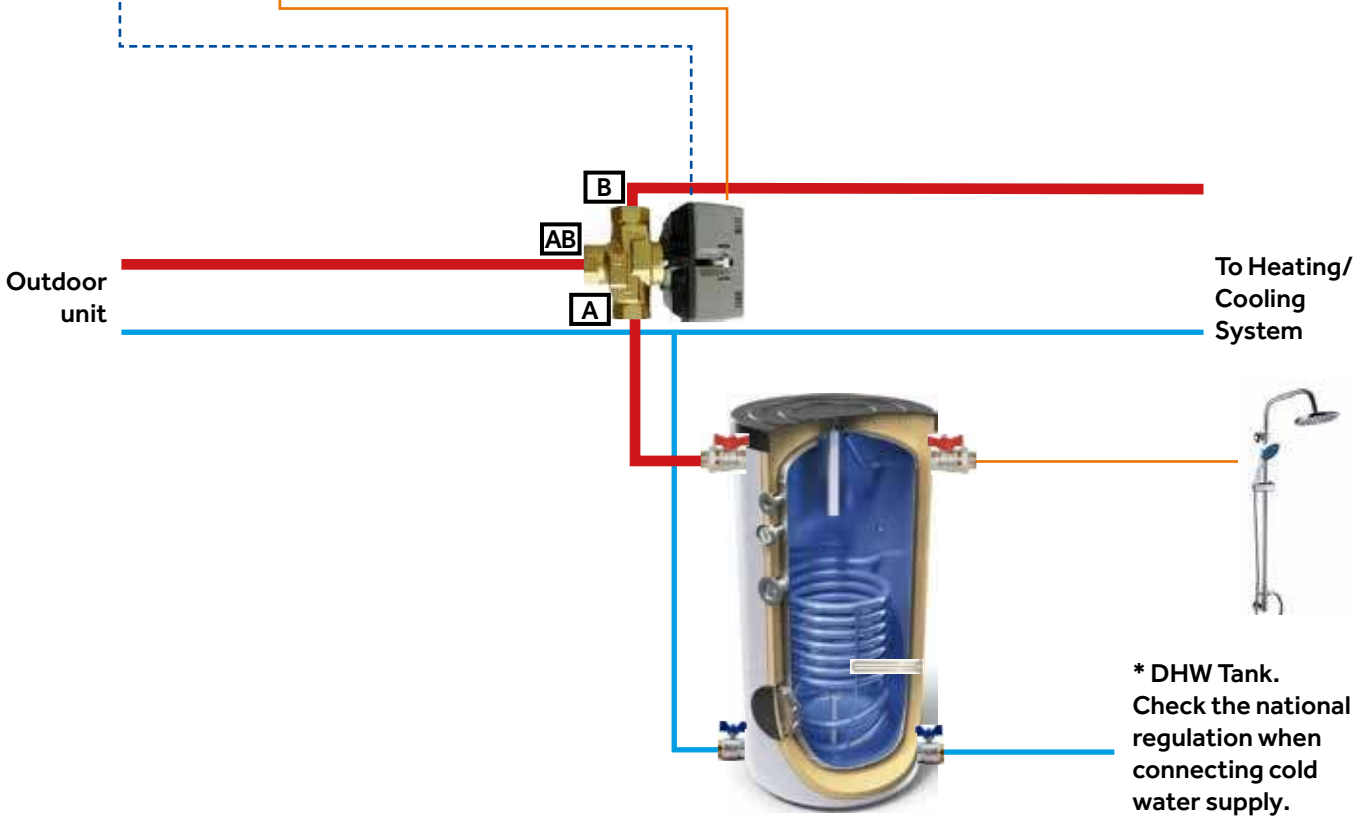
Use the L and N from the pcb to operate the relay coil and wire the valve to the relay, as per the diagram.



4.2.2. SIMPLIFIED CONNECTION DIAGRAM

Connection Board

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



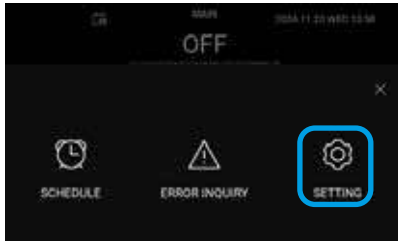
*** CONNECTIONS FOR ZONE1&2, CHECK THE CHAPTER 2.0 AND 3.0**

4.2.3. CONTROLLER SETTINGS

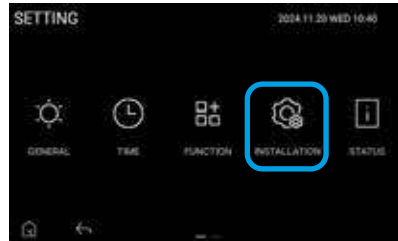
System Installation main settings



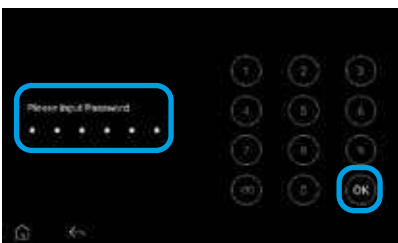
1



2



3



4 * Password "841226" OK



5



← ON
← OFF
← OFF
← ON

* SELECT ON TO ACTIVATE ZONE 1

* SELECT ON TO CONSIDER BUFFER TANK

Function	Parameter Range	Settings
Zone 1	ON/OFF	ON
DHW	ON/OFF	ON



← OFF
← OFF
← ON/OFF
← OFF

* SELECT ON TO ALLOW TANK HEATER

Function	Parameter Range	Settings
Allow Cool Mode	ON/OFF	ON

* THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.



- ← 0°C
- ← 10min
- ← ON
- ← 3.0 kW

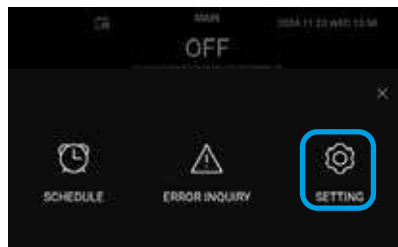
*** ENTER THE TANK HEATER POWER**

Press "house" to return to main menu

Function	Parameter Range	Settings
Allow Tank Heater	ON/OFF	ON
Tank Heater Power	0.0 - 9.0 kW	3.0 kW



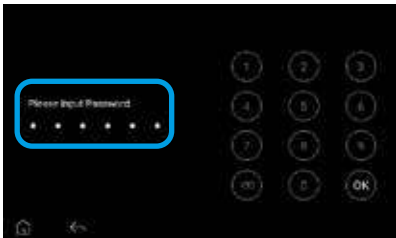
1



2



3



4 * Password "841226"



5



- ← Main Controller
- ← Main Controller
- ← Main Controller
- ← Main Controller

*** SELECT THE CONTROL MODE FOR ZONE 1**

*** SELECT THE CONTROL MODE OF DHW**

Function	Parameter Range	Settings
Control Mode of Zone 1	Main controller Third party controller, IDU ambient Temp. sensor	Main controller
Control Mode of DHW	Main controller Third party controller, IDU ambient Temp. sensor	Main controller



← 45°C

← 27°C

← 6°C

← 0°C

*** SELECT DHW ON TEMP**

*** SELECT DELTA T° FOR HEATING ON**

THIS SETTING TELLS THE UNIT THE TEMPERATURE THE WATER MUST FALL TOO BEFORE IT STARTS HEATING THE DHW TANK.

Function	Parameter Range	Settings
DHW On Temp	30 - 75°C	45°C
ΔT for Heating On	0 - 15°C	6°C



← 60min

← -3°C

← -1°C

← -3°C

*** SET TANK RE-HEAT TEMP**

Function	Parameter Range	Settings
Tank Re-heat Temp	-12 - 2°C	-3°C



← 5°C

← 45°C

← 24°C

← 60s

Press "house" to return to main menu

Function	Parameter Range	Settings
DT for Cooling On	0 - 15°C	5°C

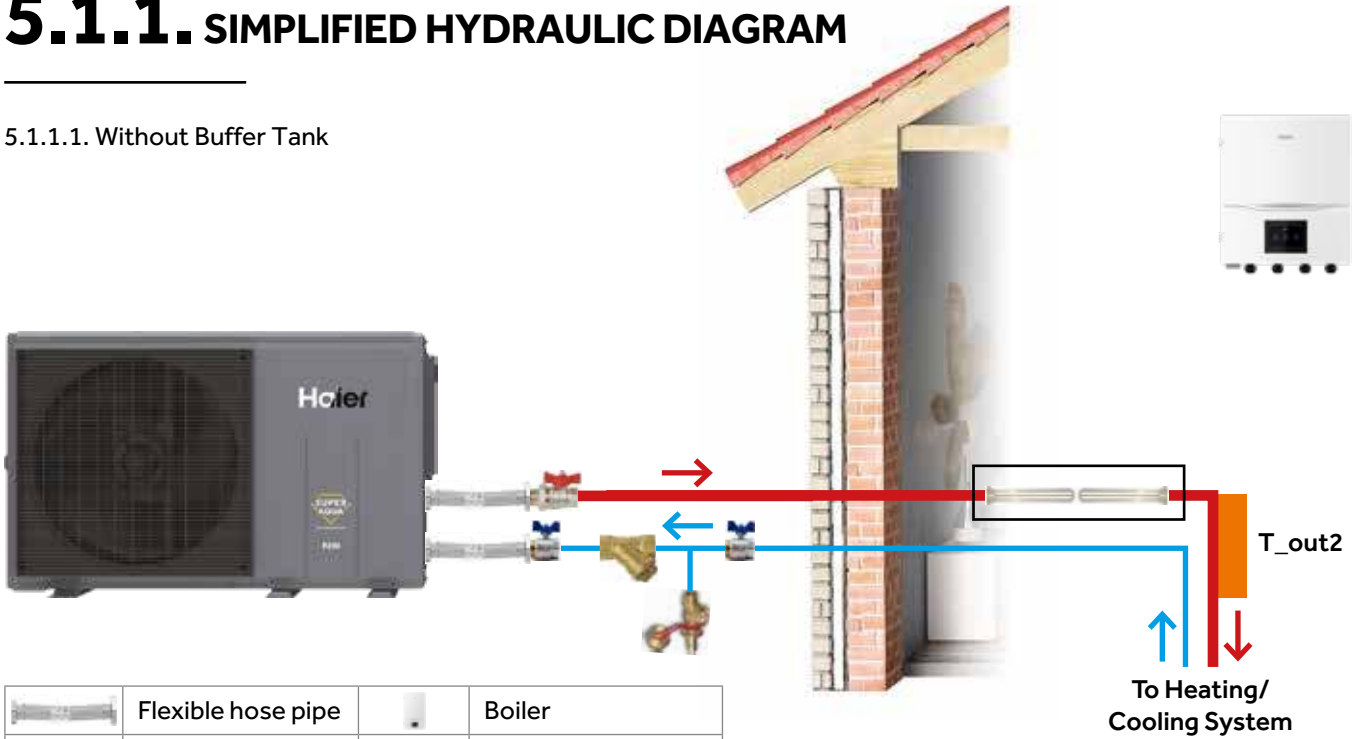
*** THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.**

5.0. AUXILIARY HEAT SOURCE CONNECTION

5.1. ELECTRICAL HEATER

5.1.1. SIMPLIFIED HYDRAULIC DIAGRAM

5.1.1.1. Without Buffer Tank

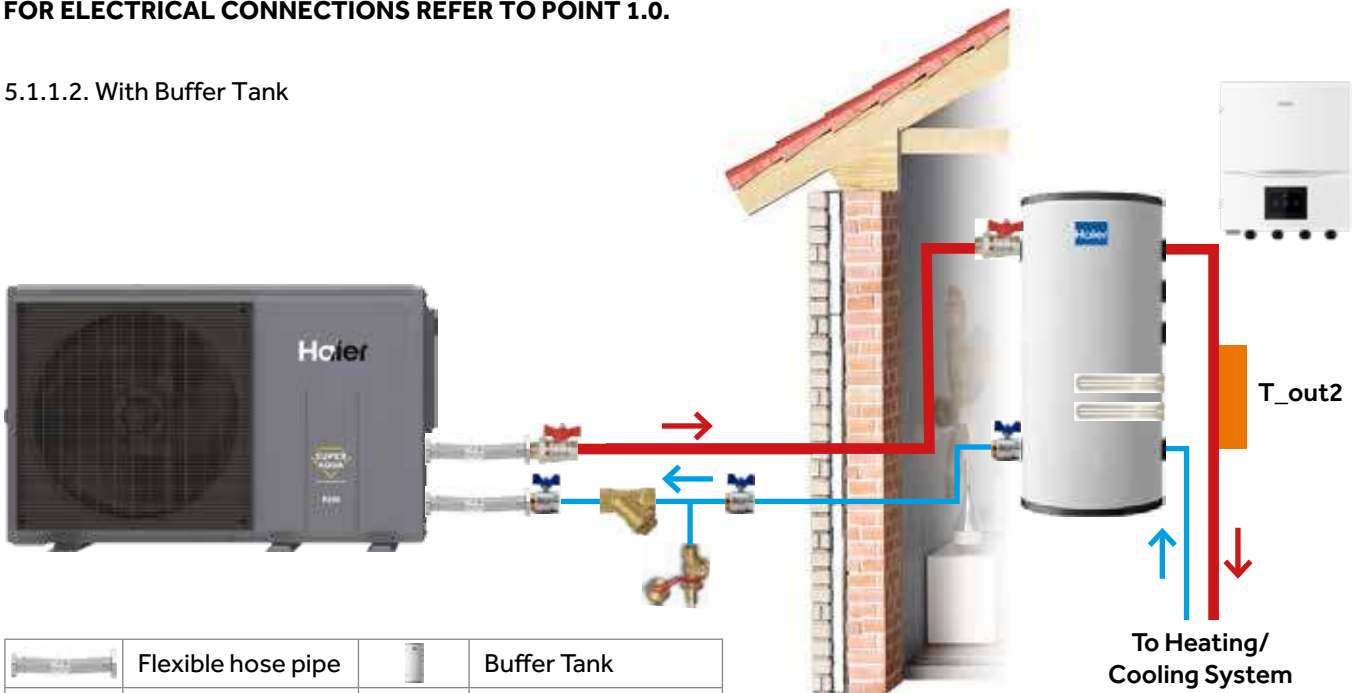


	Flexible hose pipe		Boiler
	Ball Valve		Delivery water flow
	Ball Valve		Return water flow
	Water filter		Electrical Heater
	Drain Valve		

ALL THE DIAGRAMS AND THE ACCESSORIES ARE ONLY AN EXAMPLE OF THE INSTALLATION AND HAVE TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL REGULATIONS.

FOR ELECTRICAL CONNECTIONS REFER TO POINT 1.0.

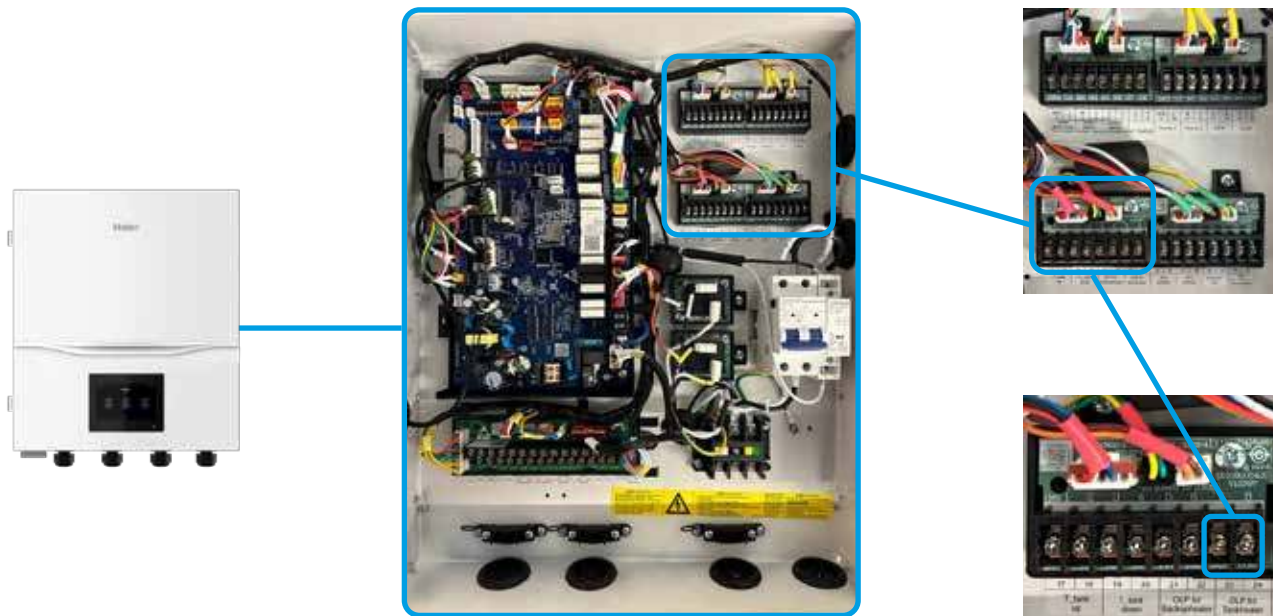
5.1.1.2. With Buffer Tank



	Flexible hose pipe		Buffer Tank
	Ball Valve		Delivery water flow
	Ball Valve		Return water flow
	Water filter		Electrical Heater
	Drain Valve		

5.1.2. CONNECTIONS

Temperature sensor for Auxiliary Heat Source



Connection Board 2

Connection Board

9	10	11	12	13	14	15	16
GND	L	M	H	A		X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

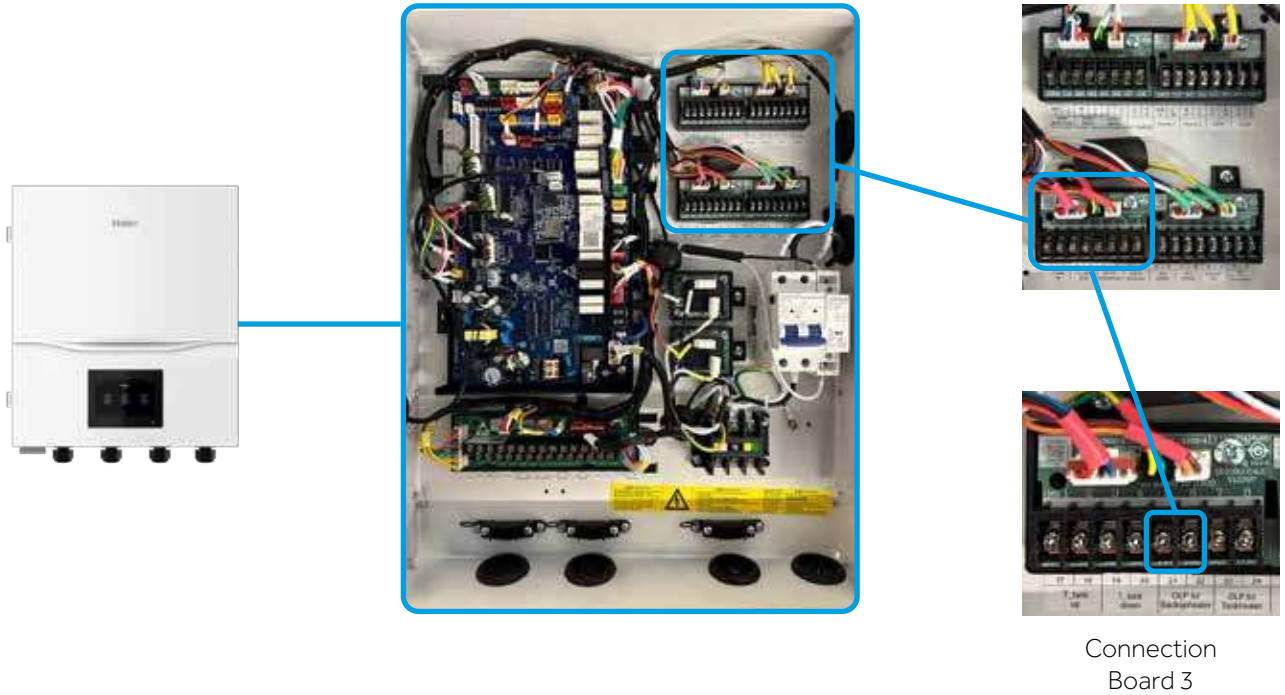
On connection board number 2 between terminals 15 (X) and 16 (Y) we can connect the water temperature sensor for T_out2.

*If we activate the backup heater, it's mandatory to connect the T_out2 sensor after auxiliary heat source.

An E02 error occurs if T_out 2 is not connected.

5.1.2. CONNECTIONS

Protection of electrical heater for Auxiliary Heat Source



Connection Board 3

Connection Board

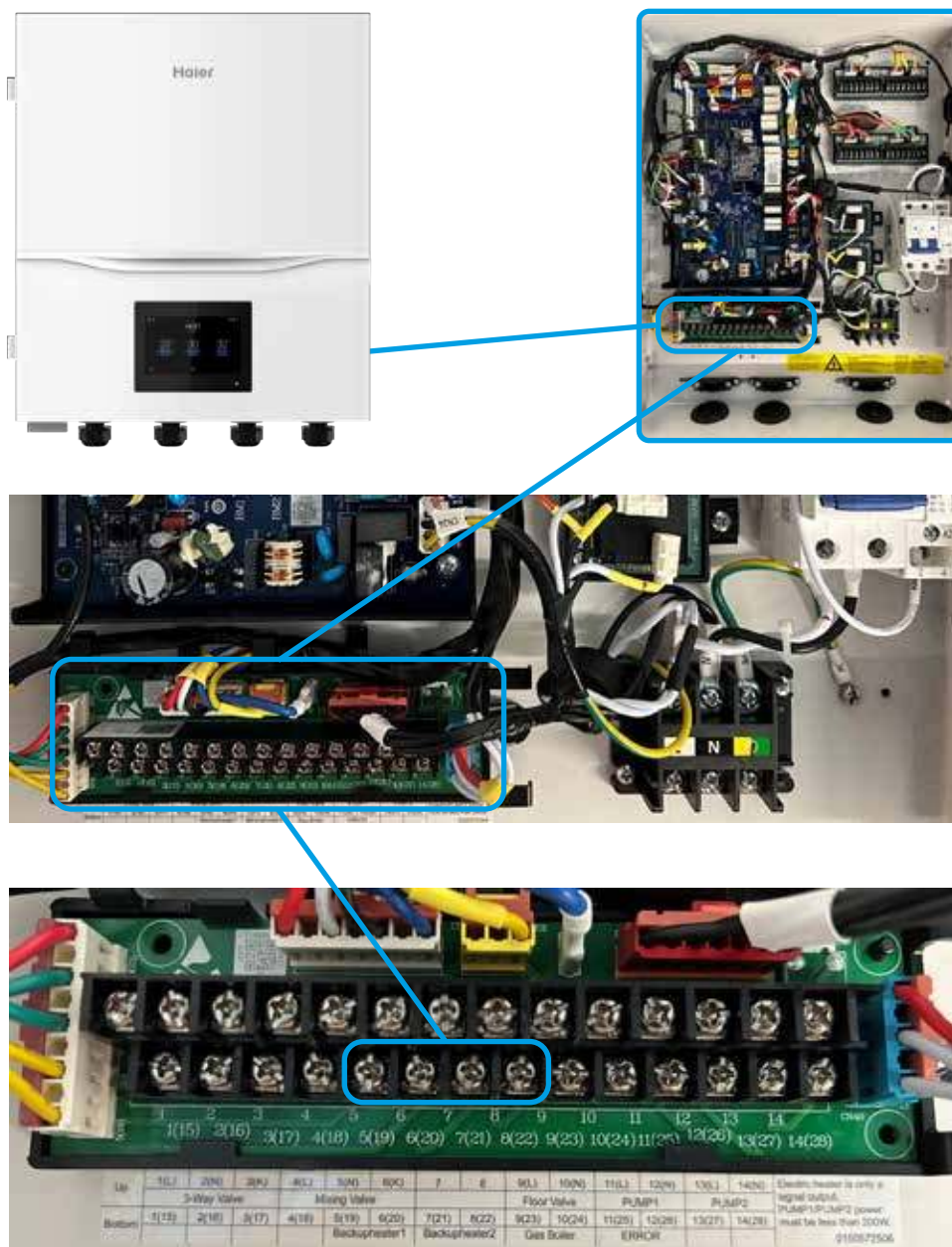
17	18	19	20	21	22	23	24
GND	L	M	H	A	B	X	Y
T_tank up		T_tank down		OLP Auxiliary Heater		OLP For Tank Heater	



On connection board number 3, between terminals 21 (A) and 22 (B), connect the electric heater protection for the auxiliary heat source. This is a digital input signal, normally closed, volt free contact, i.e. if the contact is closed, there is no fault; if the contact is open, there is a fault.

If the back up heater has its own OLP inside you can use a jumper here.

Control signal for Auxiliary Heat Source



Connection Board 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact		Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

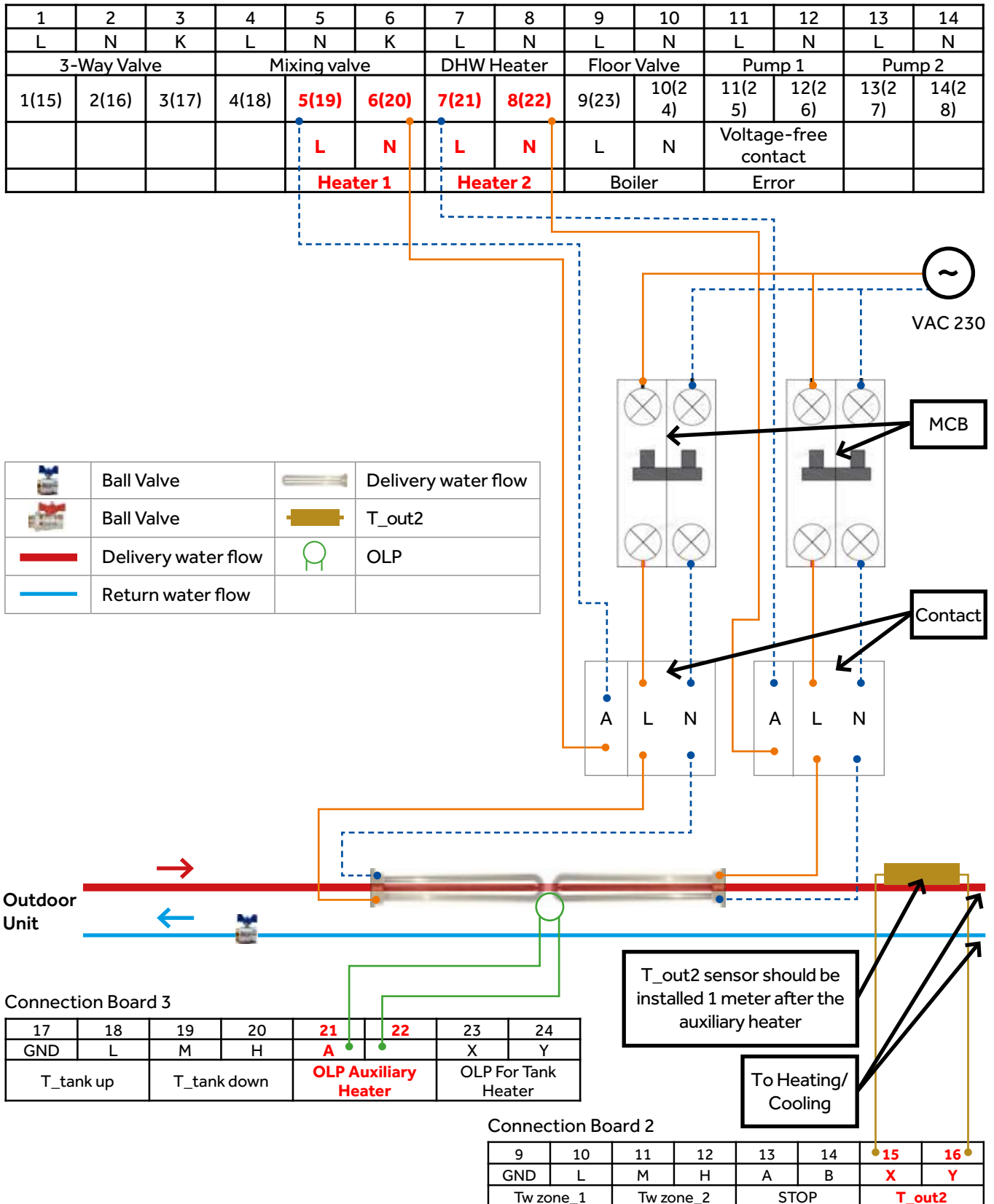


On connection board number 5, between terminals 5(19) and 6(20) we can connect the signal for the relay for heater 1 and between terminals 5(19) and 6(20) we can connect the signal for the relay for heater 2. Both of these connections have an output voltage of 230VAC to activate a relay.

*This connection must be done through a relay.

5.1.3. SIMPLIFIED CONNECTION DIAGRAM

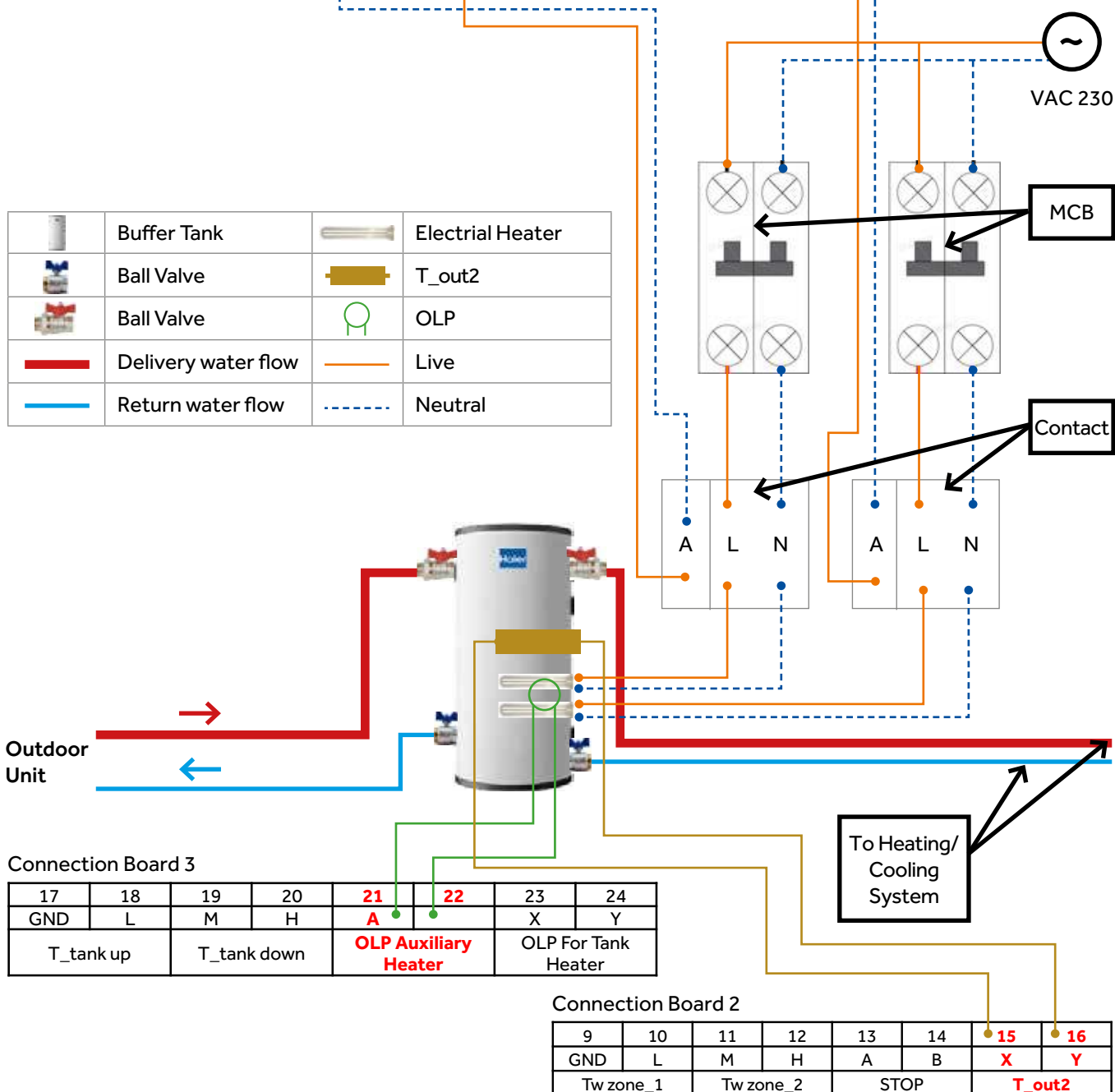
5.1.3.1. Without Buffer Tank



5.1.3. WITH BUFFER TANK

5.1.3.2. With Buffer Tank

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

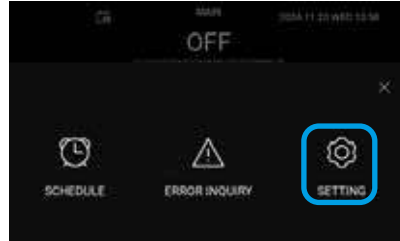


5.1.4. CONTROLLER SETTINGS

Equipment Installation main settings



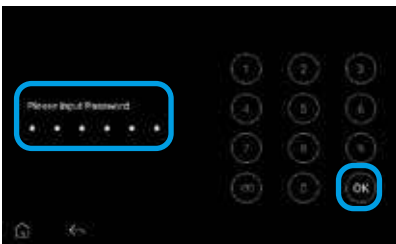
1



2



3



4 * Password "841226" OK



5



← ON
← OFF
← OFF
← OFF

* SELECT ON TO ACTIVATE ZONE 1

Press "house" to return to main menu

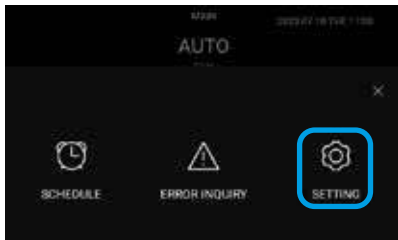
Function	Parameter Range	Settings
Zone 1	ON/OFF	ON

* THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.

System Installation main settings



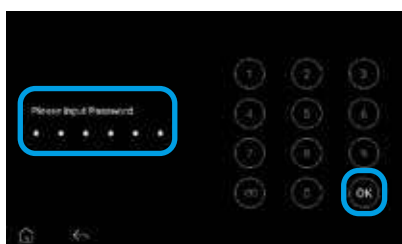
1



2



3



4 * Password "841226" OK



5



← Main Controller

* SELECT THE CONTROL MODE FOR ZONE 1

← Main Controller

← Main Controller

← Main Controller

Function	Parameter Range	Settings
Control Mode of Zone 1	Main controller Third party controller	Main controller



← Electric Heating & Boiler

* SELECT THE AUXILIARY HEAT SOURCE

← 15°C

← 10°C

Function	Parameter Range	Settings
Auxiliary Heat Source	Electric Heating & Boiler, Electirc Heating, Boiler	Electirc Heating & Boiler

* THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.

System Installation main settings



← 45°C
 ← 27°C
 ← 6°C
 ← 0°C

***SET THE AMBIENT TEMP FOR HEATING OFF**
***SET THE DT° FOR HEATING ON**

Function	Parameter Range	Settings
Ambient Temp. of Heating Off	5 - 35°C	27°C
ΔT for Heating On	0 - 15°C	6°C



← 60min
 ← -3°C
 ← -1°C
 ← -3°C

***SET HEATER DELAY TIME AFTER COMPRESSOR STARTS**

Press "house" to return to main menu

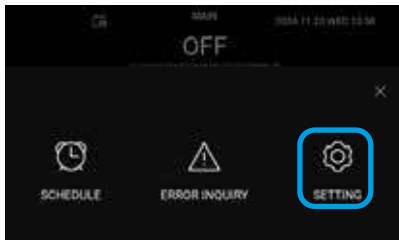
Function	Parameter Range	Settings
Heater On Delay Time	0 - 120min	60min
Heater On ΔT of Target Temp	-10 - -2°C	-3°C
Heater Off ΔT of Target Temp	-8 - 0°C	-1°C

*** THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.**

Indoor Unit Installation main settings



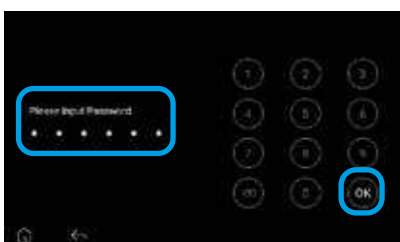
1



2



3



4 * Password "841226" OK



5



- ← Heater 1 & 2
- ← Normal
- ← OFF
- ← Auto

* SELECT HEATING BY HEATER 1, 2 OR 1 AND 2

Press "house" to return to main menu










Function	Parameter Range	Settings
Selection of IDU Electric Heater Type	None, Heater 1, Heater 2, Heater 1 & 2	Heater 1 & 2

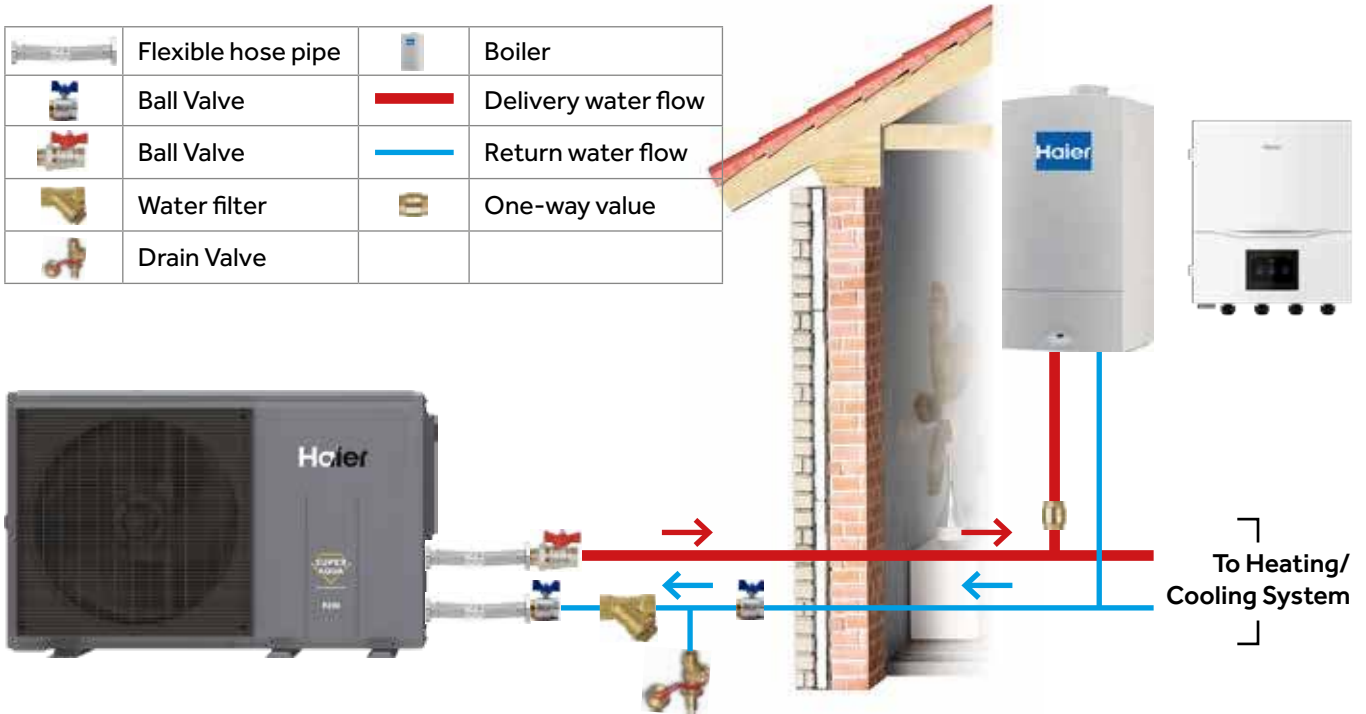
* THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.

5.2. BOILER

5.2.1. SIMPLIFIED HYDRAULIC DIAGRAM

5.2.1.1. Without Buffer Tank










	Flexible hose pipe		Boiler
	Ball Valve		Delivery water flow
	Ball Valve		Return water flow
	Water filter		One-way value
	Drain Valve		

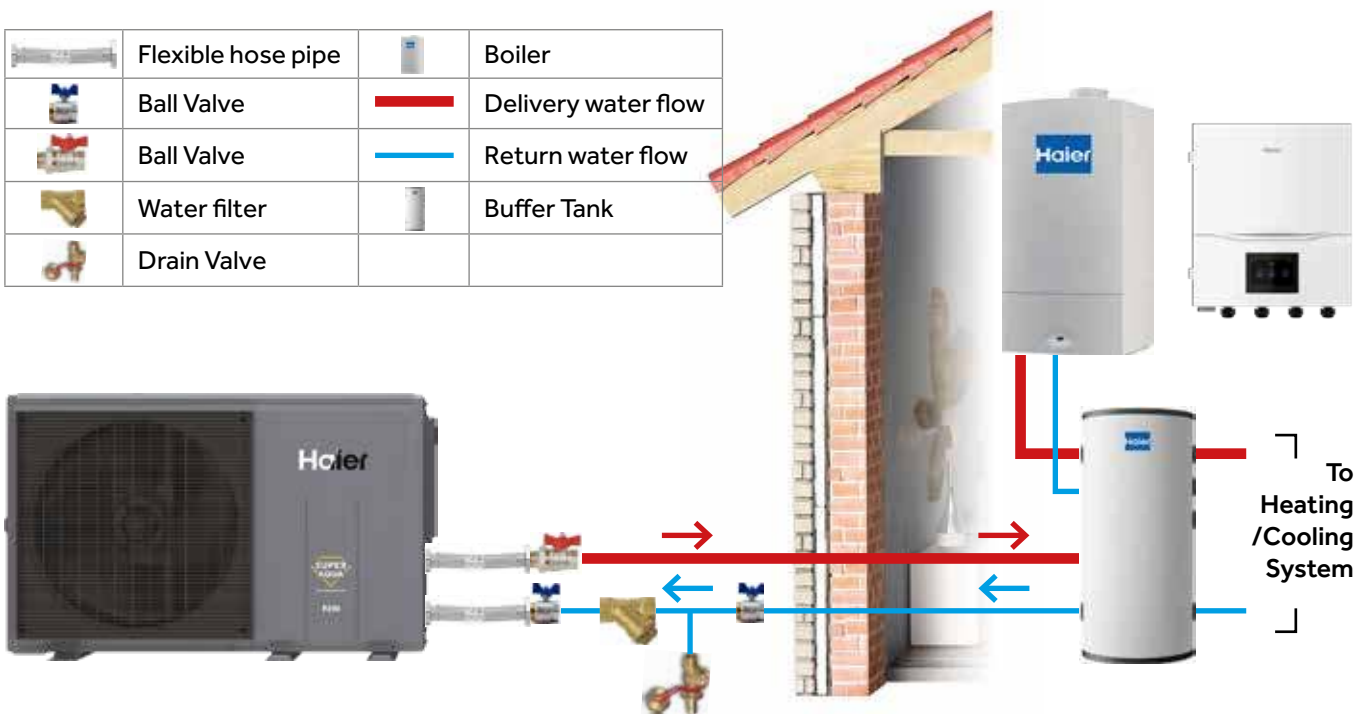


FOR ELECTRICAL CONNECTIONS REFER TO POINT 1.0.

ALL THE DIAGRAMS AND THE ACCESSORIES ARE ONLY AN EXAMPLE OF THE INSTALLATION AND HAVE TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL REGULATIONS.

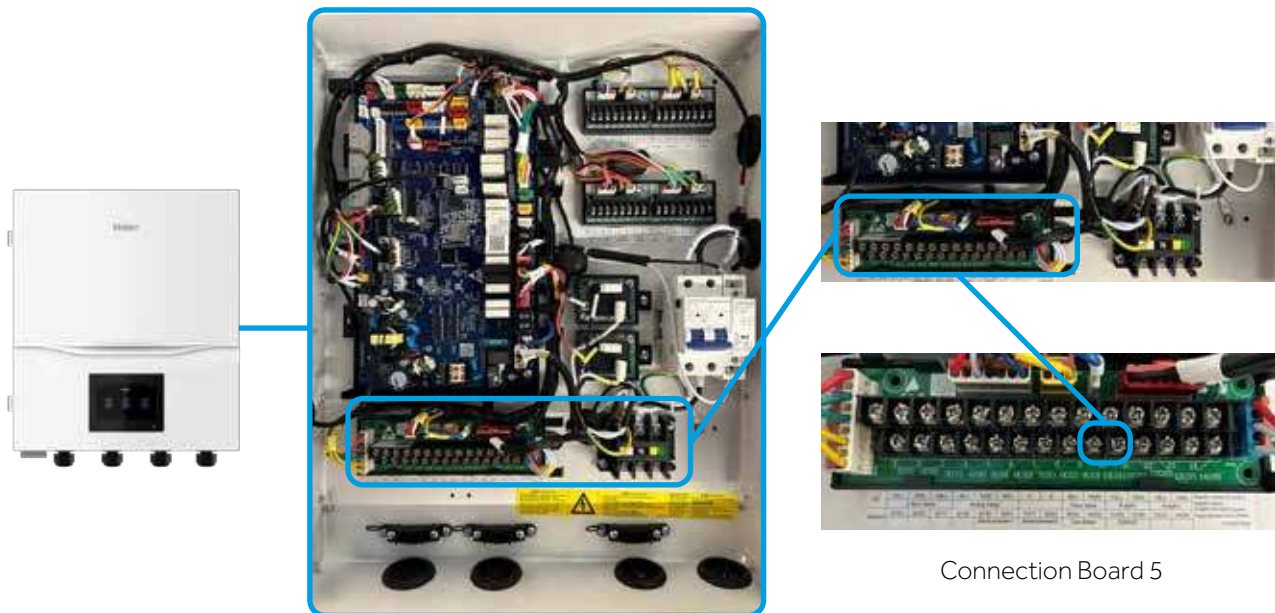
5.2.1.2. With Buffer Tank

	Flexible hose pipe		Boiler
	Ball Valve		Delivery water flow
	Ball Valve		Return water flow
	Water filter		Buffer Tank
	Drain Valve		



5.2.2. CONNECTIONS

Gas Boiler control signal output for Auxiliary Heat Source



Connection Board 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Volt-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							

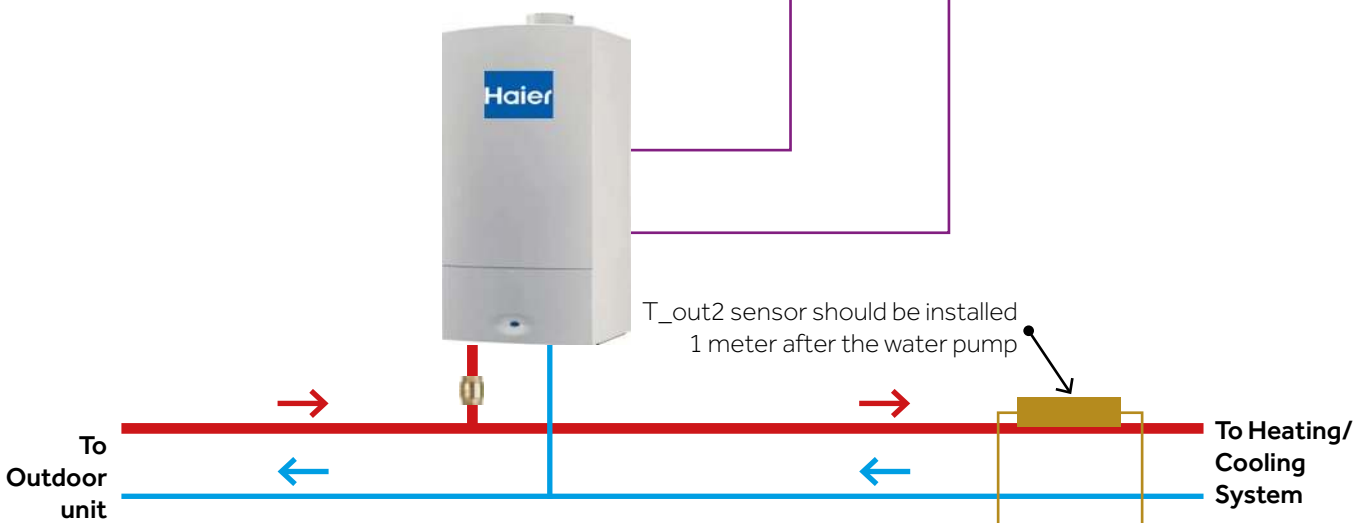


On connection board number 5 between terminals 9(23) and 10 (24) we must connect the signal to activate the boiler. This is a digital output signal, which means that when the contact is closed, the boiler is ON; when the contact is open, boiler is OFF.

5.2.3. SIMPLIFIED CONNECTION DIAGRAM

5.2.3.1. Without Buffer Tank

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			

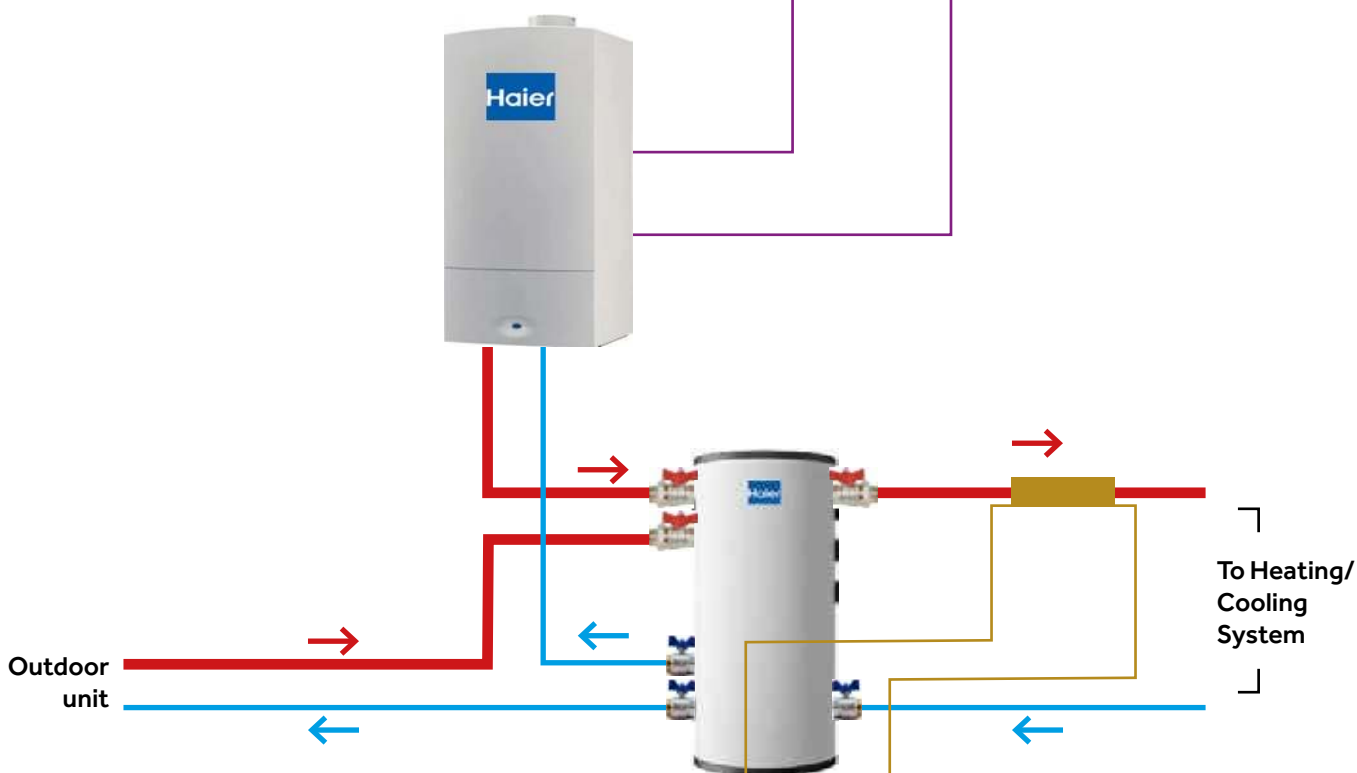


9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

	Boiler		One-way valve
	Ball Valve		T_out2
	Ball Valve		
	Delivery water flow		
	Return water flow		

5.2.3.2. With Buffer Tank

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

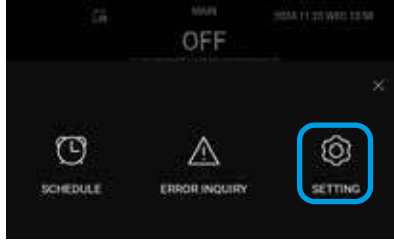
	Boiler		Buffer Tank
	Ball Valve		T_out2
	Ball Valve		
	Delivery water flow		
	Return water flow		

5.2.4. CONTROLLER SETTINGS

Equipment Installation main settings



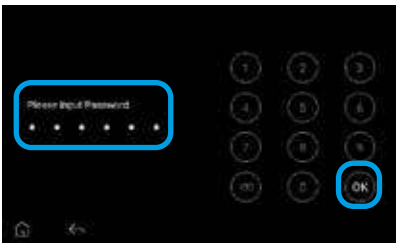
1



2



3






4 * Password "841226" OK



5



-  On
-  Off
-  Off
-  Off

***SELECT ON TO ACTIVATE ZONE 1**

Press "house" to return to main menu

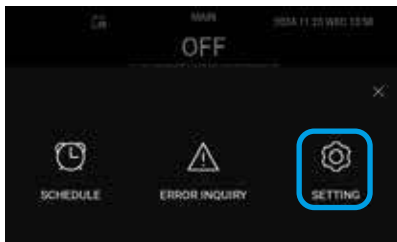
Function	Parameter Range	Settings
Zone 1	ON/OFF	ON

*** THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.**

System Installation main settings



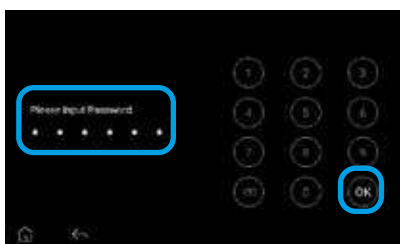
1



2



3



4 * Password "841226" OK



5



- ← **Main Controller** * SELECT THE CONTROL MODE FOR ZONE 1
- ← Main Controller
- ← Main Controller
- ← Main Controller

Function	Parameter Range	Settings
Control Mode of Zone 1	Main controller Third party controller	Main controller



- ← **Electric Heating & Boiler**
- ← 15°C
- ← 10°C

Function	Parameter Range	Settings
Auxiliary Heat Source	Electric Heating & Boiler, Electric Heating Boiler	Electric Heating & Boiler

* THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.

System Installation main settings



← 45°C

← 27°C

← 6°C

← 0°C

*** SELECT AMBIENT TEMP OF HEATING OFF**

*** SELECT DT° TEMP FOR HEATING ON**

Function	Parameter Range	Settings
Ambient Temp. of Heating Off	5 - 35°C	27°C
ΔT for Heating On	0 - 15°C	6°C



← 60min ***SET HEATER DELAY TIME AFTER COMPRESSOR STARTS**

← -3°C

← -1°C

← -3°C

Press "house" to return to main menu










Function	Parameter Range	Settings
Heater On Delay Time	0 - 120min	60min
Heater On ΔT of Target Temp	-10 - -2°C	-3°C
Heater Off ΔT of Target Temp	-8 - 0°C	-1°C

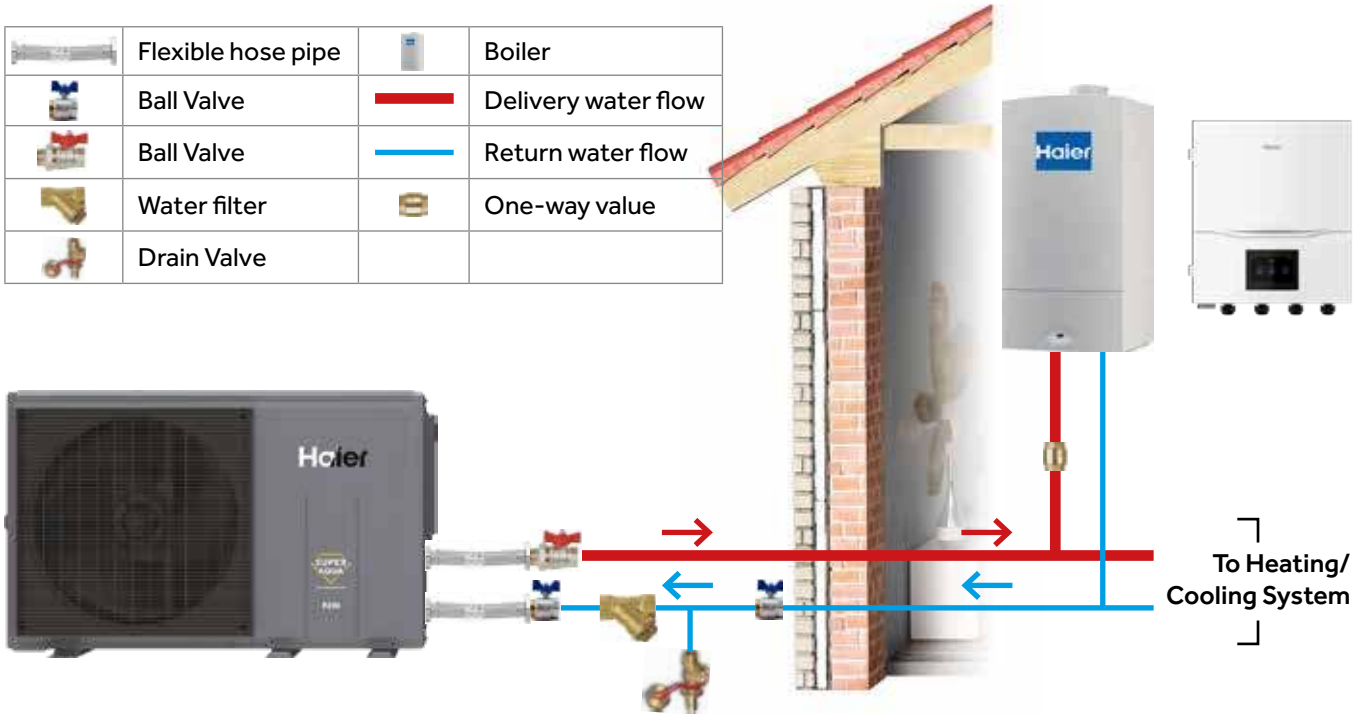
*** THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.**

5.3. BIVALENT

5.3.1. SIMPLIFIED HYDRAULIC DIAGRAM

5.3.1.1. Without Buffer Tank











	Flexible hose pipe		Boiler
	Ball Valve		Delivery water flow
	Ball Valve		Return water flow
	Water filter		One-way valve
	Drain Valve		

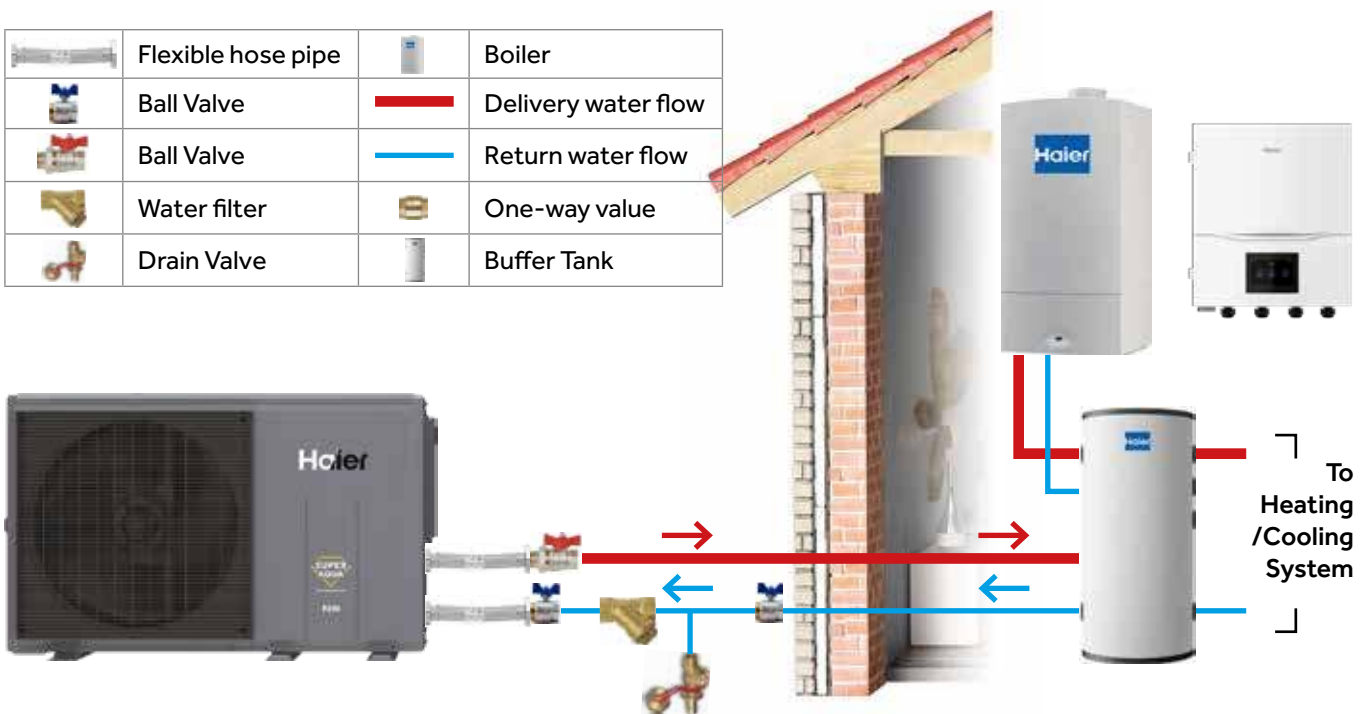


FOR ELECTRICAL CONNECTIONS REFER TO POINT 1.0.

ALL THE DIAGRAMS AND THE ACCESSORIES ARE ONLY AN EXAMPLE OF THE INSTALLATION AND HAVE TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL REGULATIONS.

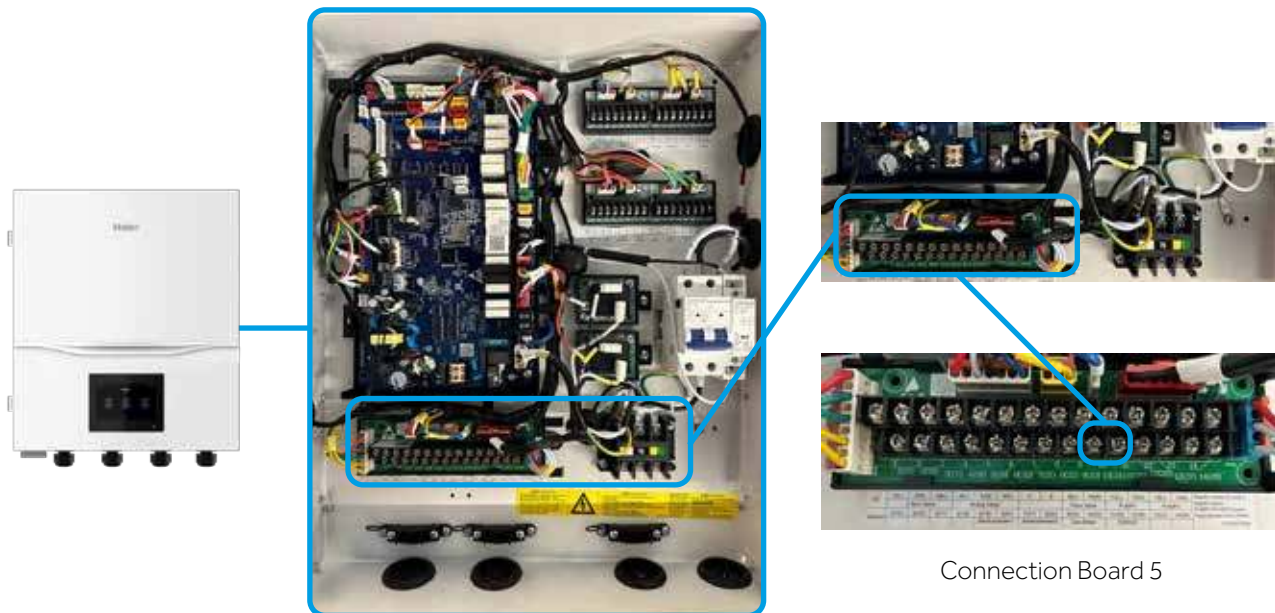
5.3.1.2. With Buffer Tank

	Flexible hose pipe		Boiler
	Ball Valve		Delivery water flow
	Ball Valve		Return water flow
	Water filter		One-way valve
	Drain Valve		Buffer Tank



5.3.2. CONNECTIONS

Gas Boiler control signal output for Auxiliary Heat Source



Connection Board 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

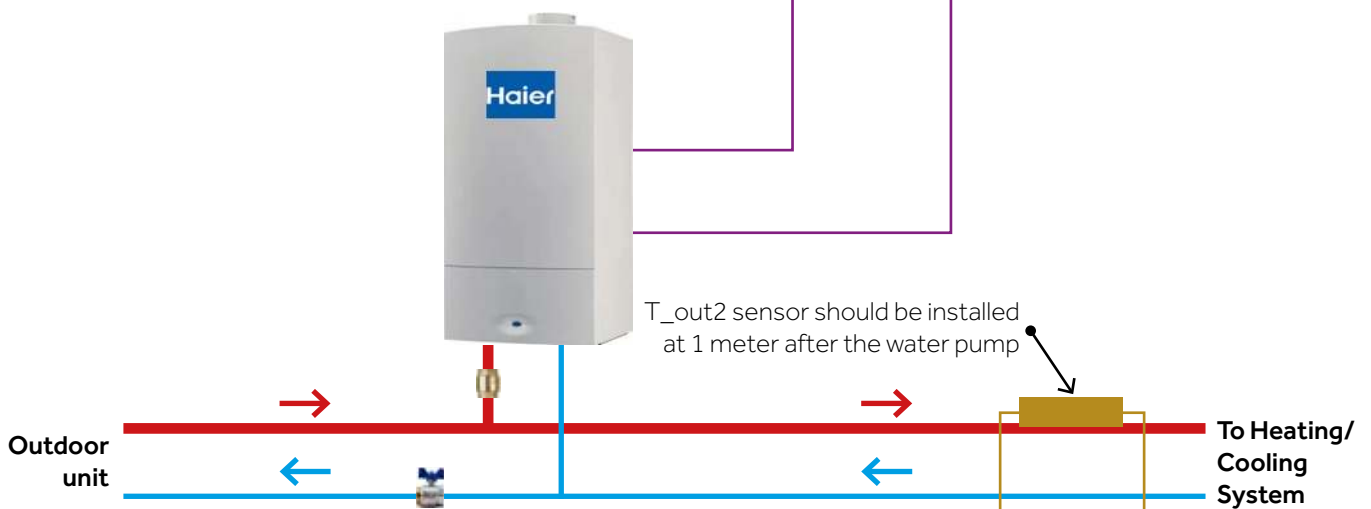


On connection board number 5 between terminals 9(23) and 10 (24) we must connect the signal to activate the boiler. This is a digital output signal, which means that when the contact is closed, the boiler is ON; when the contact is open, boiler is OFF.

5.3.3. SIMPLIFIED CONNECTION DIAGRAM

5.3.3.1. Without Buffer Tank

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			

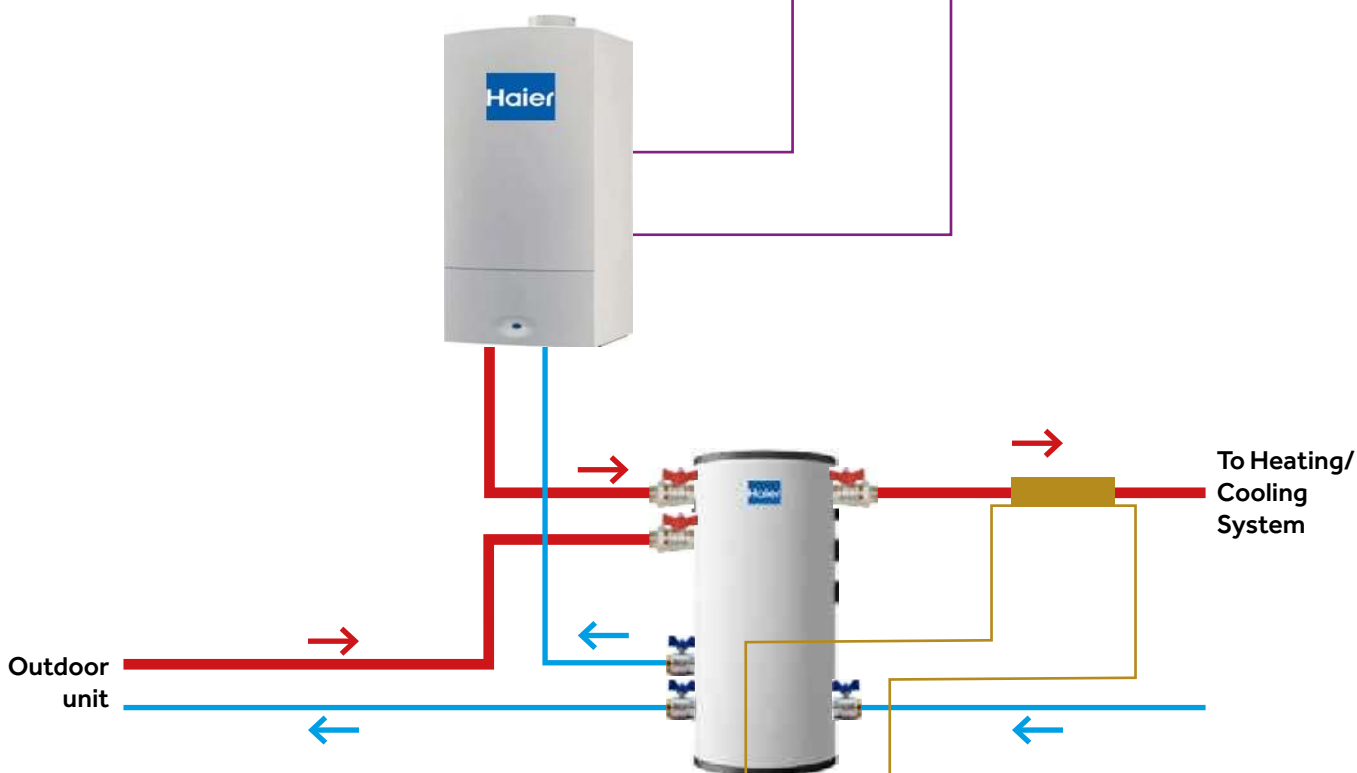


9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

	Boiler		One-way valve
	Ball Valve		T_out2
	Ball Valve		
	Delivery water flow		
	Return water flow		

5.3.3.2. With Buffer Tank

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

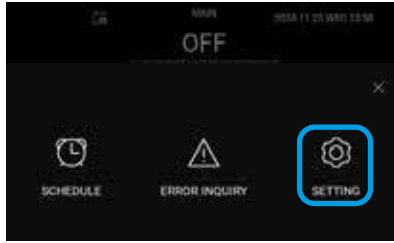
	Boiler		Buffer Tank
	Ball Valve		One-way valve
	Ball Valve		T_out2
	Delivery water flow		
	Return water flow		

5.3.4. CONTROLLER SETTINGS

Equipment Installation main settings



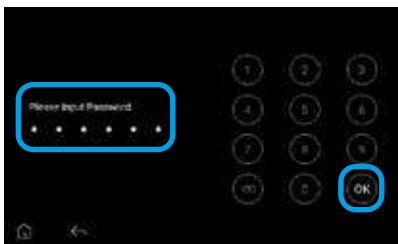
1



2



3



4 * Password "841226" OK



5



- ← On
- ← Off
- ← Off
- ← Off

*** SELECT ON TO ACTIVATE ZONE 1**

Function	Parameter Range	Settings
Zone 1	ON/OFF	ON



- ← 26°C
- ← 20°C
- ← On
- ← 0°C

*** SELECT ON TO ACTIVATE BIVALENT CONNECTION**
*** SET THE BIVALENT TEMPERATURE**

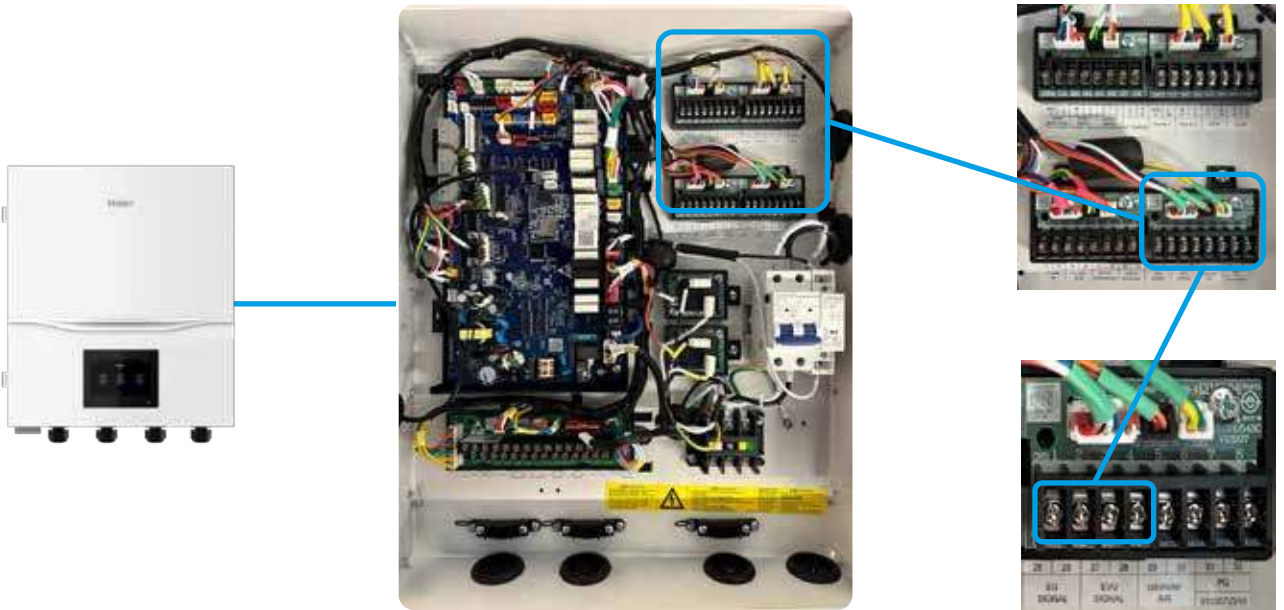
Press "house" to return to main menu

Function	Parameter Range	Settings
Bivalent Connection	ON/OFF	ON
Bivalent Temp.	-20°C - 20°C	0°C

*** THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.**

6.0. SG READY - SMART GRID SG READY

6.1. CONNECTIONS



Connection Board

25	26	27	28	29	30	31	32
GND	L	M	H	A		X	Y
SG Signal		EVU Signal		Controller A/B		PQ	
SG1		SG2					

Connection Board 4

On connection board number 4 between terminals 25 (GND) and 26 (L) we have a volt-free signal for the Smart Grid signal. Also on connection board number 4 between terminals 27 (M) and 28 (H) we have a volt-free signal for the EVU signal.

Note there is a 10 second delay when SG signal is received before it shows on screen.

Logic Control

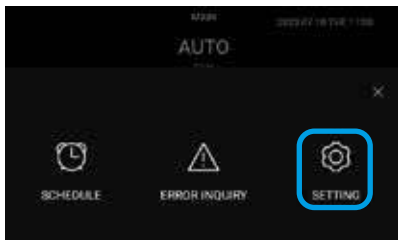
Status display on controller	Signal Input		Operation		
	SG Signal	EVU Signal	Heat	Cool	DHW
	Open	Open	Keep current operation	Keep current operation	Keep current operation
SG1	Close	Open	Heat pump not available	Cooling mode not available	Heat pump not available
SG2	Open	Close	+A°C on current setting Temp. Note A: 2 to 6°C, can be set on controller, default is 4°C	+D°C on current setting Temp. Note: D: -2 to 6°C, can be set on controller, default is 4°C	+B°C on current setting Temp. Note: B: 4 to 8°C, can be set on controller, default is 4°C
Sg3	Close	Close	Water temp. control, Water temp. change to Max. heating (except 3rd party control) Room temp. control, change setting temp. to 26°C	Water temp. control, Water temp. change to Min. cooling (except 3rd party control) Room temp. control, change setting temp. to 20°C	Change setting temp. to Max. DHW setting

6.2. CONTROLLER SETTINGS

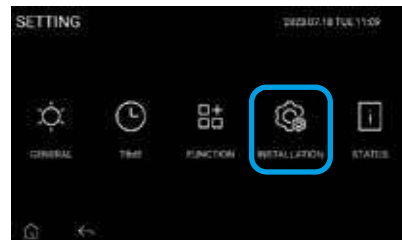
Equipment Installation main settings



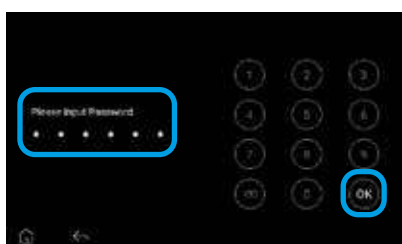
1



2



3



4 * Password "841226" OK



5



- ← ON
- ← 4°C
- ← 6°C
- ← -4°C

***SELECT ON TO ACTIVATE SMART GRID**

SET THE TEMPERATURE YOU WANT THE UNIT TO RUN WHEN IN SMART GRID MODE HERE

Function	Parameter Range	Settings
SG Ready Control	ON/OFF	ON
SG2 compensation Temp. Of Heating	2 - 6°C	4°C
SG2 compensation Temp. Of DHW	4 - 8°C	6°C
SG2 compensation Temp. Of Cooling	-2 - -6°C	-4°C



- ← 26°C
- ← 20°C
- ← On
- ← 0°C

Press "house" to return to main menu

Function	Parameter Range	Settings
SG3 heating Temp.	16 - 30°C	26°C
SG3 cooling Temp.	16 - 30°C	20°C

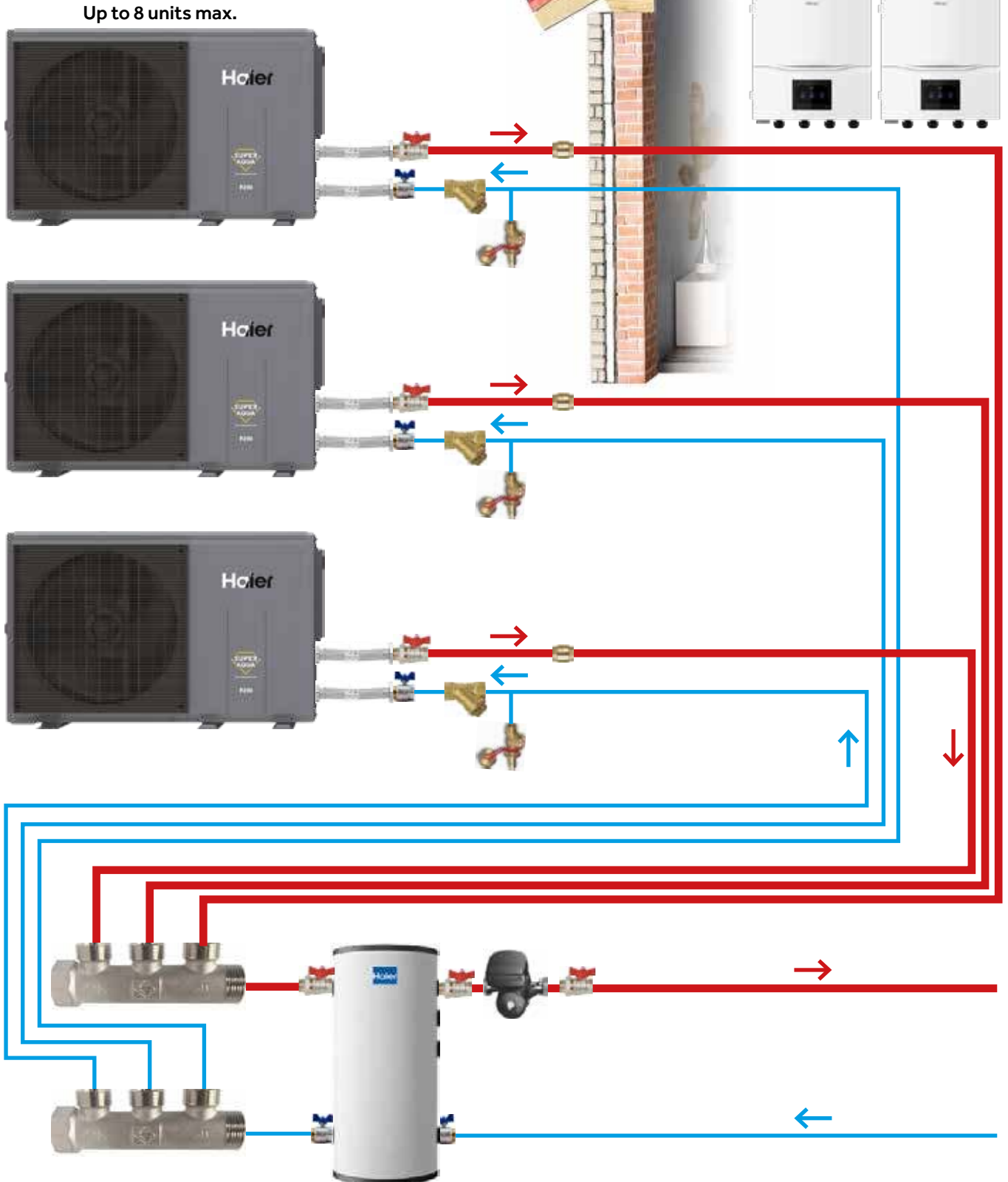
7.0. CASCADE

7.1. SIMPLIFIED HYDRAULIC DIAGRAM

7.1.1. Without DHW

note every outdoor unit
MUST have an indoor unit
ATW-A03

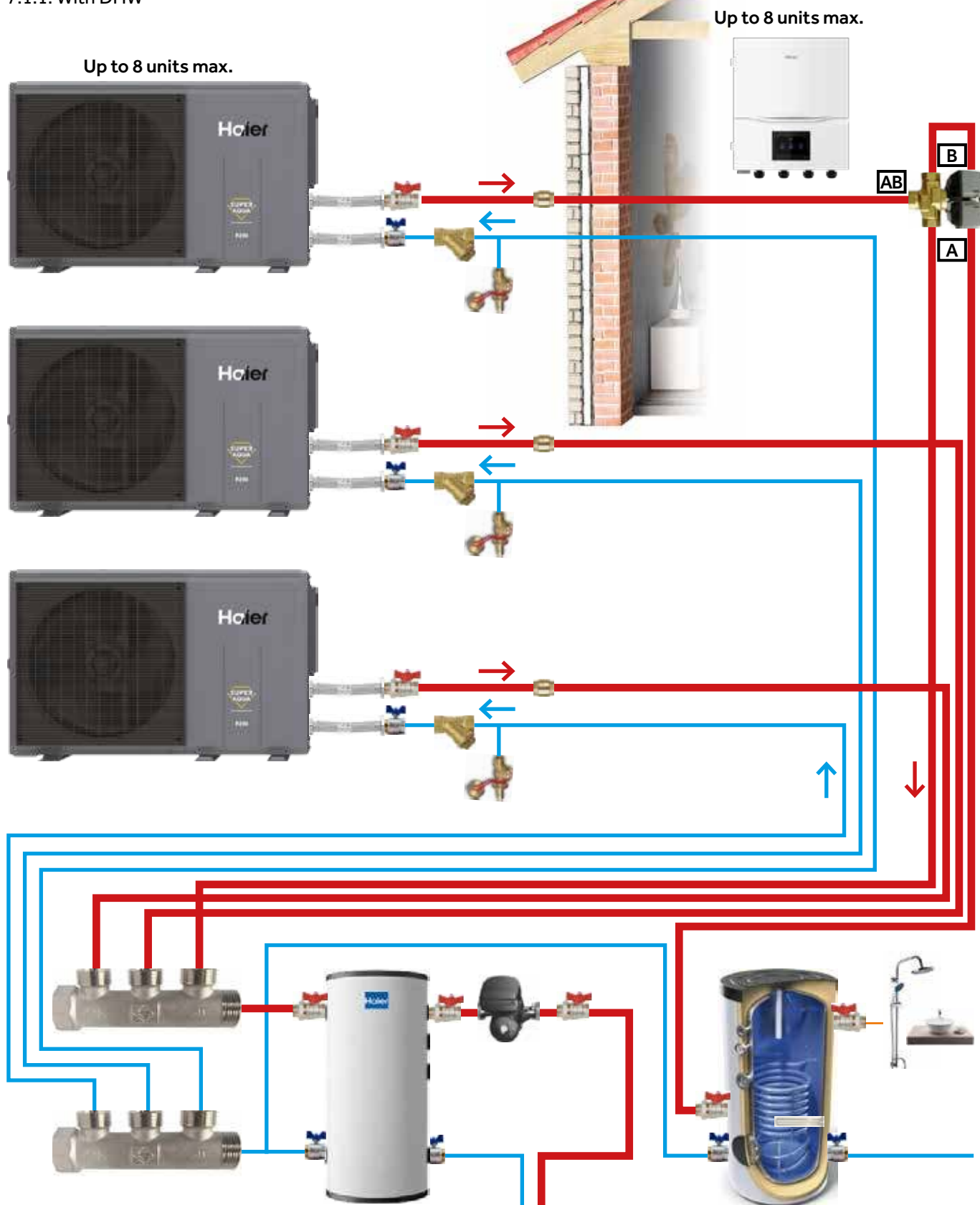
Up to 8 units max.



ALL THE DIAGRAMS AND THE ACCESSORIES ARE ONLY AN EXAMPLE OF THE INSTALLATION AND HAVE TO BE CARRIED OUT IN ACCORDANCE WITH LOCAL REGULATIONS.

7.1.1. With DHW

note every outdoor unit
MUST have an indoor unit
ATW-A03



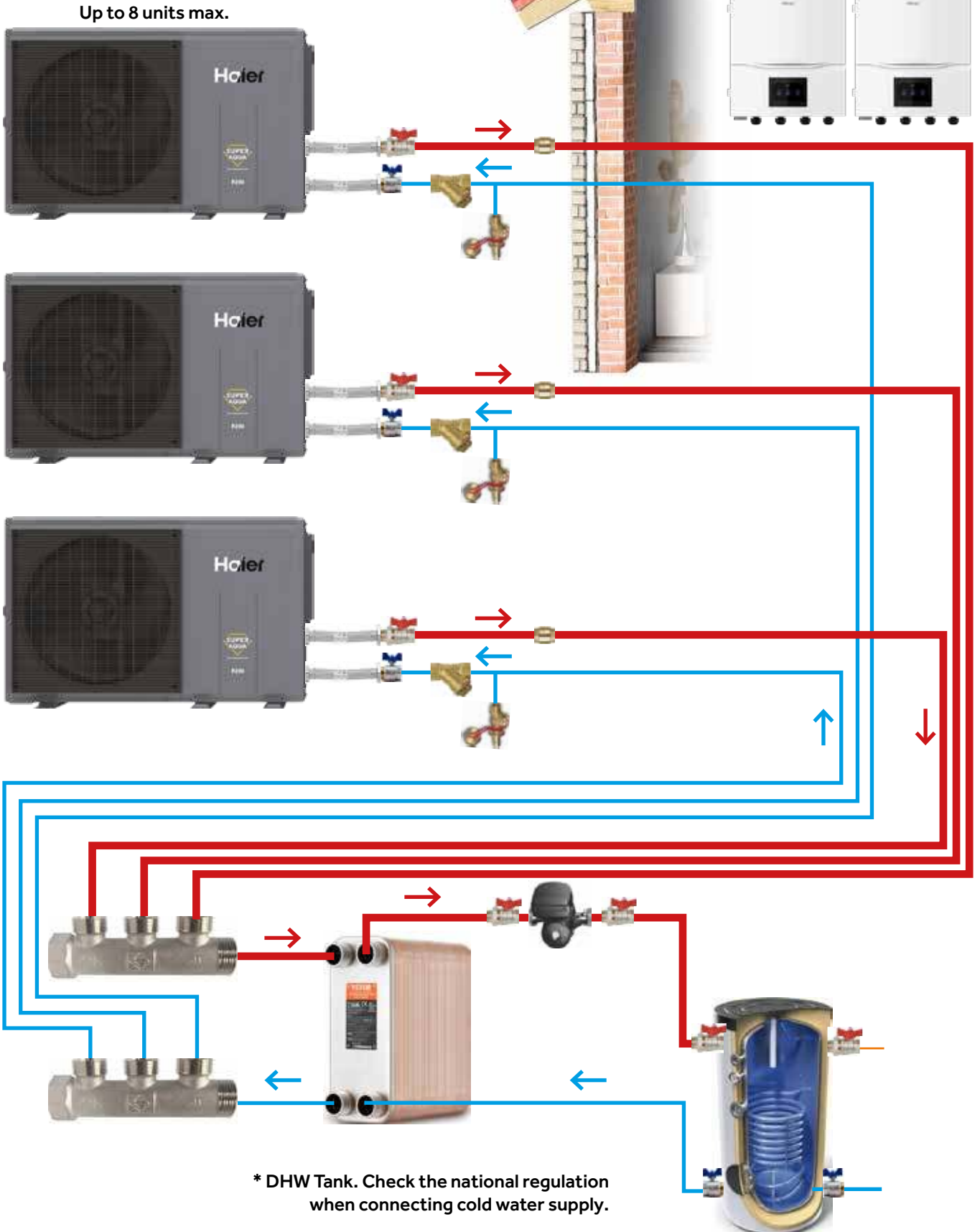
Important all pipework and pumps feeding the heating system must be sized to suit the capacity of the heating system

* DHW Tank. Check the national regulation when connecting cold water supply.

ALL THE DIAGRAMS AND THE ACCESSORIES ARE ONLY AN EXAMPLE OF THE INSTALLATION AND HAVE TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT PRACTICE.

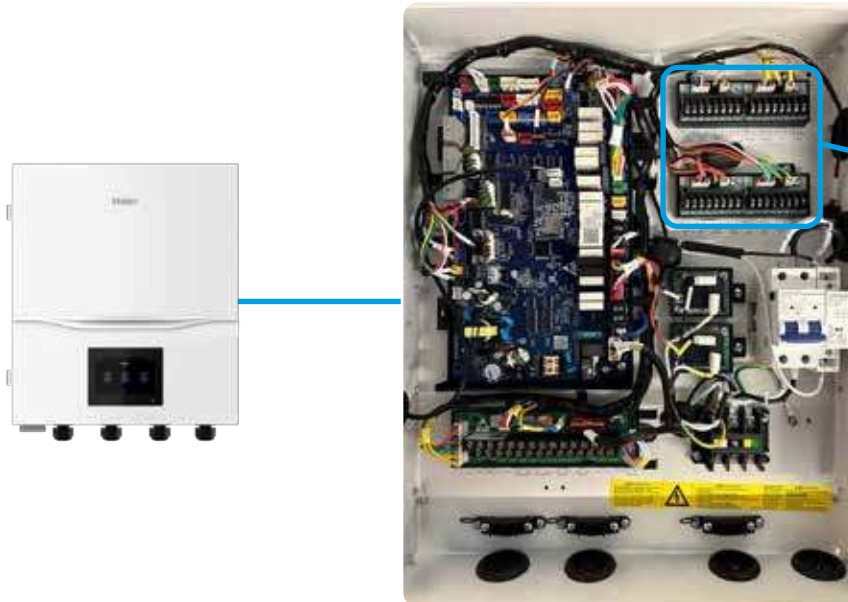
note every outdoor unit MUST have an indoor unit ATW-A03

7.1.1. Only DHW



7.2. CONNECTION

Wiring connection Main & Sub



Connection Board 4

Connection Board 4 - Main

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG Signal		EVU Signal		Controller A/B		PQ	

On connection board 4 of the Main unit, between terminals 29(A) and 30 (B) we connect the bus communication with the Sub units.

Connection Board 4 – Sub 1

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG Signal		EVU Signal		Controller A/B		PQ	

On connection board 4 of the Sub 1 unit, between terminals 29(A) and 30 (B) we connect the bus communication with the Main and Sub units.

Connection Board 4 – Sub 2

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG Signal		EVU Signal		Controller A/B		PQ	

Up to 8 units max.

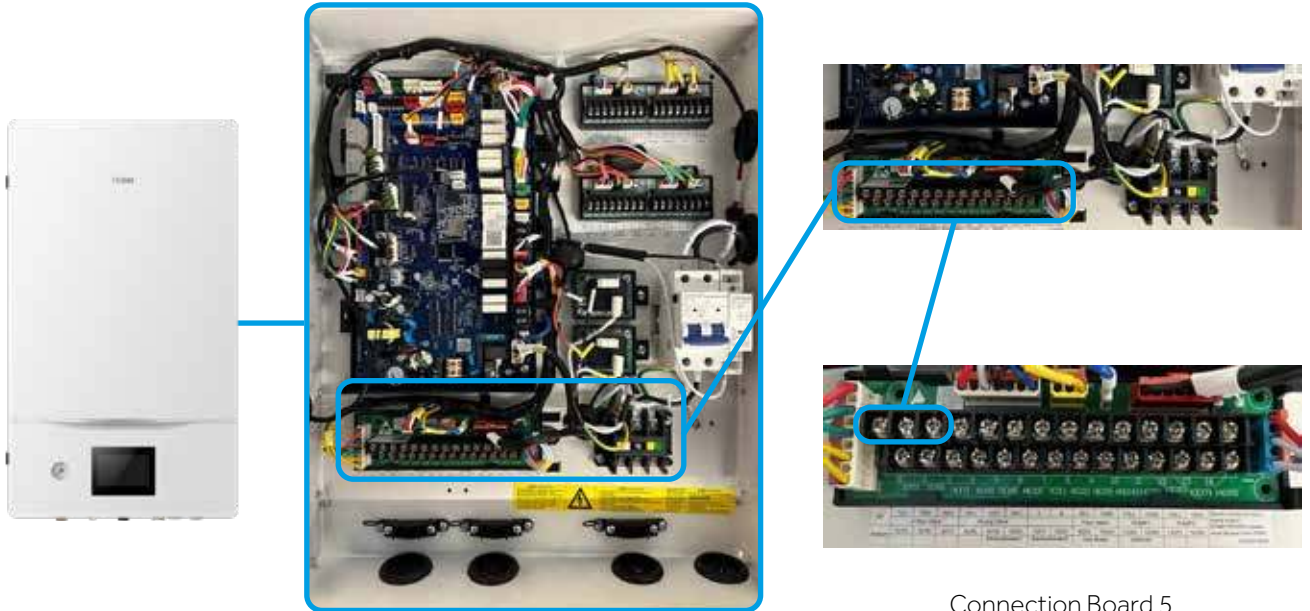
On connection board 4 of the Sub 2 unit, between terminals 29(A) and 30 (B) we connect the bus communication with the Main and Sub units.

* The interconnection bus between ATW-A03N and ATW-A03N, must be done with a shielded cable of 2x0,75mm.

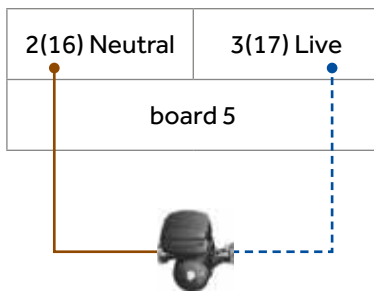
* The interconnection must be done as serial connection. Star connection is forbidden.

7.2. CONNECTION

Only DHW – Water pump for secondary circuit



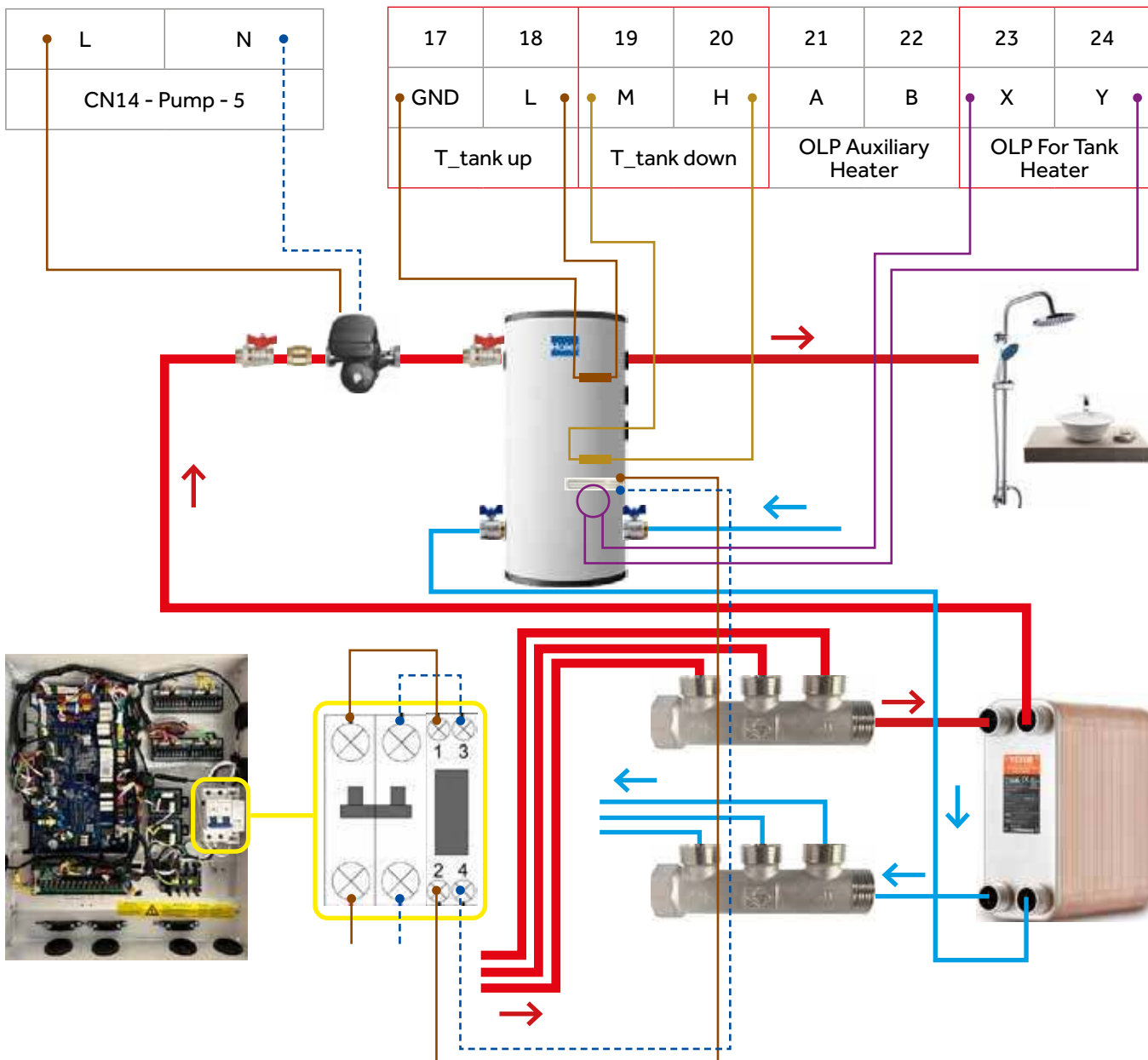
Connection Board 5



On connection board 5 , terminals 2(16) N and 3(17) L, we can connect the water pump for secondary circuit, after the heat exchanger. On this connection we have an output voltage of 230VAC, the maximum electrical power that this contact can support is 200W.

7.3. SIMPLIFIED CONNECTION DIAGRAM

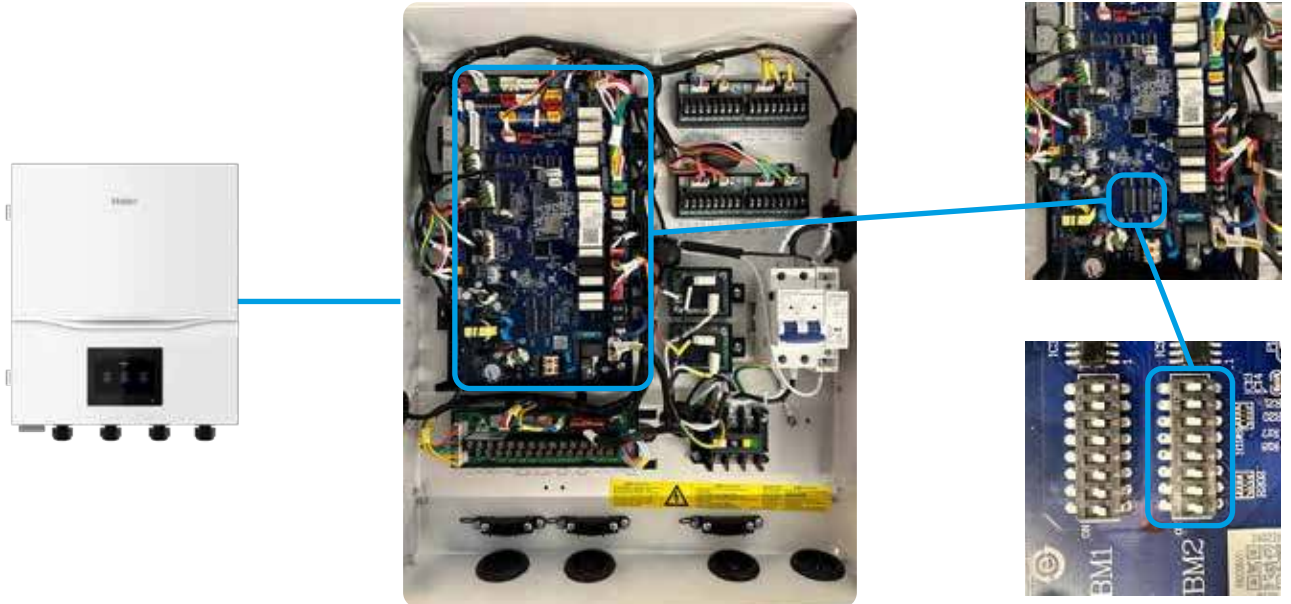
Only DHW – Water pump for secondary circuit



	Ball Valve		One-way value		Temp. sensor T_tank up
	Ball Valve		OLP		Line
	Delivery water flow		DHW Tank		Neutral
	Return water flow		Plate Heat Exchange		Electrical Heater
	Water Pump		Temp. sensor T_tank up		

7.4. CONNECTION

DIP Switch Setting



BM1_2 BM1_3 BM1_4	Cascade address	[2]	[3]	[4]	Cascade address
		0	0	0	0
		0	0	1	Sub unit 1#
		0	1	0	Sub unit 2#
		0	1	1	Sub unit 3#
		1	0	0	Sub unit 4#
		1	0	1	Sub unit 5#
		1	1	0	Sub unit 6#
		1	1	1	Sub unit 7#

*** SET WITH DIP BM1
THE MAIN UNIT AND
THE SLABE NUMBER**

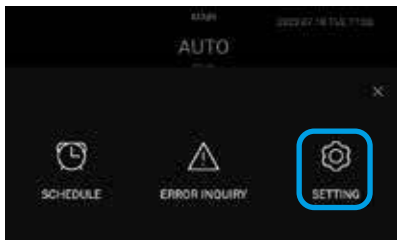
Change BM1, switch number 2 to 4 to address the unit as above.

7.5. CONTROLLER SETTINGS

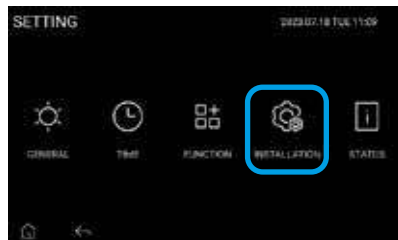
System Installation main settings



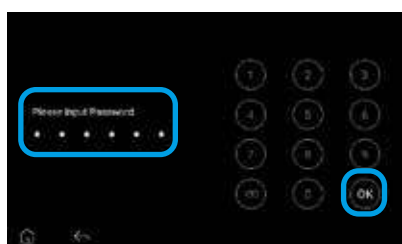
1



2



3



4 * Password "841226" OK



5



- ← None
- ← 5°C
- ← 6°C
- ← On

*** SELECT ON TO ACTIVATE DHW**

Press "house" to return to main menu

Function	Parameter Range	Settings
DHW Function	ON/OFF	ON

*** THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.**

8.0. CONTROL SETTINGS

9.0. THIRD-PARTY CONTROLLER SWITCH SIGNAL

9.1. THIRD-PARTY CONTROLLER SWITCH SIGNAL

The unit can be controlled in 2 ways, with a cool heat changeover switch or separate thermostats. It's possible to set it as a Type1 or Type 2.

Type 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Heat requirement (ON/OFF) - ZONE1		Cool requirement (ON/OFF) - ZONE1		Heat requirement (ON/OFF) - ZONE2		Cool requirement (ON/OFF) - ZONE2	

Type 1 uses a separate thermostat for cooling and heating.

Type 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Heat / Cool		Zone 1 ON/OFF		Zone 2 ON/OFF			

Type 2 uses a cool heat changeover switch.

9.1.1. TYPE 1 - MOST COMMONLY USED SYSTEM



* All the connections on connection board 1, 2, 3 and 4 are with screw terminals.



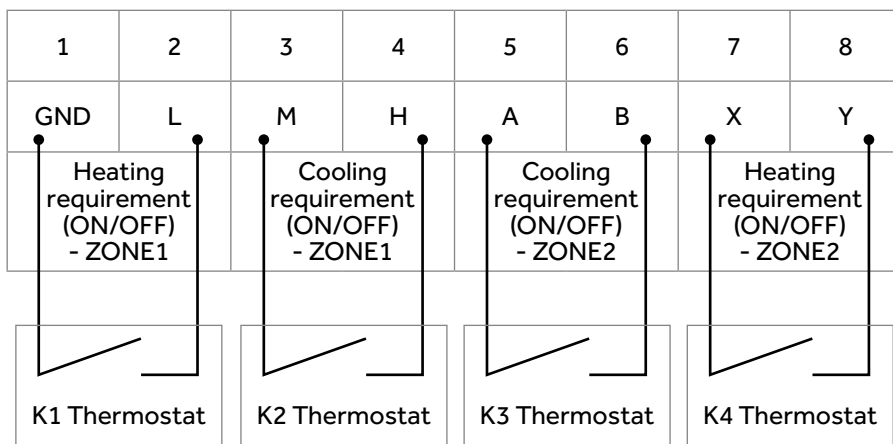
Connection Board 1

9.1.1. THIRD-PARTY CONTROLLER SWITCH SIGNAL – TYPE 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Heat requirement (ON/OFF) - ZONE1		Cool requirement (ON/OFF) - ZONE1		Heat requirement (ON/OFF) - ZONE2		Cool requirement (ON/OFF) - ZONE2	

- 1) The contacts are all volt-free.
- 2) This set up is used when there are separate cooling and heating thermostats.
- 3) If you make a contact from 1-2 the unit will start in heating mode, if you make a contact from 3-4 the unit will start in cooling mode.
- 4) If you make a contact from 5-6 the unit will start in heating mode zone 2, If you make a contact from 7-8 the unit will start in cooling mode zone 2.
- 5) You must not send a cooling and heating run signal at the same time.

Simplified Connection Diagram



- 1) The contacts are all volt-free.
- 2) This set up is used when there are separate cooling and heating thermostats.
- 3) If you make a zone 1 contact from 1-2 the unit will start in heating mode zone 1, if you make a contact from 3-4 the unit will start in cooling mode.
- 4) If you make a contact from 5-6 the unit will start in cooling mode zone 2, If you make a contact from 7-8 the unit will start in heating mode zone 2.
- 5) You must not send a cooling and heating run signal at the same time.

9.1.2. THIRD-PARTY CONTROLLER SWITCH SIGNAL – TYPE 2

LESS COMMONLY USED



* All the connections on connection board 1, 2, 3 and 4 are with screw terminals.



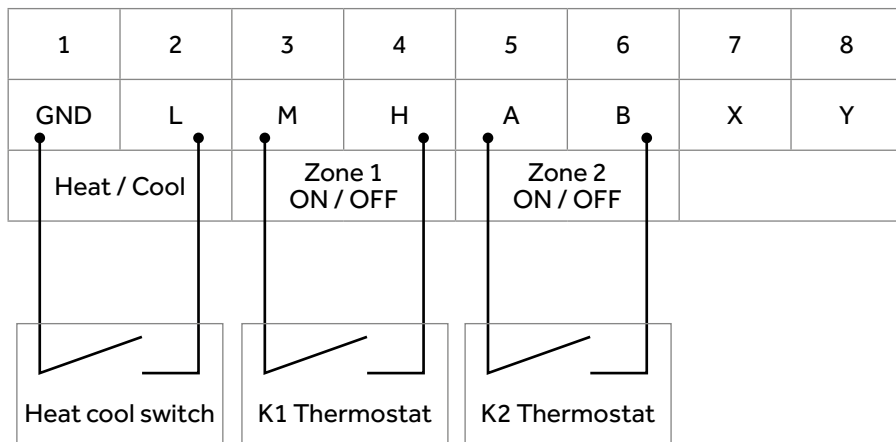
Connection Board 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Heat / Cool		Zone 1 ON/OFF		Zone 2 ON/OFF			

- 1) The contacts are all Volt free.
- 2) This set up is used when you are using a combined cooling and heating thermostat.
- 3) If you make a contact from 1-2 the unit is in cooling mode. If you break the contact from 1-2 the unit is in heating mode.
- 4) If you make a contact from 3-4 the unit will start in cooling or heating mode.
- 5) If you make a contact from 5-6 the unit will start in cooling or heating mode. Zone 2
- 6) If there's no run signal from request both Zone1 & Zone2, the unit will stop heating and cooling. DHW mode will continue.

Type 2

Simplified Connection Diagram



Heat cool switch: Switch-On for Cooling Mode, Switch-Off for Heating Mode

K1: Switch-On to start heating / cooling Zone 1. switch off the stop.

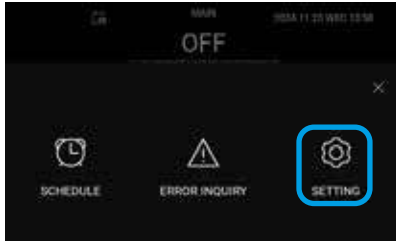
K3: Switch-On to start heating / cooling Zone 2. switch off the stop.

9.1.3. CONTROLLER SETTINGS

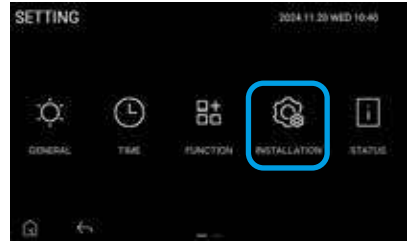
System Installation main settings



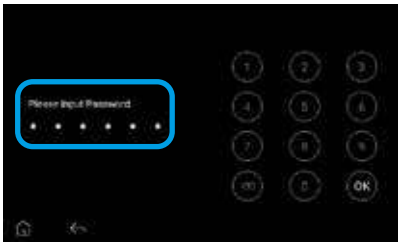
1



2



3



4 * Password "841226"



5



- ← Third party controller * SELECT THE CONTROL MODE FOR ZONE 1
- ← Third party controller * SELECT THE CONTROL MODE FOR ZONE 2
- ← Main Controller
- ← Main Controller

Function	Parameter Range	Settings
Control Mode of Zone 1	Main controller Third party controller	Third party controller
Control Mode of Zone 2	Main controller Third party controller	Third party controller

SCROLL DOWN 2 PAGES TO GET TO THIS MENU



- ← 60s
- ← Type 1 * SELECT THE TYPE OF THIRD PARTY CONTROLLER

* ATTENTION! CHOOSE ACCORDING TO YOUR INSTALLATION: TYPE 1 OR TYPE 2

Function	Parameter Range	Settings
Third party Controller Type	Type 1 / Type 2	Type 1

* THE PARAMETERS THAT NEED TO BE MODIFIED ARE MARKED IN BLUE.

10.0. ANNEXES

10.0. ANNEXES

Preview ATW-A03N



Connection Board 1



Connection Board 2



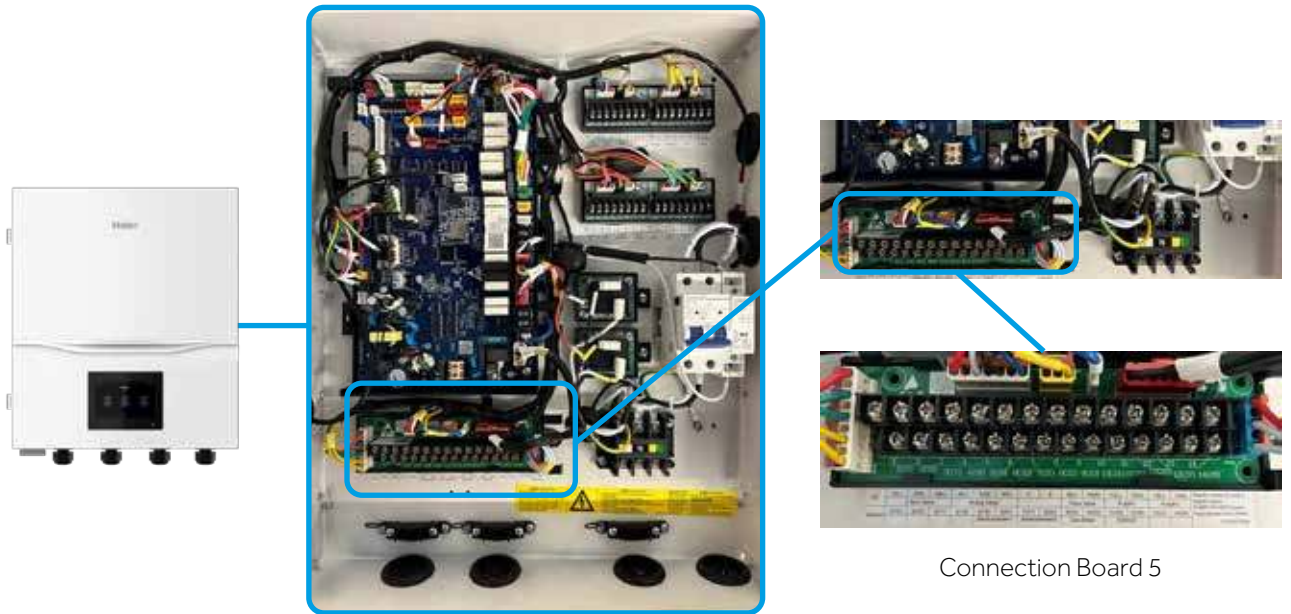
Connection Board 3



* All the connections on connection board 1, 2, 3 and 4 are with screw terminals.



Connection Board 4

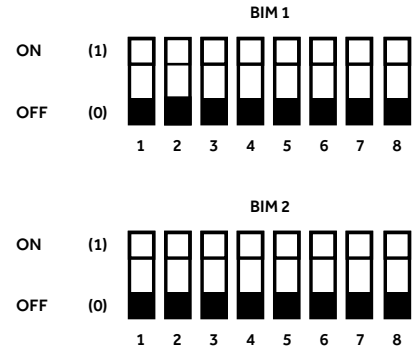
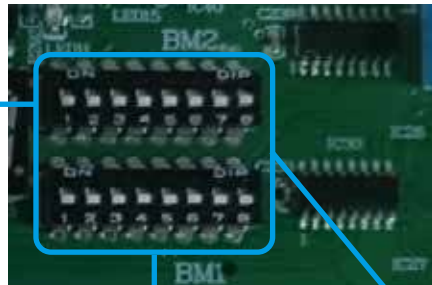


Connection Board 5

*** ALL THE CONNECTIONS ON CONNECTION BOARD 5 ARE WITH SCREW TERMINALS.**

10.0. ANNEXES

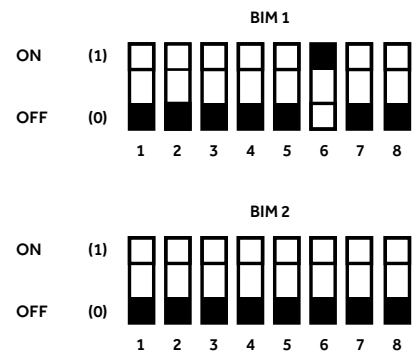
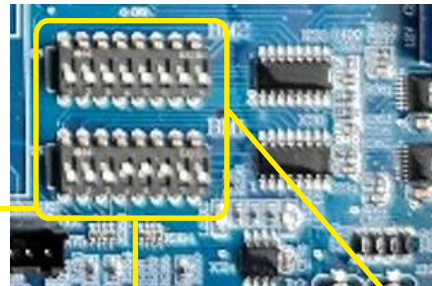
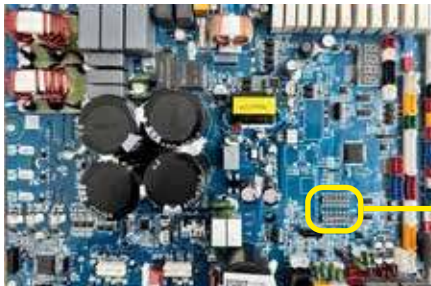
DIP Switch Setting - Single phase installation - 1ph-ODU



BM1_1	Capacity control	[1]	Capacity control method
		0	Normal control(default)
BM1_2 BM1_3 BM1_4 BM1_5	Outdoor unit model	[2]	0~10V control(ATW-A02)
		[2] [3] [4] [5]	Outdoor unit model
		0 0 0 0	AW042MUGHA
		0 0 0 1	AW062MUGHA
		0 0 1 0	AW082MUGHA
		0 0 1 1	AW102(N)MUGHA
BM1_6	Power supply type	[6]	Power supply type
		0	Single phase
		1	Three phase
		[7] [8]	Outdoor unit running mode
BM1_7 BM1_8	Running mode	0 0	Normal mode(default)
		0 1	Turbo mode
		1 0	Quiet mode
1 1	Test mode		

BM2_1 BM2_2 BM2_3	type	[1] [2] [3]	Outdoor type selection
		0 0 0	Monobloc(default)
		0 0 1	Hydro split
BM2_4	Refrigerant type	Out 0	1 0 Hydro all in one
		door0	1 1 Split
		type1	0 0 Split all in one
			1 0 1 Reserved
			1 1 0 Reserved
BM2_5 BM2_6 BM2_7 BM2_8	Reserved	[4]	Refrigerant type selection
		0	R290(default)
		1	R32
		[5] [6] [7] [8]	Reserved
		0 0 0 0	Reserved(default)

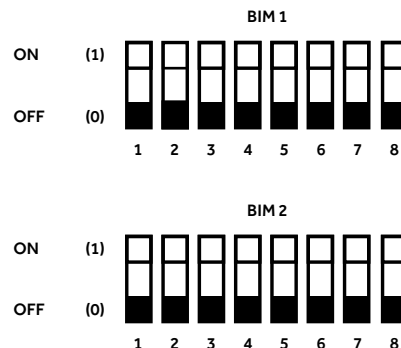
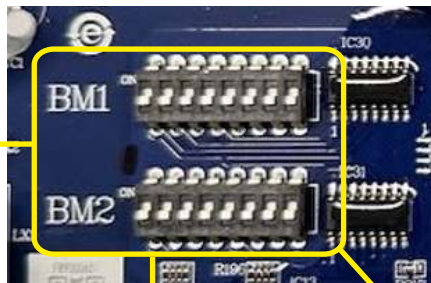
DIP Switch Setting - Three-phase installation - 3ph-ODU



BM1_1	Capacity control	[1]	Capacity control method
		0	Normal control(default)
BM1_2 BM1_3 BM1_4 BM1_5	Outdoor unit model	[2]	0~10V control(ATW-A02)
		[2] [3] [4] [5]	Outdoor unit model
		0 0 0 0	AW042MUGHA
		0 0 0 1	AW062MUGHA
		0 0 1 0	AW082MUGHA
		0 0 1 1	AW102(N)MUGHA
BM1_6	Power supply type	[6]	Power supply type
		0	Single phase
		1	Three phase
		[7] [8]	Outdoor unit running mode
BM1_7 BM1_8	Running mode	0 0	Normal mode(default)
		0 1	Turbo mode
		1 0	Quiet mode
1 1	Test mode		

BM2_1 BM2_2 BM2_3	type	[1] [2] [3]	Outdoor type selection
		0 0 0	Monobloc(default)
		0 0 1	Hydro split
BM2_4	Refrigerant type	Out 0	1 0 Hydro all in one
		door0	1 1 Split
		type1	0 0 Split all in one
			1 0 1 Reserved
			1 1 0 Reserved
BM2_5 BM2_6 BM2_7 BM2_8	Reserved	[4]	Refrigerant type selection
		0	R290(default)
		1	R32
		[5] [6] [7] [8]	Reserved
		0 0 0 0	Reserved(default)

DIP Switch Setting - ATW-A03 N



BM1_1	Indoor Type	[1]	Indoor Type			
		0	ATW-A03(Default)			
BM1_2 BM1_3 BM1_4	Cascade address	[2]	[3]	[4]	Cascade address	
		0	0	0	Main unit(Default)	
		0	0	1	Sub unit 1#	
		0	1	0	Sub unit 2#	
		0	1	1	Sub unit 3#	
		1	0	0	Sub unit 4#	
		1	0	1	Sub unit 5#	
		1	1	0	Sub unit 6#	
BM1_5 BM1_6 BM1_7 BM1_8	Capacity	[5]	[6]	[7]	[8]	ODU capacity selection
		0	0	0	0	AW042MUGHA
		0	0	0	1	AW062MUGHA
		0	0	1	0	AW082MUGHA
		0	0	1	1	AW102(N)MUGHA
		1	0	0	0	AW122(N)MXGHA
1	0	0	1	AW142(N)MXGHA		
1	0	1	0	AW162(N)MXGHA		

BM2_1	communication Address setting mode	[1]	Outdoor communication address setting mode					
		0	Automatic setting (default)					
BM2_2	Water tank sensor selection	[2]	Water tank sensor selection					
		0	2 sensors, T_tank up and T_tank down (default)					
BM2_3 BM2_4 BM2_5 BM2_6 BM2_7 BM2_8	Address	[3]	[4]	[5]	[6]	[7]	[8]	Address
		0	0	0	0	0	0	0
BM2_3 BM2_4 BM2_5 BM2_6 BM2_7 BM2_8	communication Address	0	0	0	0	0	1	1#
		0	0	0	0	1	0	2#
	

11.0. APPENDIX

11.0. APPENDIX

Recommended flow rates for each system

Unit kW	delta T	flow rate l/ min	flow rate m ³ / hr	delta T	flow rate l/ min	flow rate m ³ / hr
4	5	11.5	0.7	7	8.2	0.5
6	6	14.4	0.9	7	12.3	0.7
8	5	23.0	1.4	7	16.4	1.0
10	5	28.7	1.7	7	20.5	1.2
12	5	34.4	2.1	7	24.6	1.5
14	5	40.2	2.4	7	28.7	1.7
16	5	45.9	2.8	7	32.8	2.0

Capacity of pipework

The maximum recommended capacity for each pipe is as follows to avoid noise

At 5C delta T:

diameter mm	velocity m/s	delta t	flow rate m ³ / hr	flow rate l/min	kWs
6	1.2	5	0.1	1.3	0.5
8	1.2	5	0.2	2.6	0.9
10	1.2	5	0.3	4.4	1.5
12	1.2	5	0.4	6.6	2.3
15	1.2	5	0.6	10.5	3.6
22	1.2	5	1.4	23.1	8.0
28	1.2	5	2.3	38.8	13.5
35	1.2	5	3.6	60.1	20.9

At 7C delta T

diameter mm	velocity m/s	delta t	flow rate m ³ / hr	flow rate l/min	kWs
6	1.2	7	0.1	1.3	0.6
8	1.2	7	0.2	2.6	1.3
10	1.2	7	0.3	4.4	2.1
12	1.2	7	0.4	6.6	3.2
15	1.2	7	0.6	10.5	5.1
22	1.2	7	1.4	23.1	11.2
28	1.2	7	2.3	38.8	18.9
35	1.2	7	3.6	60.1	29.3

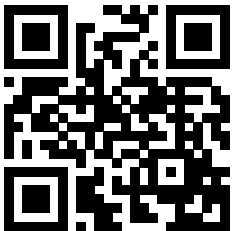
Minimum system volume Litres

Haier Heat pump	Model number	Minimum system volume Litres
4kW	AW042MUGHA	28.7
6kW	AW062MUGHA	43.1
8kW	AW082MUGHA	57.4
10kW	AW102MUGHA	71.8
12kW	AW122MX	86.1
14kW	AW142MX	100.5
16kW	AW162MX	114.8

Fuse sizes

Haier Heat pump Single Phase	Model Number	Fuse
4kW	AW042M/HUGHA	16 Amps
6kW	AW062M/HUGHA	16 Amps
8kW	AW082M/HUGHA	20 Amps
10kW	AW102M/HUGHA	20 Amps
12kW	AW122MXGHA	32 Amps
14kW	AW142MXGHA	32 Amps
16kW	AW162MXGHA	32 Amps
Haier Heat pump Three Phase		
10kW	AW10NMUGHA - AW102HUGHA	16 Amps
12kW	AW12NMUGHA - AW122H-VGHA	16 Amps
14kW	AW14NMUGHA - AW142H-VGHA	16 Amps
16kW	AW16NMUGHA - AW162H-VGHA	16 Amps
ATW-A03 N Indoor unit single phase		
All units	ATW-A03 N	13 Amps

Haier
HVAC Solutions



Haier HVAC
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Haier

More Creation, More Possibilities

Haier

HVAC Solutions

A2W

Installationshandbuch

2025/26



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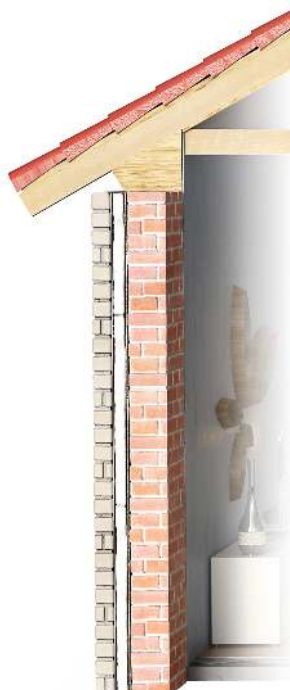
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1.0. ANSCHLUSS AUSSENGERÄT & ATW-A03 N

Installation im Freien



Installation in Innenräumen

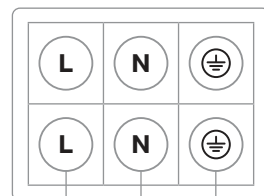
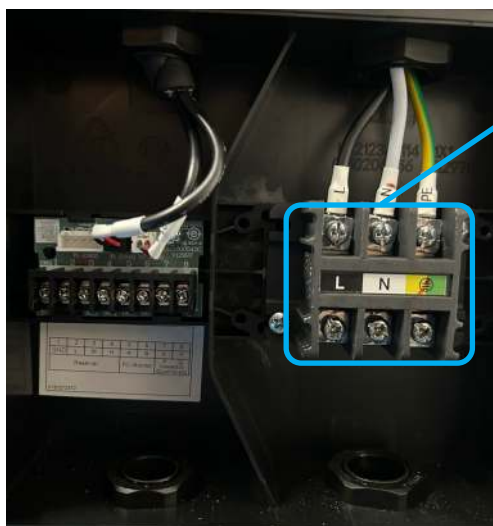


ATW-A03 N



1.1. ELEKTRISCHE VERKABELUNG/ANSCHLÜSSE

1.1.1. Einphasige Installation - 1ph-ODU



L = Live
N = Neutral
⊕ = Ground

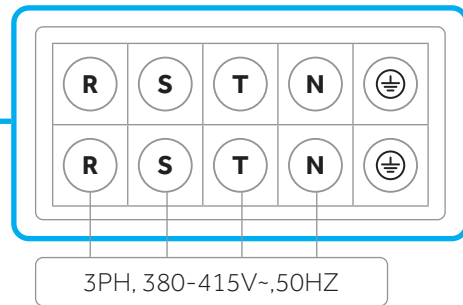
1PH, 220-240V~, 50HZ

ODU-MONOBLOCK:

AW042MUGHA AW062MUGHA
AW082MUGHA AW102MUGHA
AW122MXGHA AW142MXGHA
AW162MXGHA

1.1. ELEKTRISCHE VERKABELUNG/ANSCHLÜSSE

1.1.2 Dreiphasige Installation - 3ph-ODU



R = Leitung 1
 S = Leitung 2
 T = Leitung 3
 N=Neutral
 ⊕=Ground

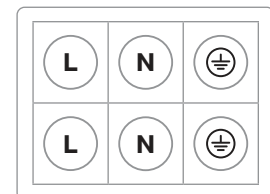
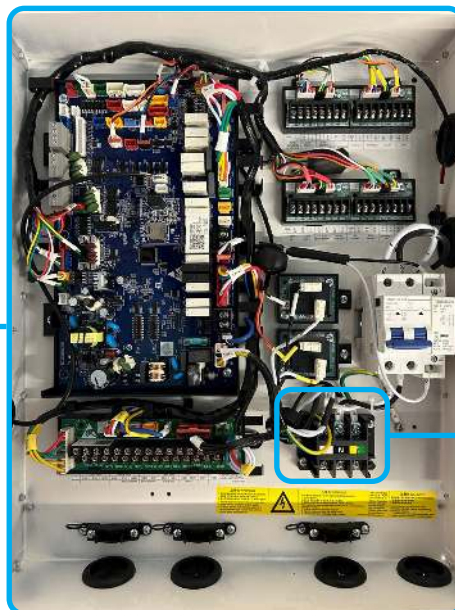
ODU-MONOBLOCK:

AW10NMUGHA AW12NMUGHA
 AW14NMUGHA AW16NMUGHA

1.1.3. Elektrischer Anschluss für ATW-A03 N - immer 240V, einphasig



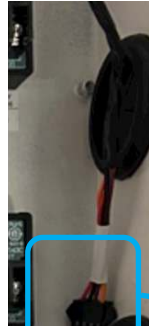
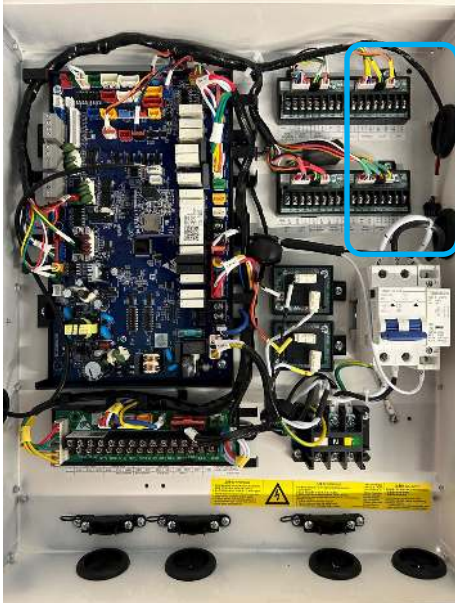
Innen



L = Live
 N=Neutral
 ⊕=Ground

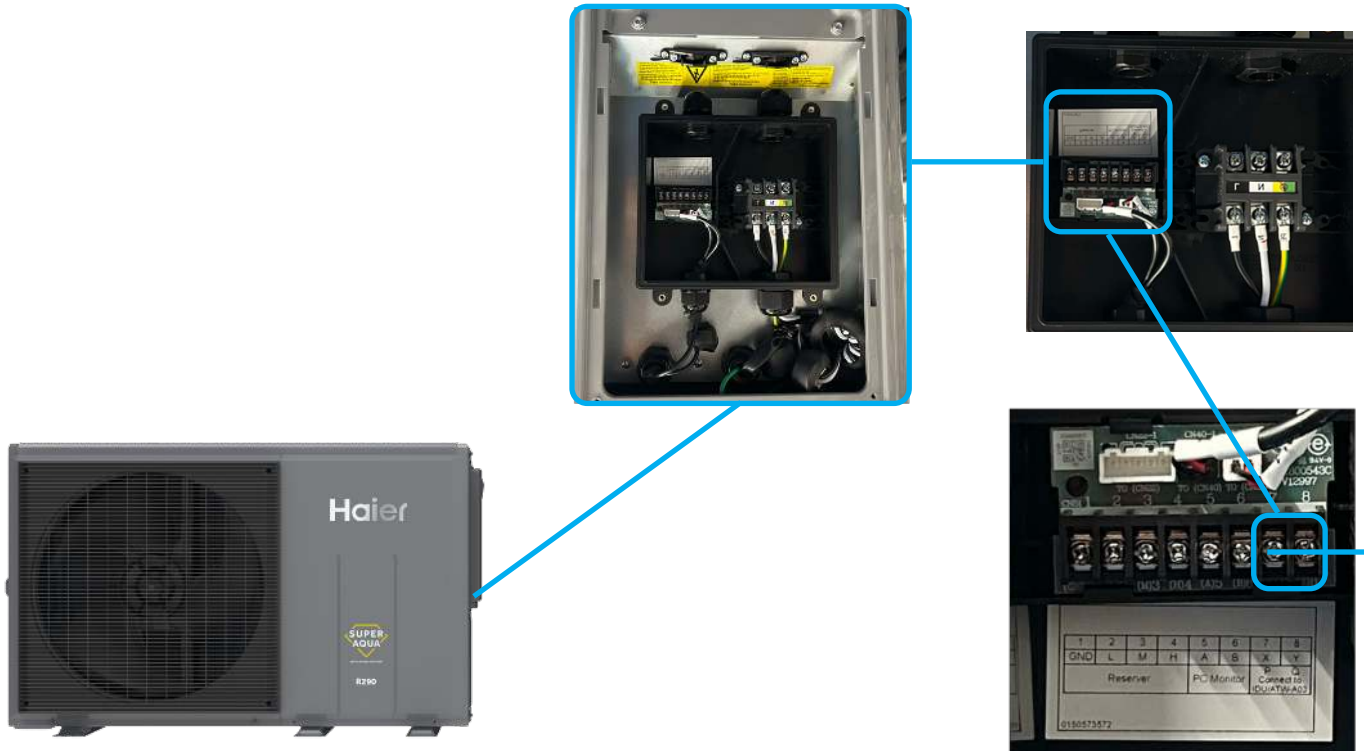


1.1.4 Kabelgebundener Anschluss des Controllers

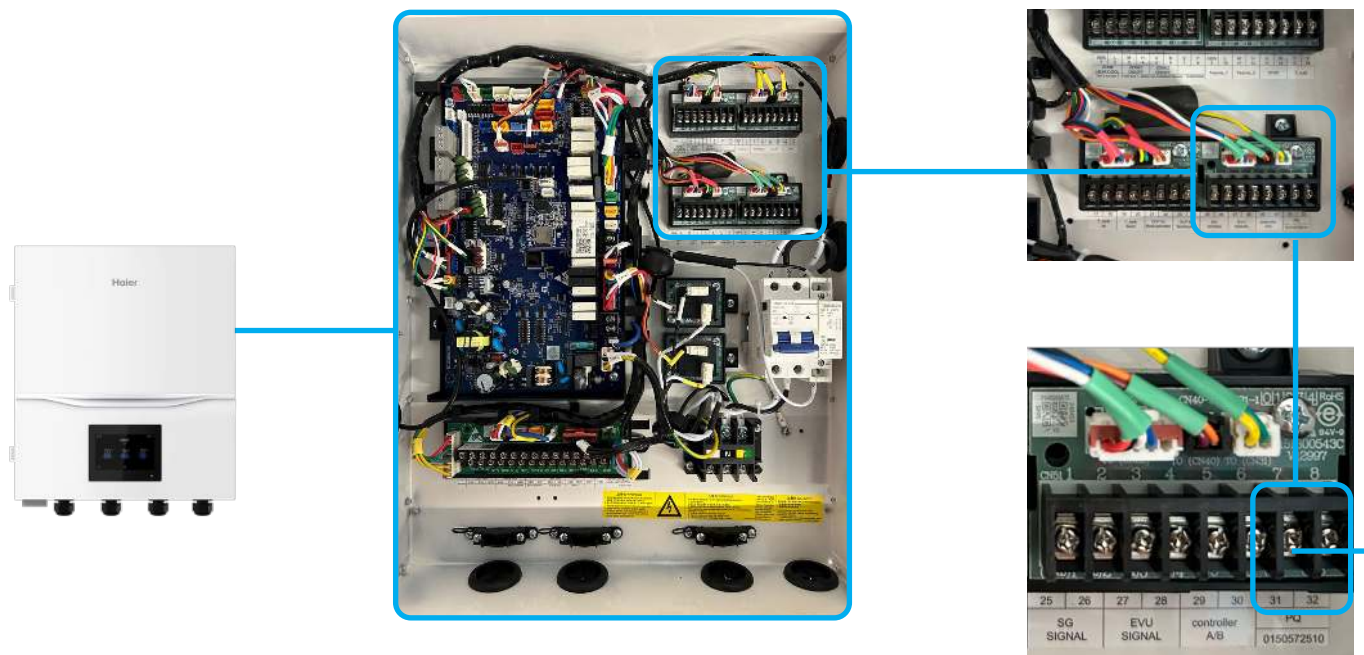


1.2. VERBINDUNG ZWISCHEN AUSSENGERÄT UND ATW-A03 N

Außengerät



Innengerät ATW-A03



Anschlussplatine 4

Anschlussplatine 1 - Außengerät

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Reserviert				PC-Überwachung		PQ	

Anschlussplatine 4 - Innengerät ATW-A03

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG-Signal		EVU-Signal		Controller A/B		PQ	

Verbinden Sie ein 2-adriges Kommunikationskabel von 7(X) und 8(Y) der Platine 1 des Außengeräts mit 31 (X) und 32 (Y) der Platine 4 des Innengeräts ATW-A03

Der Verbindungsbus zwischen dem Außengerät und dem ATW-A03N muss mit einem abgeschirmten Kabel von 2x0,75mm ausgeführt werden.

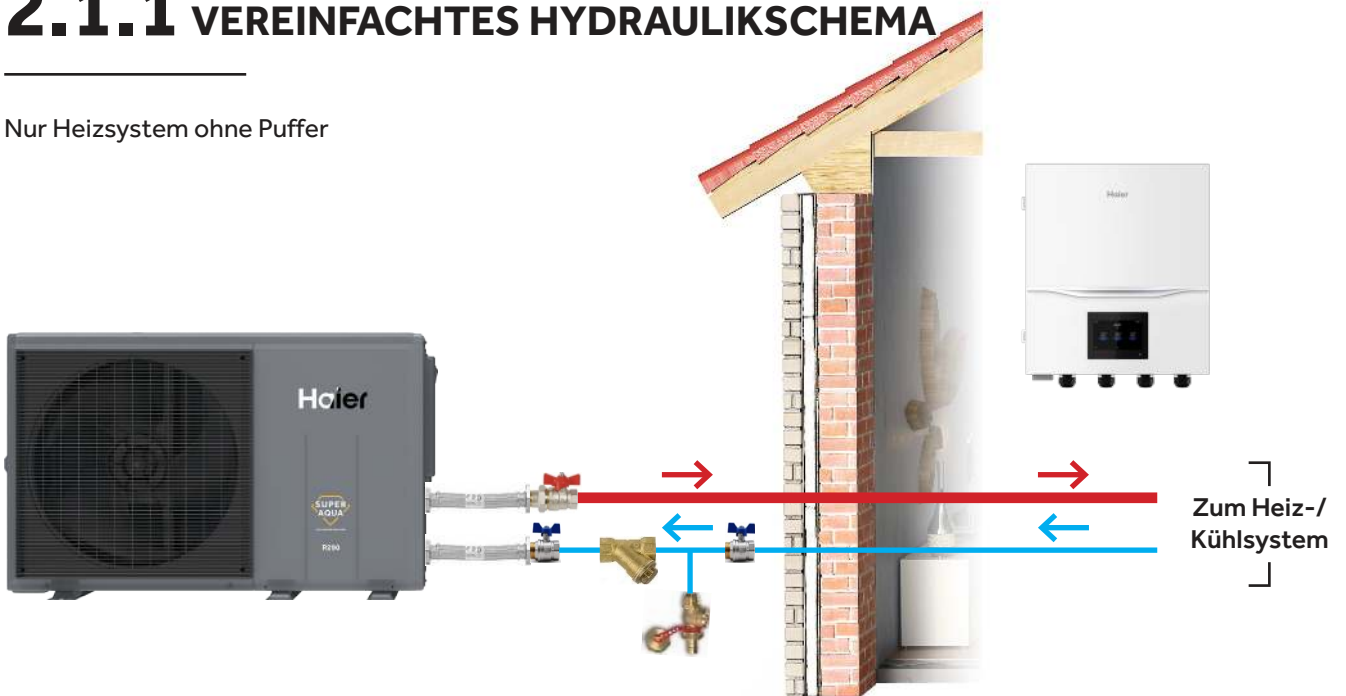
Beachten Sie, dass in der Mitte der blauen Leiterplatte ein grünes und rotes Licht blinkt, wenn die Kommunikation in Ordnung ist. Wenn die LEDs aufhören zu blinken, ist das Außengerät ausgeschaltet.








2.0. BEREICH 01

2.1. BEREICH 1 OHNE PUFFERTANK

2.1.1 VEREINFACHTES HYDRAULIKSCHEMA

Nur Heizsystem ohne Puffer



	Flexible Schlauchleitung		Wasserdurchfluss
	Kugelventil		Wasserrückfluss
	Kugelventil		
	Wasserfilter		
	Ablassventil		

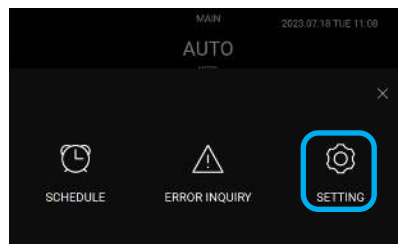
ALLE DIAGRAMME UND ZUBEHÖRTEILE SIND NUR EIN BEISPIEL FÜR DIE INSTALLATION UND MÜSSEN IN ÜBEREINSTIMMUNG MIT DEN ÖRTLICHEN VORSCHRIFTEN AUSGEFÜHRT WERDEN. DIE ELEKTRISCHEN ANSCHLÜSSE SIND UNTER PUNKT 1.0 BESCHRIEBEN.

2.1.2. Controller-Einstellung

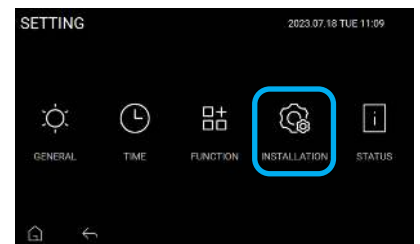
Geräteinstallation – HauptEinstellungen



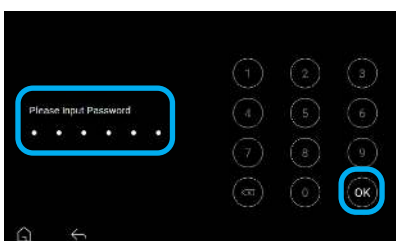
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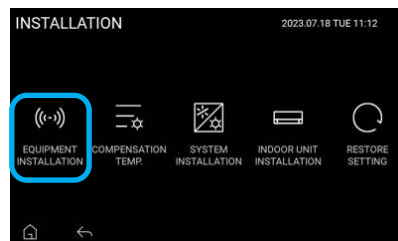
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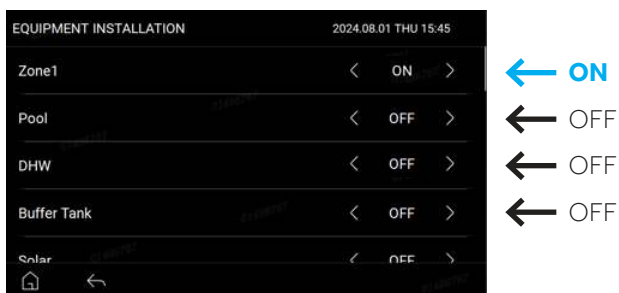
3



4 * Kennwort "841226" OK



5



*** WÄHLEN SIE ON, UM BEREICH 1 ZU AKTIVIEREN**

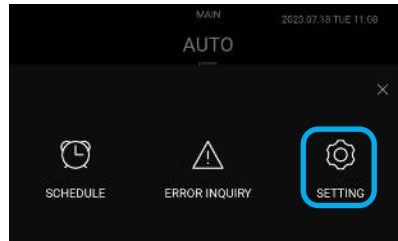
Funktion	Parameterbereich	Einstellungen
Bereich 1	ON/OFF	ON

2.1.2. CONTROLLER-EINSTELLUNG

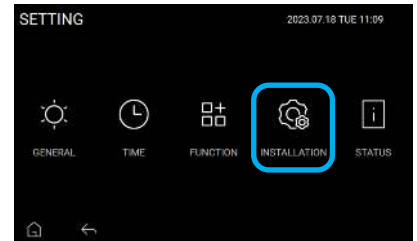
Systeminstallation – Haupteinstellungen



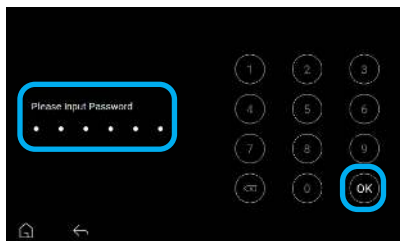
1



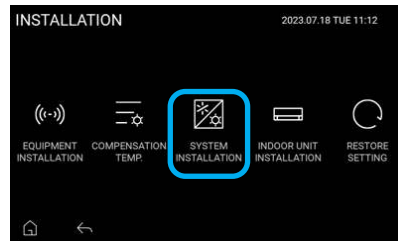
2



3



4 * Kennwort "841226" OK



5

Geräteinstallation – Haupteinstellungen



← Haupt-Controller

*** WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 1**

Funktion	Parameterbereich	Einstellungen
Steuerungsmodus von Bereich1	Haupt-Controller, Controller eines Drittanbieters	Haupt-Controller

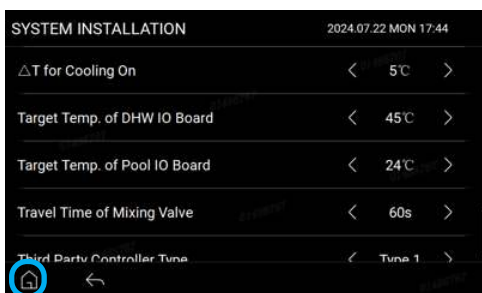


← 27°C

← 6°C

***DELTA T° FÜR HEIZUNG ON EINGEBEN**

Funktion	Parameterbereich	Einstellungen
ΔT für Heizung ON	0–15 °C	6°C



← 5°C

***DELTA T° FÜR KÜHLUNG ON EINGEBEN**

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

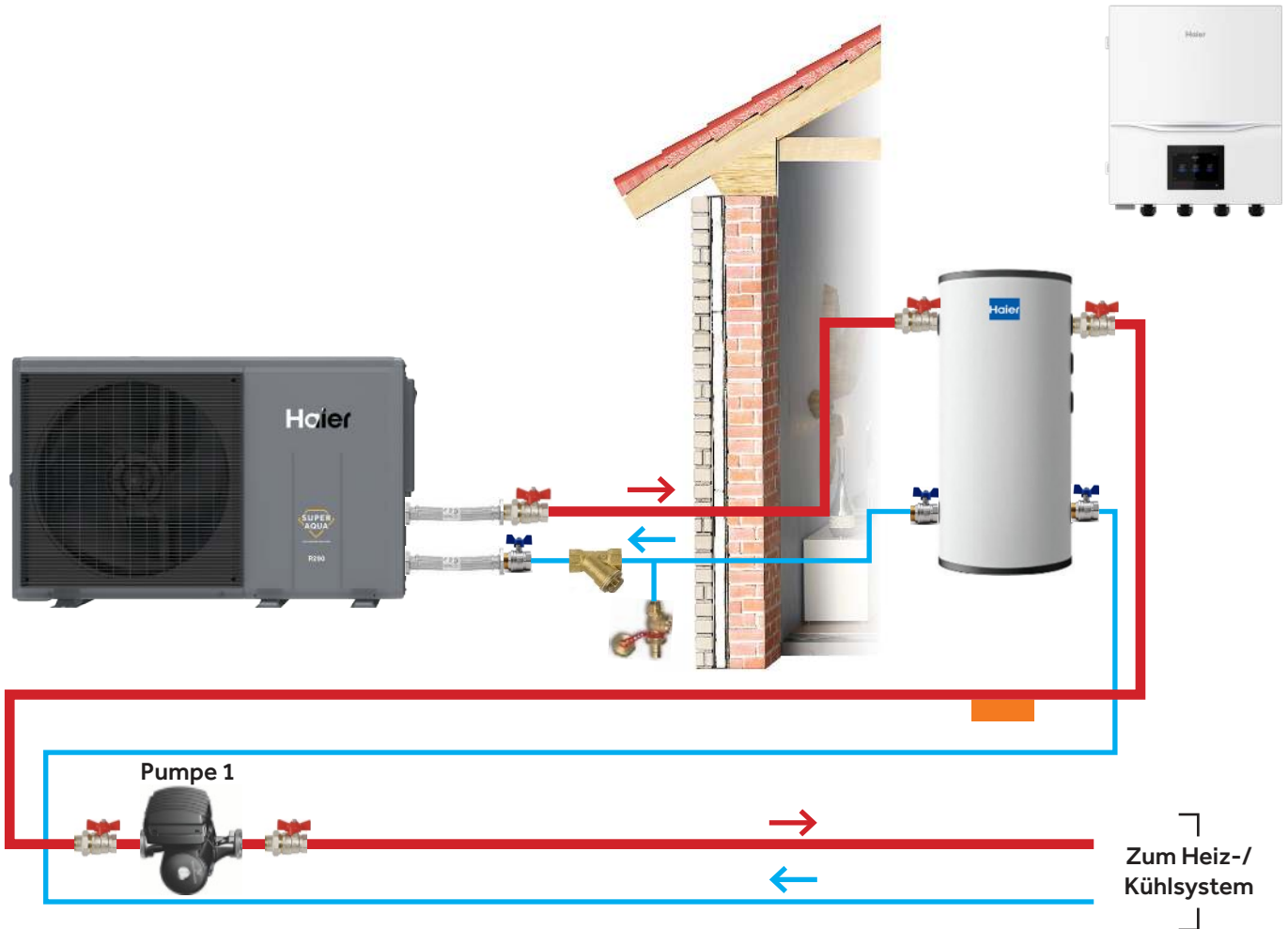
Funktion	Parameterbereich	Einstellungen
ΔT für Kühlung ON	0–15 °C	5°C










***DIE ZU ÄNDERNDEN PARAMETER SIND FETT UND BLAU MARKIERT.**

2.2. BEREICH 1 MIT PUFFERTANK

2.2.1. VEREINFACHTES HYDRAULIKSCHEMA

2.2.1. Heizung nur mit Pufferspeicher / hydraulische Trennung



	Flexible Schlauchleitung		Puffertank
	Kugelventil		Wasserpumpe
	Kugelventil		Wasserdurchfluss
	Wasserfilter		Wasserrückfluss
	Ablussventil		

ALLE DIAGRAMME UND ZUBEHÖRTEILE SIND NUR EIN BEISPIEL FÜR DIE INSTALLATION UND MÜSSEN IN ÜBEREINSTIMMUNG MIT DEN ÖRTLICHEN VORSCHRIFTEN AUSGEFÜHRT WERDEN.

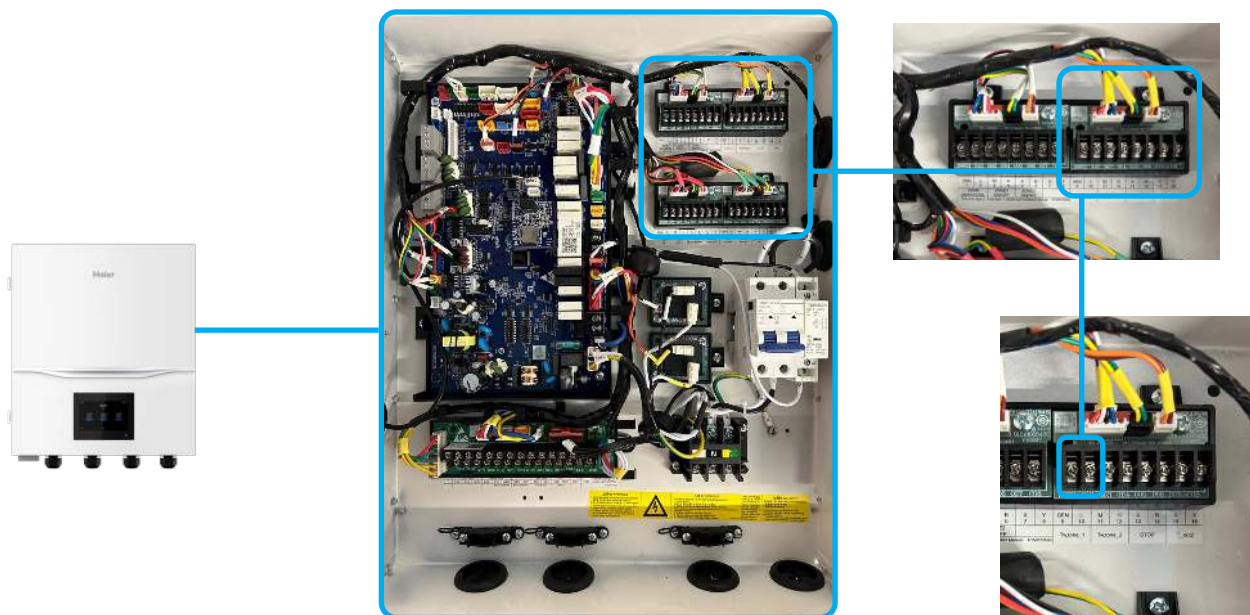
DIE ELEKTRISCHEN ANSCHLÜSSE SIND UNTER PUNKT 1.0 BESCHRIEBEN.

Anmerkung: Das Gerät muss mit dem Mindestvolumen des Systems betrieben werden, siehe Anhang am Ende des Handbuchs.

2.2.2. ANSCHLÜSSE

Wassertemperatursensor für Bereich 1

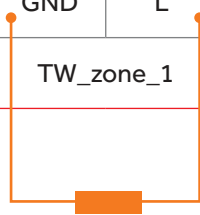
Alle Anschlüsse auf der Anschlussplatine 1, 2, 3 und 4 sind mit Schraubklemmen versehen.



Anschlussplatine 2

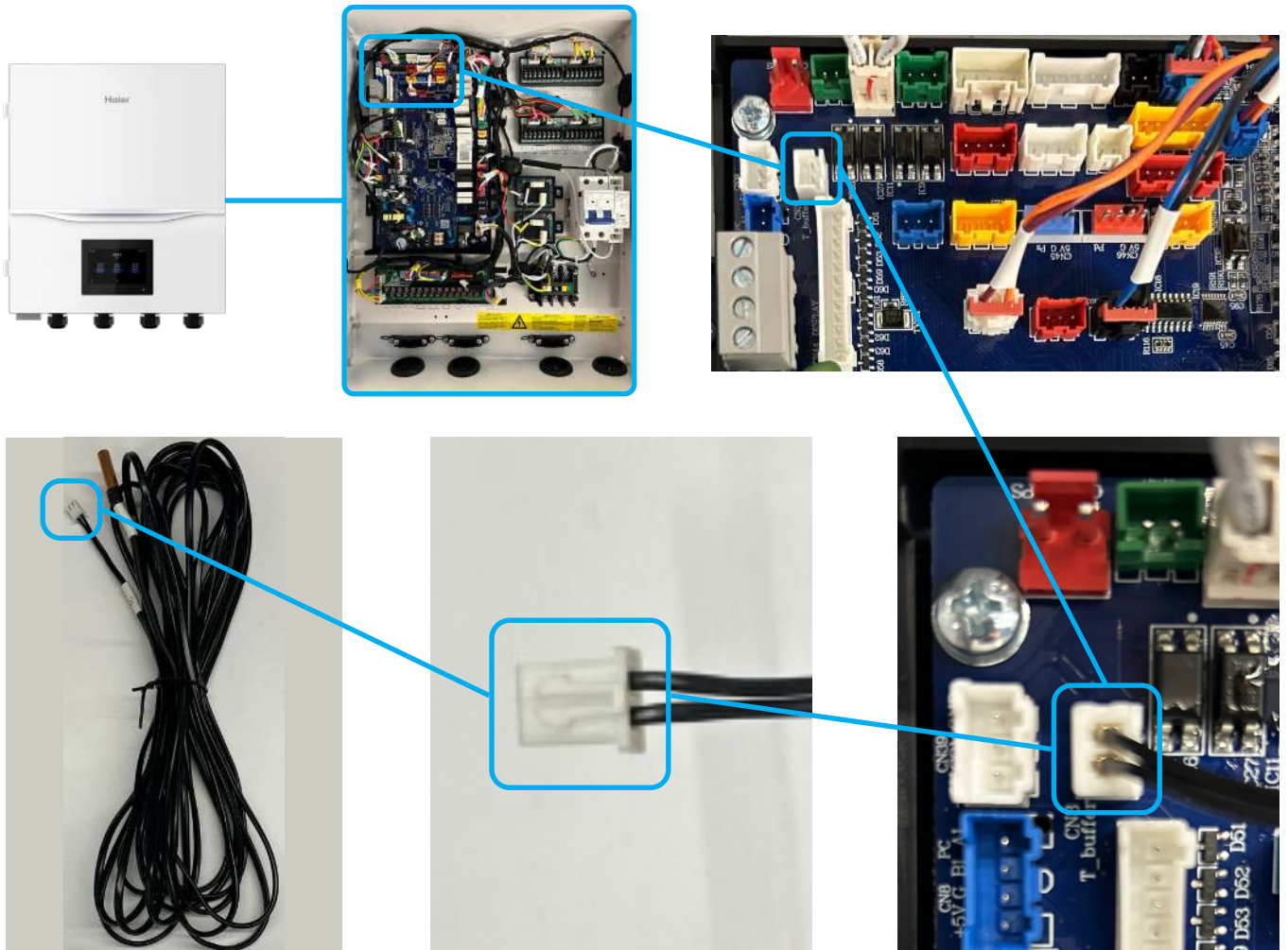
Anschlussplatine

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zone_1		TW_zone_2		STOP		T_out2	



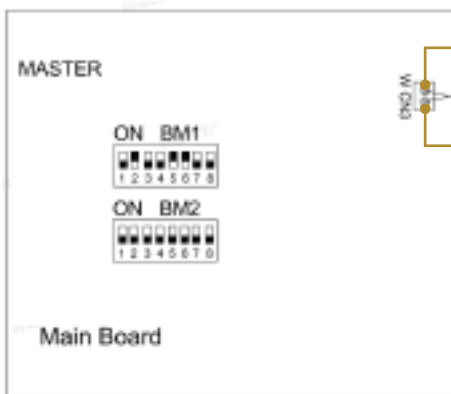
BEACHTEN SIE, DASS SIE ZUR STEUERUNG DER WÄRMEPUMPE ENTWEDER DEN FÜHLER TW_ZONE 1 DER ZONE 1 ODER DIE WASSERSENSOREN IM AUSSENGERÄT VERWENDEN KÖNNEN.

2.2.2. VEREINFACHTES HYDRAULIKSCHEMA



* Sie müssen den Sensor mit dem weißen Stecker verwenden.

*** T-BUFFER IST NICHT OBLIGATORISCH**



Auf der Hauptplatine im Anschluss CN3 können wir die Wassertemperatur für den Pufferspeicher anschließen.

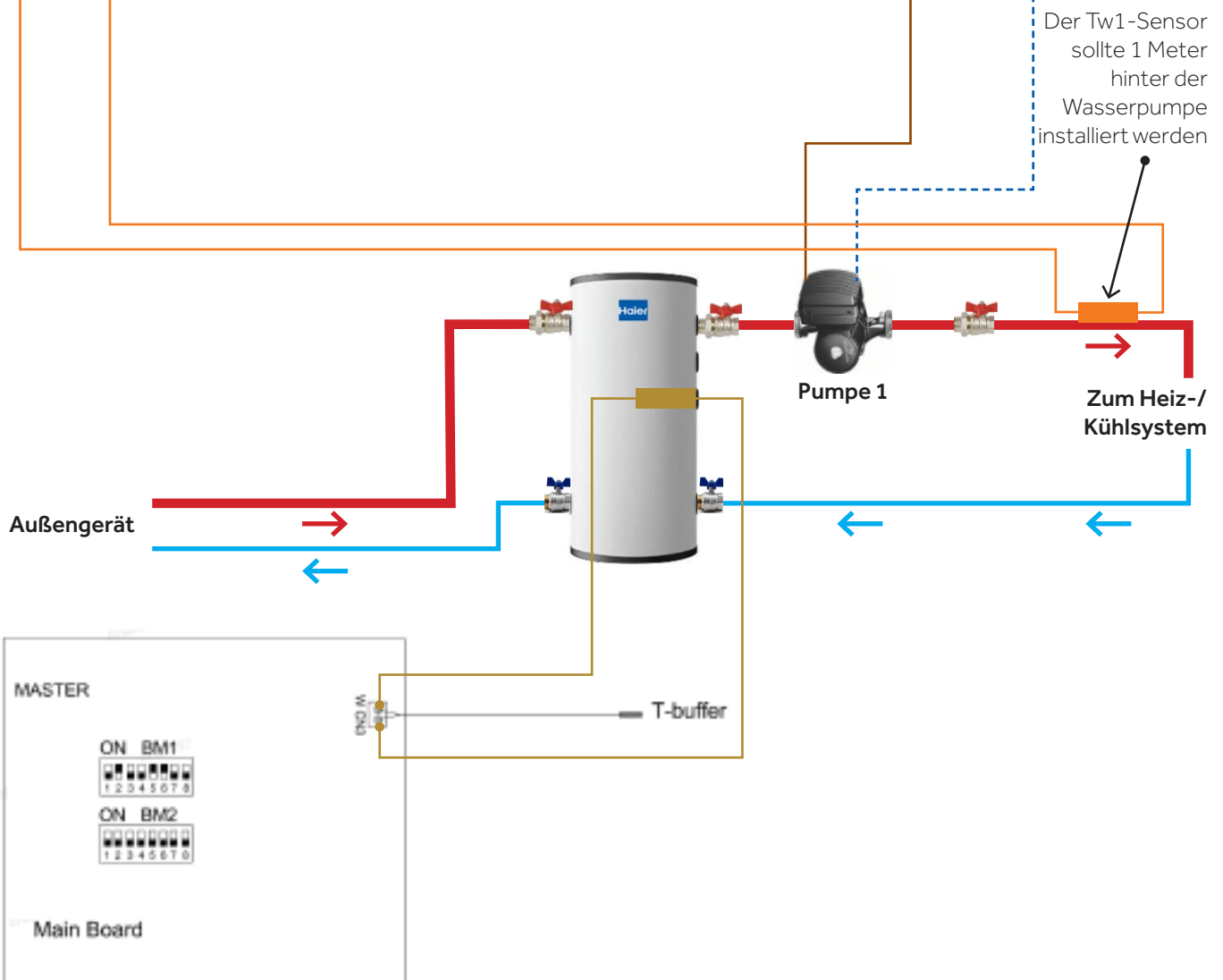


**ES IST MÖGLICH, DAS GERÄT SO EINZUSTELLEN, DASS ES NUR DIE PUFFERTEMPERATUR REGELT.
WENN SIE DIES WÜNSCHEN, KÖNNEN SIE EINEN PUFFERKONTROLLENSOR INSTALLIEREN.**

2.2.3. VEREINFACHTES HYDRAULIKSCHEMA

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1	Tw zone_2	STOP			T_out2		

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N						
				Heater 1		Heater 2		Boiler		Error			



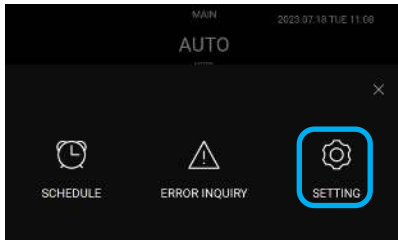
	Puffertank		T Pufferwasser-Tempersensoren
	Kugelventil		Tw Wassertempersensoren Bereich 1
	Kugelventil		Wasserdurchfluss
	Wasserpumpe		Wasserrückfluss
	Neutral		Live

2.2.4. CONTROLLER-EINSTELLUNGEN

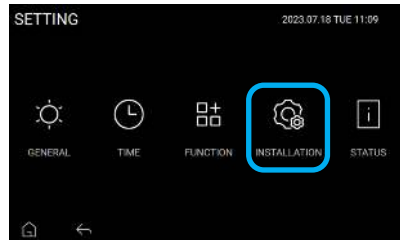
Geräteinstallation – HauptEinstellungen



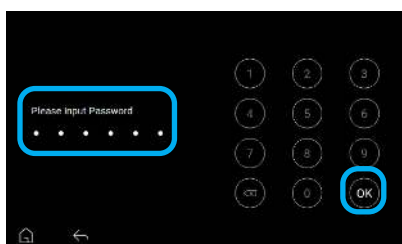
1



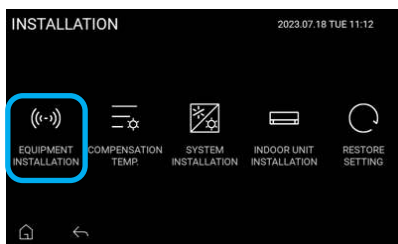
2



3



4 * Kennwort "841226" OK



5



← ON
← OFF
← OFF
← ON

* WÄHLEN SIE ON, UM BEREICH 1 ZU AKTIVIEREN

* WÄHLEN SIE ON, UM DEN PUFFERSPEICHER ZU BERÜCKSICHTIGEN

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

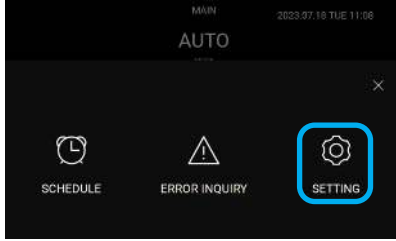
Funktion	Parameterbereich	Einstellungen
Bereich 1	ON/OFF	ON
Puffertank	ON/OFF	ON

2.2.4. CONTROLLER-EINSTELLUNGEN

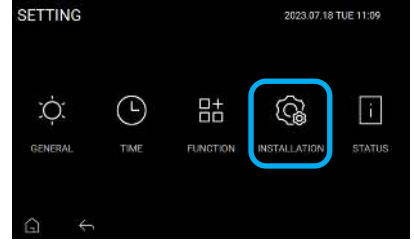
Systeminstallation – Haupteinstellungen



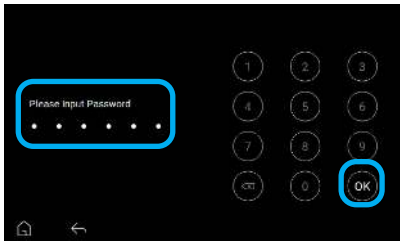
1



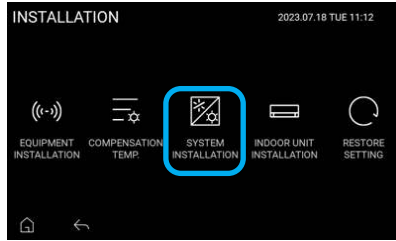
2



3



4 * Kennwort "841226" OK



5



← Haupt-Controller

← Haupt-Controller

← Haupt-Controller

← Haupt-Controller

* WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 1

Funktion	Parameterbereich	Einstellungen
Steuerungsmodus von Bereich 1	Haupt-Controller Controller eines Drittanbieters	Haupt-Controller



← 45°C

← 27°C

← 6°C

← 0°C

* DELTA T° FÜR HEIZUNG ON EINGEBEN

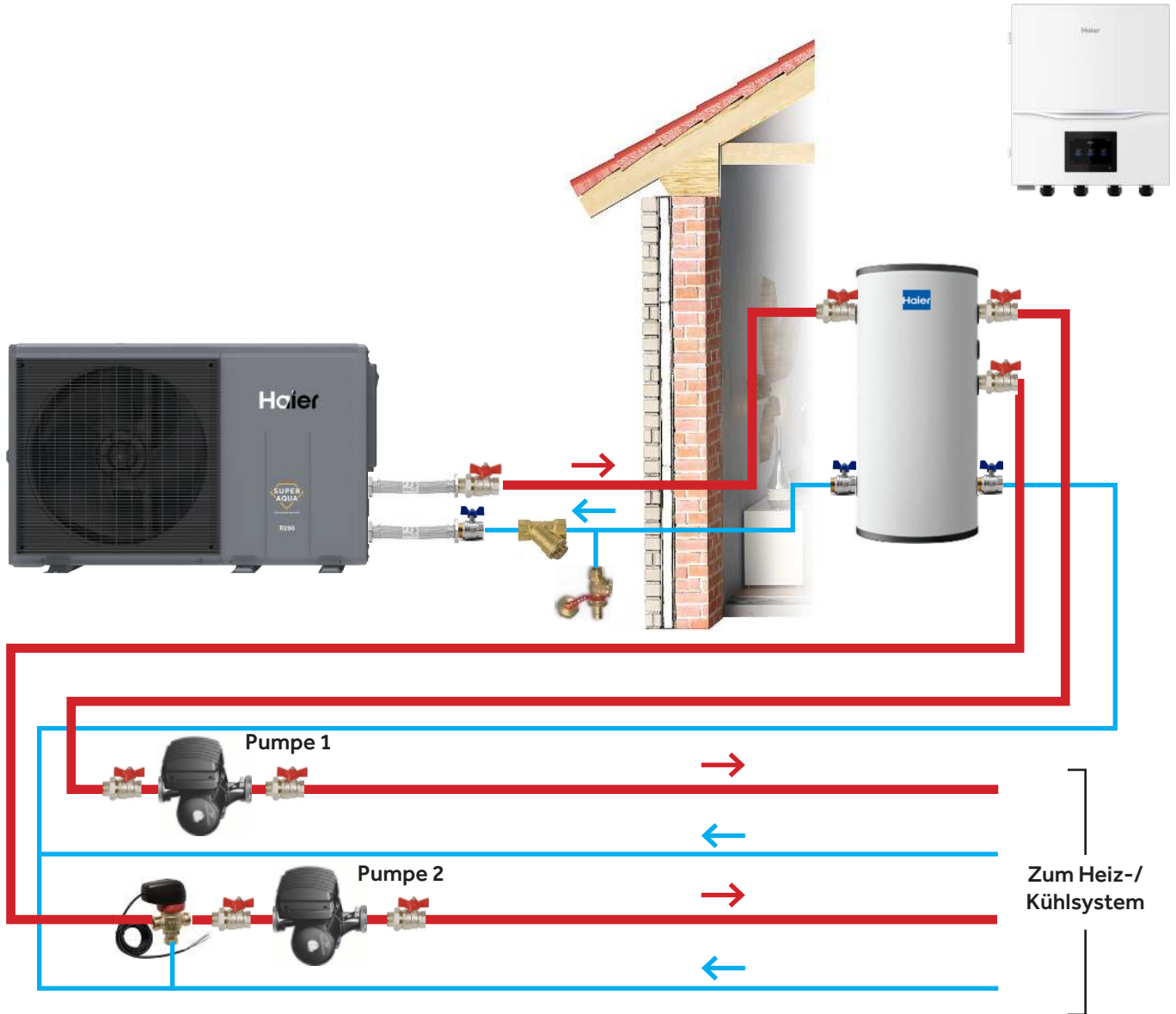
Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren









Funktion	Parameterbereich	Einstellungen
ΔT für Heizung ON	0–15°C	6°C

3.0. BEREICH 2 - MEHRERE BEREICHE

3.1. VEREINFACHTES HYDRAULIKSCHEMA

Heizung nur für mehrere Bereiche



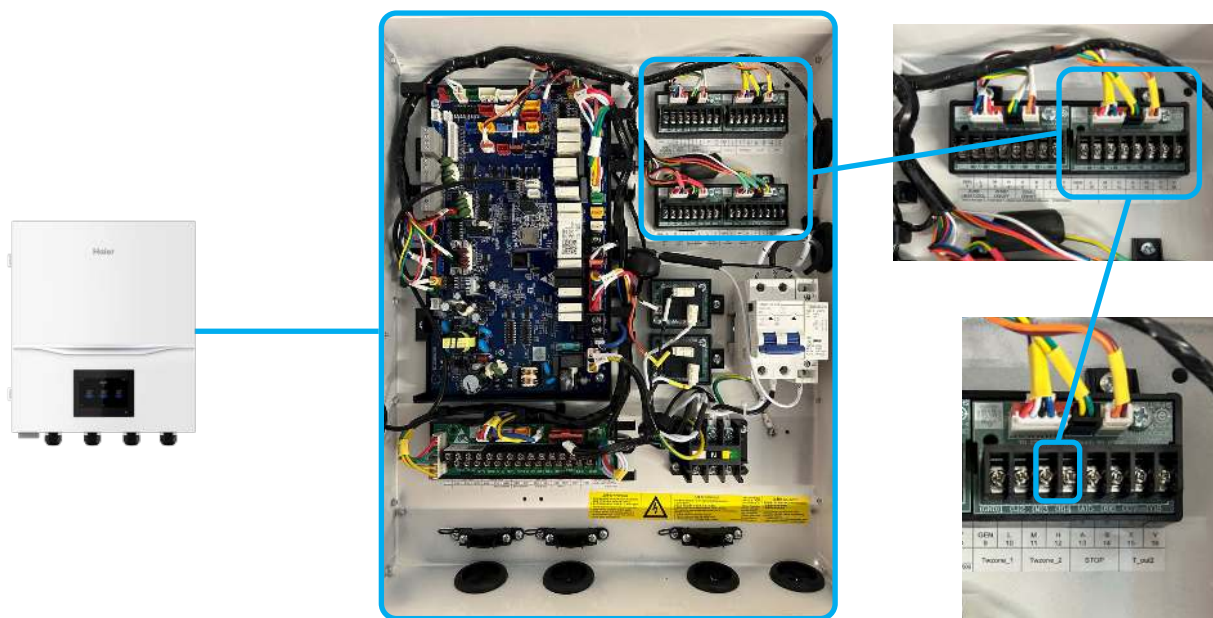
	Flexible Schlauchleitung		Puffertank
	Kugelventil		Wasserpumpe
	Kugelventil		Mischungswert
	Wasserfilter		Wasserdurchfluss
	Ablassventil		Wasserrückfluss

ALLE DIAGRAMME UND ZUBEHÖRTEILE SIND NUR EIN BEISPIEL FÜR DIE INSTALLATION UND MÜSSEN IN ÜBEREINSTIMMUNG MIT DEN ÖRTLICHEN VORSCHRIFTEN AUSGEFÜHRT WERDEN.

DIE ELEKTRISCHEN ANSCHLÜSSE SIND UNTER PUNKT 1.0 BESCHRIEBEN.

**DIE PUMPEN 1, 2 USW. WERDEN DURCH EXTERNE LAUFSIGNALE GESTEUERT. DIE WÄRMEPUMPE HEIZT DEN PUFFER.
DIE STEUERUNG DER VENTILE UND PUMPEN NACH DEM PUFFER ERFOLGT ÜBER EXTERNE THERMOSTATE - LAUFSIGNALE.**

3.2. WASSERTEMPERATURSENSOR FÜR BEREICH 2



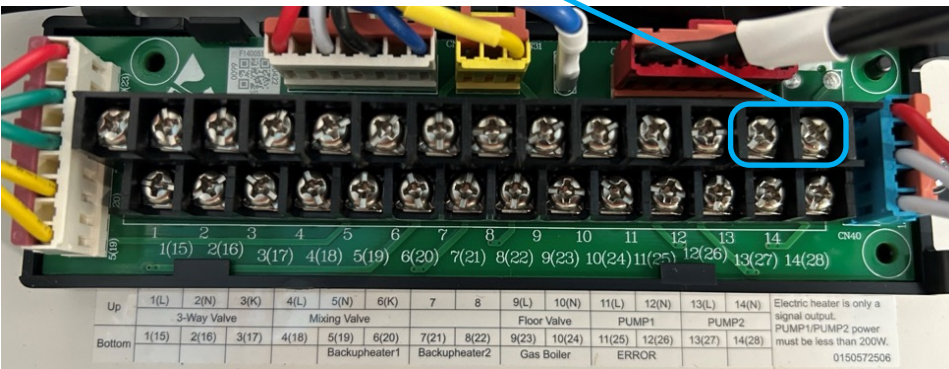
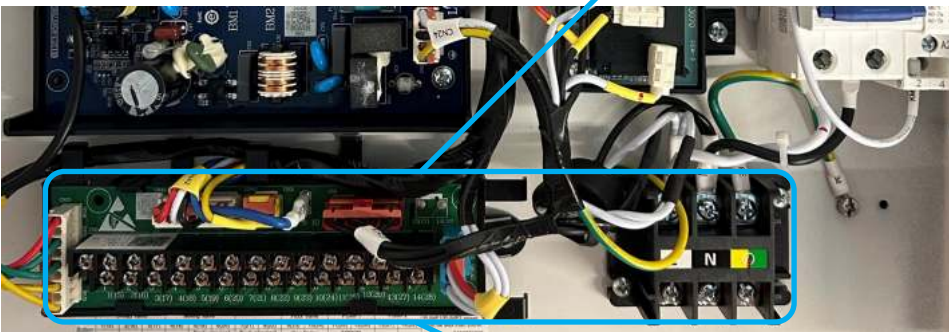
Anschlussplatine 2

Anschlussplatine

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zone_1		TW_zone_2		STOP		T_out2	

Auf der Anschlussplatine Nummer 2 zwischen den Klemmen 11 (M) und 12 (H) können wir den Wassertemperaturfühler für Bereich 2 anschließen.

Wasserpumpe für Bereich 2



Anschlussplatine 5

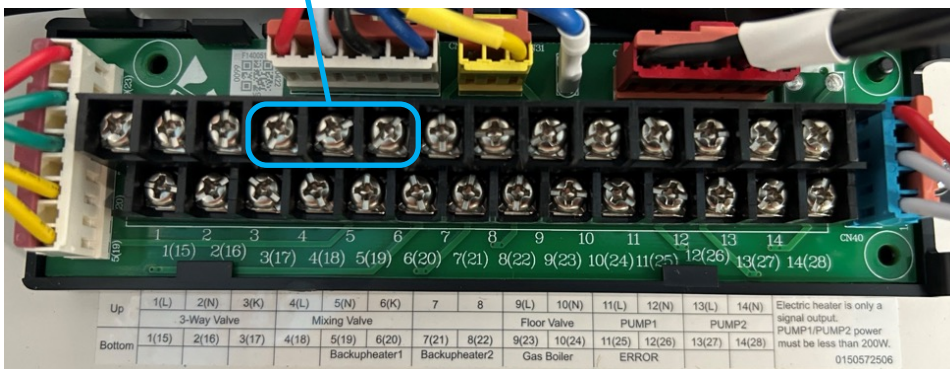
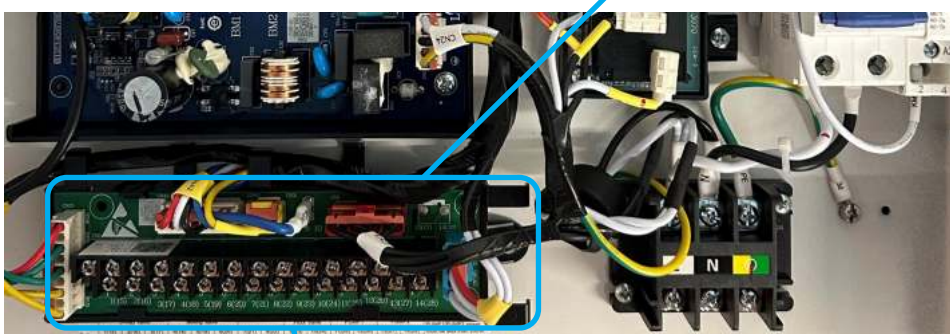
* Alle Anschlüsse auf der Anschlussplatine 5 sind mit Schraubklemmen versehen.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N			Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

Auf der Anschlussplatine Nummer 5 zwischen den Klemmen 13 (Live) und 14 (Neutral) können wir die Wasserpumpe für Bereich 1 anschließen. An diesem Anschluss haben wir eine Ausgangsspannung von 230VAC, die maximale elektrische Leistung, die dieser Kontakt unterstützen kann, beträgt 200W.



Mischventil für Bereich 2



Anschlussplatine 5

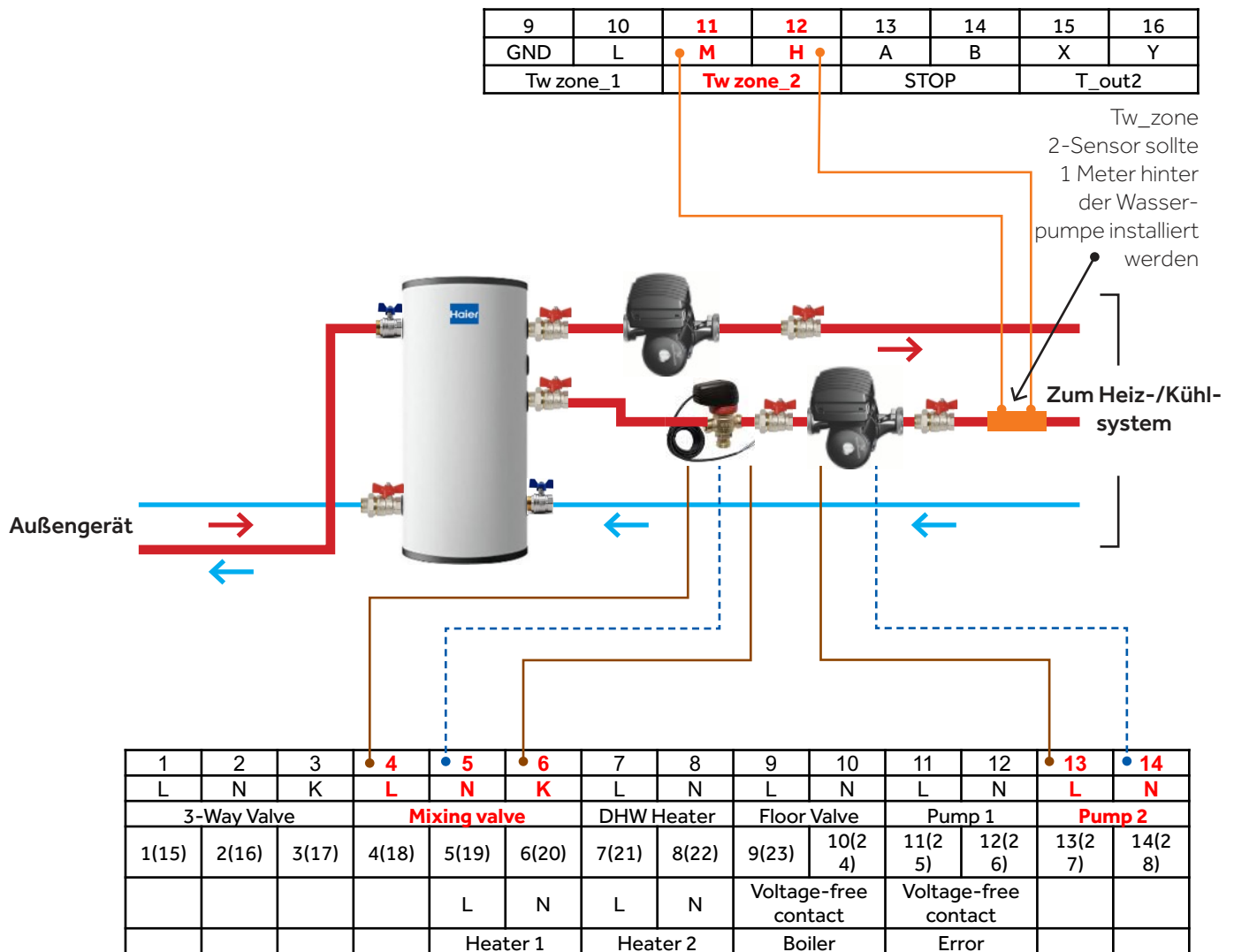
* Alle Anschlüsse auf der Anschlussplatine 5 sind mit Schraubklemmen versehen.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			Floor Valve			Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact		Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			



Auf der Anschlussplatine Nummer 5 zwischen den Klemmen 4 (L), 5 (N) und 6 (K) können wir das Mischventil für Bereich 2 anschließen. An diesem Anschluss haben wir eine Ausgangsspannung von 230VAC zwischen 4 (L - live) und 5 (N - neutral) zum Schließen des Ventils; 230VAC zwischen 6 (K - live) und 5 (N - neutral) zum Öffnen des Ventils

3.3. VEREINFACHTES ANSCHLUSSSCHEMA



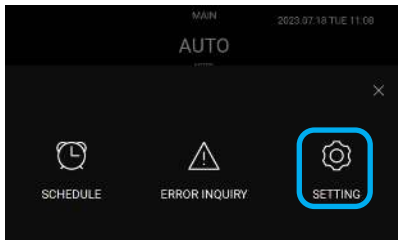
	Puffertank		Tw zone 2 Wassertemperatursensor
	Kugelventil		Wasserdurchfluss
	Kugelventil		Wasserrückfluss
	Wasserpumpe		Live
	Mischungswert		Neutral

3.4. CONTROLLER-EINSTELLUNGEN

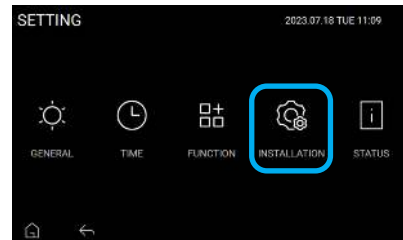
Geräteinstallation – Haupteinstellungen



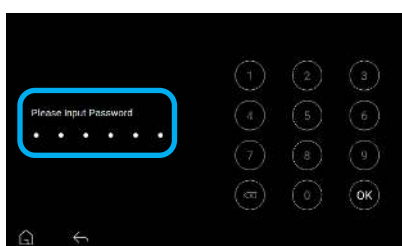
1



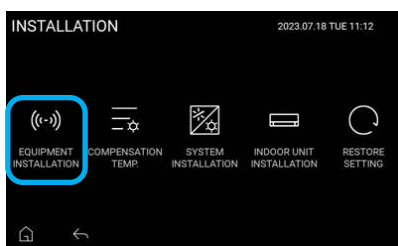
2



3



4 * Kennwort "841226"



5



← ON
← ON
← OFF
← OFF

* WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 1
* WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 2

Funktion	Parameterbereich	Einstellungen
Bereich 1	ON/OFF	ON
Bereich 2	ON/OFF	ON



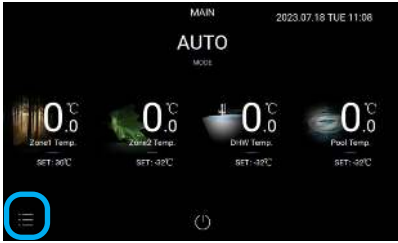
← ON
← OFF
← ON
← OFF

* WÄHLEN SIE ON, UM DEN PUFFERSPEICHER ZU BERÜCKSICHTIGEN
* WÄHLEN SIE ON, UM DEN KÜHLMODUS ZUZULASSEN
* WÄHLEN SIE ON, UM DEN KÜHLMODUS FÜR ZONE 2 ZUZULASSEN

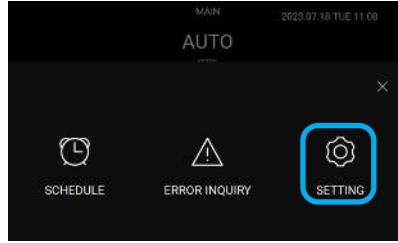
Funktion	Parameterbereich	Einstellungen
Puffertank	ON/OFF	ON
Kühlmodus zulassen	ON/OFF	ON
Kühlmodus Bereich 2 zulassen	ON/OFF	OFF

* DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.

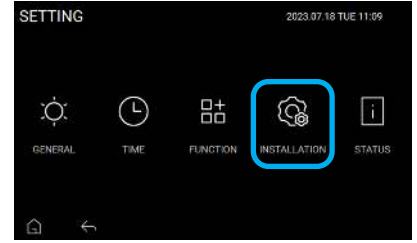
Systeminstallation – Haupteinstellungen



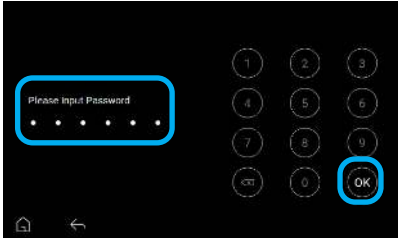
1



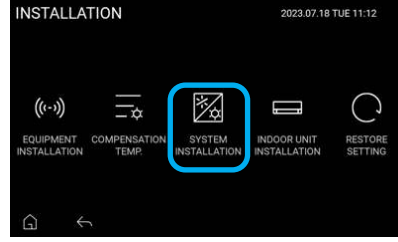
2



3



4 * Kennwort "841226" OK



5



← Haupt-Controller

← Haupt-Controller

← Haupt-Controller

← Haupt-Controller

* WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 1

* WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 2

Funktion	Parameterbereich	Einstellungen
Steuerungsmodus von Bereich 1	Hauptsteuergerät, Steuergerät eines Drittanbieters, IDU-Umgebungstemperatursensor	Haupt-Controller
Steuerungsmodus von Bereich 2	Haupt-Controller Controller eines Drittanbieters	Haupt-Controller



← 45°C

← 27°C

← 6°C

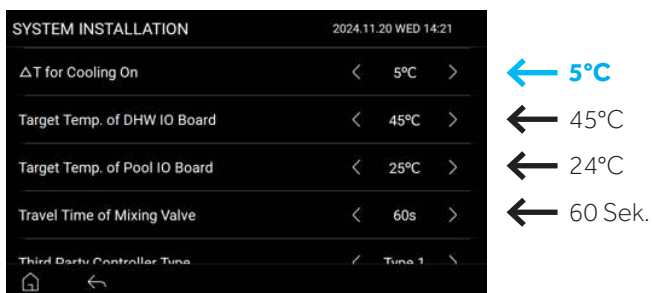
← 0°C

* DELTA T° VON HEIZUNG ON EINGEBEN

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

Funktion	Parameterbereich	Einstellungen
ΔT für Heizung ON	0–15°C	6°C

BLÄTTERN SIE FÜR DIESE EINSTELLUNGEN ZWEI SEITEN NACH UNTEN



***WARMWASSERTEMPERATUR EINGEBEN**



Funktion	Parameterbereich	Einstellungen
Fließzeit des Mischwertes	30–240 Sek.	60 Sek.

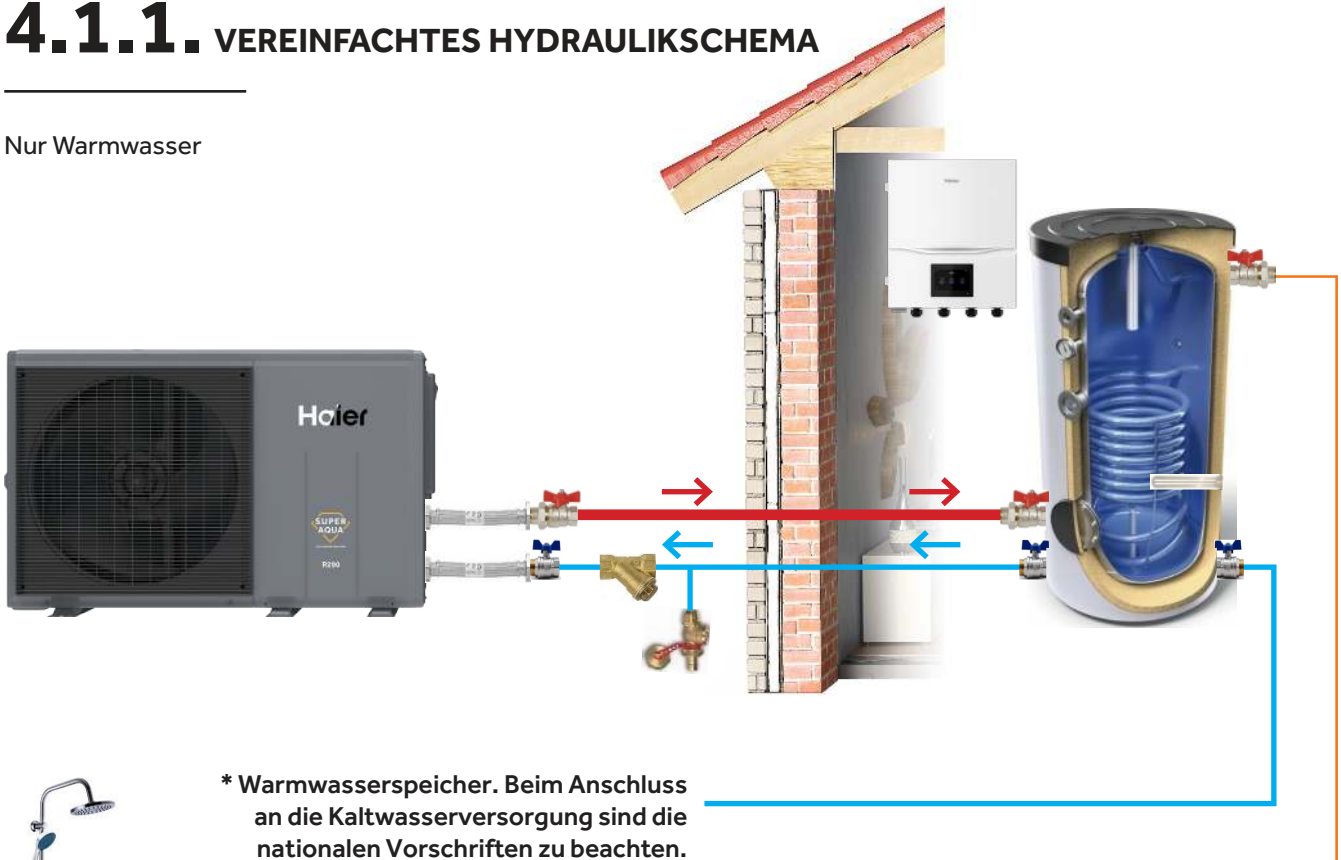
*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

4.0. WARMWASSER

4.1. WARMWASSERINSTALLATION

4.1.1. VEREINFACHTES HYDRAULIKSCHEMA

Nur Warmwasser



	Flexible Schlauchleitung		Warmwasserspeicher
	Kugelventil		Heizgerät für Warmwasser
	Kugelventil		Wasserdurchfluss
	Wasserfilter		Wasserrückfluss
	Ablassventil		

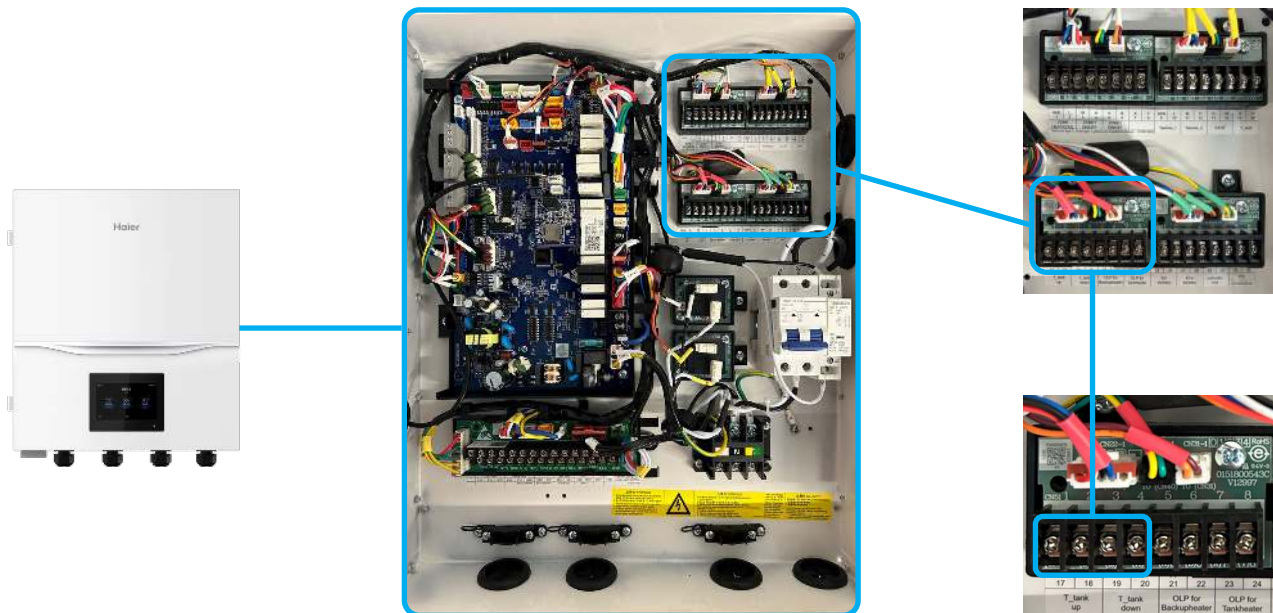
ALLE DIAGRAMME UND ZUBEHÖRTEILE SIND NUR EIN BEISPIEL FÜR DIE INSTALLATION UND MÜSSEN IN ÜBEREINSTIMMUNG MIT DEN ÖRTLICHEN VORSCHRIFTEN AUSGEFÜHRT WERDEN.

DIE ELEKTRISCHEN ANSCHLÜSSE SIND UNTER PUNKT 1.0 BESCHRIEBEN.

Ein E10-Fehler wird angezeigt, wenn ein Zylindersensor nicht mit dem System verdrahtet ist.

4.1.2. ANSCHLÜSSE

Anschluss der Wassertemperatursensoren



Anschlussplatine 3

Anschlussplatine

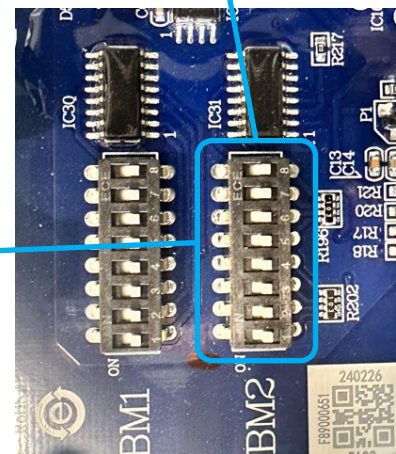
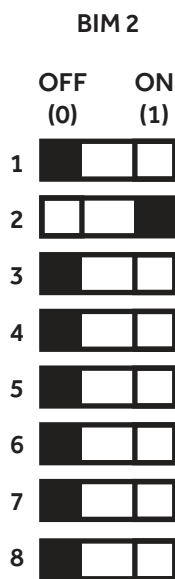
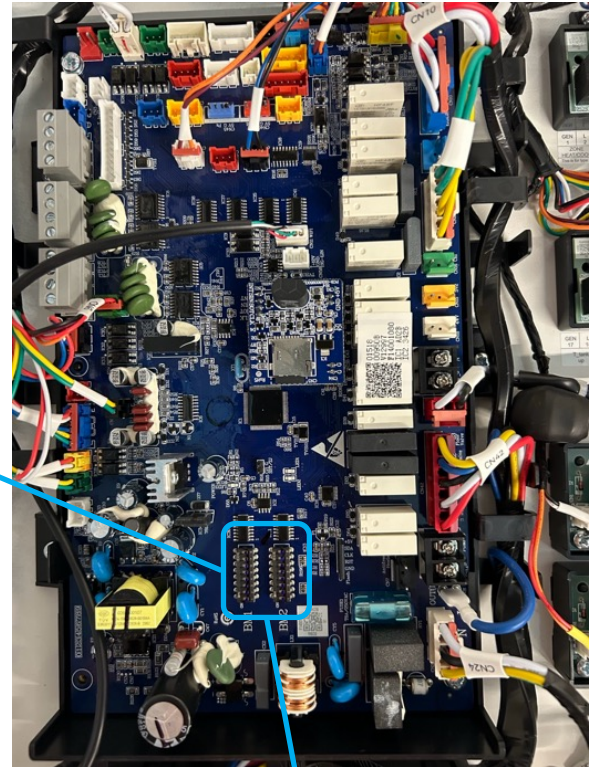
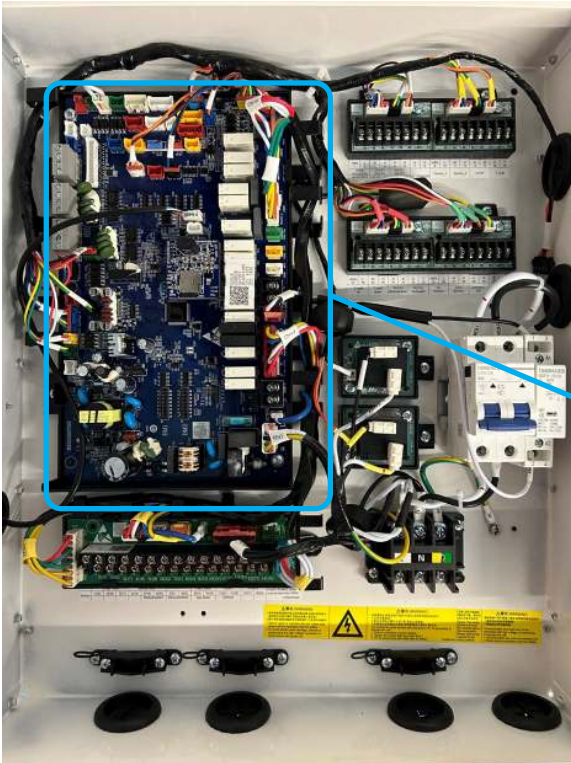
17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_tank up		T_tank down		OLP-Hilfsmittel Heizgerät		OLP für Tankheizgeräte	

An der Anschlussplatine Nr. 3 zwischen den Klemmen 17 (GND) und 18 (L) muss der Wassertemperatursensor T_tank up für den Warmwasserspeicher angeschlossen werden, der im oberen Teil des Tanks installiert werden sollte.

An der Anschlussplatine Nr. 3 zwischen den Klemmen 19 (M) und 20 (H) muss der Temperatursensor T_tank down für den Warmwasserspeicher angeschlossen werden, der im Boden des Tanks installiert werden sollte.

* Wenn das Warmwasserheizgerät nur einen Bereich für die Regulierung der Wassertemperatur hat und nur den T-Tank up verwendet, muss der Schalter BM2 am ATW-A03 N geändert werden, um einen E10-Fehler, fehlender Temperatursensor zu vermeiden.

Schalterstellung - 1 Sensor für Warmwasser

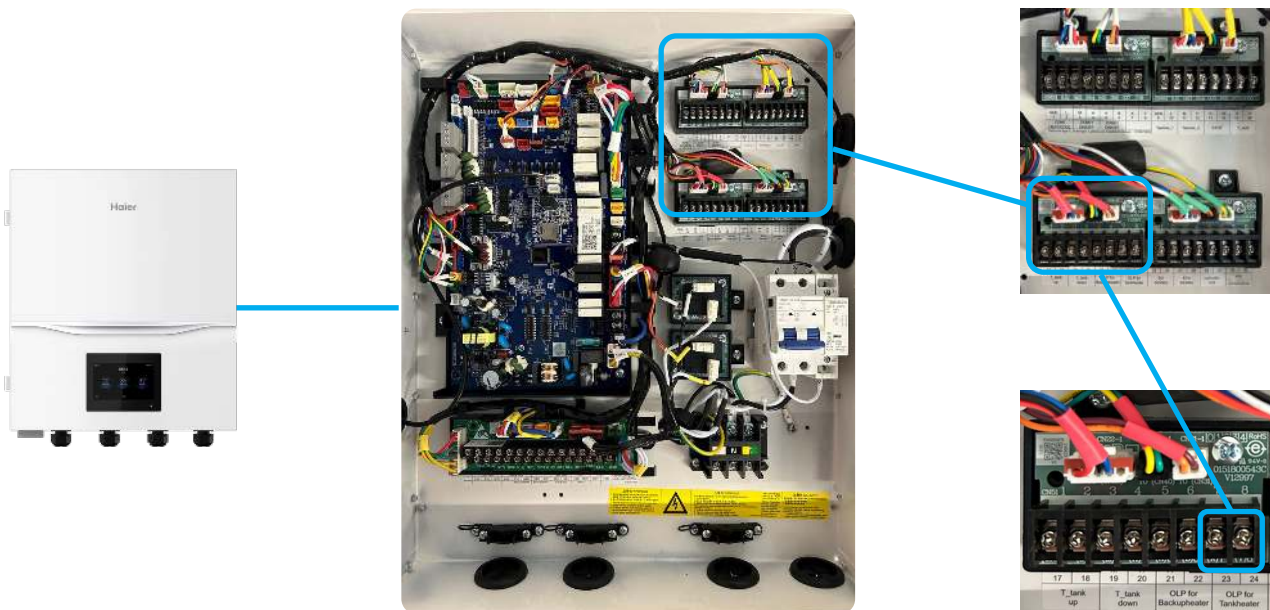


BM2	Wassertank Sensor Aswahl	(2)	Auswahl des Wassertanksensors
		ON (1)	Nur 1 Sensor, T_tank up
		OFF (0)	2 Sensoren, T_tank up und T_tank down (Standard)

Wenn in Ihrer Anlage ein Warmwassersensor verwendet wird, schalten Sie den Schalter 2 an BM2 auf ON.

Anmerkung: Sie müssen das Gerät 60 Sekunden lang ausschalten und dann die Dip-Schalter betätigen, da sie nicht gelesen werden, wenn das Gerät eingeschaltet ist.

Schutzsignal-Rückmeldeanschluss der elektrischen Heizung für Tankheizgerät (OLP)



Anschlussplatine 3

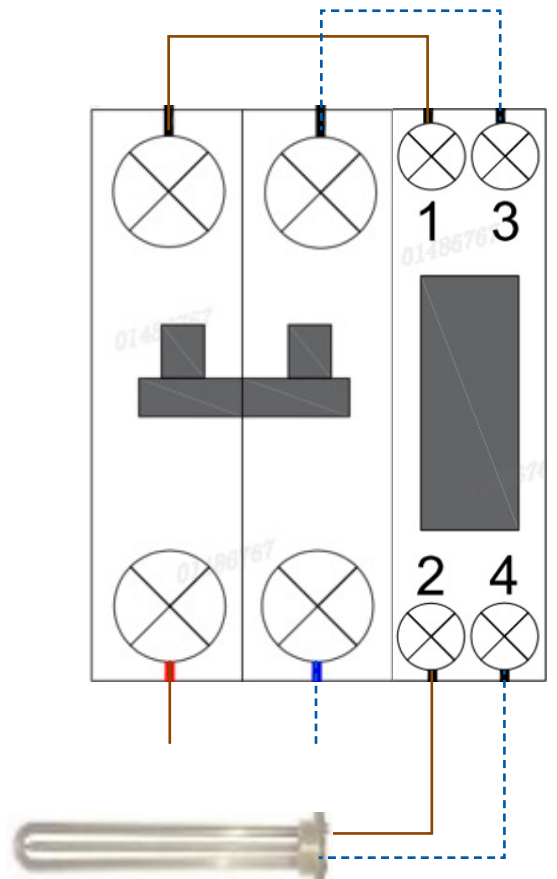
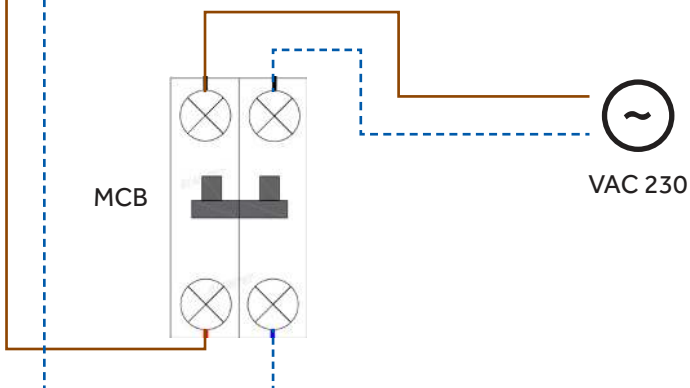
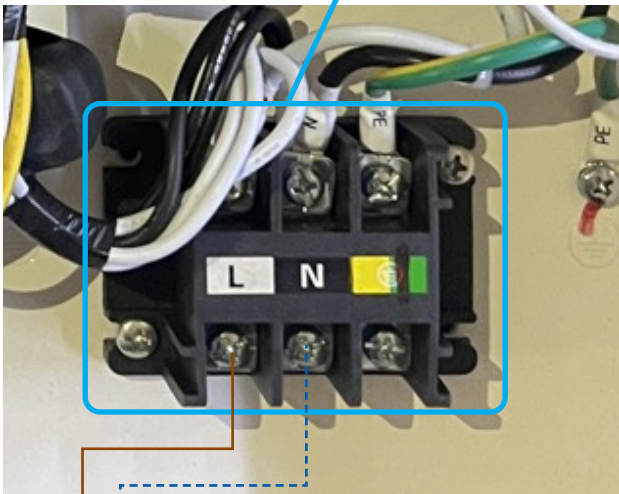
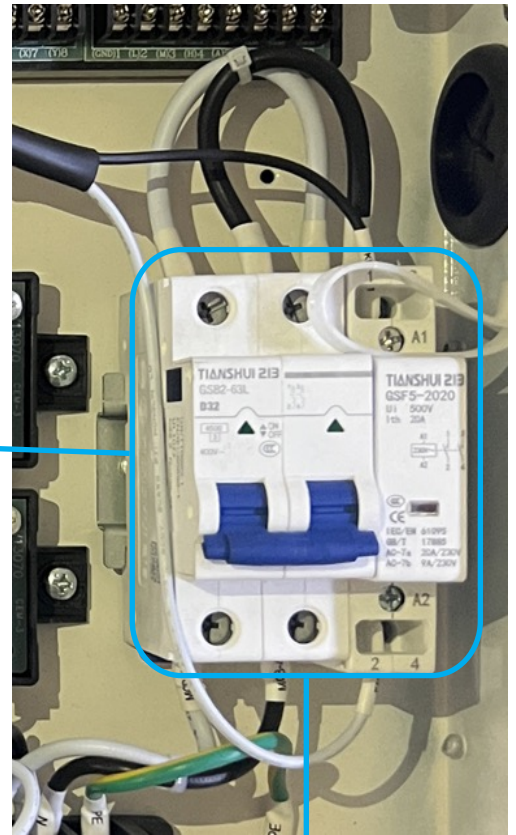
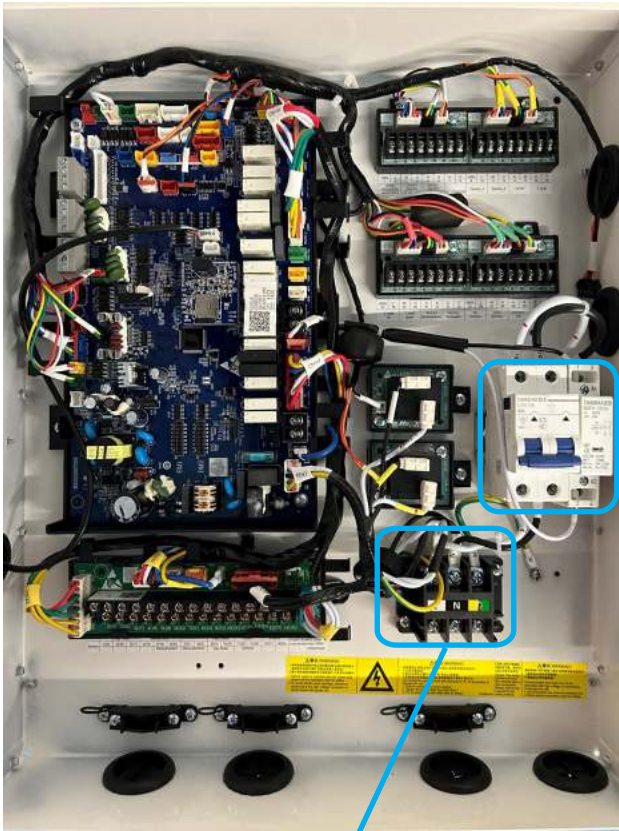
Anschlussplatine

17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_tank up		T_tank down		OLP-Hilfsmittel Heizgerät		OLP für Tankheizgeräte	

Auf der Anschlussplatine Nummer 3 zwischen den Klemmen 23 (X) und 24 (Y) den OLP für das Tankheizgerät anschließen

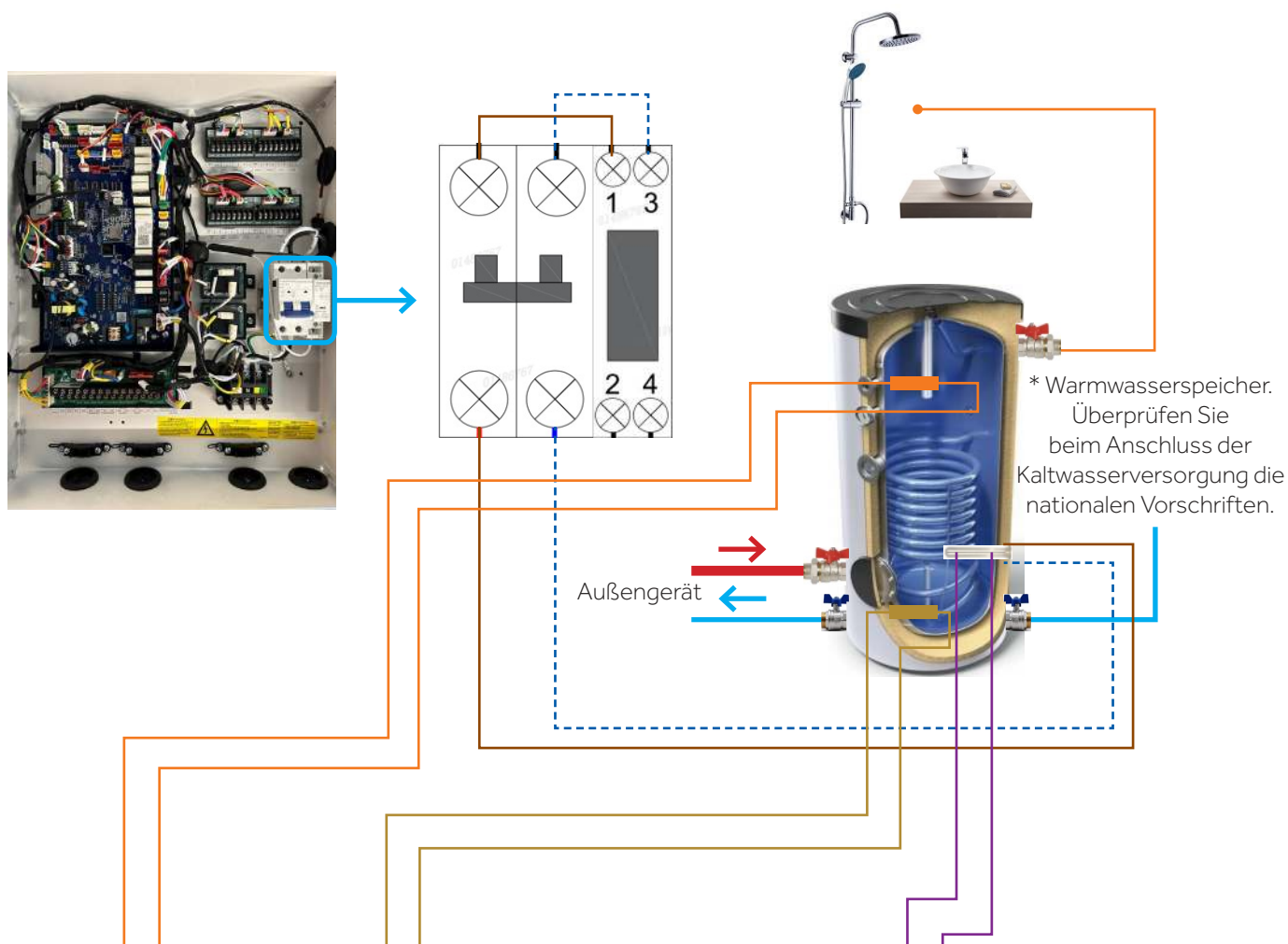
Auf der Anschlussplatine Nummer 3 zwischen den Klemmen 23 (X) und 24 (Y) muss der elektrische Heizungsschutz für den Warmwasserspeicher angeschlossen werden. Dies ist ein normalerweise geschlossener, spannungsfreier Kontakt, was bedeutet, dass, wenn der Kontakt geschlossen ist, kein Fehler vorliegt; wenn der Kontakt geöffnet ist, liegt ein Fehler vor.

Elektrisches Heizgerät



4.1.3. VEREINFACHTES ANSCHLUSSSCHEMA

Geräteinstallation – Haupteinstellungen

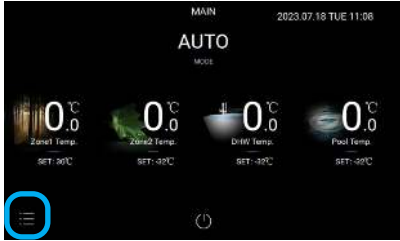


17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_tank up		T_tank down		OLP Auxiliary Heater		OLP For Tank Heater	

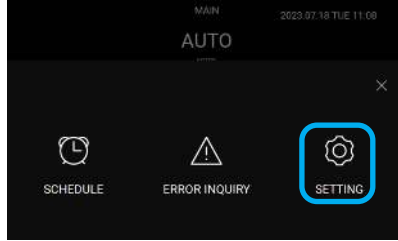
	Warmwasserspeicher		T_tank up Wassertempersensoren
	Kugelventil		T_tank down Wassertempersensoren
	Kugelventil		OLP für Tankheizgeräte
	Wasserdurchfluss		Leitung
	Wasserrückfluss		Neutral
	Heizgerät für Warmwasser		

4.1.4. CONTROLLER-EINSTELLUNGEN

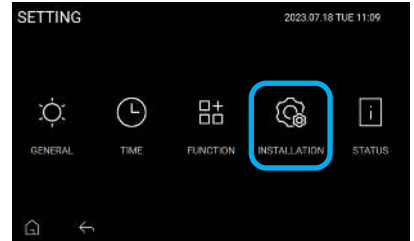
Systeminstallation – Haupteinstellungen



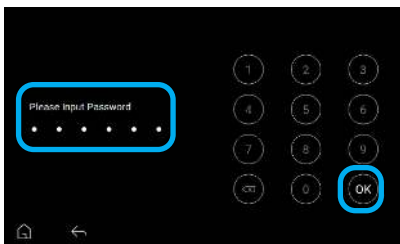
1



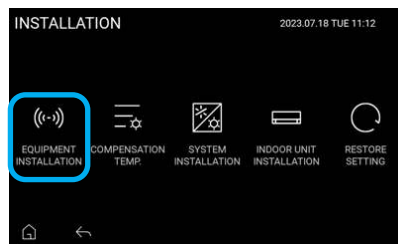
2



3



4 * Kennwort "841226" OK



5



← OFF
← ON
← OFF

* WÄHLEN SIE ON FÜR WARMWASSER

Funktion	Parameterbereich	Einstellungen
DHW	ON/OFF	ON



← 0°C
← 10 Min.
← ON
← 3.0 KW

* WÄHLEN SIE ON, UM DAS TANKHEIZGERÄT ZUZULASSEN
* GEBEN SIE DIE LEISTUNG DES TANKHEIZGERÄTS EIN

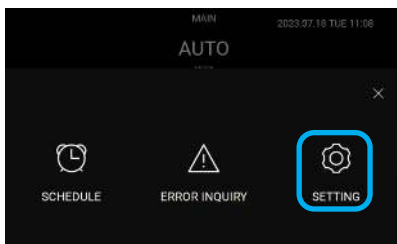
Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

Funktion	Parameterbereich	Einstellungen
Tankheizgerät zulassen	ON/OFF	ON
Leistung des Tankheizgeräts	0.0–9.0 KW	3.0 KW

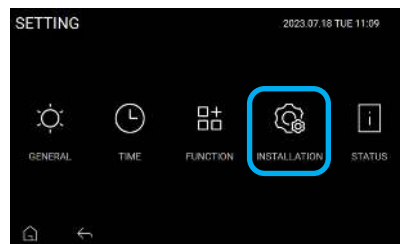
* DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.



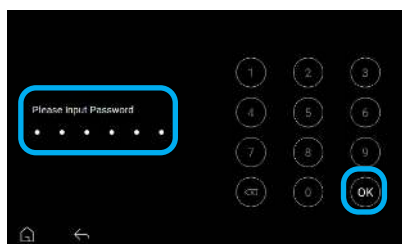
1



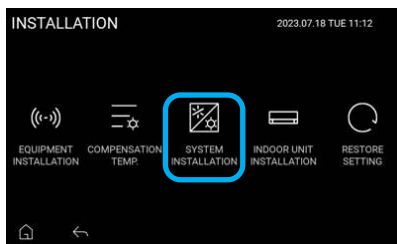
2



3



4 * Kennwort "841226" OK



5



← Haupt-Controller

← Haupt-Controller

← **Haupt-Controller**

← Haupt-Controller

*** AUSWAHL DER REGULIERUNGSART FÜR WARMWASSER**

Funktion	Parameterbereich	Einstellungen
Regulierungsmodus für Warmwasser	Haupt-Controller Controller eines Drittanbieters	Haupt-Controller



← **45°C**

← 27°C

← 6°C

← 0°C

*** WÄHLEN SIE DHW ON TEMP**

MIT DIESER EINSTELLUNG WIRD DEM GERÄT MITGETEILT, AUF WELCHE TEMPERATUR DAS WASSER FALLEN MUSS, BEVOR ES MIT DER AUFHEIZUNG DES WARMWASSERSPEICHERS BEGINNT.

Funktion	Parameterbereich	Einstellungen
Warmwasser ON-Temperatur	30–75°C	45°C



***GEBEN SIE DIE TANK-WIEDERAUFHEIZTEMPERATUR EIN**

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

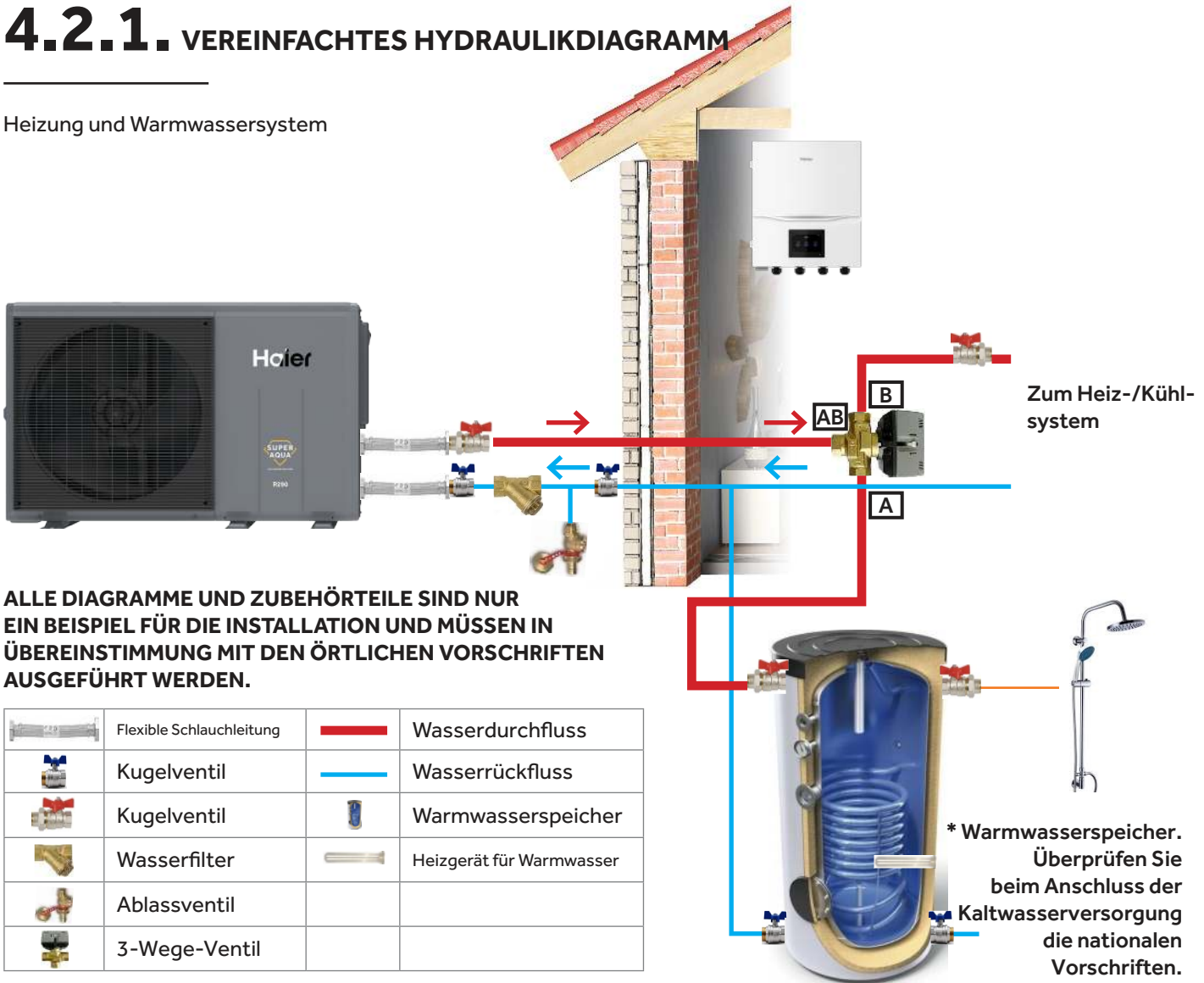
Funktion	Parameterbereich	Einstellungen
Tank-Wiederaufheiztemperatur	-12–2°C	-3°C

*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

4.2. WARMWASSER + 3-WEGE- VENTIL FÜR HEIZUNGS- UND KÜHLUNGSINSTALLATION

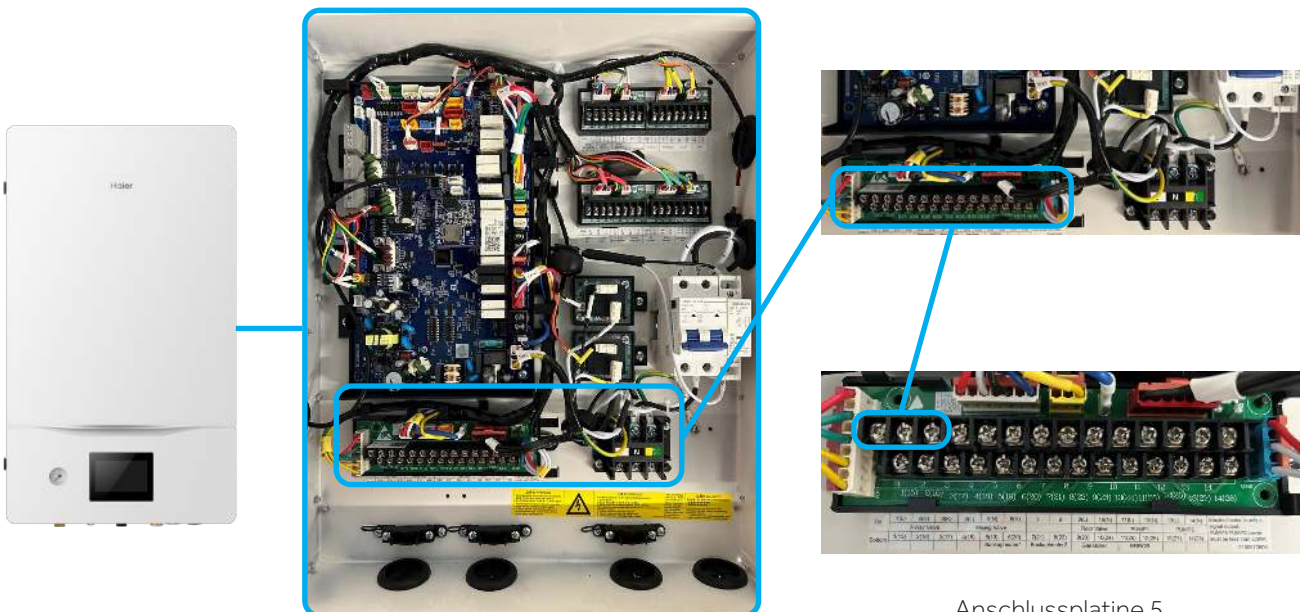
4.2.1. VEREINFACHTES HYDRAULIKDIAGRAMM

Heizung und Warmwassersystem



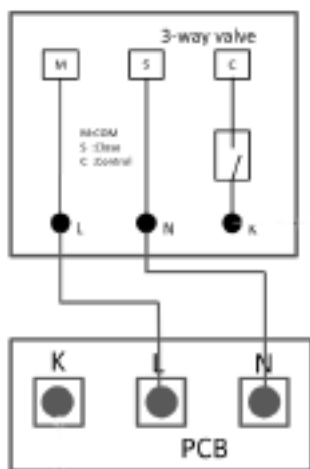
DIE ELEKTRISCHEN ANSCHLÜSSE SIND UNTER PUNKT 1.0 BESCHRIEBEN.

Drei-Wege-Ventil



Anschlussplatine

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				

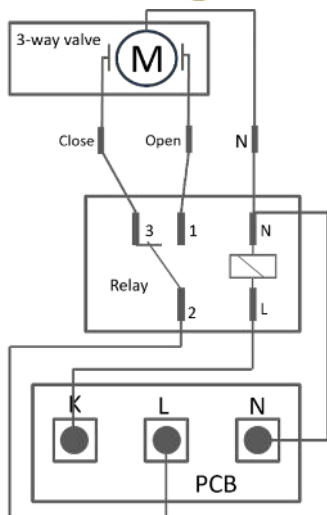


SPST

Wir empfehlen ein 3-Wege-Ventil mit Federrückstellung.

Das Ventil benötigt ein 230-Volt-Signal von K (Spannung) nach N (Neutral), um das Ventil in den Warmwasserbetrieb zu schalten. Wenn keine Warmwasseranforderung vorliegt, wird das Ventil nicht mit Strom versorgt, sodass es mithilfe der Rückstellfeder in den Heizbetrieb zurückkehrt.

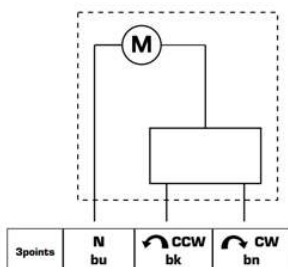
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



SPDT

Wenn Sie ein 3-Wege-Ventil ohne Federrückstellung verwenden, müssen Sie ein bauseitiges Relais hinzufügen. Die Leiterplatte hat nur einen Ausgang, kann also das Ventil nicht öffnen und schließen.

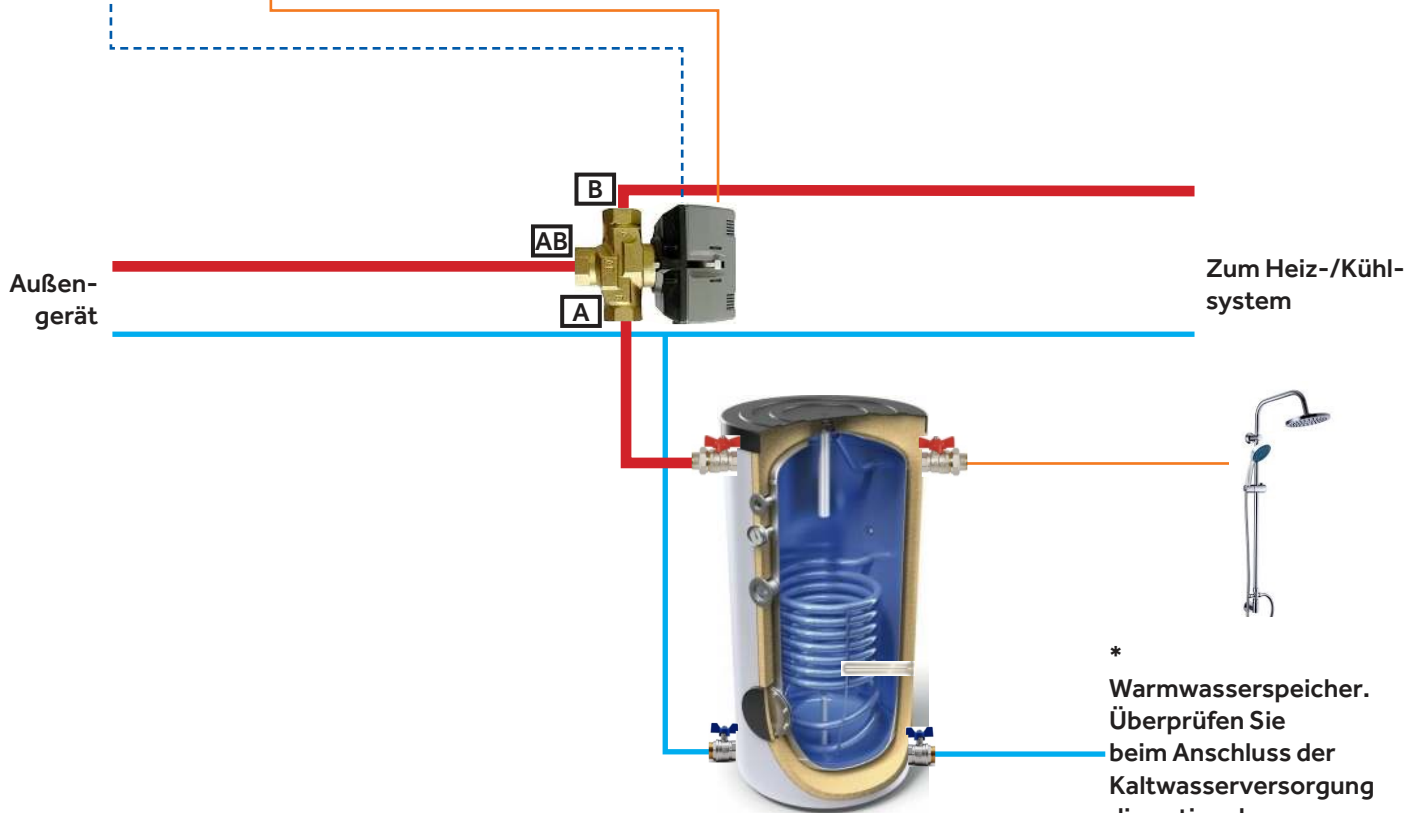
Verwenden Sie L und N von der Platine, um die Relaisspule zu betätigen, und verdrahten Sie das Ventil mit dem Relais, wie im Diagramm dargestellt.



4.2.2. VEREINFACHTES ANSCHLUSSSCHEMA

Anschlussplatine

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



* ANSCHLÜSSE FÜR BEREICH 1 UND 2, SIEHE KAPITEL 2.0 UND 3.0

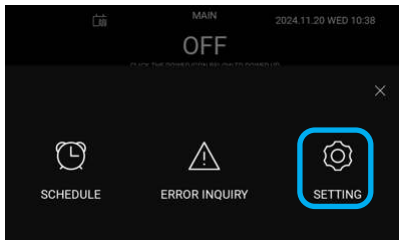
* Warmwasserspeicher. Überprüfen Sie beim Anschluss der Kaltwasserversorgung die nationalen Vorschriften.

4.2.3. CONTROLLER-EINSTELLUNGEN

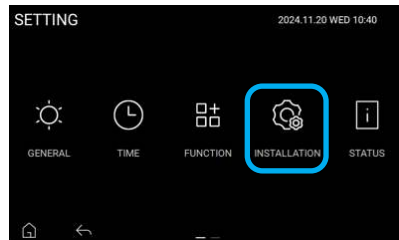
Systeminstallation – Haupteinstellungen



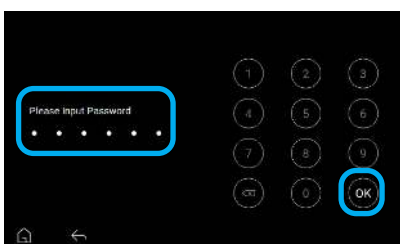
1



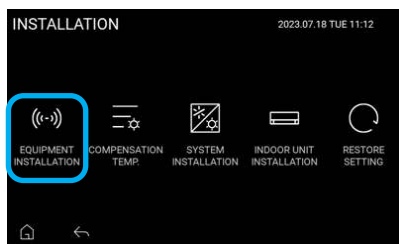
2



3



4 * Kennwort "841226" OK



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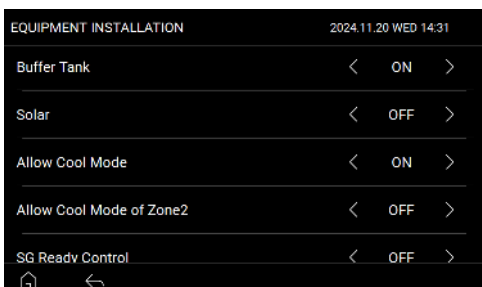


- ON
- OFF
- OFF
- ON

* WÄHLEN SIE ON, UM BEREICH 1 ZU AKTIVIEREN

* WÄHLEN SIE ON, UM DEN PUFFERTANK ZU BERÜCKSICHTIGEN

Funktion	Parameterbereich	Einstellungen
Bereich 1	ON/OFF	ON
DHW	ON/OFF	ON



- OFF
- OFF
- ON/OFF
- OFF

* WÄHLEN SIE ON, UM DAS TANKHEIZGERÄT ZUZULASSEN

Funktion	Parameterbereich	Einstellungen
Kühlmodus zulassen	ON/OFF	ON

* DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.



- ← 0°C
- ← 10 Min.
- ← ON
- ← 3.0 kW

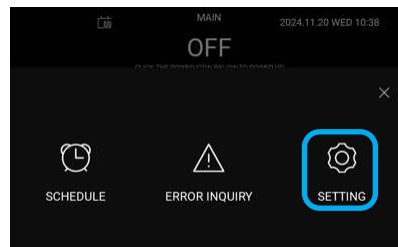
*** GEBEN SIE DIE LEISTUNG DES TANKHEIZGERÄTS EIN**

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

Funktion	Parameterbereich	Einstellungen
Tankheizgerät zulassen	ON/OFF	ON
Leistung des Tankheizgeräts	0.0–9.0 kW	3.0 kW



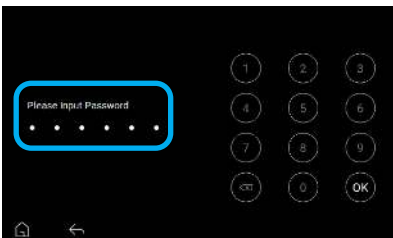
1



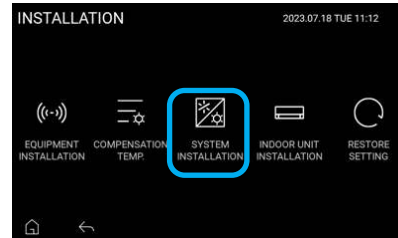
2



3



4 * Kennwort "841226"



5



- ← Haupt-Controller
- ← Haupt-Controller
- ← Haupt-Controller
- ← Haupt-Controller

*** WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 1**
*** AUSWAHL DER REGULIERUNGSART FÜR WARMWASSER**

Funktion	Parameterbereich	Einstellungen
Steuerungsmodus von Bereich 1	Hauptsteuergerät, Steuergerät eines Drittanbieters, IDU-Umgebungstemperatursensor	Haupt-Controller
Regulierungsmodus für Warmwasser	Hauptsteuergerät, Steuergerät eines Drittanbieters, IDU-Umgebungstemperatursensor	Haupt-Controller



*** WÄHLEN SIE DHW ON TEMP**

*** WÄHLEN SIE DELTA T° FÜR HEIZUNG ON**

MIT DIESER EINSTELLUNG WIRD DEM GERÄT MITGETEILT, AUF WELCHE TEMPERATUR DAS WASSER FALLEN MUSS, BEVOR ES MIT DER AUFHEIZUNG DES WARMWASSERSPEICHERS BEGINNT.

Funktion	Parameterbereich	Einstellungen
Warmwasser ON-Temperatur	30–75°C	45°C
ΔT für Heizung ON	0–15°C	6°C



*** TEMPERATUR DER TANK-WIEDERAUFHEIZUNG EINSTELLEN**

Funktion	Parameterbereich	Einstellungen
Tank-Wiederaufheiztemperatur	-12–2°C	-3°C



Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

Funktion	Parameterbereich	Einstellungen
DT für Kühlung ON	0–15°C	5°C

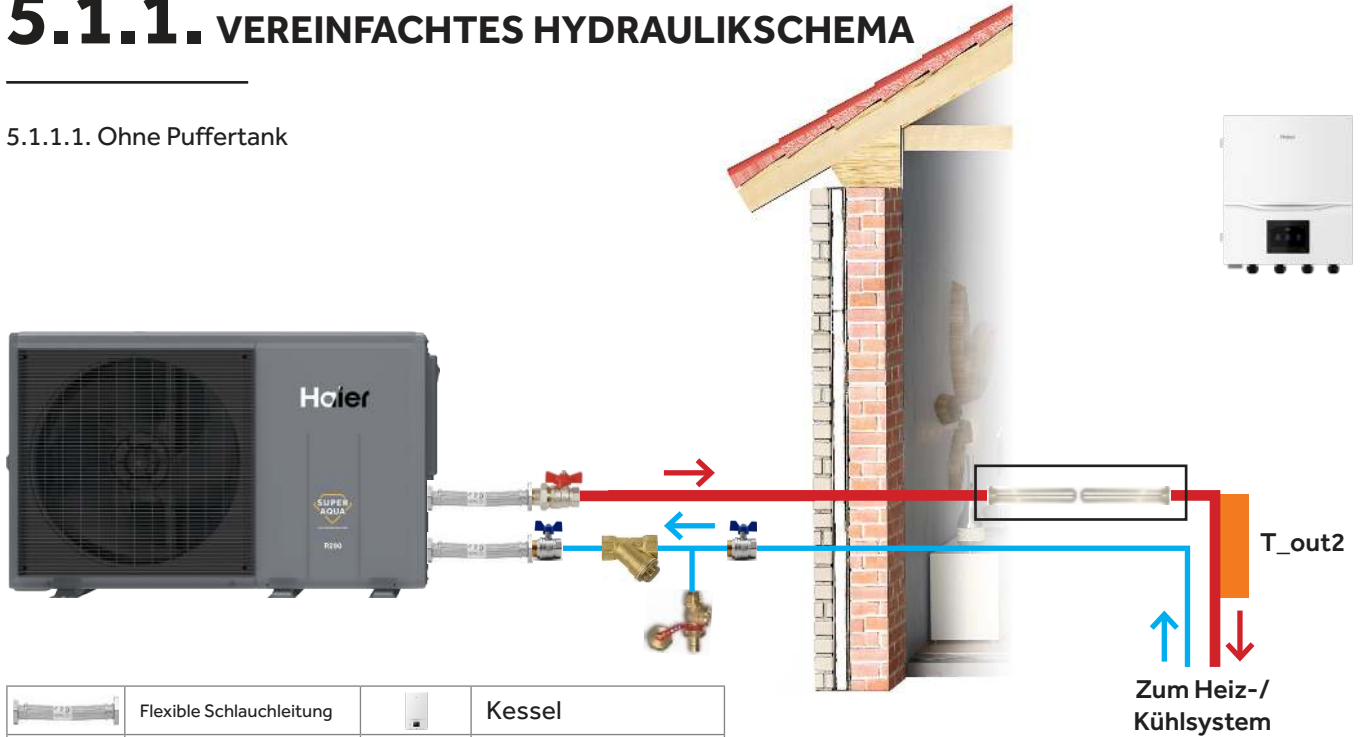
*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**










5.0. ANSCHLUSS EINER ZUSÄTZLICHEN WÄRMEQUELLE

5.1. ELEKTRISCHES HEIZGERÄT

5.1.1. VEREINFACHTES HYDRAULIKSCHEMA

5.1.1.1. Ohne Puffertank

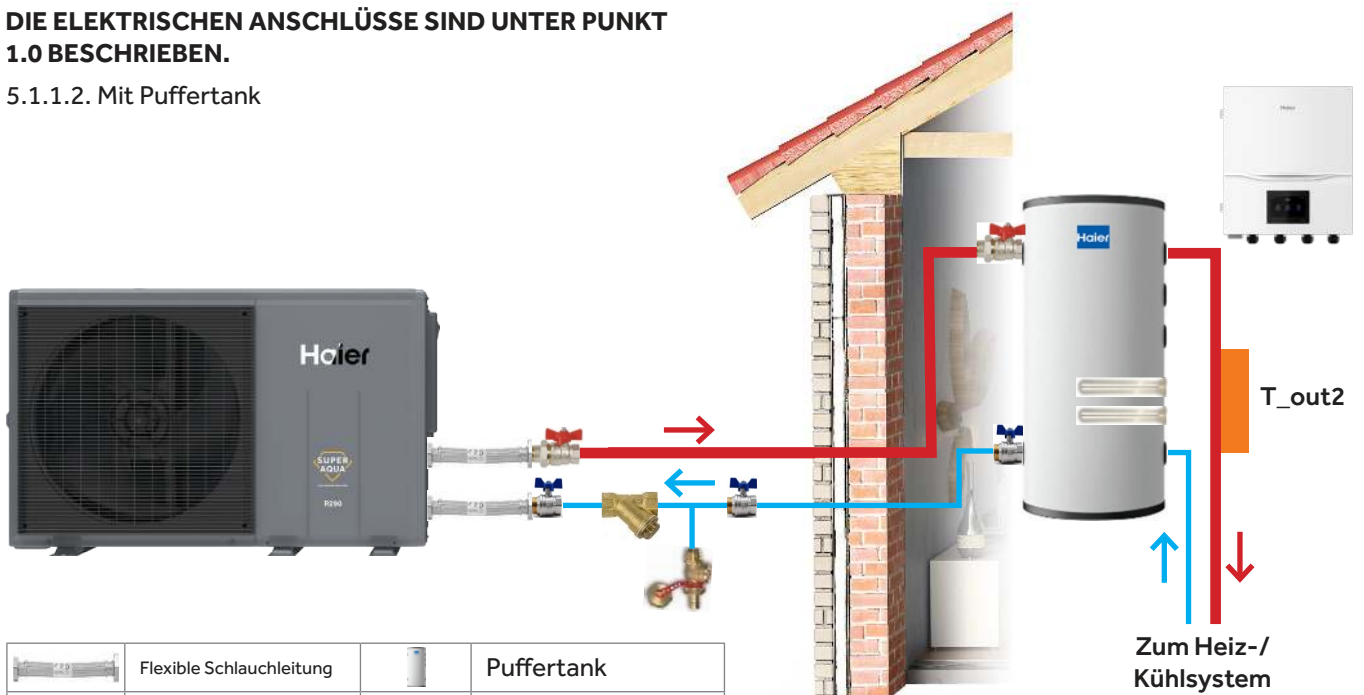







	Flexible Schlauchleitung		Kessel
	Kugelventil		Wasserdurchfluss
	Kugelventil		Wasserrückfluss
	Wasserfilter		Elektrisches Heizgerät
	Ablassventil		

ALLE DIAGRAMME UND ZUBEHÖRTEILE SIND NUR EIN BEISPIEL FÜR DIE INSTALLATION UND MÜSSEN IN ÜBEREINSTIMMUNG MIT DEN ÖRTLICHEN VORSCHRIFTEN AUSGEFÜHRT WERDEN.

DIE ELEKTRISCHEN ANSCHLÜSSE SIND UNTER PUNKT 1.0 BESCHRIEBEN.

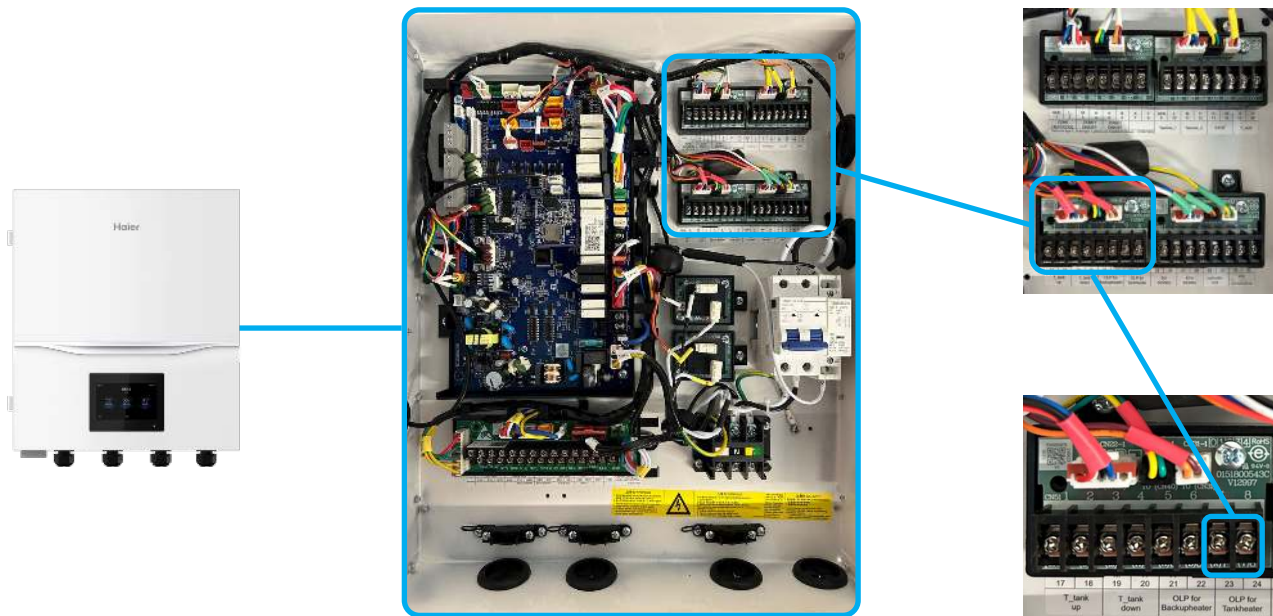
5.1.1.2. Mit Puffertank



	Flexible Schlauchleitung		Puffertank
	Kugelventil		Wasserdurchfluss
	Kugelventil		Wasserrückfluss
	Wasserfilter		Elektrisches Heizgerät
	Ablassventil		

5.1.2. ANSCHLÜSSE

Temperatursensor für zusätzliche Wärmequelle



Anschlussplatine 2

Anschlussplatine

9	10	11	12	13	14	15	16
GND	L	M	H	A		X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

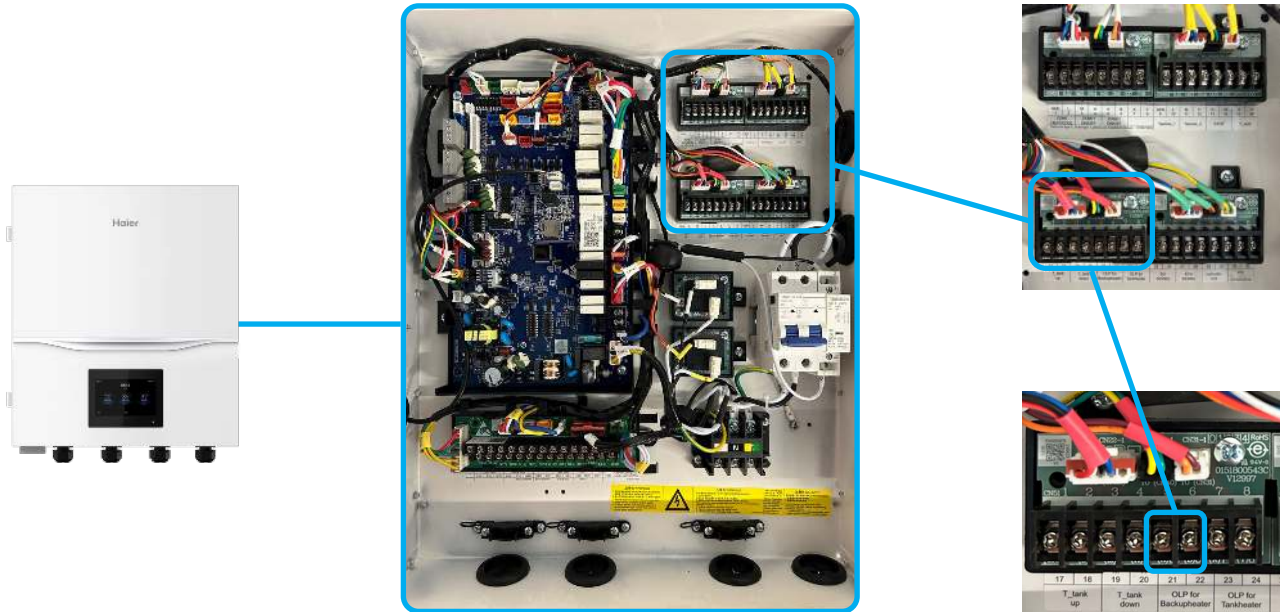
Auf der Anschlussplatine Nummer 2 zwischen den Klemmen 15 (X) und 16 (Y) können wir den Wassertemperaturfühler für T_out2 anschließen.

*Wenn wir das zusätzliche Heizgerät aktivieren, ist es zwingend erforderlich, den T_out2-Sensor nach der zusätzlichen Wärmequelle anzuschließen.

Ein E02-Fehler tritt auf, wenn T_out 2 nicht angeschlossen ist.

5.1.2. ANSCHLÜSSE

Schutz der elektrischen Heizung für die zusätzliche Wärmequelle



Anschlussplatine 3

Anschlussplatine

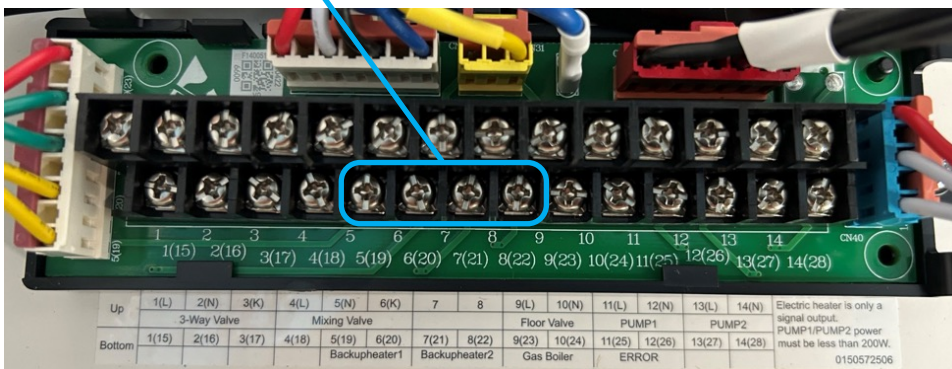
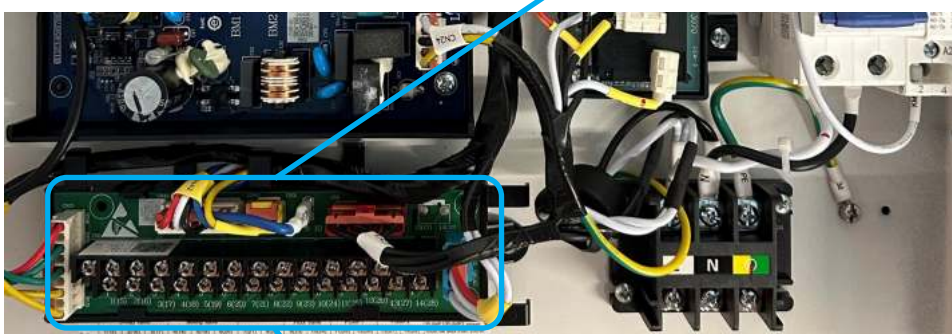
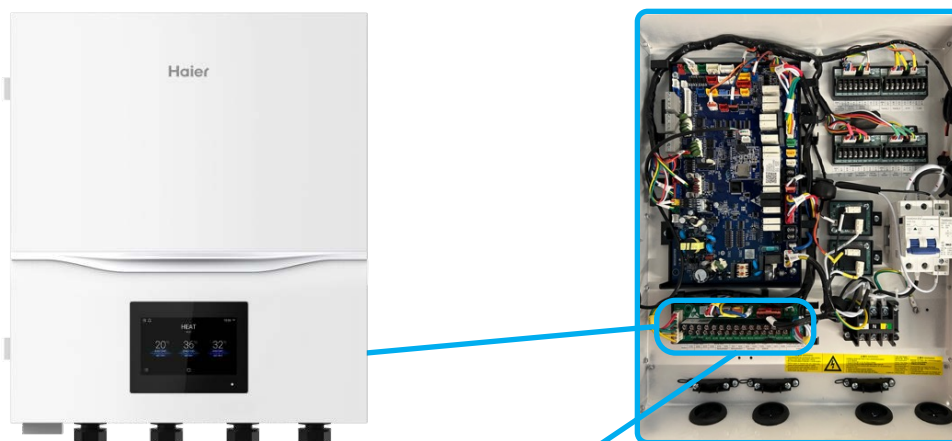
17	18	19	20	21	22	23	24
GND	L	M	H	A	B	X	Y
T_tank up		T_tank down		OLP-Hilfsmittel Heizgerät		OLP für Tankheizgeräte	

Schließen Sie auf der Anschlussplatine Nr. 3, zwischen den Klemmen 21 (A) und 22 (B) den elektrischen Heizungsschutz für die zusätzliche Wärmequelle an.

Es handelt sich um ein digitales Eingangssignal, normalerweise geschlossener, spannungsfreier Kontakt, d.h. wenn der Kontakt geschlossen ist, liegt kein Fehler vor; wenn der Kontakt geöffnet ist, liegt ein Fehler vor.

Wenn das Zusatzheizgerät über einen eigenen OLP verfügt, können Sie hier eine Steckbrücke einsetzen.

Steuersignal für zusätzliche Wärmequelle



Anschlussplatte 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact		Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			



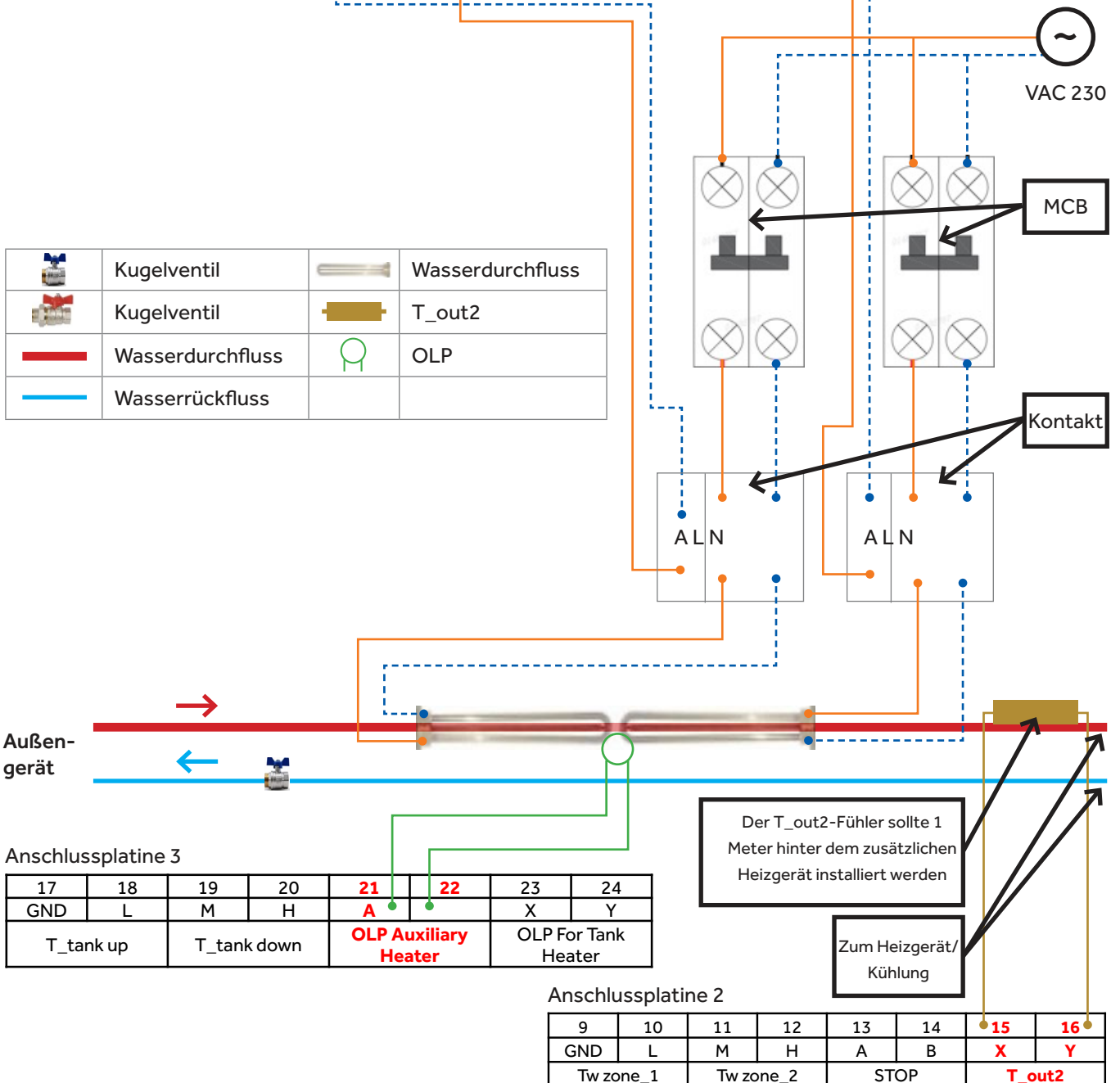
Auf der Anschlussplatte Nr. 5 können wir zwischen den Klemmen 5(19) und 6(20) das Signal für das Relais für das Heizgerät 1 und zwischen den Klemmen 5(19) und 6(20) das Signal für das Relais für das Heizgerät 2 anschließen. Beide Anschlüsse haben eine Ausgangsspannung von 230VAC zur Ansteuerung eines Relais.

*Diese Verbindung muss über ein Relais hergestellt werden.

5.1.3. VEREINFACHTES ANSCHLUSSSCHEMA

5.1.3.1. Ohne Puffertank

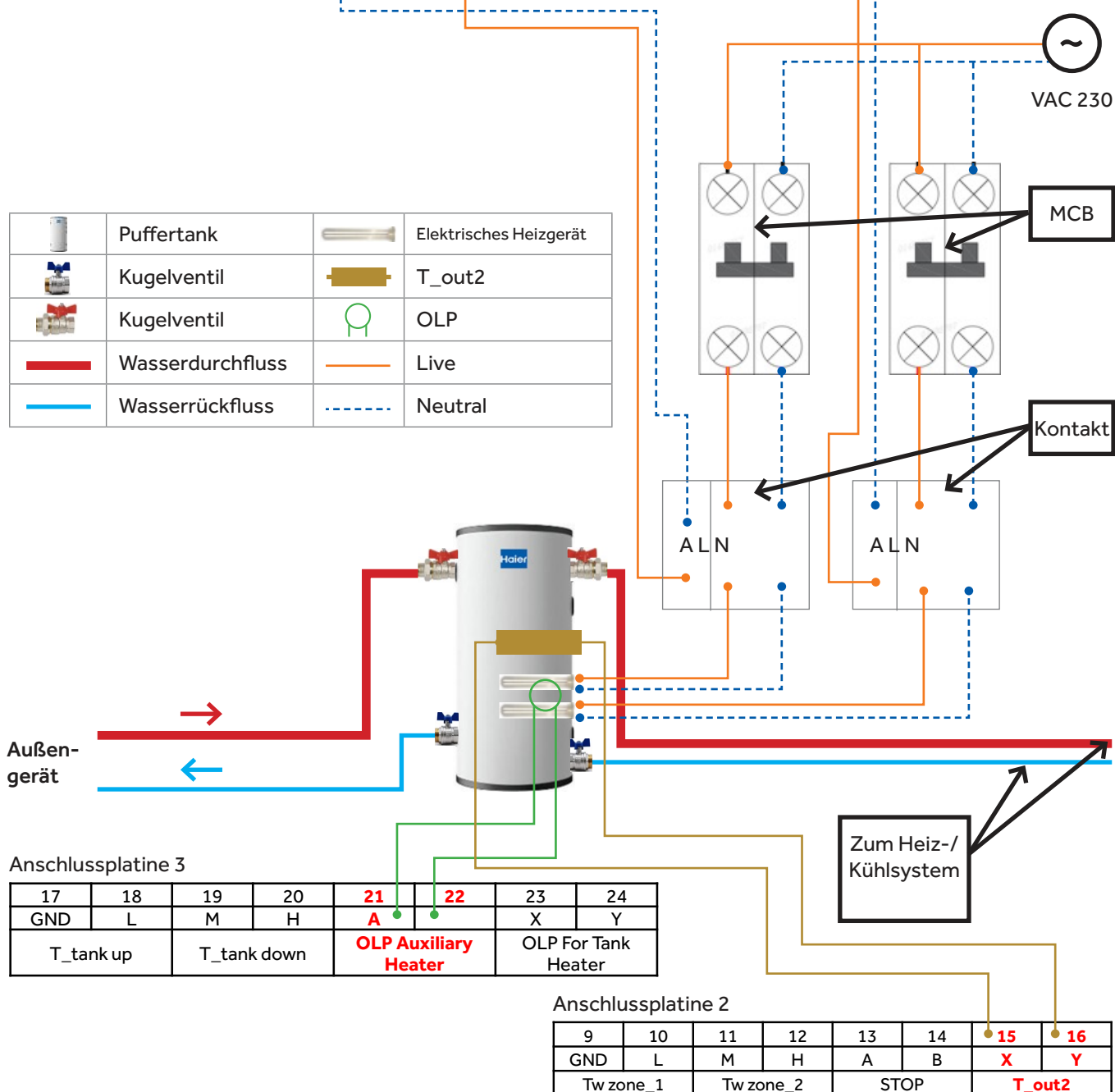
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			



5.1.3. MIT PUFFERTANK

5.1.3.2. Mit Puffertank

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

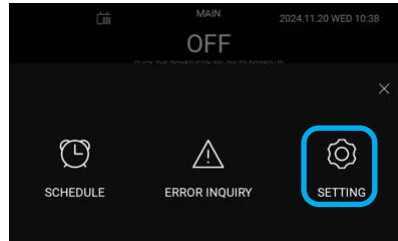


5.1.4. CONTROLLER-EINSTELLUNGEN

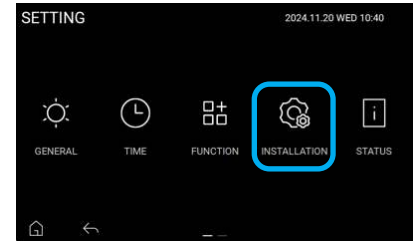
Geräteinstallation – Haupteinstellungen



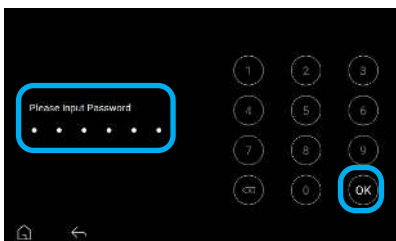
1



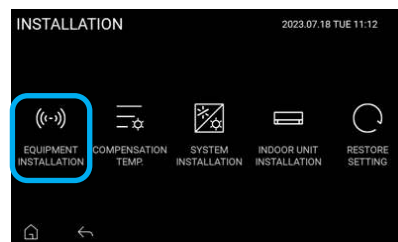
2



3



4 * Kennwort "841226" OK



5



← ON
← OFF
← OFF
← OFF

*** WÄHLEN SIE ON, UM BEREICH 1 ZU AKTIVIEREN**

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

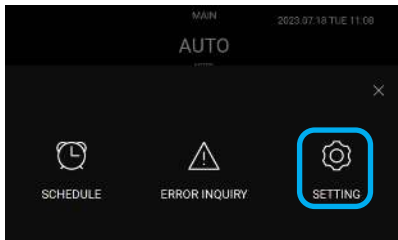
Funktion	Parameterbereich	Einstellungen
Bereich 1	ON/OFF	ON

*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

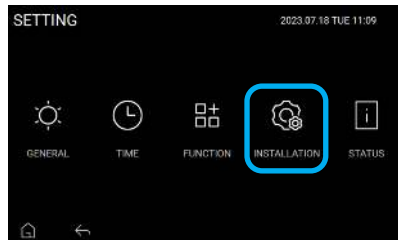
Systeminstallation – Haupteinstellungen



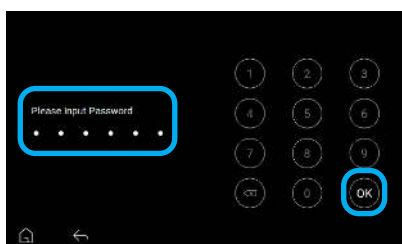
1



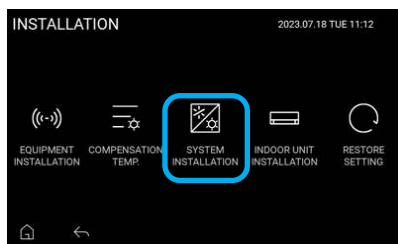
2



3



4 * Kennwort "841226" OK



5



← Haupt-Controller

*** WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 1**

← Haupt-Controller

← Hauptcontroller Hauptcontroller

←

Funktion	Parameterbereich	Einstellungen
Steuerungsmodus von Bereich 1	Haupt-Controller Controller eines Drittanbieters	Haupt-Controller



← Elektrisches Heizgerät und Kessel

*** WÄHLEN SIE DIE ZUSÄTZLICHE WÄRMEQUELLE**

← 15°C

← 10°C

Funktion	Parameterbereich	Einstellungen
Zusätzliche Wärmequelle	Heizgerät und Heizkessel, Elektroheizkessel	Elektrisches Heizgerät und Kessel

*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

Systeminstallation – Haupteinstellungen



← 45°C
 ← 27°C
 ← 6°C
 ← 0°C

***SCHALTEN SIE DIE RAUMTEMPERATUR (AMBIENT) FÜR HEIZUNG AUF OFF**
***STELLEN SIE DEN DT° FÜR HEIZUNG ON**

Funktion	Parameterbereich	Einstellungen
Umgebungstemp. des Heizgeräts OFF	5–35°C	27°C
ΔT für Heizung ON	0–15°C	6°C



← 60 Min.
 ← -3°C
 ← -1°C
 ← -3°C

***EINSTELLEN DER HEIZUNGSVERZÖGERUNGSZEIT NACH KOMPRESSORSTART**

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

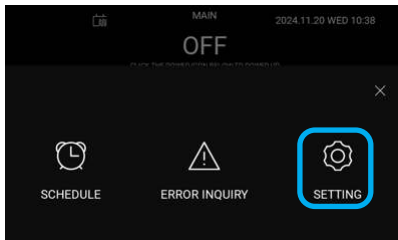
Funktion	Parameterbereich	Einstellungen
Einschaltverzögerung für das Heizgerät	0–120min	60 Min.
Heizung ON ΔT der Solltemperatur	-10--2°C	-3°C
Heizung Off ΔT der Solltemperatur	-8–0°C	-1°C

*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

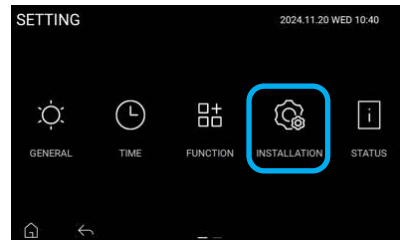
Innengerät Installation Haupteinstellungen



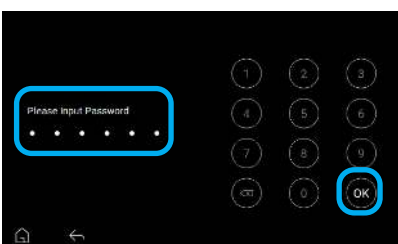
1



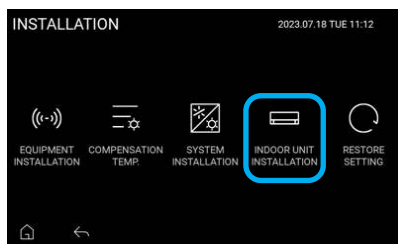
2



3



4 * Kennwort "841226" OK



5



← Heizgerät 1 & 2

← Normal

← OFF

← Auto

*** WÄHLEN SIE DIE HEIZUNG ÜBER HEIZGERÄT 1, 2 ODER 1 UND 2**

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren








Funktion	Parameterbereich	Einstellungen
Auswahl des IDU-Elektroheizertyps	Keines, Heizgerät 1, Heizgerät 2, Heizgerät 1 & 2	Heizgerät 1 & 2

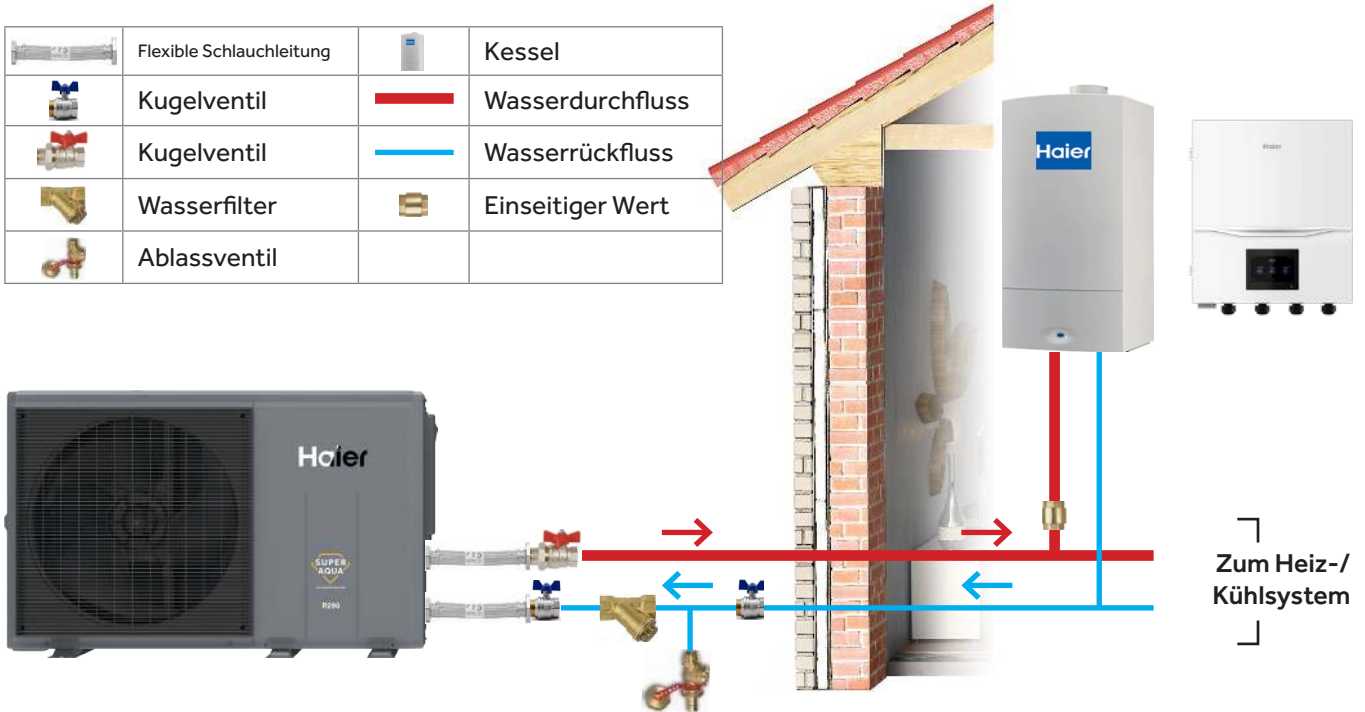
*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

5.2. KESSEL

5.2.1. VEREINFACHTES HYDRAULIKSCHEMA

5.2.1.1. Ohne Puffertank










	Flexible Schlauchleitung		Kessel
	Kugelventil		Wasserdurchfluss
	Kugelventil		Wasserrückfluss
	Wasserfilter		Einseitiger Wert
	Ablassventil		

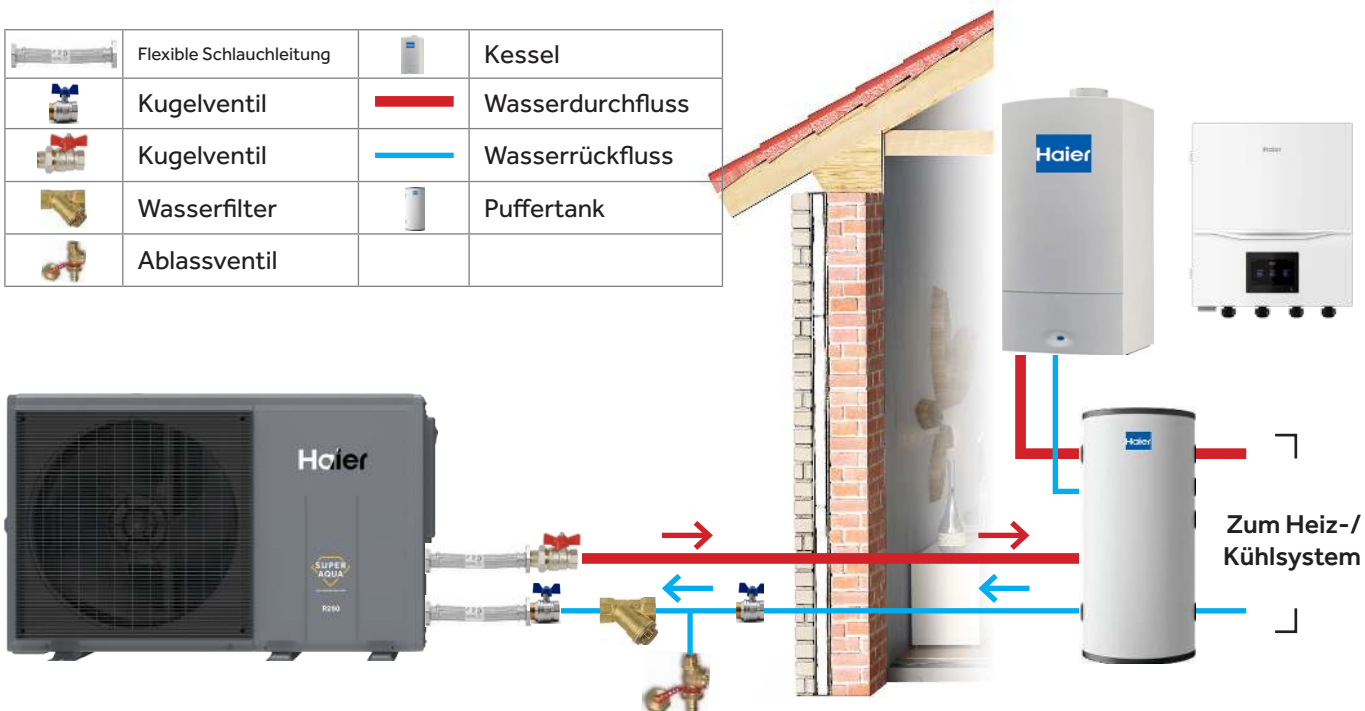


DIE ELEKTRISCHEN ANSCHLÜSSE SIND UNTER PUNKT 1.0 BESCHRIEBEN.

ALLE DIAGRAMME UND ZUBEHÖRTEILE SIND NUR EIN BEISPIEL FÜR DIE INSTALLATION UND MÜSSEN IN ÜBEREINSTIMMUNG MIT DEN ÖRTLICHEN VORSCHRIFTEN AUSGEFÜHRT WERDEN.

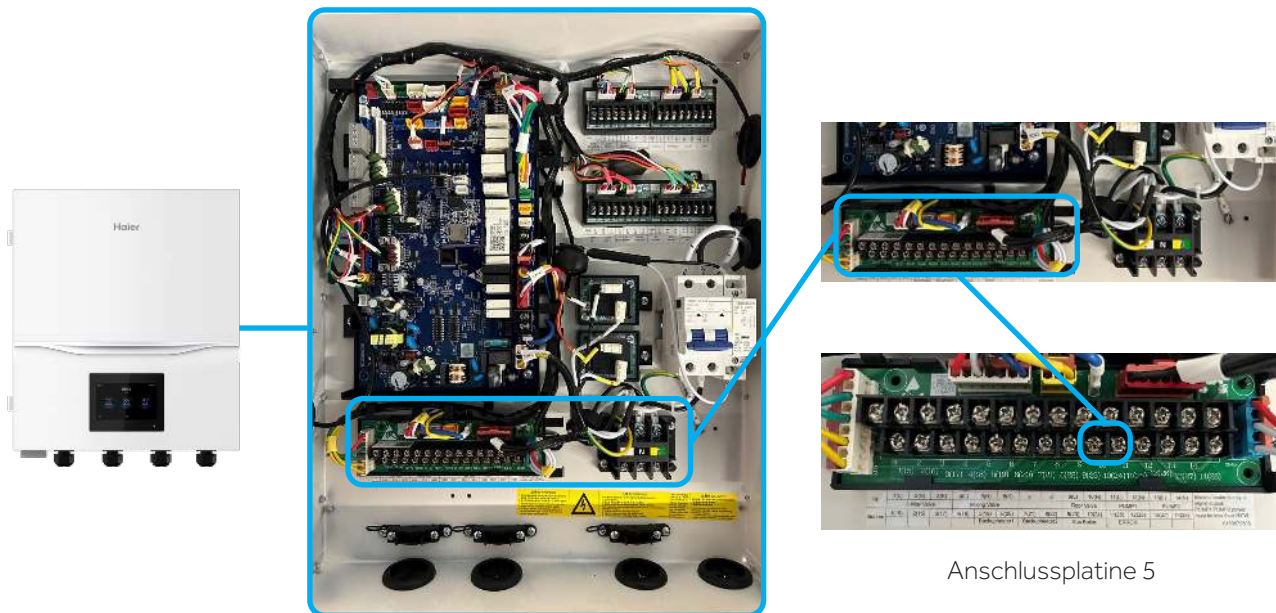
5.2.1.2. Mit Puffertank

	Flexible Schlauchleitung		Kessel
	Kugelventil		Wasserdurchfluss
	Kugelventil		Wasserrückfluss
	Wasserfilter		Puffertank
	Ablassventil		



5.2.2. ANSCHLÜSSE

Gaskessel-Steuersignalausgang für zusätzliche Wärmequelle



Anschlussplatine 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Volt-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							

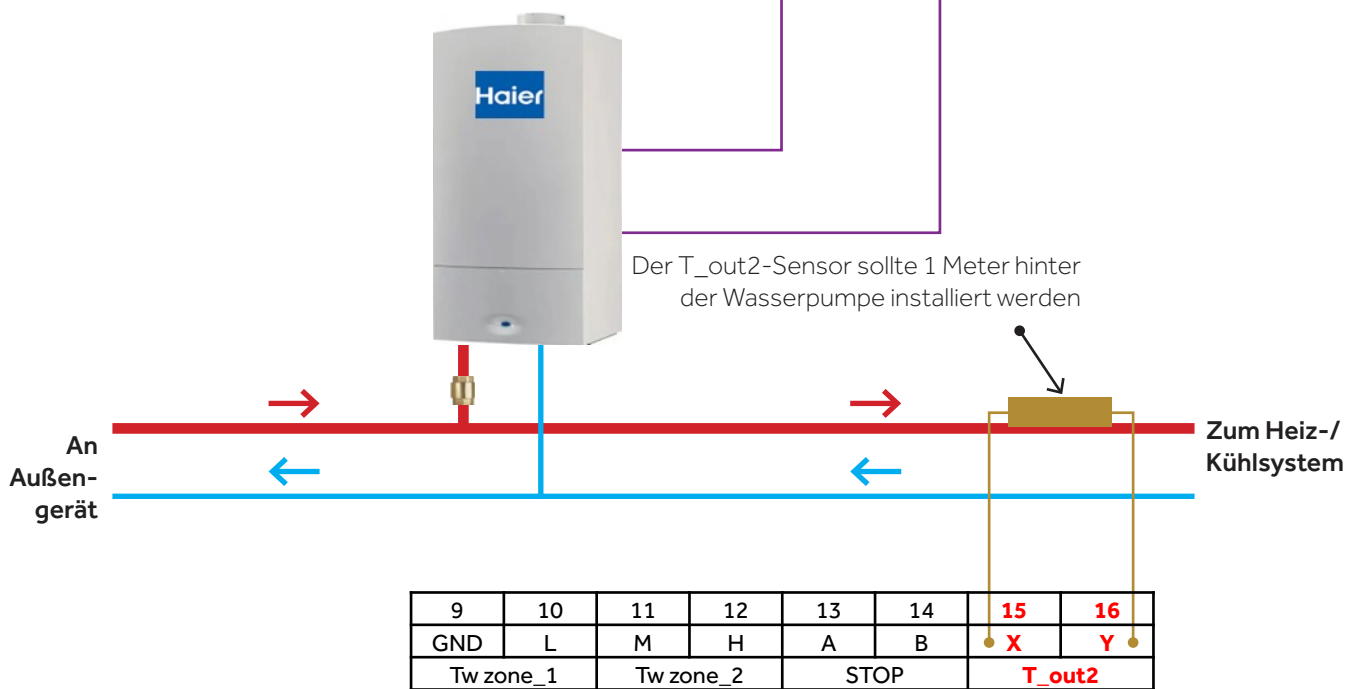


Auf der Anschlussplatine Nr. 5 zwischen den Klemmen 9(23) und 10 (24) muss das Signal zur Aktivierung des Kessels angeschlossen werden. Es handelt sich um ein digitales Ausgangssignal, d. h. wenn der Kontakt geschlossen ist, ist der Kessel ON, wenn der Kontakt geöffnet ist, ist der Kessel OFF.

5.2.3. VEREINFACHTES ANSCHLUSSSCHEMA

5.2.3.1. Ohne Puffertank

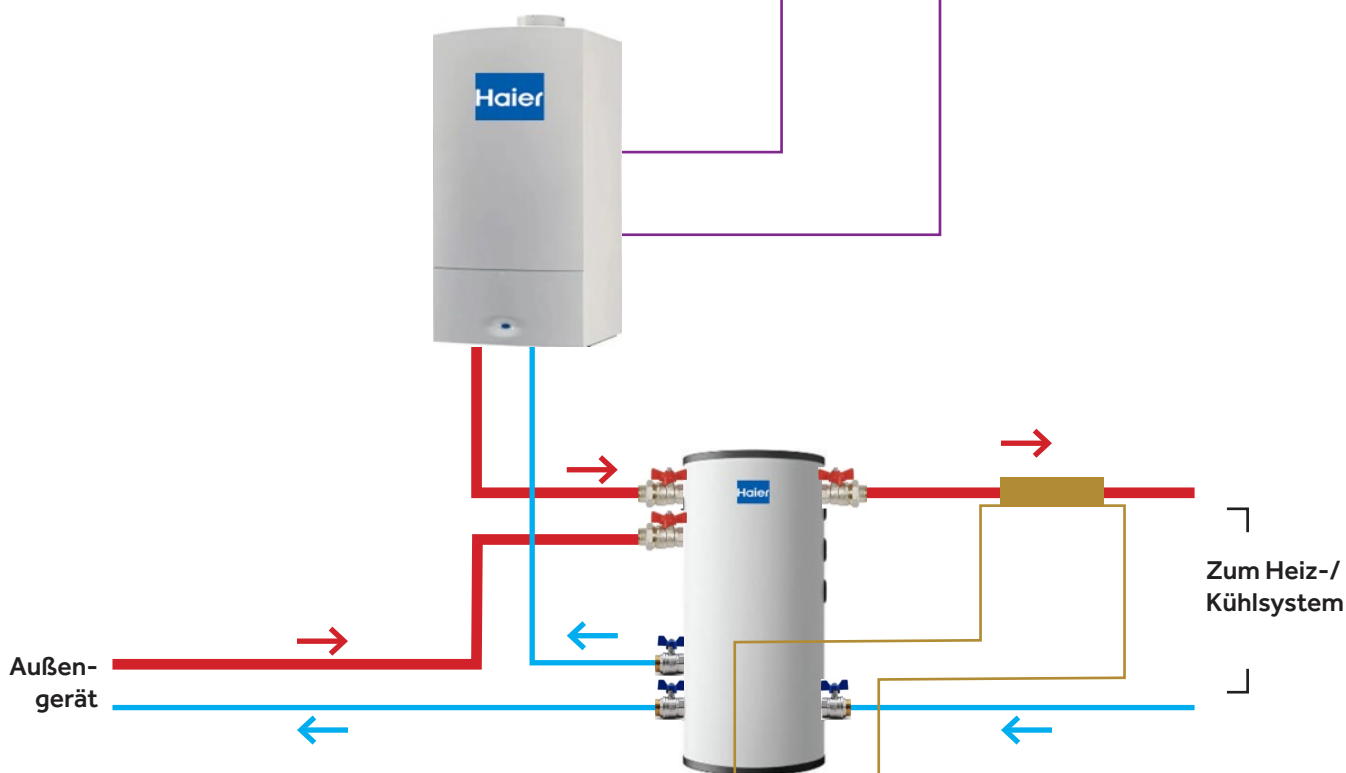
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							



	Kessel		Einseitiger Wert
	Kugelventil		T_out2
	Kugelventil		
	Wasserdurchfluss		
	Wasserrückfluss		

5.2.3.2. Mit Puffertank

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

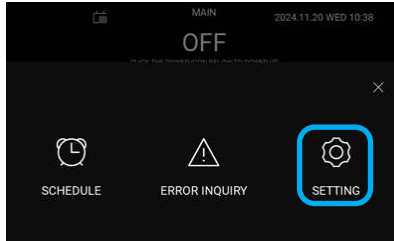
	Kessel		Puffertank
	Kugelventil		T_out2
	Kugelventil		
	Wasserdurchfluss		
	Wasserrückfluss		

5.2.4. CONTROLLER-EINSTELLUNGEN

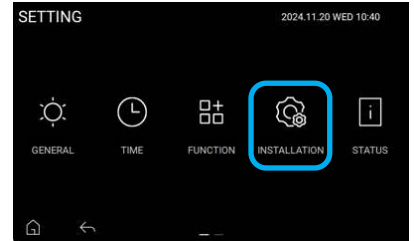
Geräteinstallation – Haupteinstellungen



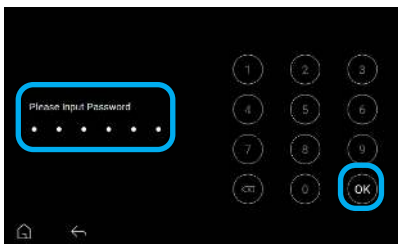
1



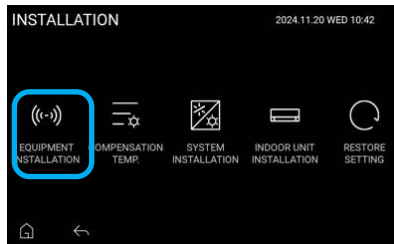
2



3



4 * Kennwort "841226" OK



5



← On
← Off
← Off
← Off

***WÄHLEN SIE ON, UM BEREICH 1 ZU AKTIVIEREN**

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

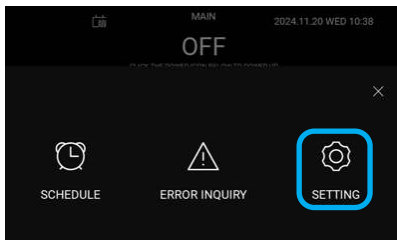
Funktion	Parameterbereich	Einstellungen
Bereich 1	ON/OFF	ON

*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

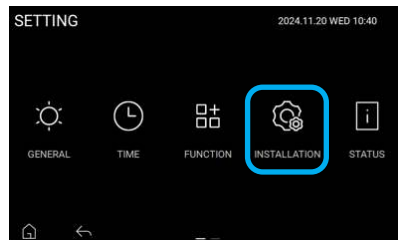
Systeminstallation – Haupteinstellungen



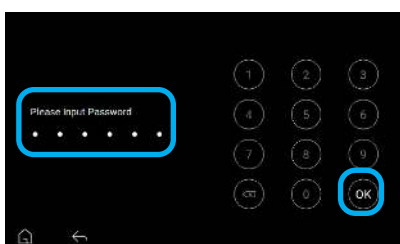
1



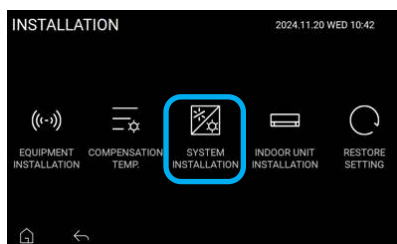
2



3



4 * Kennwort "841226" OK



5



← Haupt-Controller

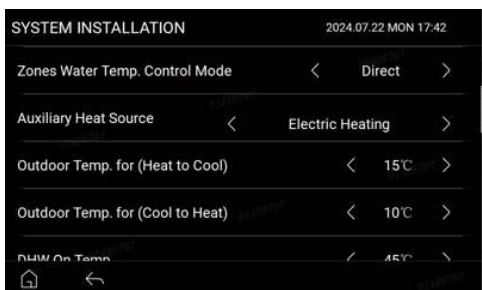
* WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 1

← Haupt-Controller

← Hauptcontroller Hauptcontroller

←

Funktion	Parameterbereich	Einstellungen
Steuerungsmodus von Bereich 1	Haupt-Controller Controller eines Drittanbieters	Haupt-Controller



← Elektrisches Heizgerät und Kessel

← 15°C

← 10°C

Funktion	Parameterbereich	Einstellungen
Zusätzliche Wärmequelle	Heizgerät und Heizkessel, Elektroheizkessel	Elektrisches Heizgerät und Kessel

* DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.

Systeminstallation – Haupteinstellungen



← 45°C

← 27°C

← 6°C

← 0°C

*** WÄHLEN SIE RAUMTEMPERATUR DES HEIZGERÄTS OFF**
*** WÄHLEN SIE ΔT° TEMP FÜR HEIZGERÄT ON**

Funktion	Parameterbereich	Einstellungen
Umgebungstemp. des Heizgeräts OFF	5–35°C	27°C
ΔT für Heizung ON	0–15°C	6°C



← 60 Min.

← -3°C

← -1°C

← -3°C

***EINSTELLEN DER HEIZUNGSVERZÖGERUNGSZEIT NACH KOMPRESSORSTART**

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

Funktion	Parameterbereich	Einstellungen
Einschaltverzögerung für das Heizgerät	0–120min	60 Min.
Heizung ON ΔT der Solltemperatur	-10--2°C	-3°C
Heizung OFF ΔT von Solltemp. -8–0°C -1°C	-8–0°C	-1°C

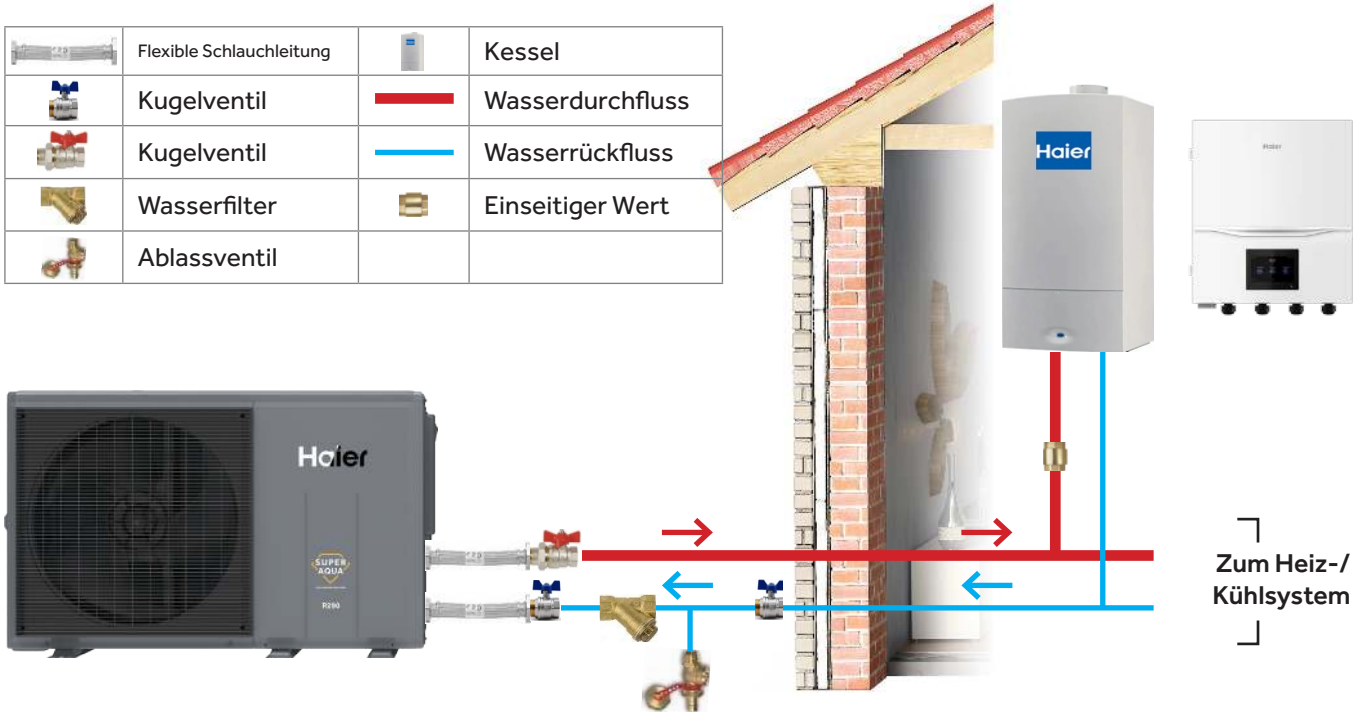
*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

5.3. BIVALENT

5.3.1. VEREINFACHTES HYDRAULIKSCHEMA

5.3.1.1. Ohne Puffertank

	Flexible Schlauchleitung		Kessel
	Kugelventil		Wasserdurchfluss
	Kugelventil		Wasserrückfluss
	Wasserfilter		Einseitiger Wert
	Ablassventil		

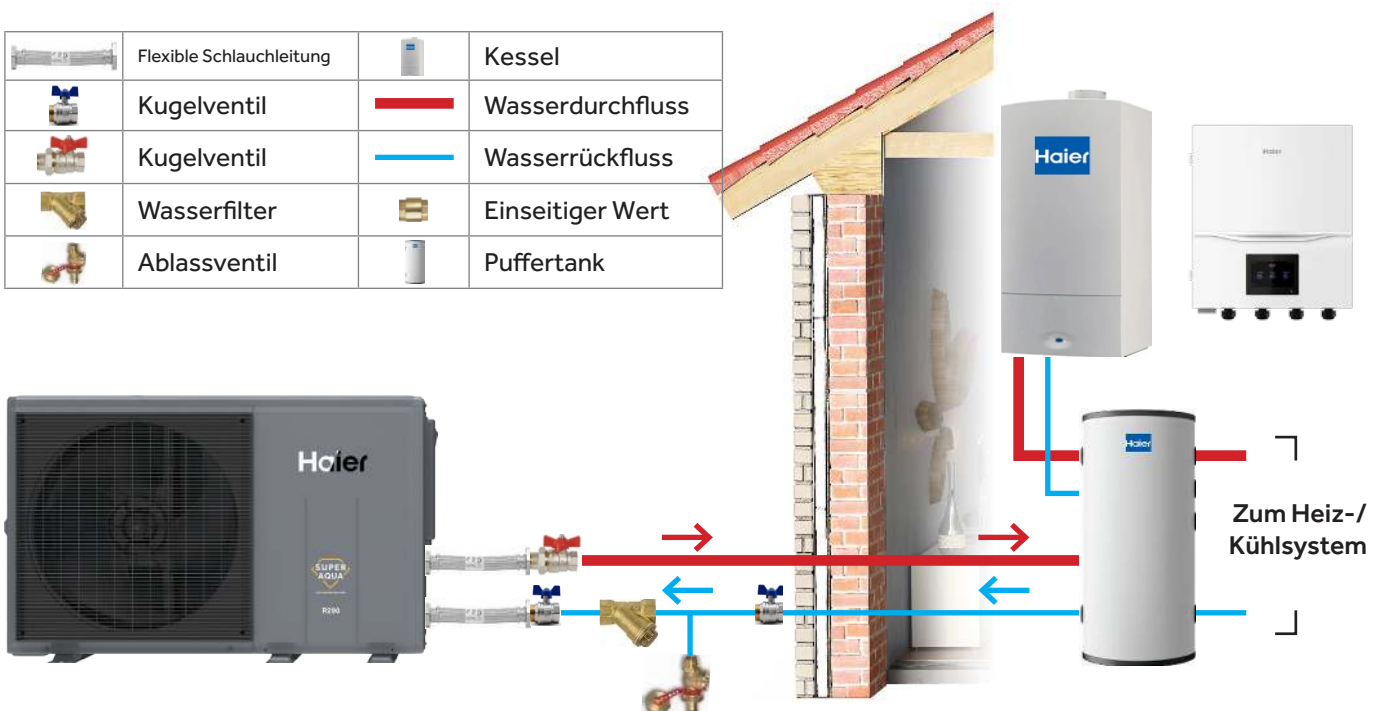


DIE ELEKTRISCHEN ANSCHLÜSSE SIND UNTER PUNKT 1.0 BESCHRIEBEN.

ALLE DIAGRAMME UND ZUBEHÖRTEILE SIND NUR EIN BEISPIEL FÜR DIE INSTALLATION UND MÜSSEN IN ÜBEREINSTIMMUNG MIT DEN ÖRTLICHEN VORSCHRIFTEN AUSGEFÜHRT WERDEN.

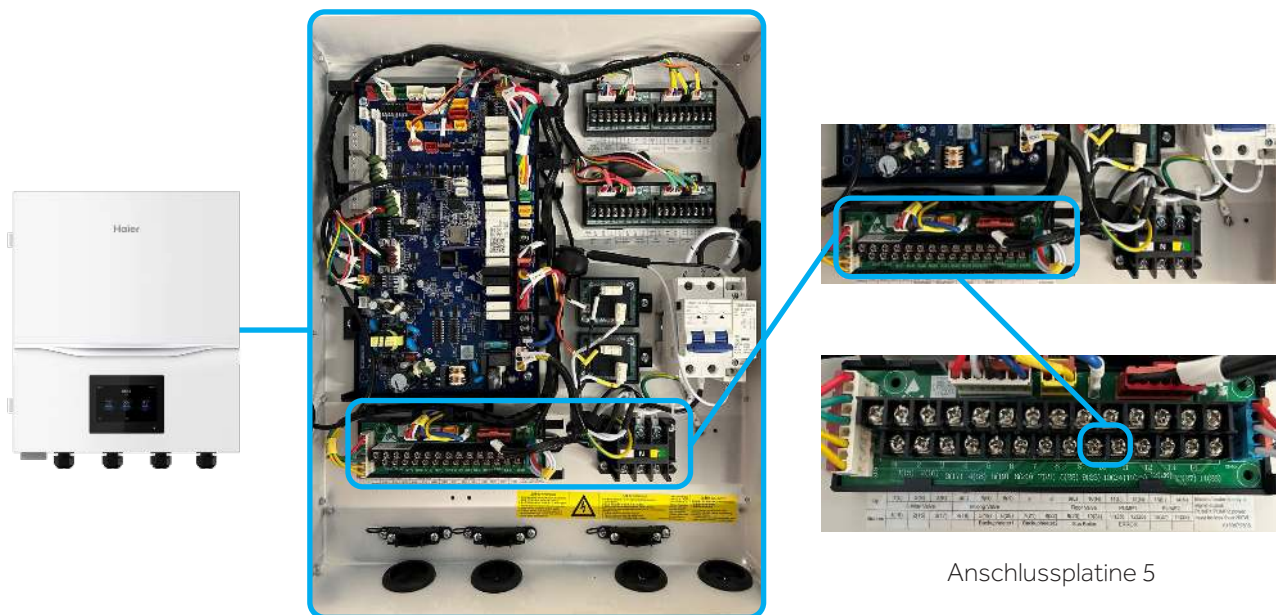
5.3.1.2. Mit Puffertank

	Flexible Schlauchleitung		Kessel
	Kugelventil		Wasserdurchfluss
	Kugelventil		Wasserrückfluss
	Wasserfilter		Einseitiger Wert
	Ablassventil		Puffertank



5.3.2. ANSCHLÜSSE

Gaskessel-Steuersignalausgang für zusätzliche Wärmequelle



Anschlussplatine 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

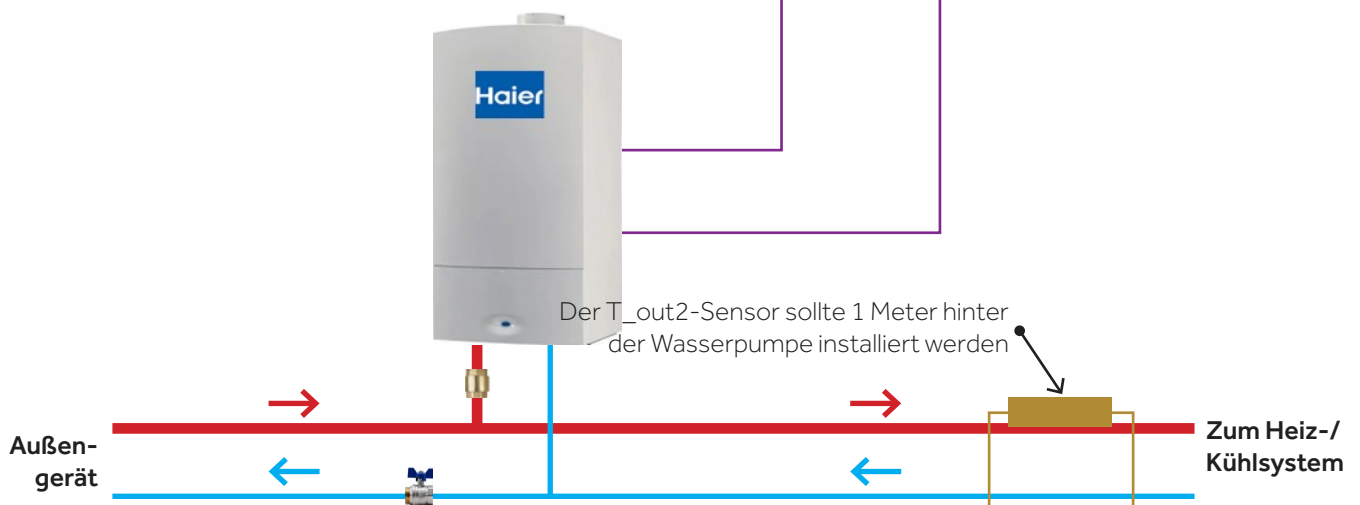


Auf der Anschlussplatine Nr. 5 zwischen den Klemmen 9(23) und 10 (24) muss das Signal zur Aktivierung des Kessels angeschlossen sein. Es handelt sich um ein digitales Ausgangssignal, d. h. wenn der Kontakt geschlossen ist, ist der Kessel ON, wenn der Kontakt offen ist, ist der Kessel OFF.

5.3.3. VEREINFACHTES ANSCHLUSSSCHEMA

5.3.3.1. Ohne Puffertank

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			

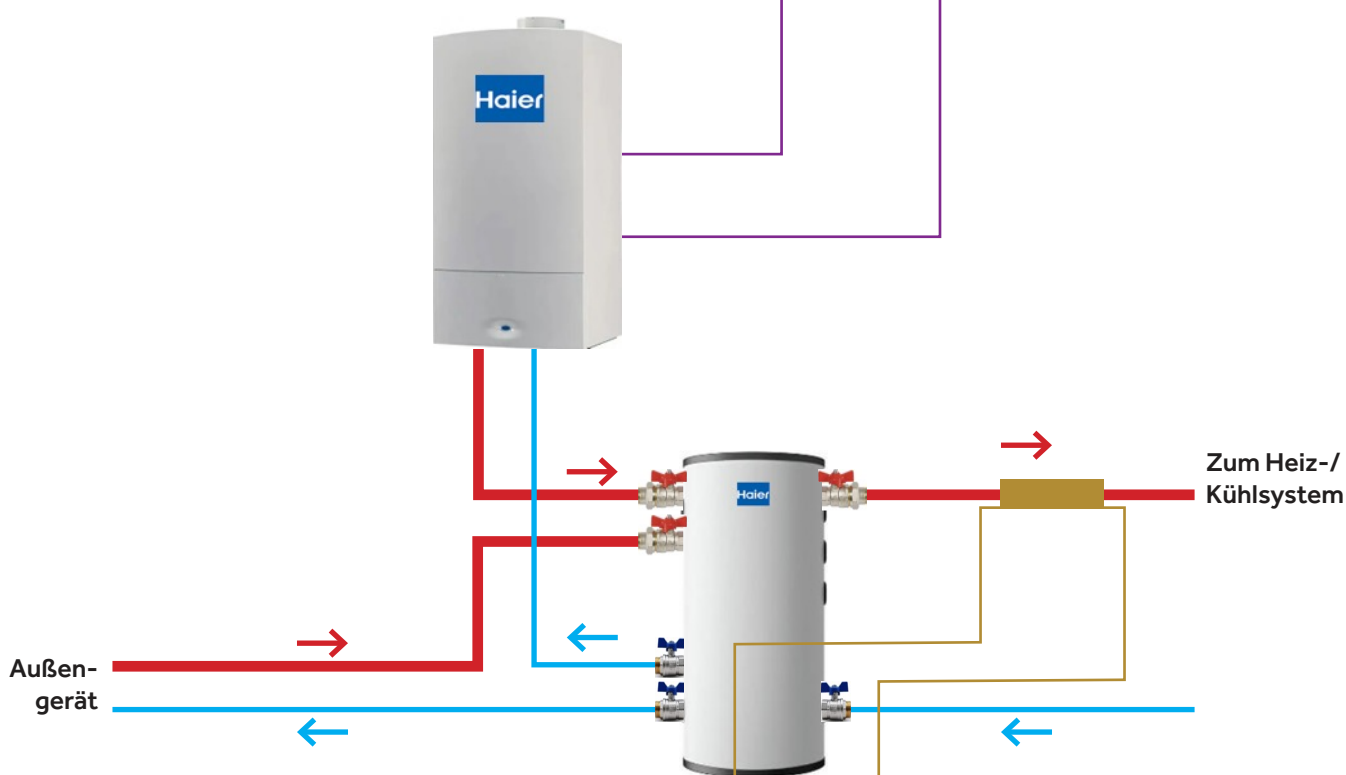


9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T _{out2}	

	Kessel		Einseitiger Wert
	Kugelventil		T _{out2}
	Kugelventil		
	Wasserdurchfluss		
	Wasserrückfluss		

5.3.3.2. Mit Puffertank

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

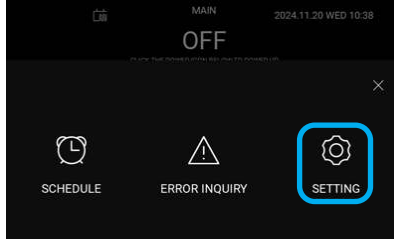
	Kessel		Puffertank
	Kugelventil		Einseitiger Wert
	Kugelventil		T_out2
	Wasserdurchfluss		
	Wasserrückfluss		

5.3.4. CONTROLLER-EINSTELLUNGEN

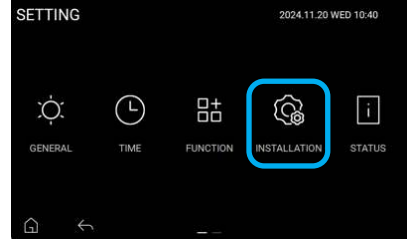
Geräteinstallation – Haupteinstellungen



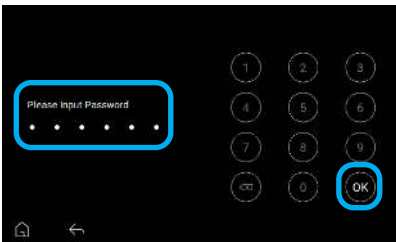
1



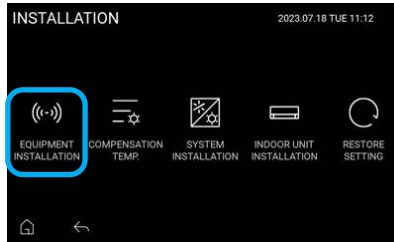
2



3



4 * Kennwort "841226" OK



5



← On
← Off
← Off
← Off

*** WÄHLEN SIE ON, UM BEREICH 1 ZU AKTIVIEREN**

Funktion	Parameterbereich	Einstellungen
Bereich 1	ON/OFF	ON



← 26°C
← 20°C
← On
← 0°C

*** WÄHLEN SIE ON, UM DEN BIVALENTEN ANSCHLUSS ZU AKTIVIEREN**
*** EINSTELLEN DER BIVALENTEN TEMPERATUR**

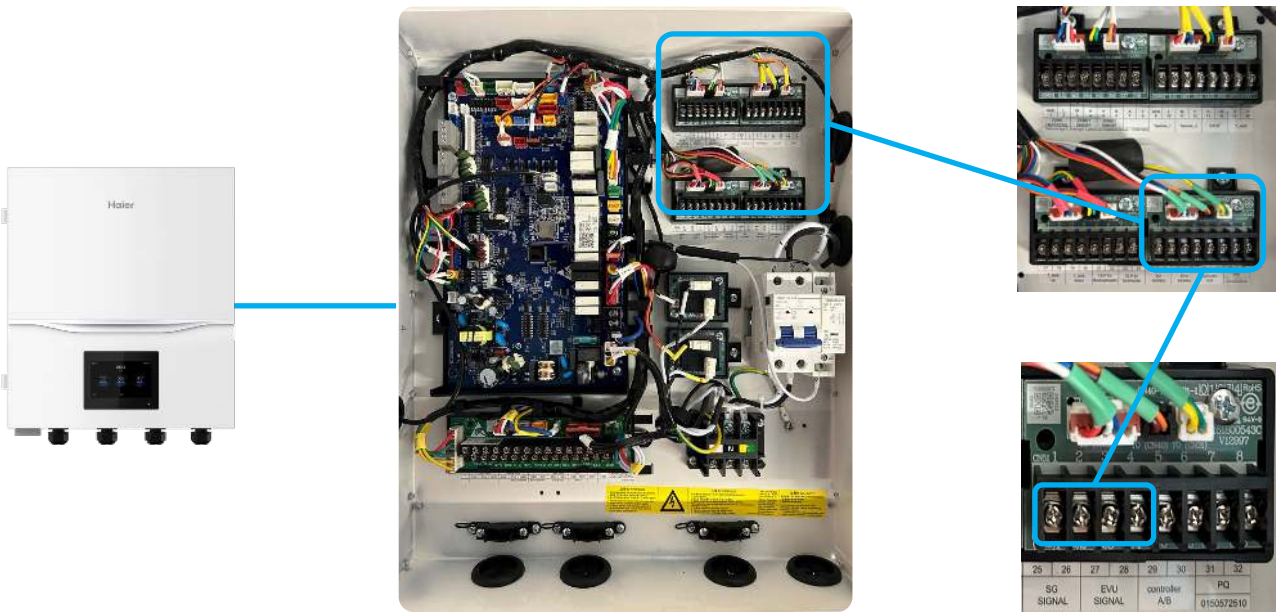
Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

Funktion	Parameterbereich	Einstellungen
Bivalenter Anschluss	ON/OFF	ON
Bivalente Temp.	-20°C–20°C	0°C

*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

6.0. SG READY - SMART GRID SG READY

6.1. ANSCHLÜSSE



Anschlussplatine 4

Anschlussplatine

25	26	27	28	29	30	31	32
GND	L	M	H	A		X	Y
SG-Signal		EVU-Signal		Controller A/B		PQ	
SG1		SG2					

Auf der Anschlussplatine Nr. 4 liegt zwischen den Klemmen 25 (GND) und 26 (L) ein spannungsfreies Signal für das Smart-Grid-Signal. Auch auf der Anschlussplatine Nummer 4 zwischen den Klemmen 27 (M) und 28 (H) haben wir ein spannungsfreies Signal für das EVU-Signal.

Beachten Sie, dass es eine Verzögerung von 10 Sekunden gibt, wenn das SG-Signal empfangen wird, bevor es auf dem Bildschirm erscheint.

Logische Steuerung

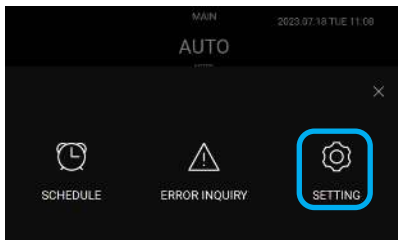
Statusanzeige am Controller	Signal-Eingang		Vorgang		
	SG-Signal	EVU-Signal	Heizen	Kühlen	Warmwasser
	Öffnen	Öffnen	Laufenden Vorgang beibehalten	Laufenden Vorgang beibehalten	Laufenden Vorgang beibehalten
SG1	Schließen	Öffnen	Wärmepumpe nicht verfügbar	Kühlmodus nicht verfügbar	Wärmepumpe nicht verfügbar
SG2	Öffnen	Schließen	+A°C bei aktueller Einstellungstemp. Anmerkung A: 2–6°C, kann am Regler eingestellt werden, Standard ist 4°C	+D°C bei aktueller Einstellungstemp. Anmerkung D: -2–6°C, kann am Regler eingestellt werden, Standard ist 4°C	+B°C bei aktueller Einstellungstemp. Anmerkung B: 4–8°C, kann am Regler eingestellt werden, Standard ist 4°C
Sg3	Schließen	Schließen	Wassertemperaturregelung, Änderung der Wassertemperatur auf Max. Heizung (außer Controller von Drittanbietern) Raumtemperaturregelung, Änderung der Einstellungstemperatur auf 26°C	Wassertemperaturregelung, Änderung der Wassertemperatur auf Min. Kühlung (außer Controller von Drittanbietern) Raumtemperaturregelung, Änderung der Einstellungstemperatur auf 20°C	Ändern Sie die Einstellungstemp. auf Max. Warmwasser-Einstellung

6.2. CONTROLLER-EINSTELLUNGEN

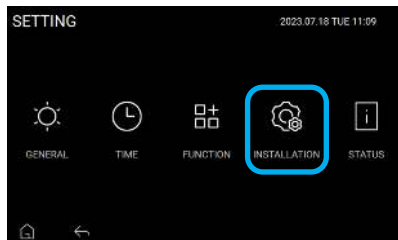
Geräteinstallation – Haupteinstellungen



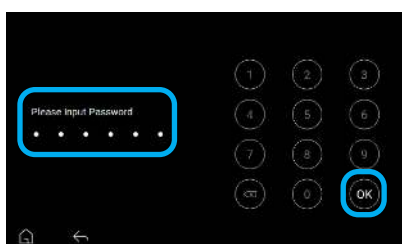
1



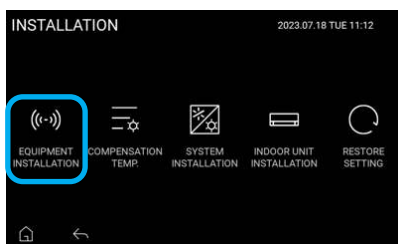
2



3



4 * Kennwort "841226" OK



5



- ← ON
- ← 4°C
- ← 6°C
- ← -4°C

***WÄHLEN SIE ON, UM SMART GRID ZU AKTIVIEREN**

STELLEN SIE HIER DIE TEMPERATUR EIN, BEI DER DAS GERÄT IM SMART GRID-MODUS LAUFEN SOLL

Funktion	Parameterbereich	Einstellungen
SG Ready Steuerung	ON/OFF	ON
SG2 Temp.-Ausgleich des Heizgeräts	2–6°C	4°C
SG2 Temp.-Ausgleich des Warmwassers	4–8°C	6°C
SG2 Temp.-Ausgleich der Kühlung	-2--6°C	-4°C



- ← 26°C
- ← 20°C
- ← On
- ← 0°C

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

Funktion	Parameterbereich	Einstellungen
SG3 Heiztemp.	16–30°C	26°C
SG3 Kühltemp.	16–30°C	20°C

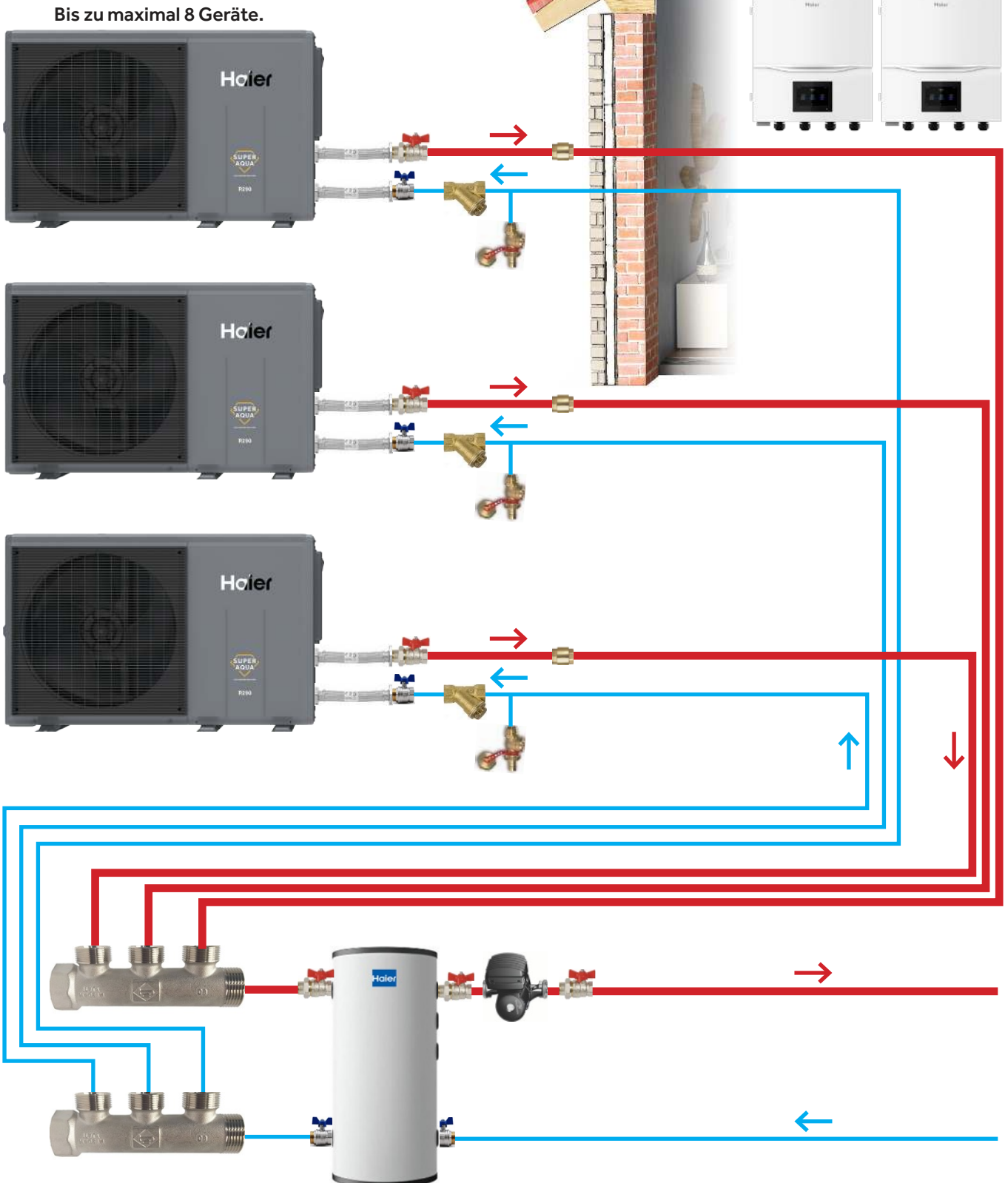
7.0. KASKADE

7.1. VEREINFACHTES HYDRAULIKSCHEMA

7.1.1. Ohne Warmwasser

Hinweis: Zu jedem Außengerät MUSS ein Innengerät ATW-A03 gehören

Bis zu maximal 8 Geräte.



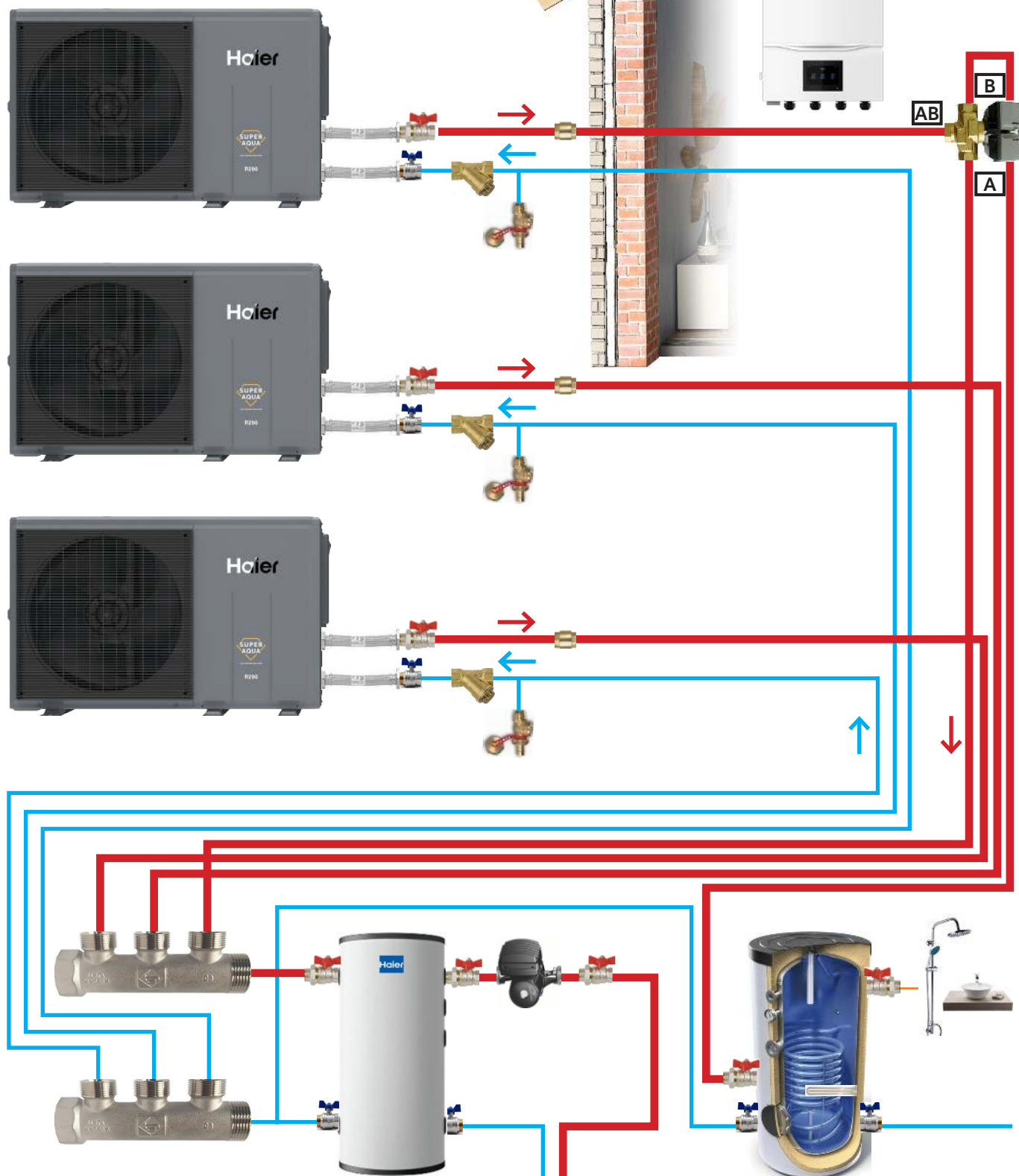
ALLE DIAGRAMME UND ZUBEHÖRTEILE SIND NUR EIN BEISPIEL FÜR DIE INSTALLATION UND MÜSSEN IN ÜBEREINSTIMMUNG MIT DEN ÖRTLICHEN VORSCHRIFTEN AUSGEFÜHRT WERDEN.

7.1.1. Mit Warmwasser

Hinweis: Zu jedem Außengerät MUSS ein Innengerät ATW-A03 gehören

Bis zu maximal 8 Geräte.

Bis zu maximal 8 Geräte.



Wichtig ist, dass alle Rohrleitungen und Pumpen, die das Heizsystem speisen, entsprechend der Leistung des Heizsystems dimensioniert sind

* Warmwasserspeicher. Überprüfen Sie beim Anschluss der Kaltwasserversorgung die nationalen Vorschriften.

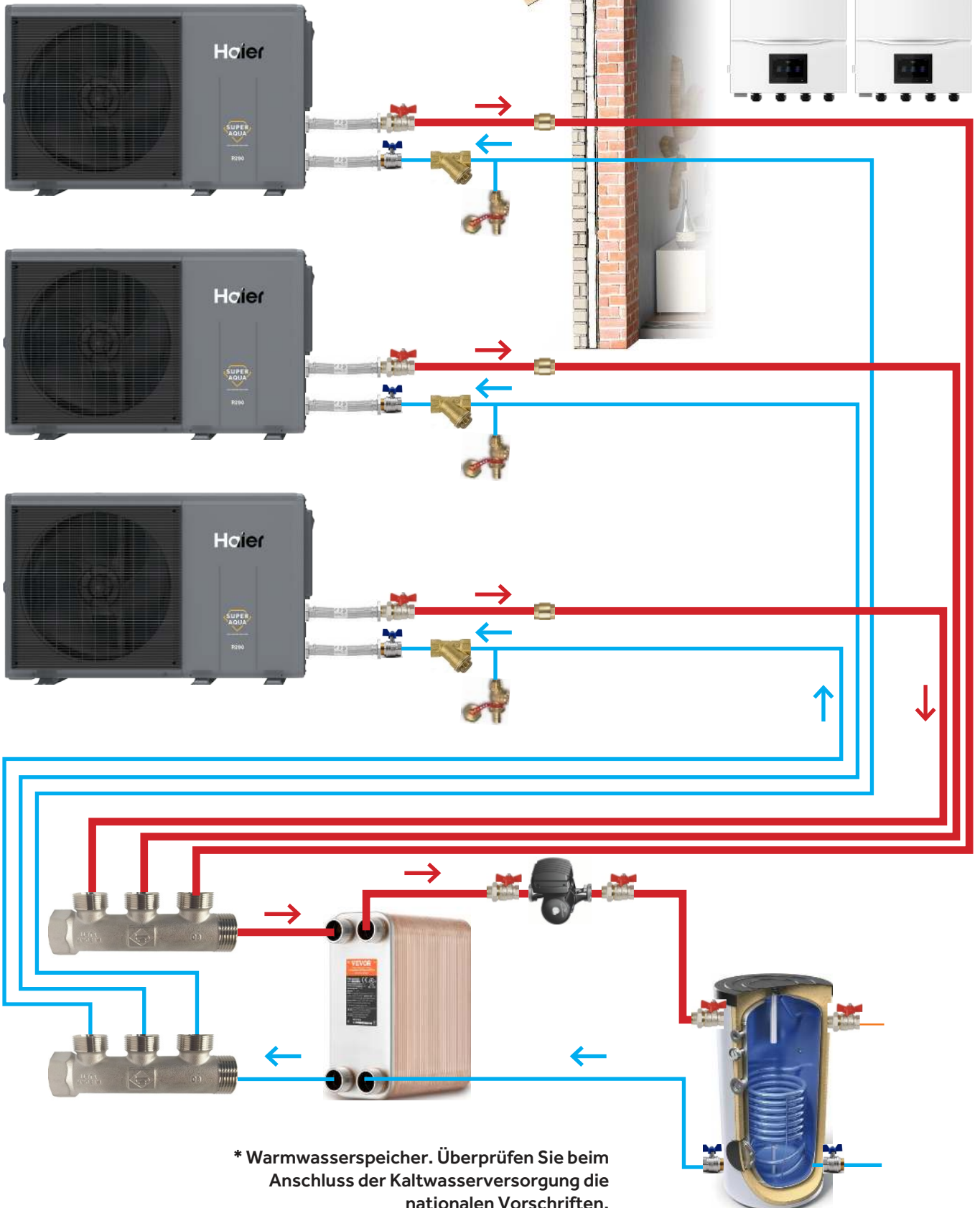
ALLE DIAGRAMME UND ZUBEHÖRTEILE SIND NUR EIN BEISPIEL FÜR DIE INSTALLATION UND MÜSSEN ENTSPRECHEND DER GÄNGIGEN PRAXIS AUSGEFÜHRT WERDEN.

7.1.1. Nur Warmwasser

Hinweis: Zu jedem Außengerät MUSS ein Innengerät ATW-A03 gehören

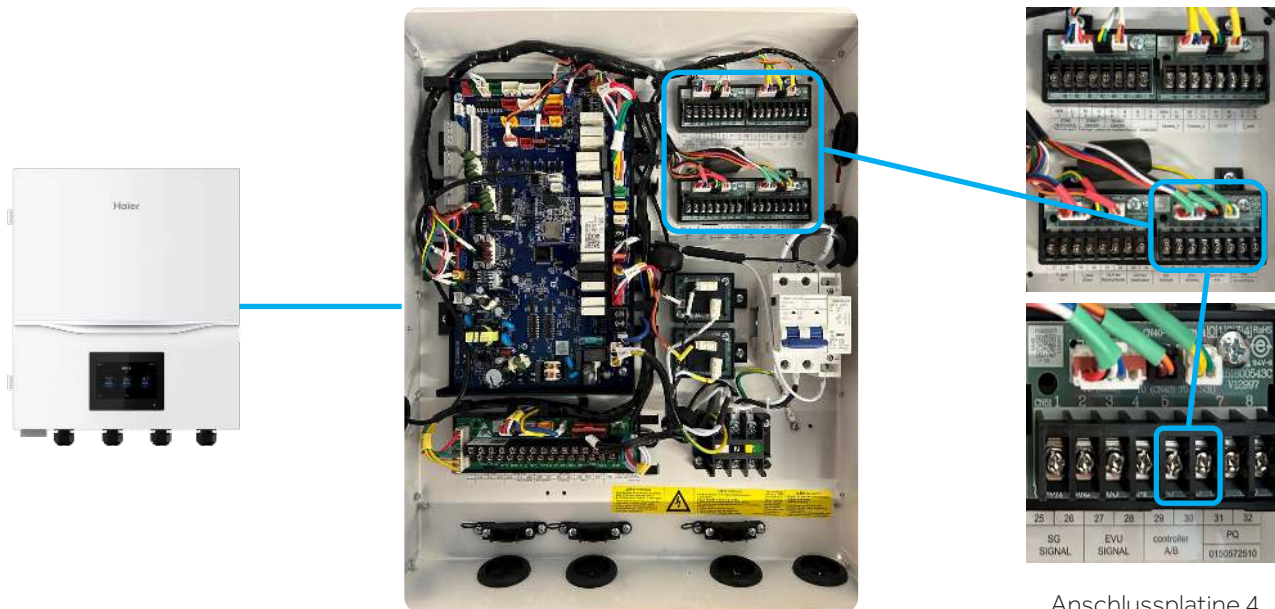
Bis zu maximal 8 Geräte.

Bis zu maximal 8 Geräte.



7.2. ANSCHLUSS

Verdrahtungsanschluss Main & Sub



Anschlussplatine 4

Anschlussplatine 4 - Main

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG-Signal		EVU-Signal		Controller A/B		PQ	

Auf der Anschlussplatine 4 der Haupteinheit wird zwischen den Klemmen 29 (A) und 30 (B) die Buskommunikation mit den Untereinheiten angeschlossen.

Anschlussplatine 4 - Sub 1

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG-Signal		EVU-Signal		Controller A/B		PQ	

Auf der Anschlussplatine 4 der Sub 1-Einheit wird zwischen den Klemmen 29 (A) und 30 (B) die Buskommunikation mit den Haupt- und Untereinheiten angeschlossen.

Anschlussplatine 4 - Sub 2

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG-Signal		EVU-Signal		Controller A/B		PQ	

Bis zu maximal 8 Geräte.

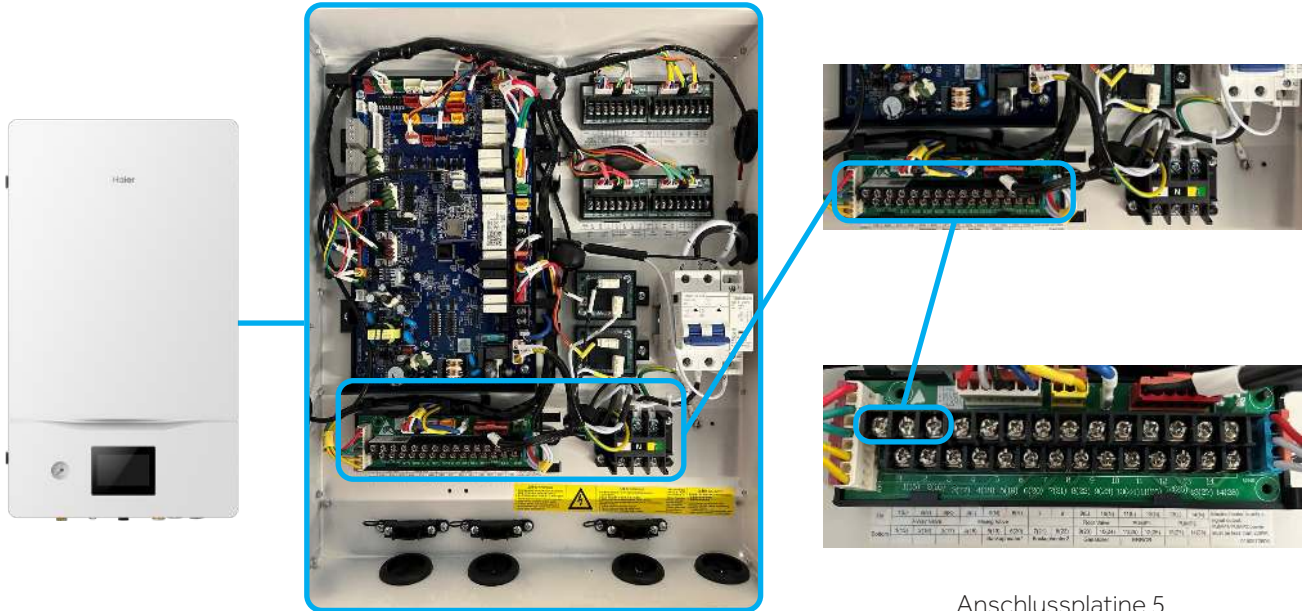
Auf der Anschlussplatine 4 der Sub 2-Einheit wird zwischen den Klemmen 29 (A) und 30 (B) die Buskommunikation mit den Haupt- und Untereinheiten angeschlossen.

* Der Verbindungsbus zwischen ATW-A03N und ATW-A03N muss mit einem abgeschirmten Kabel von 2 x 0,75 mm ausgeführt werden.

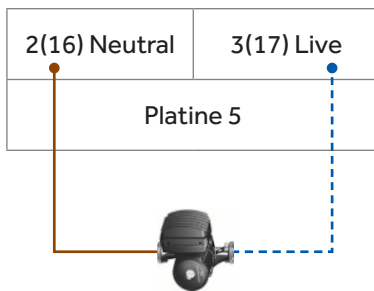
* Der Anschluss muss als serieller Anschluss hergestellt werden. Die Sternschaltung ist verboten.

7.2. ANSCHLUSS

Nur Warmwasser - Wasserpumpe für Sekundärkreislauf



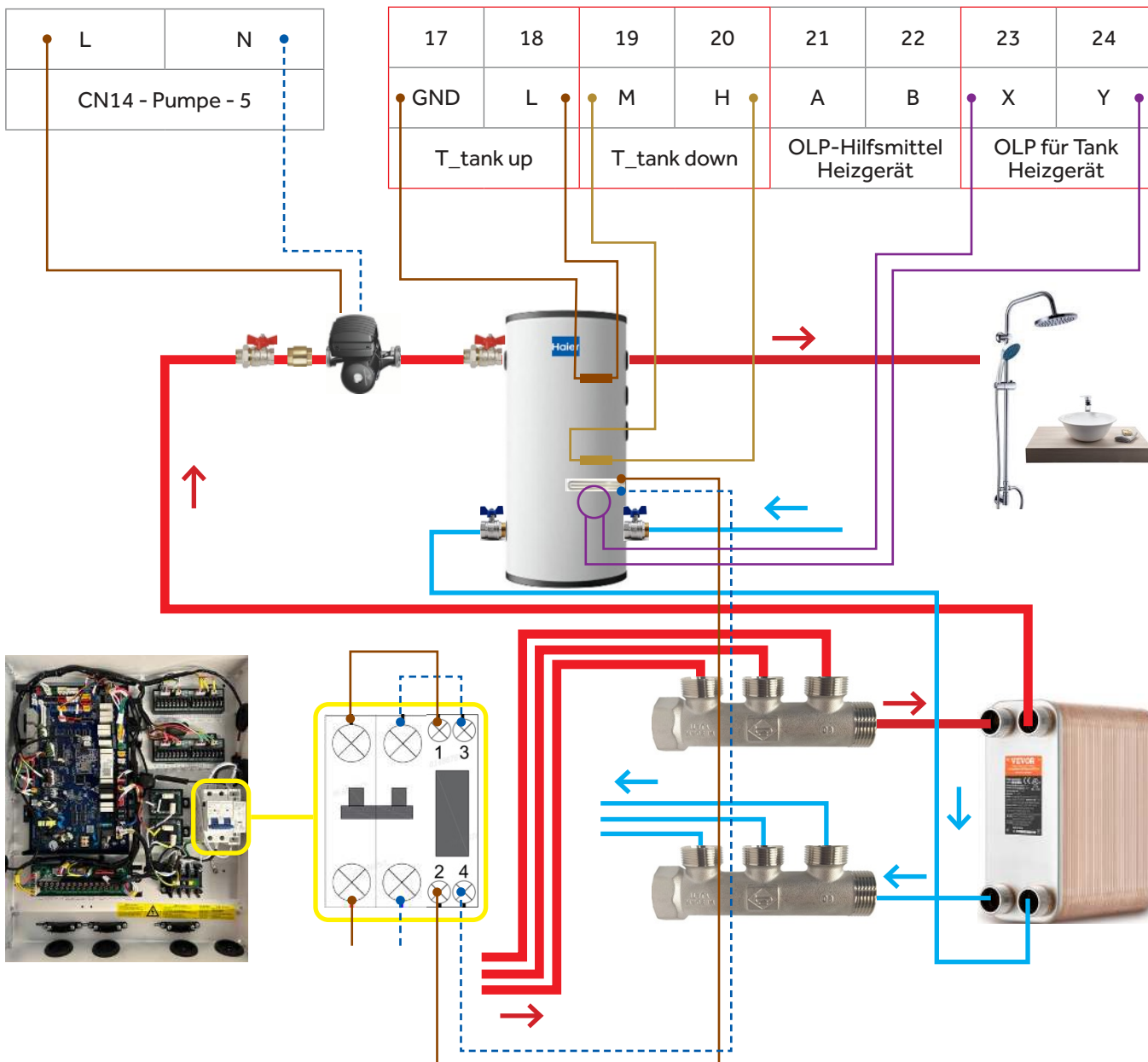
Anschlussplatine 5










Auf der Hauptplatine 5, Klemmen 2(16) N und 3(17) L, können wir die Wasserpumpe für den Sekundärkreislauf nach dem Wärmetauscher anschließen. An diesem Anschluss haben wir eine Ausgangsspannung von 230VAC, die maximale elektrische Leistung, die dieser Kontakt unterstützen kann, beträgt 200W.

7.3. VEREINFACHTES ANSCHLUSSSCHEMA

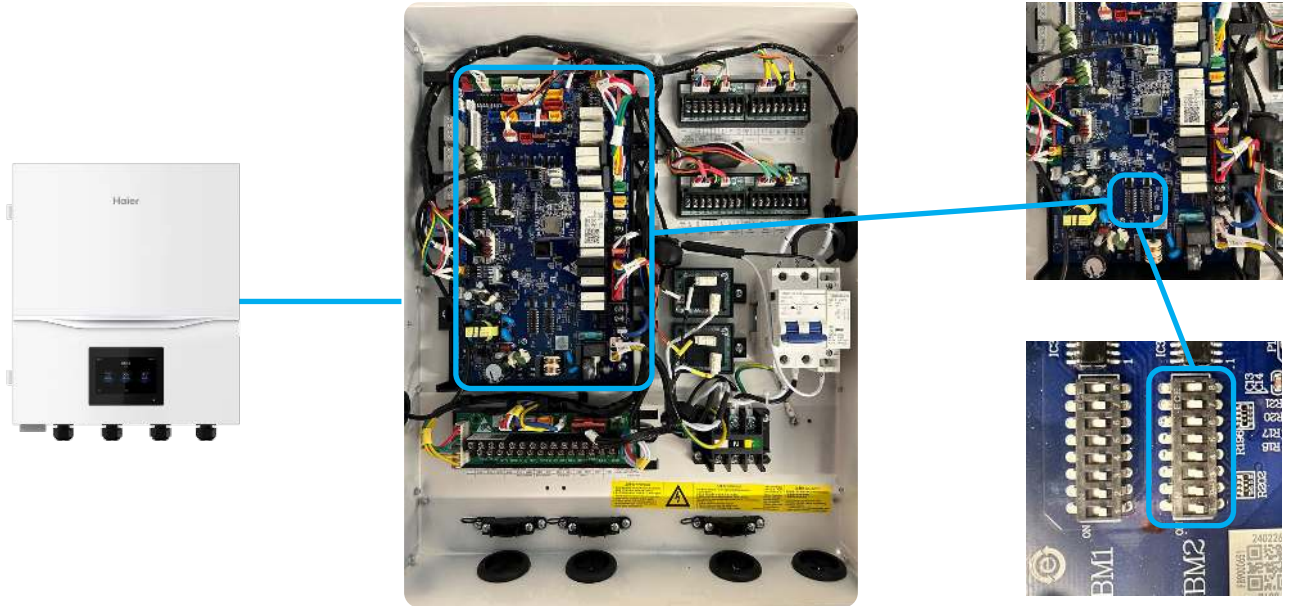
Nur Warmwasser - Wasserpumpe für Sekundärkreislauf



	Kugelventil		Einseitiger Wert		Temperatursensor T_tank oben
	Kugelventil		OLP		Leitung
	Wasserdurchfluss		Warmwasserspeicher		Neutral
	Wasserrückfluss		Plattenwärmeaustausch		Elektrisches Heizgerät
	Wasserpumpe		Temperatursensor T_tank oben		

7.4. ANSCHLUSS

DIP-Schaltereinstellung



BM1_2 BM1_3 BM1_4	Cascade address	[2]	[3]	[4]	Cascade address
		0	0	0	Main unit(Default)
		0	0	1	Sub unit 1#
		0	1	0	Sub unit 2#
		0	1	1	Sub unit 3#
		1	0	0	Sub unit 4#
		1	0	1	Sub unit 5#
		1	1	0	Sub unit 6#
		1	1	1	Sub unit 7#

*** STELLEN SIE
MIT DIP BM1 DAS
HAUPTGERÄT UND DIE
PLATTENUMMER EIN**

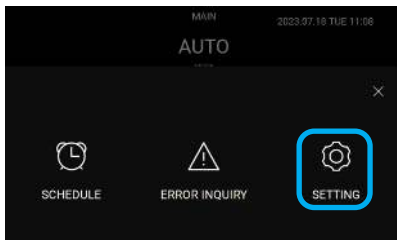
Ändern Sie BM1, Schalter Nummer 2 auf 4, um das Gerät wie oben zu adressieren.

7.5. CONTROLLER-EINSTELLUNGEN

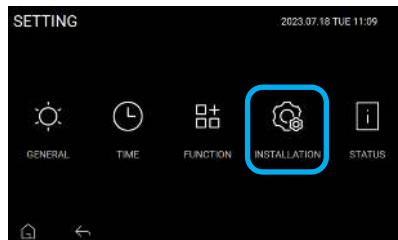
Systeminstallation – Haupteinstellungen



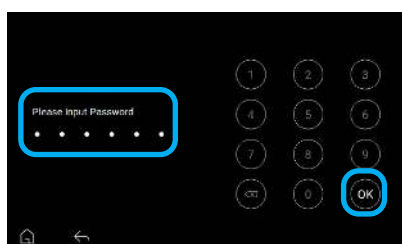
1



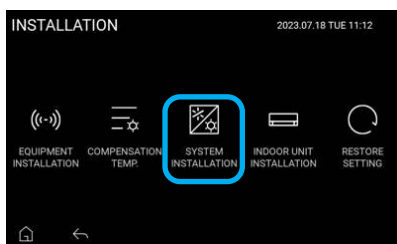
2



3



4 * Kennwort "841226" OK



5



- ← Keine
- ← 5°C
- ← 6°C
- ← On

*** WÄHLEN SIE ON, UM DIE WARMWASSERBEREITUNG ZU AKTIVIEREN**

Drücken Sie auf das Haussymbol, um zum Hauptmenü zurückzukehren

Funktion	Parameterbereich	Einstellungen
DHW-Funktion	ON/OFF	ON

*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

8.0. STEUEREINSTELLUNGEN

9.0. CONTROLLER VON DRITTANBIETERN: SCHALTERSIGNAL

9.1. CONTROLLER VON DRITTANBIETERN: SCHALTERSIGNAL

Das Gerät kann auf 2 Arten gesteuert werden: mit einem Kühl-Wärme-Umschalter oder mit separaten Thermostaten. Es ist möglich, ihn als Typ 1 oder Typ 2 einzustellen.

Typ 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Heizbedarf (ON/OFF) - Bereich1		Kühlbedarf (ON/OFF) - Bereich1		Heizbedarf (ON/OFF) - Bereich2		Kühlbedarf (ON/OFF) - Bereich2	

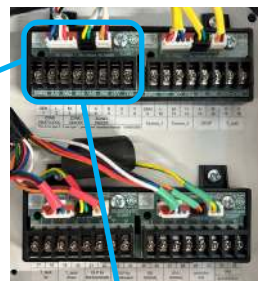
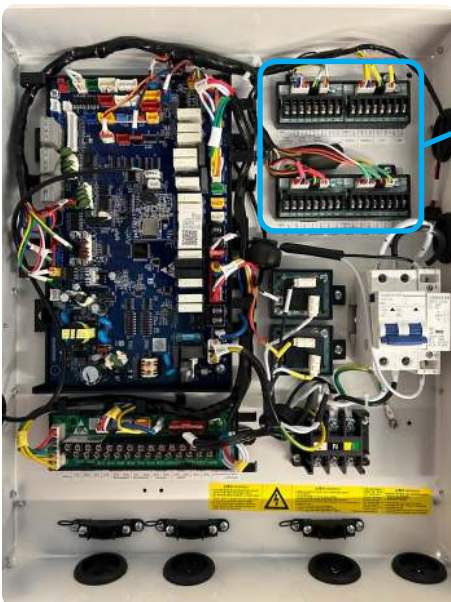
Typ 1 verwendet einen separaten Thermostat für Kühlung und Heizung.

Typ 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Heizen/Kühlen		Bereich 1 ON/OFF		Bereich 2 ON/OFF			

Typ 2 verwendet einen Kühl-Wärme-Umschalter.

9.1.1. TYP 1 - DAS AM HÄUFIGSTEN VERWENDETE SYSTEM



* Alle Anschlüsse auf der Anschlussplatine 1, 2, 3 und 4 sind mit Schraubklemmen versehen.



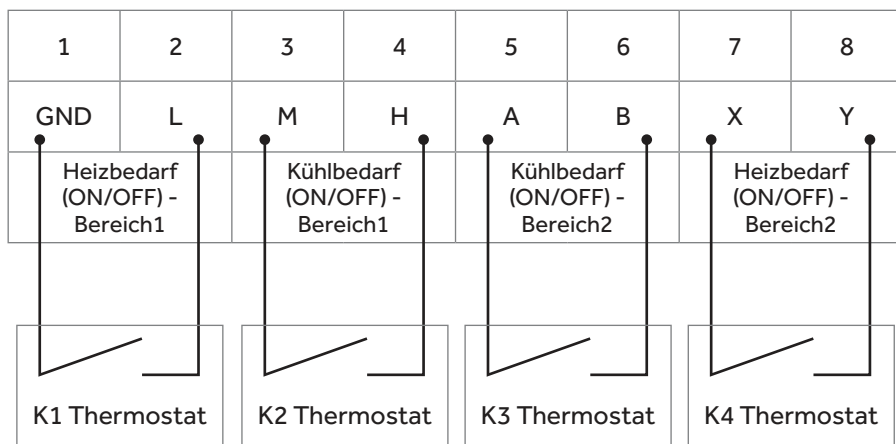
Anschlussplatine 1

9.1.1. CONTROLLER VON DRITTANBIETERN: SCHALTSIGNAL - TYP 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Heizbedarf (ON/OFF) - Bereich1		Kühlbedarf (ON/OFF) - Bereich1		Heizbedarf (ON/OFF) - Bereich2		Kühlbedarf (ON/OFF) - Bereich2	

- 1) Die Kontakte sind alle spannungsfrei.
- 2) Diese Einstellung wird verwendet, wenn es getrennte Kühl- und Heizthermostate gibt.
- 3) Wenn Sie einen Kontakt von 1–2 herstellen, startet das Gerät im Heizmodus, wenn Sie einen Kontakt von 3–4 herstellen, startet das Gerät im Kühlmodus.
- 4) Bei einem Kontakt von 5–6 startet das Gerät im Heizmodus Bereich 2, bei einem Kontakt von 7–8 startet das Gerät im Kühlmodus Bereich 2.
- 5) Sie dürfen nicht gleichzeitig ein Kühl- und ein Heizbetriebssignal senden.

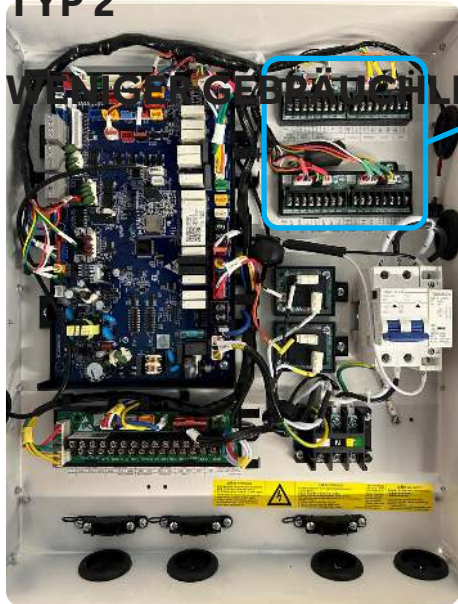
Vereinfachtes Anschlussschema



- 1) Die Kontakte sind alle spannungsfrei.
- 2) Diese Einstellung wird verwendet, wenn es getrennte Kühl- und Heizthermostate gibt.
- 3) Bei einem Kontakt im Bereich 1 von 1–2 startet das Gerät im Heizmodus Bereich 2, bei einem Kontakt von 3–4 startet das Gerät im Kühlmodus Bereich 2.
- 4) Bei einem Kontakt von 5–6 startet das Gerät im Kühlmodus Bereich 2, bei einem Kontakt von 7–8 startet das Gerät im Kühlmodus Bereich 2.
- 5) Sie dürfen nicht gleichzeitig ein Kühl- und ein Heizbetriebssignal senden.

9.1.2. CONTROLLER VON DRITTANBIETERN: SCHALTSIGNAL -

TYP 2



GEBRÄUCHLICH



* Alle Anschlüsse auf der Anschlussplatine 1, 2, 3 und 4 sind mit Schraubklemmen versehen.



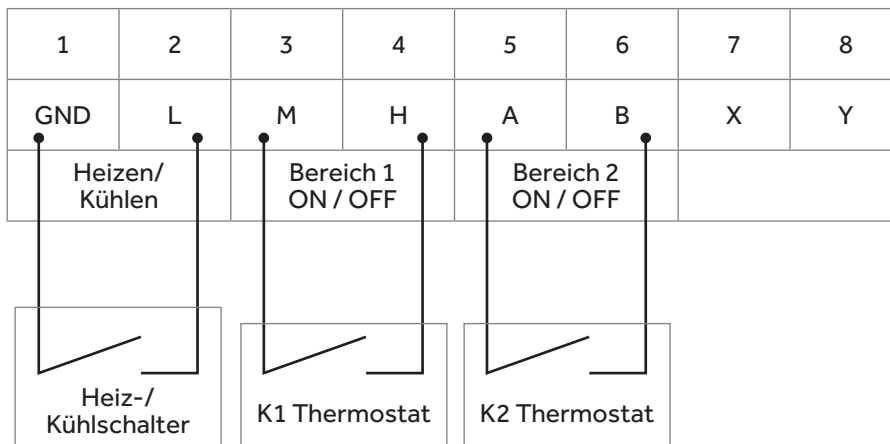
Anschlussplatine 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Heizen/Kühlen		Bereich 1 EIN/ AUS		Bereich 2 EIN/ AUS			

- 1) Die Kontakte sind alle spannungsfrei.
- 2) Diese Einstellung wird verwendet, wenn Sie einen kombinierten Kühl- und Heizthermostat verwenden.
- 3) Wenn Sie einen Kontakt von 1–2 herstellen, befindet sich das Gerät im Kühlmodus. Wenn Sie den Kontakt von 1–2 unterbrechen, befindet sich das Gerät im Heizmodus.
- 4) Wenn Sie einen Kontakt von 3–4 herstellen, startet das Gerät im Kühl- oder Heizmodus.
- 5) Wenn Sie einen Kontakt von 5–6 herstellen, startet das Gerät im Kühl- oder Heizmodus. Bereich 2
- 6) Wenn kein Betriebssignal von Bereich1 und Bereich2 angefordert wird, stoppt das Gerät Heizung und Kühlung. Der Warmwasserbetrieb wird fortgesetzt.

Typ 2

Vereinfachtes Anschlussschema



Heiz-/Kühlschalter: Einschalten für Kühlbetrieb, Ausschalten für Heizbetrieb

K1: Einschalten zum Starten der Heizung/Kühlung Bereich 1. ausschalten.

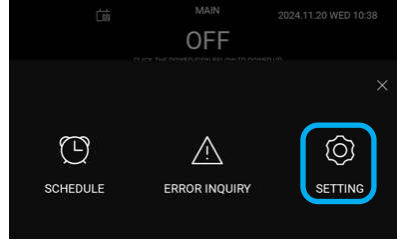
K3: Einschalten zum Starten der Heizung/Kühlung Bereich 2. ausschalten.

9.1.3. CONTROLLER-EINSTELLUNGEN

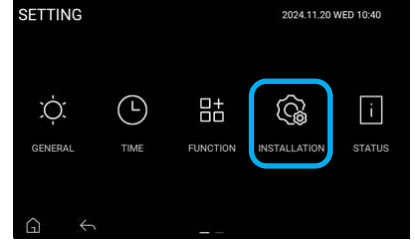
Systeminstallation – Haupteinstellungen



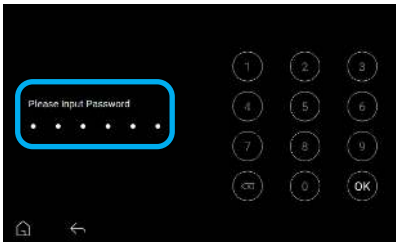
1



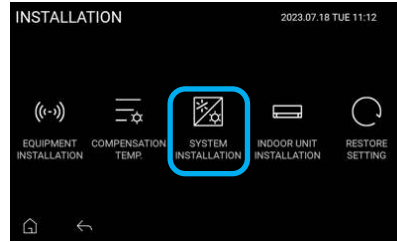
2



3



4 * Kennwort "841226"



5



← Controller eines Drittanbieters

← Controller eines Drittanbieters

← Haupt-Controller

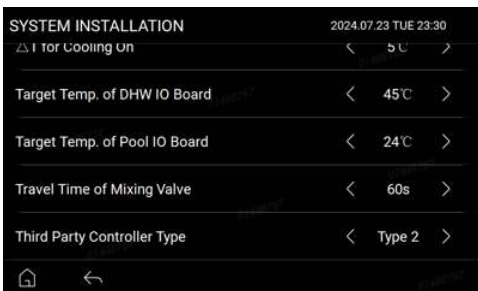
← Haupt-Controller

*** WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 1**

*** WÄHLEN SIE DEN STEUERUNGSMODUS FÜR BEREICH 2**

Funktion	Parameterbereich	Einstellungen
Steuerungsmodus von Bereich 1	Haupt-Controller Controller eines Drittanbieters	Controller eines Drittanbieters
Steuerungsmodus von Bereich 2	Haupt-Controller Controller eines Drittanbieters	Controller eines Drittanbieters

BLÄTTERN SIE 2 SEITEN NACH UNTEN, UM ZU DIESEM MENÜ ZU GELANGEN



← 60s

← Typ 1

*** ACHTUNG! WÄHLEN SIE GEMÄSS IHRER ANLAGE: TYP 1 ODER TYP 2**

*** WÄHLEN SIE DEN TYP DES CONTROLLERS EINES DRITTANBIETERS**

Funktion	Parameterbereich	Einstellungen
Drittanbieter Controller-Typ	Typ 1 / Typ 2	Typ 1

*** DIE PARAMETER, DIE GEÄNDERT WERDEN MÜSSEN, SIND IN BLAU MARKIERT.**

10.0. ANHÄNGE

10.0. ANHÄNGE

Vorschau ATW-A03N



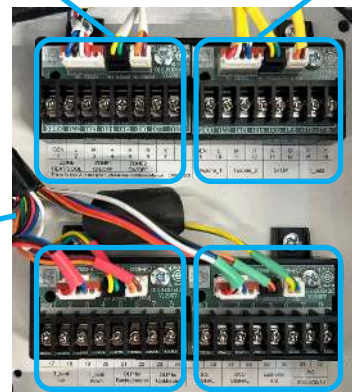
Anschlussplatte 1



Anschlussplatte 2



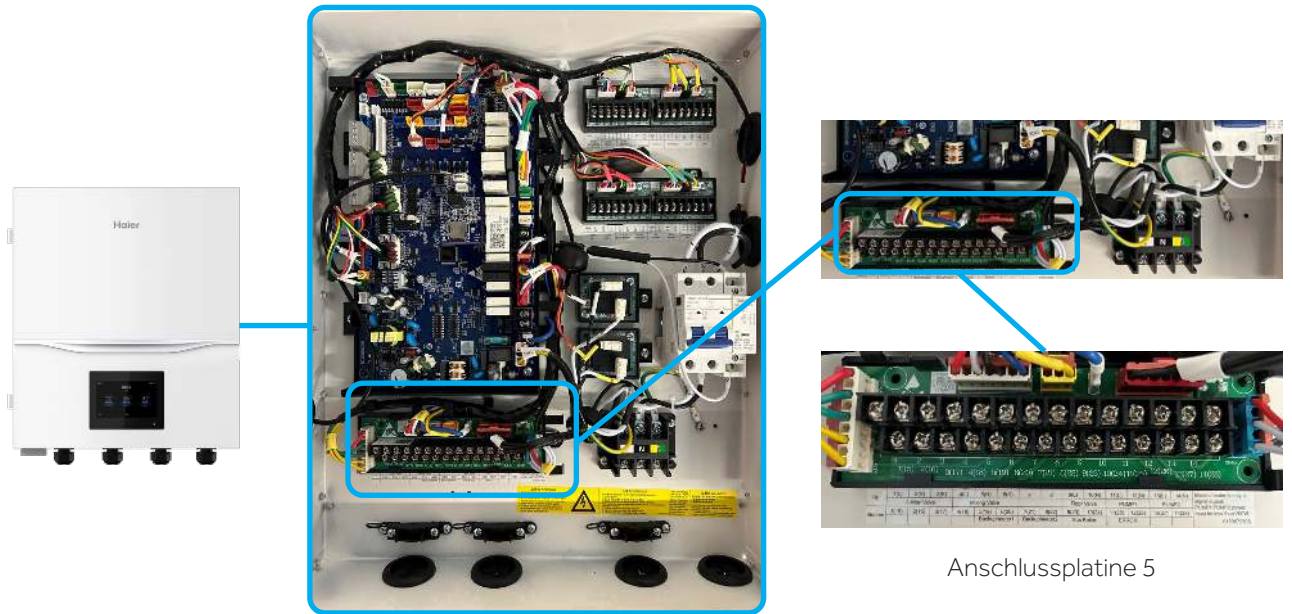
Anschlussplatte 3



* Alle Anschlüsse auf der Anschlussplatte 1, 2, 3 und 4 sind mit Schraubklemmen versehen.



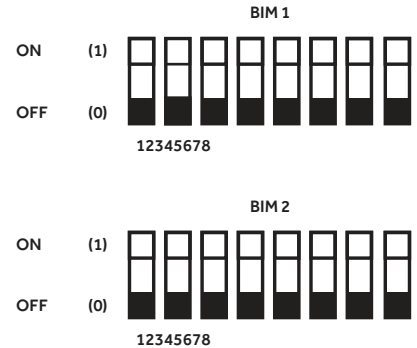
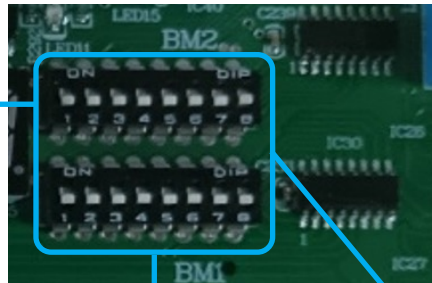
Anschlussplatte 4



*** ALLE ANSCHLÜSSE AUF DER ANSCHLUSSPLATINE 5 SIND MIT SCHRAUBKLEMMEN VERSEHEN.**

10.0. ANHÄNGE

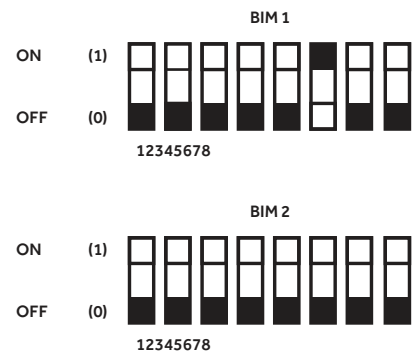
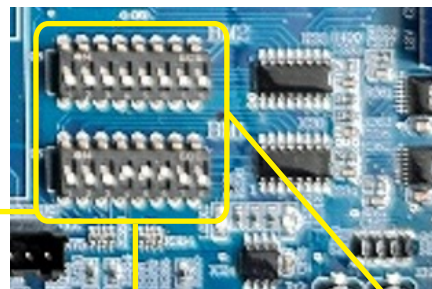
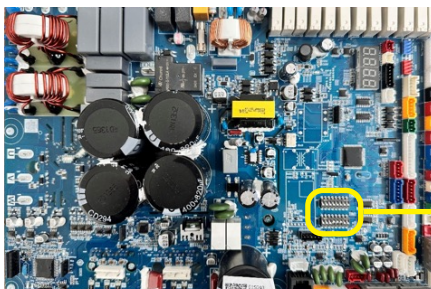
DIP-Schaltereinstellung - Einphasige Installation - 1ph-ODU



BM1_1	Capacity control	[1]	Capacity control method
		0	Normal control(default)
BM1_2 BM1_3 BM1_4 BM1_5	Outdoor unit model	[2]	0~10V control(ATW-A02)
		[2] [3] [4] [5]	Outdoor unit model
		0 0 0 0	AW042MUGHA
		0 0 0 1	AW062MUGHA
		0 0 1 0	AW082MUGHA
		0 0 1 1	AW102(N)MUGHA
BM1_6	Power supply type	[6]	Power supply type
		0	Single phase
		1	Three phase
		[7] [8]	Outdoor unit running mode
BM1_7 BM1_8	Running mode	0 0	Normal mode(default)
		0 1	Turbo mode
		1 0	Quiet mode
1 1	Test mode		

BM2_1 BM2_2 BM2_3	type	[1] [2] [3]	Outdoor type selection
		0 0 0	Monobloc(default)
		0 0 1	Hydro split
BM2_4	Refrigerant type	Out 0	1 0 Hydro all in one
		door 0	1 1 Split
		1 0	0 Split all in one
		1 0	1 Reserved
BM2_5 BM2_6 BM2_7 BM2_8	Reserved	1 1	0 Reserved
		1 1	1 Reserved
		[4]	Refrigerant type selection
0	R290(default)		
1	R32		
[5] [6] [7] [8]	Reserved		
0 0 0 0	Reserved(default)		

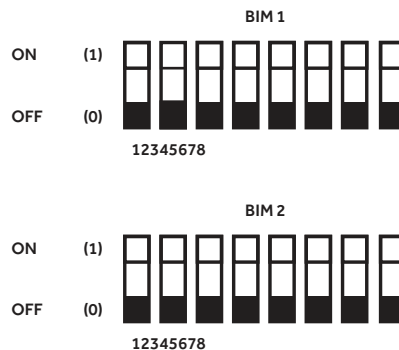
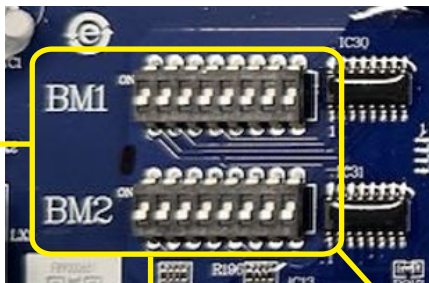
DIP-Schaltereinstellung - Dreiphasige Installation - 3ph-ODU



BM1_1	Capacity control	[1]	Capacity control method
		0	Normal control(default)
BM1_2 BM1_3 BM1_4 BM1_5	Outdoor unit model	[2]	0~10V control(ATW-A02)
		[2] [3] [4] [5]	Outdoor unit model
		0 0 0 0	AW042MUGHA
		0 0 0 1	AW062MUGHA
		0 0 1 0	AW082MUGHA
		0 0 1 1	AW102(N)MUGHA
BM1_6	Power supply type	[6]	Power supply type
		0	Single phase
		1	Three phase
		[7] [8]	Outdoor unit running mode
BM1_7 BM1_8	Running mode	0 0	Normal mode(default)
		0 1	Turbo mode
		1 0	Quiet mode
1 1	Test mode		

BM2_1 BM2_2 BM2_3	type	[1] [2] [3]	Outdoor type selection
		0 0 0	Monobloc(default)
		0 0 1	Hydro split
BM2_4	Refrigerant type	Out 0	1 0 Hydro all in one
		door 0	1 1 Split
		1 0	0 Split all in one
		1 0	1 Reserved
BM2_5 BM2_6 BM2_7 BM2_8	Reserved	1 1	0 Reserved
		1 1	1 Reserved
		[4]	Refrigerant type selection
0	R290(default)		
1	R32		
[5] [6] [7] [8]	Reserved		
0 0 0 0	Reserved(default)		

DIP-Schaltereinstellung - ATW-A03 N



BM1_1	Indoor Type	[1]	Indoor Type			
		0	ATW-A03(Default)			
BM1_2 BM1_3 BM1_4	Cascade address	[2]	[3]	[4]	Cascade address	
		0	0	1	Main unit(Default)	
		0	0	1	Sub unit 1#	
		0	1	0	Sub unit 2#	
		0	1	1	Sub unit 3#	
		1	0	0	Sub unit 4#	
		1	0	1	Sub unit 5#	
		1	1	0	Sub unit 6#	
BM1_5 BM1_6 BM1_7 BM1_8	Capacity	[5]	[6]	[7]	[8]	ODU capacity selection
		0	0	0	0	AW042MUGHA
		0	0	0	1	AW062MUGHA
		0	0	1	0	AW082MUGHA
		0	0	1	1	AW102(N)MUGHA
		1	0	0	0	AW122(N)MXGHA
		1	0	0	1	AW142(N)MXGHA
		1	0	1	0	AW162(N)MXGHA

BM2_1	communication Address setting mode	[1]	Outdoor communication address setting mode					
		0	Automatic setting (default)					
BM2_2	Water tank sensor selection	[2]	Dip switch set address					
		0	Water tank sensor selection					
BM2_3 BM2_4 BM2_5 BM2_6 BM2_7 BM2_8	Address	[3]	[4]	[5]	[6]	[7]	[8]	Address
		0	0	0	0	0	0	0#(default)
BM2_3 BM2_4 BM2_5 BM2_6 BM2_7 BM2_8	communication Address	0	0	0	0	0	1	1#
		0	0	0	0	1	0	2#
	

11.0. ANHANG

11.0. ANHANG

Empfohlene Durchflussmengen für jedes System

Einheit kW	Delta T	Durchflussmenge l/Min.	Durchflussmenge m ³ /Std.	Delta T	Durchflussmenge l/Min.	Durchflussmenge m ³ /Std.
4	5	11,5	0,7	7	8,2	0,5
6	6	14,4	0,9	7	12,3	0,7
8	5	23,0	1,4	7	16,4	1,0
10	5	28,7	1,7	7	20,5	1,2
12	5	34,4	2,1	7	24,6	1,5
14	5	40,2	2,4	7	28,7	1,7
16	5	45,9	2,8	7	32,8	2,0

Kapazität der Rohrleitungen

Die empfohlene Höchstkapazität für jedes Rohr ist wie folgt, um Lärm zu vermeiden

Bei 5C delta T:

Durchmesser mm	Geschwindigkeit m/s	Delta t	Durchflussmenge m ³ /Std.	Durchflussmenge l/Min.	kWs
6	1,2	5	0,1	1,3	0,5
8	1,2	5	0,2	2,6	0,9
10	1,2	5	0,3	4,4	1,5
12	1,2	5	0,4	6,6	2,3
15	1,2	5	0,6	10,5	3,6
22	1,2	5	1,4	23,1	8,0
28	1,2	5	2,3	38,8	13,5
35	1,2	5	3,6	60,1	20,9

Bei 7C delta T

Durchmesser mm	Geschwindigkeit m/s	Delta t	Durchflussmenge m ³ /Std.	Durchflussmenge l/Min.	kWs
6	1,2	7	0,1	1,3	0,6
8	1,2	7	0,2	2,6	1,3
10	1,2	7	0,3	4,4	2,1
12	1,2	7	0,4	6,6	3,2
15	1,2	7	0,6	10,5	5,1
22	1,2	7	1,4	23,1	11,2
28	1,2	7	2,3	38,8	18,9
35	1,2	7	3,6	60,1	29,3

Mindestvolumen des Systems Liter

Haier Wärmepumpe	Modellnummer	Mindestvolumen des Systems Liter
4 kW	AW042MUGHA	28,7
6 kW	AW062MUGHA	43,1
8 kW	AW082MUGHA	57,4
10 kW	AW102MUGHA	71,8
12 kW	AW122MX	86,1
14 kW	AW142MX	100,5
16 kW	AW162MX	114,8

Größen der Sicherungen

Haier Wärmepumpe Einphasig	Modellnummer	Sicherung
4 kW	AW042M/HUGHA	16 Ampere
6 kW	AW062M/HUGHA	16 Ampere
8 kW	AW082M/HUGHA	20 Ampere
10 kW	AW102M/HUGHA	20 Ampere
12 kW	AW122MXGHA	32 Ampere
14 kW	AW142MXGHA	32 Ampere
16 kW	AW162MXGHA	32 Ampere
Haier Wärmepumpe Dreiphasig		
10 kW	AW10NMUGHA - AW-102HUGHA	16 Ampere
12 kW	AW12NMXGHA -AW-122HVGHA	16 Ampere
14 kW	AW14NMXGHA - AW-142HVGHA	16 Ampere
16 kW	AW16NMXGHA- AW-162HVGHA	16 Ampere
ATW-A03 N Innengerät einphasig		
Alle Einheiten	ATW-A03 N	13 Ampere

Haier
HVAC Solutions



Haier HVAC
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A2W

Manual de instalación

2025/26



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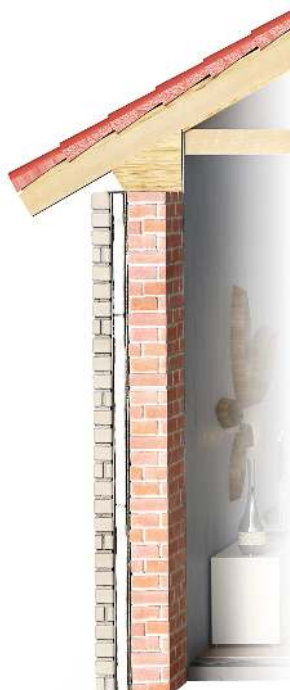
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1.0. UNIDAD EXTERIOR Y CONEXIÓN ATW-A03 N

Instalación exterior



Instalación interior

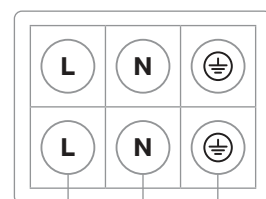
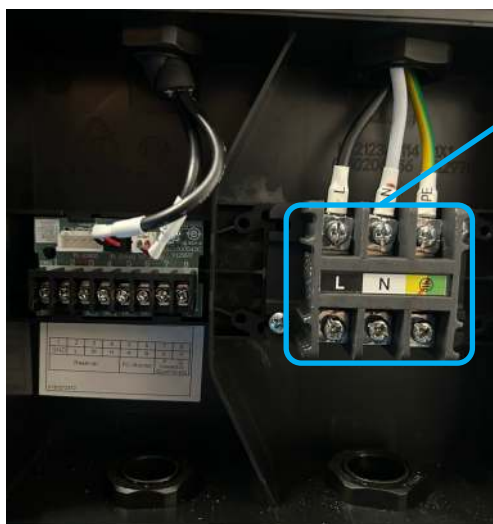


ATW-A03 N



1.1. CABLEADO Y CONEXIONES ELÉCTRICAS

1.1.1. Instalación monofásica - ODU de 1 fase



L = Fase
N=Neutro
⊕=Ground (tierra)

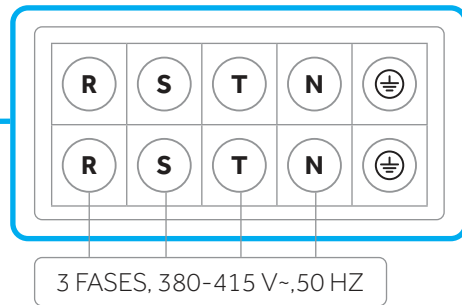
1 FASE, 220-240 V~, 50 HZ

ODU MONOBLOC:

AW042MUGHA AW062MUGHA
AW082MUGHA AW102MUGHA
AW122MXGHA AW142MXGHA
AW162MXGHA

1.1. CABLEADO Y CONEXIONES ELÉCTRICAS

1.1.2 Instalación trifásica - ODU de 3 fases



R = Línea 1
 S = Línea 2
 T = Línea 3
 N = Neutro
 ⊕ = Ground (tierra)

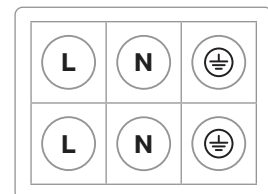
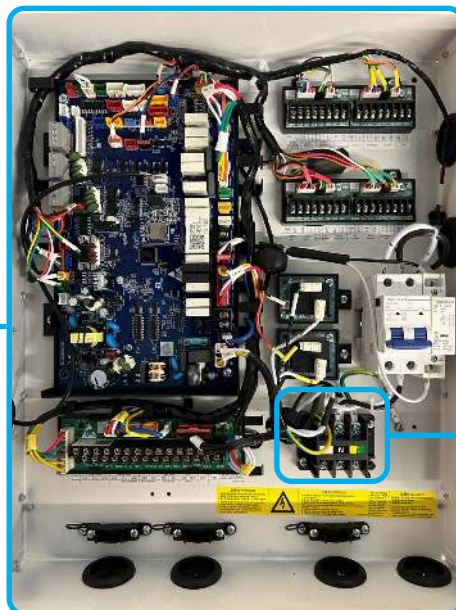
ODU MONOBLOC:

AW10NMUGHA AW12NMUGHA
 AW14NMUGHA AW16NMUGHA

1.1.3. Conexión eléctrica para ATW-A03 N - siempre 240 V monofásica



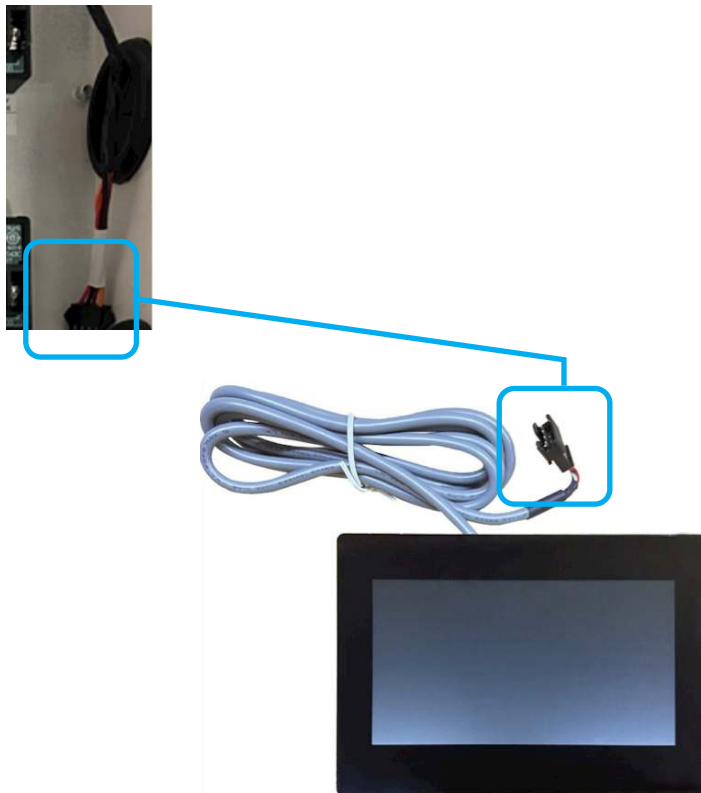
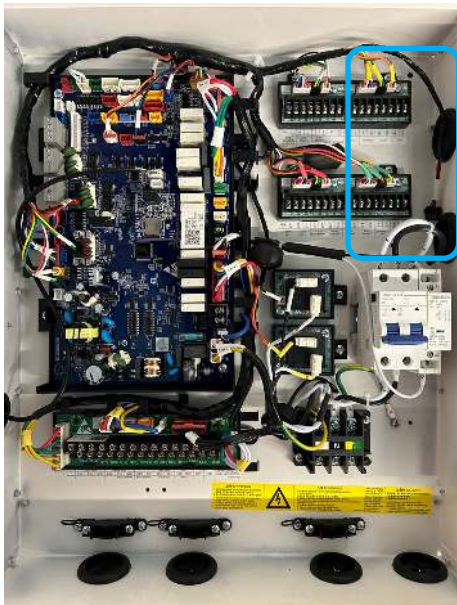
Interior



L = Fase
 N = Neutro
 ⊕ = Ground (tierra)

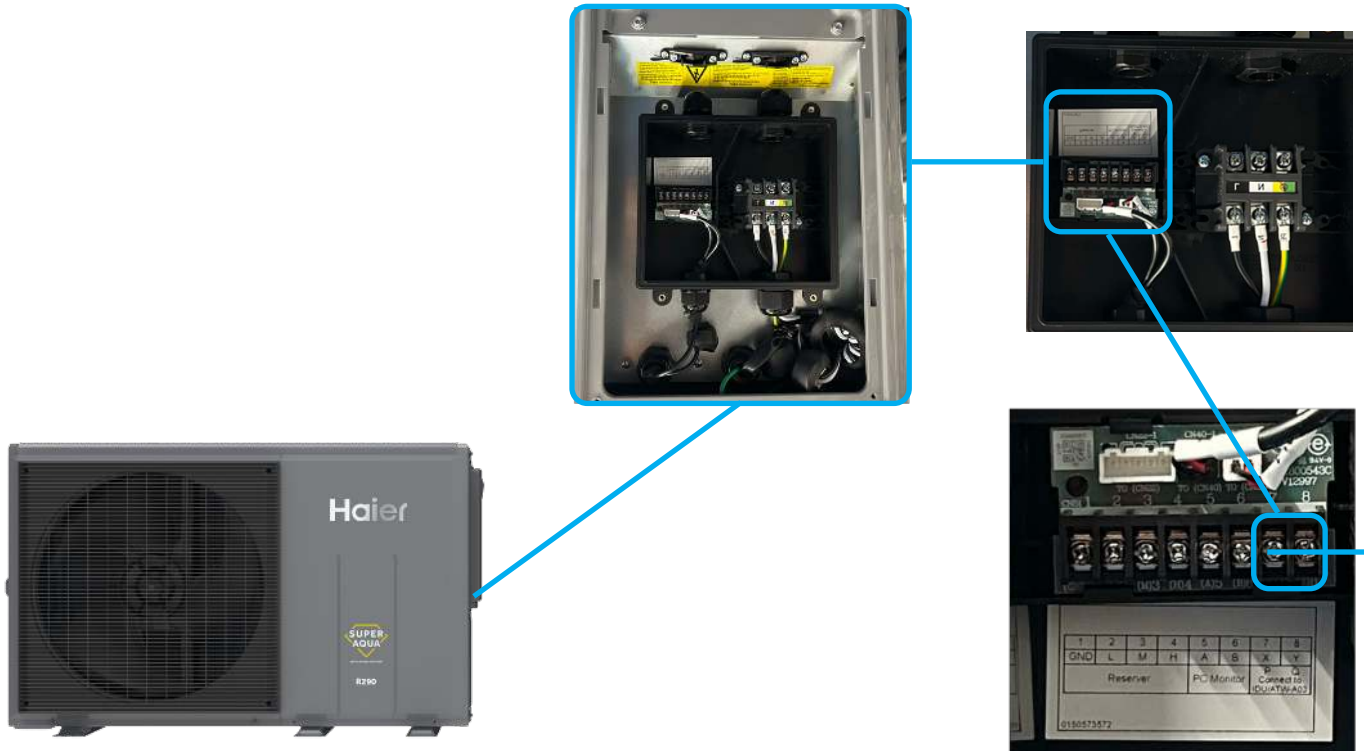


1.1.4 Conexión del regulador con cable

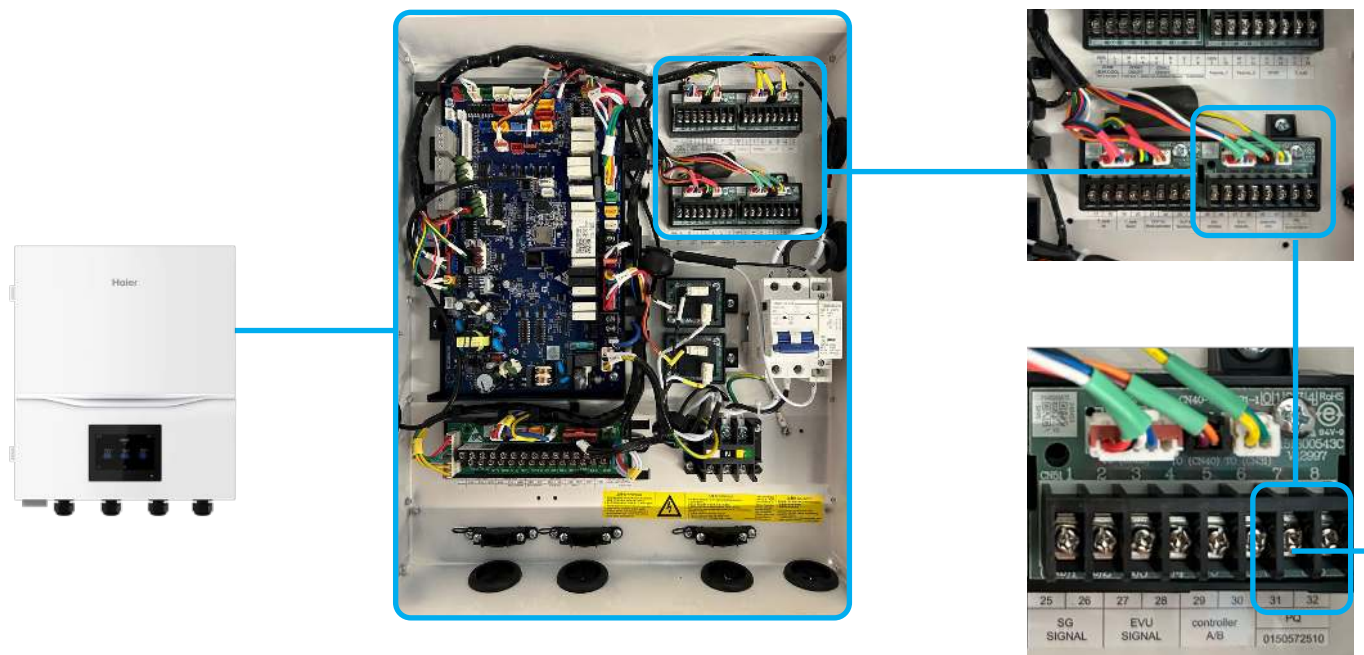


1.2. CONEXIÓN ENTRE LA UNIDAD EXTERIOR Y LA ATW-A03 N

Unidad exterior



Unidad interior ATW-A03



Placa de conexión 4

Placa de conexiones 1 - Unidad exterior

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Reservado				Supervisión de PC		Calidad de la potencia	

Placa de conexiones 4 - Unidad interior ATW-A03

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
Señal SG		Señal EVU		Regulador A/B		Calidad de la potencia	

Conecte un cable de comunicación de 2 hilos desde 7 (X) y 8 (Y) de la placa 1 de la unidad exterior a 31 (X) y 32 (Y) de la placa 4 de la unidad interior ATW-A03

El bus de interconexión entre la unidad exterior y la ATW-A03N, debe realizarse con un cable apantallado de 2x0,75 mm.

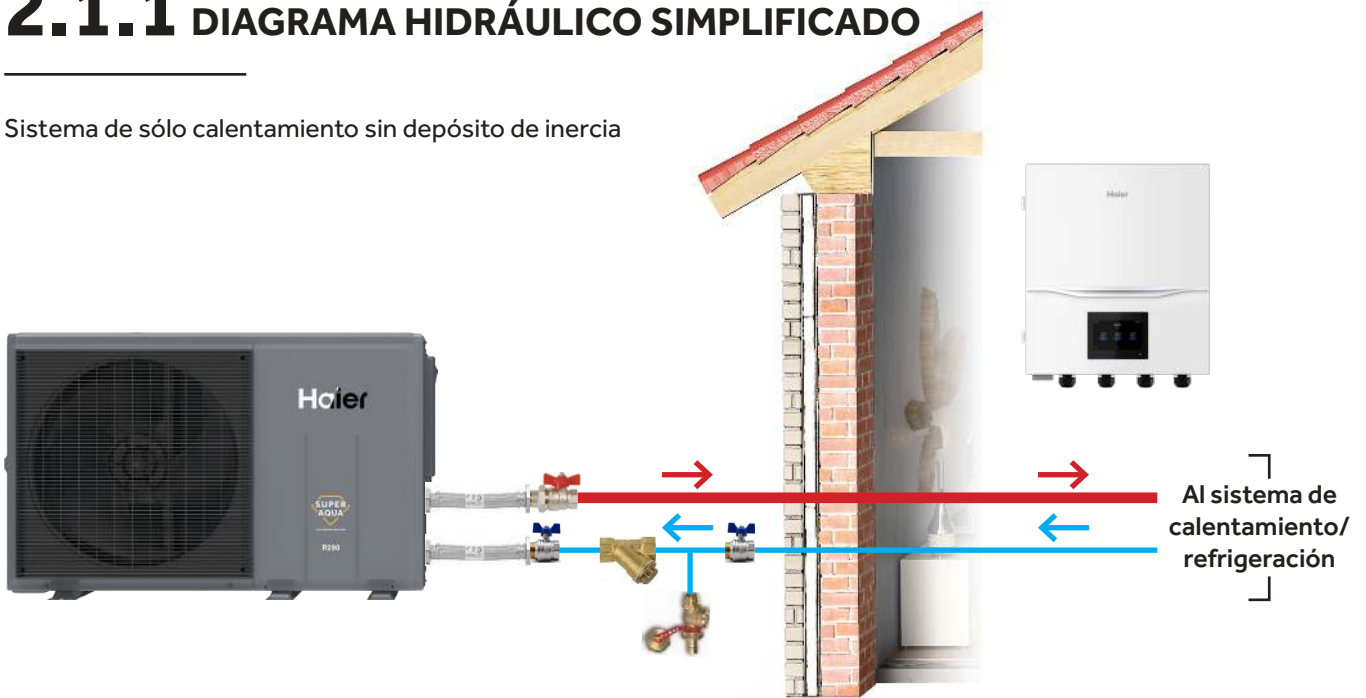
Observe que en el centro de la PCB azul parpadea una luz verde y otra roja si la comunicación es correcta. Si el LED deja de parpadear, la unidad exterior se apaga.

2.0. ZONA 01

2.1. ZONA 1 SIN DEPÓSITO DEL ACUMULADOR DE INERCIA

2.1.1 DIAGRAMA HIDRÁULICO SIMPLIFICADO

Sistema de sólo calentamiento sin depósito de inercia



	Tubo flexible		Caudal de agua de impulsión
	Válvula de bola		Caudal de agua de retorno
	Válvula de bola		
	Filtro de agua		
	Válvula de drenaje		

TODOS LOS ESQUEMAS Y ACCESORIOS SON SÓLO UN EJEMPLO DE INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA NORMATIVA LOCAL.

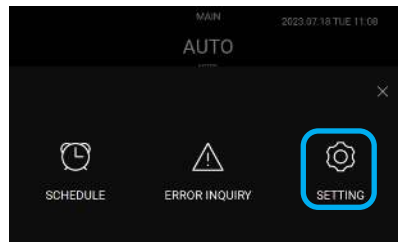
RESPECTO A LAS CONEXIONES ELÉCTRICAS, CONSULTE EL PUNTO 1.0.

2.1.2. Ajuste del regulador

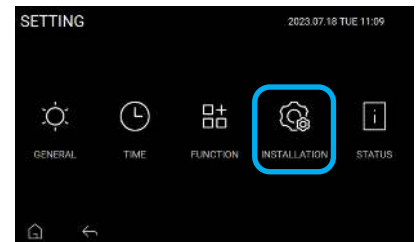
Ajustes principales de la instalación del equipo



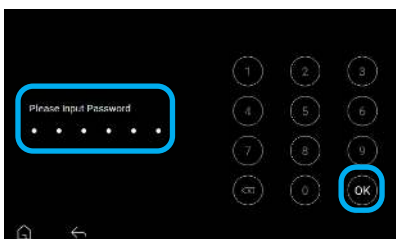
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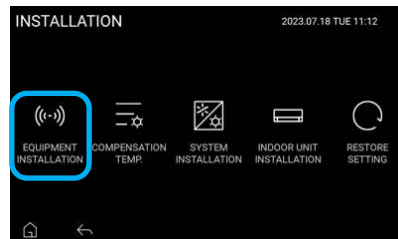
2



3



4 * Contraseña "841226" OK



5



← ENCENDIDO

← APAGADO

← APAGADO

← APAGADO

*** SELECCIONE ENCENDIDO PARA ACTIVAR LA ZONA 1**

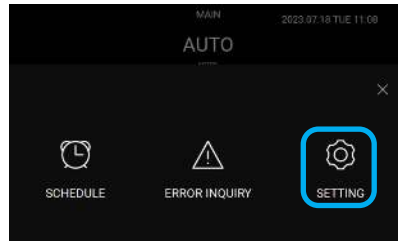
Función	Rango de parámetros	Ajustes
Zona 1	ENCENDIDO/APAGADO	ENCENDIDO

2.1.2. AJUSTE DEL REGULADOR

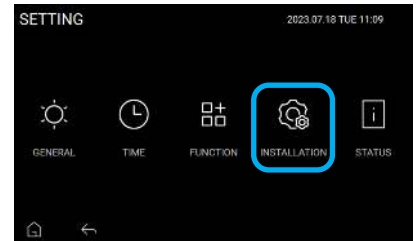
Ajustes principales de la instalación del sistema



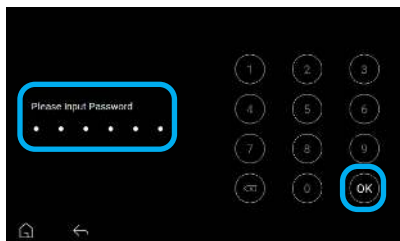
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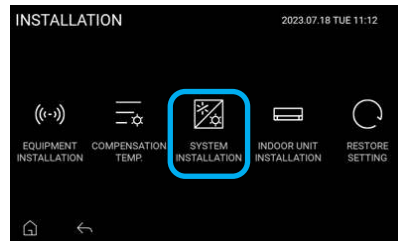
2



3



4 * Contraseña "841226" OK



5

Ajustes principales de la instalación del equipo



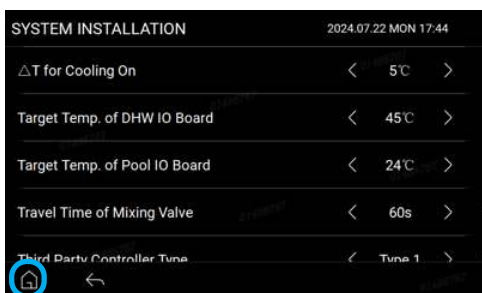
← **Regulador principal** * SELECCIONE EL MODO DE CONTROL PARA LA ZONA 1

Función	Rango de parámetros	Ajustes
Modo de control de la zona 1	Regulador principal, Regulador de terceros	Regulador principal



← 27°C
← **6°C** *INTRODUZCA DELTA T° PARA CALENTAMIENTO ENCENDIDO

Función	Rango de parámetros	Ajustes
ΔT para Calentamiento encendido	0 - 15 °C	6 °C



← **5°C** *INTRODUZCA DELTA T° PARA REFRIGERACIÓN ENCENDIDA

Pulse el icono de "casa" para volver al menú principal

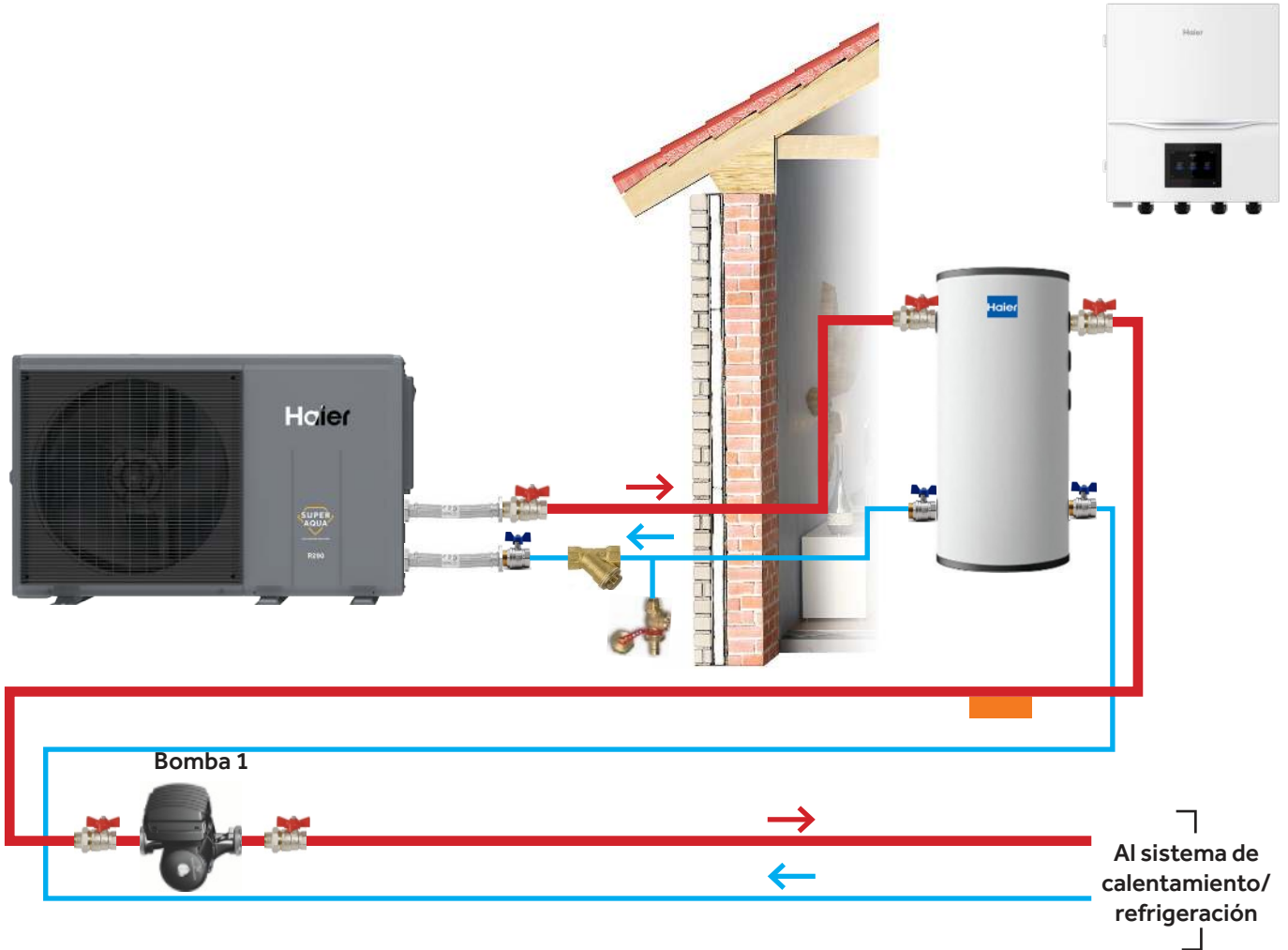
Función	Rango de parámetros	Ajustes
ΔT para Refrigeración encendida	0 - 15 °C	5 °C

***LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN NEGRITA AZUL.**

2.2. ZONA 1 CON DEPÓSITO DEL ACUMULADOR DE INERCIA

2.2.1. ESQUEMA HIDRÁULICO SIMPLIFICADO

2.2.1. Calentamiento sólo con un depósito del acumulador de inercia / separación hidráulica



	Tubo flexible		Depósito del acumulador de inercia
	Válvula de bola		Bomba de agua
	Válvula de bola		Caudal de agua de impulsión
	Filtro de agua		Caudal de agua de retorno
	Válvula de drenaje		

TODOS LOS ESQUEMAS Y ACCESORIOS SON SÓLO UN EJEMPLO DE INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA NORMATIVA LOCAL.

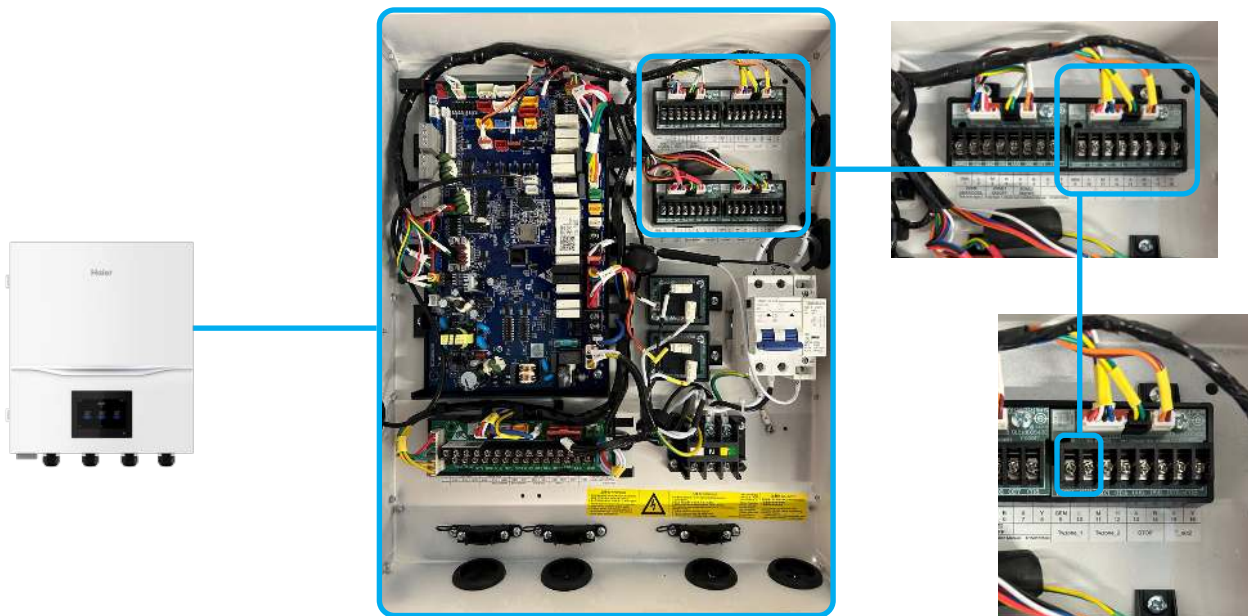
RESPECTO A LAS CONEXIONES ELÉCTRICAS, CONSULTE EL PUNTO 1.0.

A tener en cuenta: La unidad debe funcionar con el volumen mínimo del sistema, véase el anexo al final del manual.

2.2.2. CONEXIONES

Sensor de temperatura del agua para la zona 1

Todas las conexiones de la placa de conexiones 1, 2, 3 y 4 son con terminales de tornillo.



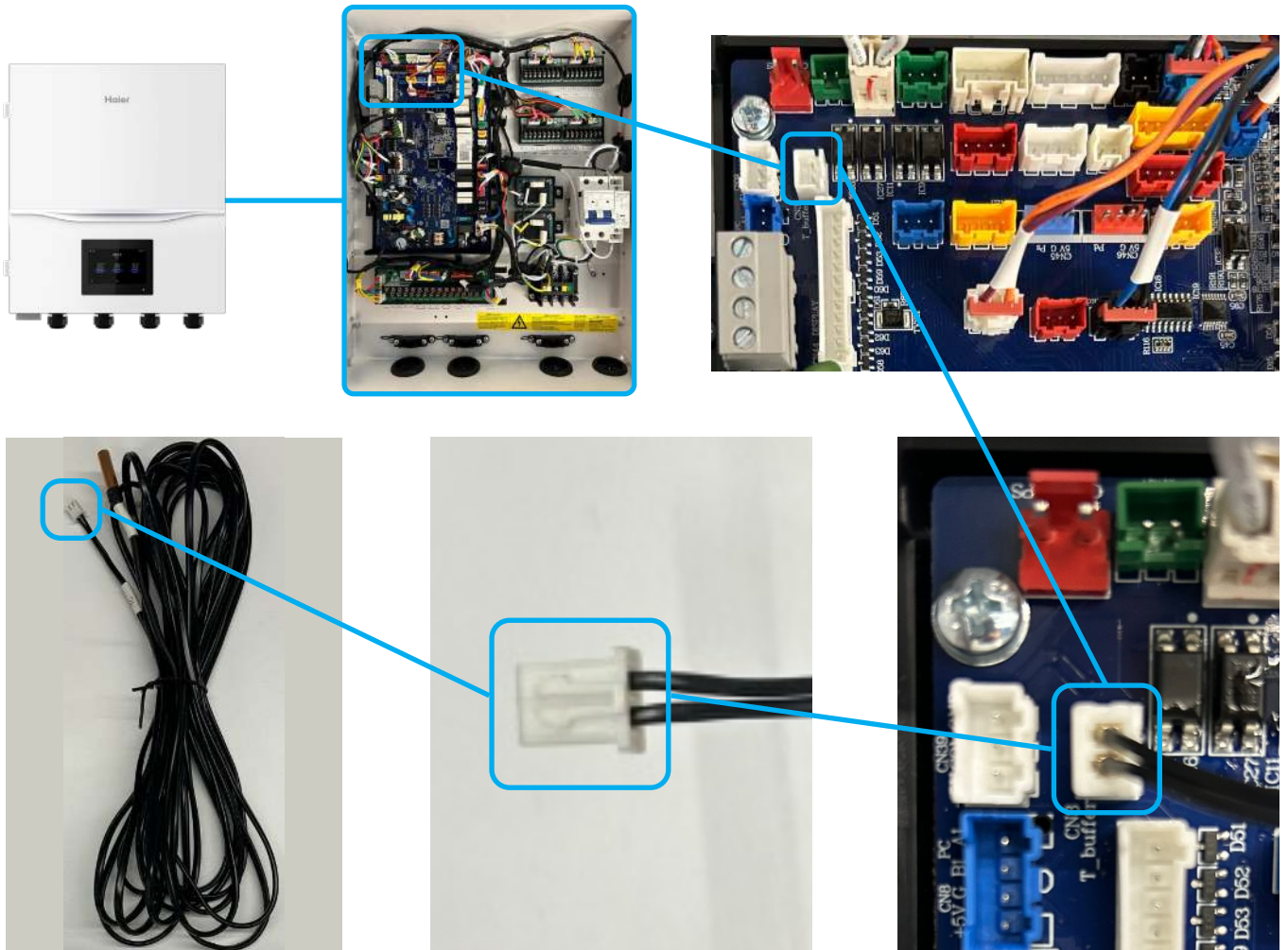
Placa de conexión 2

Placa de conexión

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zona_1		TW_zona_2		PARADA		T_salida2	

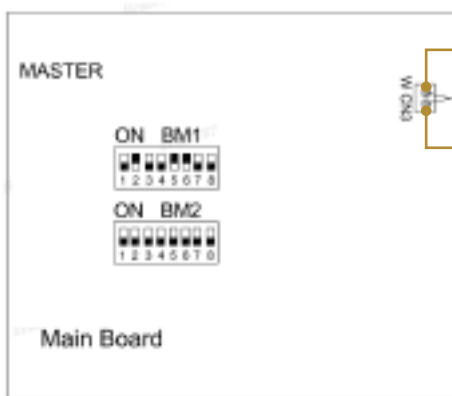
TENGA EN CUENTA QUE PUEDE UTILIZAR EL SENSOR DE ZONA 1 TW_ZONA 1 O LOS SENSORES DE AGUA DE LA UNIDAD EXTERIOR PARA CONTROLAR LA BOMBA DE CALOR.

2.2.2. ESQUEMA HIDRÁULICO SIMPLIFICADO



* Debe utilizar el sensor con la clavija blanca.

*** EL ACUMULADOR T NO ES OBLIGATORIO**



En la PCB principal en el conector CN3 podemos conectar la temperatura del agua para el depósito del acumulador de inercia.

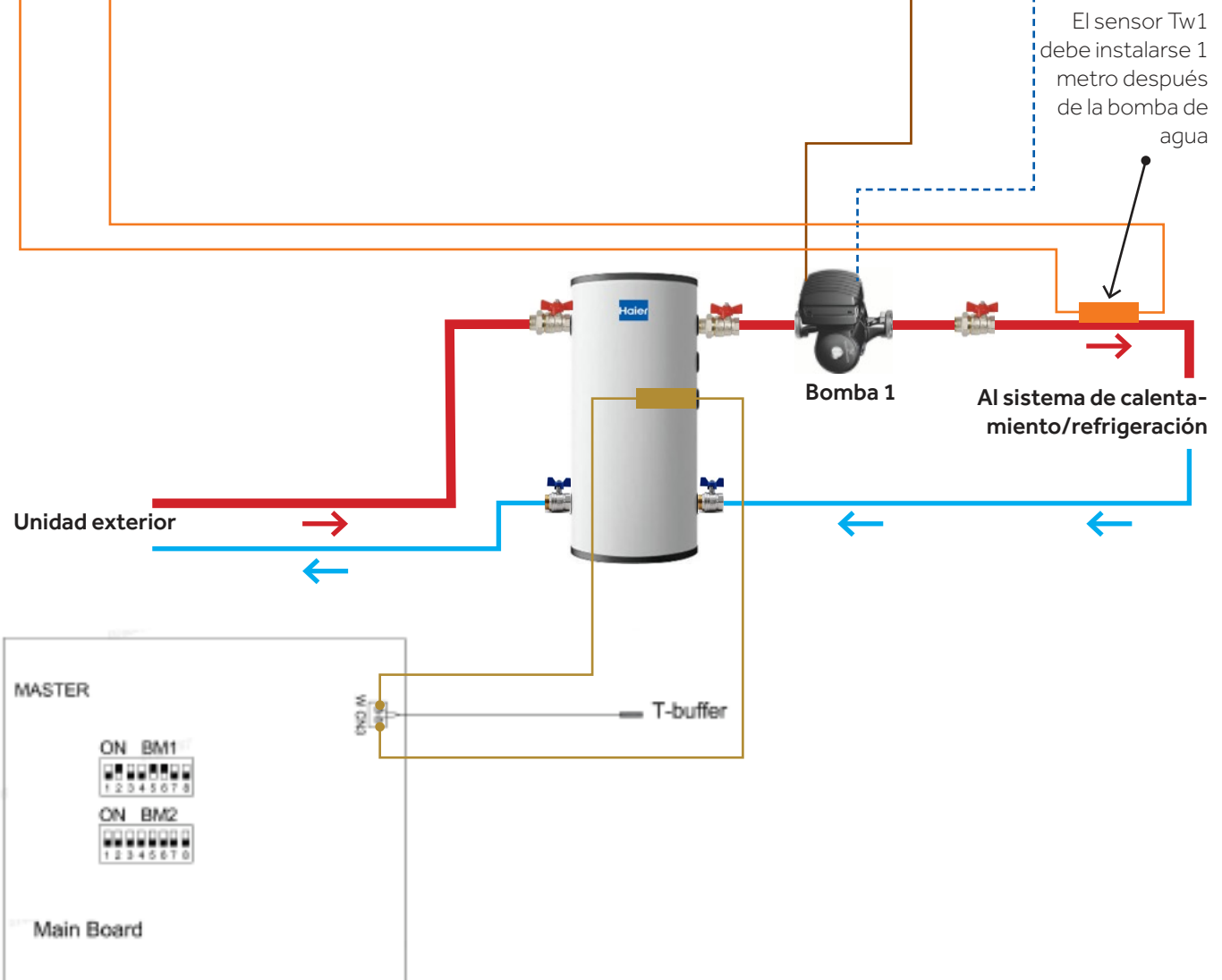


ES POSIBLE CONFIGURAR LA UNIDAD PARA QUE SÓLO REGULE LA TEMPERATURA DEL ACUMULADOR DE INERCIA. SI LO DESEA, PUEDE INSTALAR UN SENSOR DE CONTROL DEL ACUMULADOR DE INERCIA.

2.2.3. ESQUEMA HIDRÁULICO SIMPLIFICADO

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N						
				Heater 1		Heater 2		Boiler		Error			



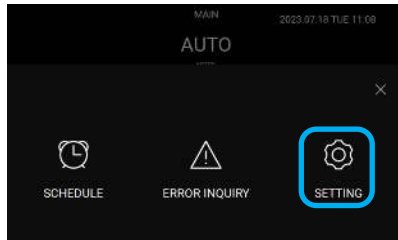
	Depósito del acumulador de inercia		Sensor de temperatura del agua del acumulador T
	Válvula de bola		Sensor de temperatura del agua TW zona 1
	Válvula de bola		Caudal de agua de impulsión
	Bomba de agua		Caudal de agua de retorno
	Neutro		Fase

2.2.4. AJUSTES DEL REGULADOR

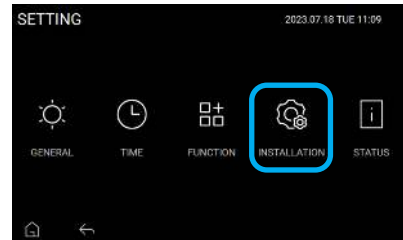
Ajustes principales de la instalación del equipo



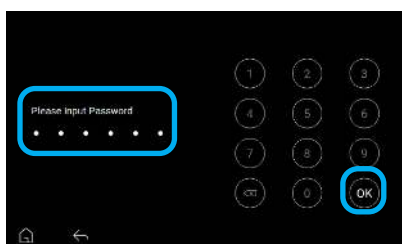
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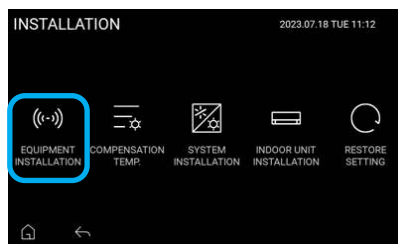
2



3



4 * Contraseña "841226" OK



5



- ← ENCENDIDO
- ← APAGADO
- ← APAGADO
- ← ENCENDIDO

* SELECCIONE ENCENDIDO PARA ACTIVAR LA ZONA 1

* SELECCIONE ENCENDIDO PARA ACTIVAR EL DEPÓSITO DEL ACUMULADOR DE INERCIA

Pulse el icono de "casa" para volver al menú

principal

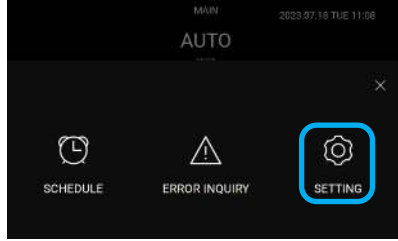
Función	Rango de parámetros	Ajustes
Zona 1	ENCENDIDO/APAGADO	ENCENDIDO
Depósito del acumulador de inercia	ENCENDIDO/APAGADO	ENCENDIDO

2.2.4. AJUSTES DEL REGULADOR

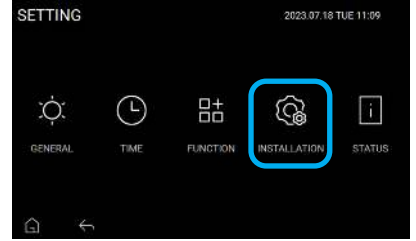
Ajustes principales de la instalación del sistema



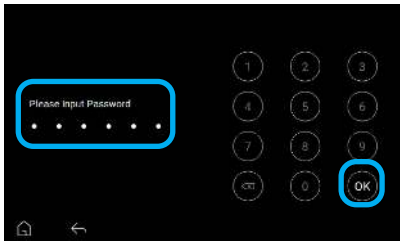
1



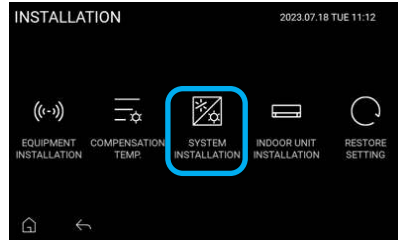
2



3



4 * Contraseña "841226" OK



5



- ← Regulador principal
- ← Regulador principal
- ← Regulador principal
- ← Regulador principal

*** SELECCIONE EL MODO DE CONTROL PARA LA ZONA 1**

Función	Rango de parámetros	Ajustes
Modo de control de la zona 1	Regulador principal Regulador de terceros	Regulador principal



- ← 45 °C
- ← 27 °C
- ← 6 °C
- ← 0 °C

***INTRODUZCA DELTA T° PARA CALENTAMIENTO ENCENDIDO**

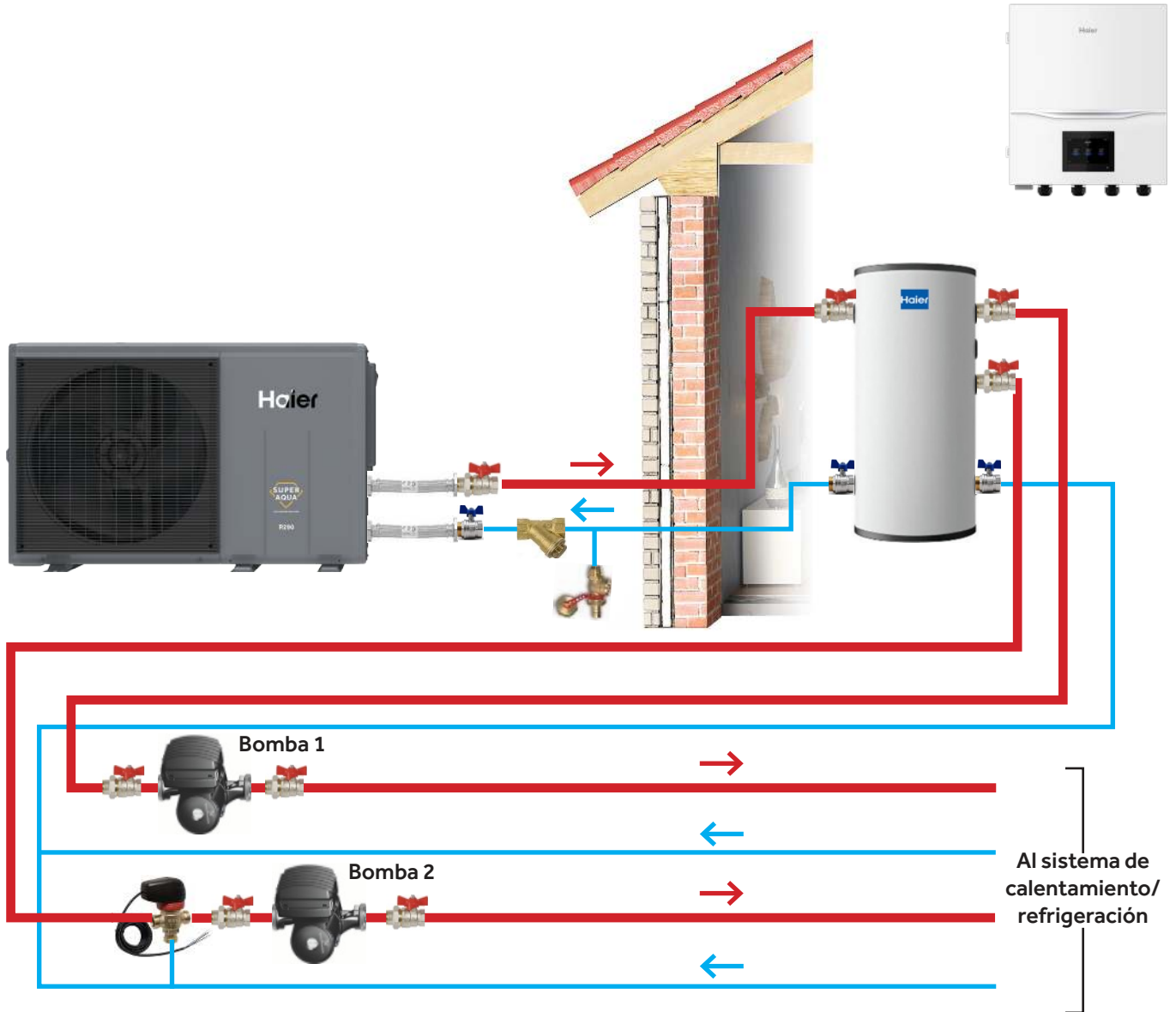
Pulse el icono de "casa" para volver al menú principal

Función	Rango de parámetros	Ajustes
ΔT para Calentamiento encendido	0 - 15 °C	6 °C

3.0. ZONA 2 - ZONAS MÚLTIPLES

3.1. ESQUEMA HIDRÁULICO SIMPLIFICADO

Calentar sólo zonas



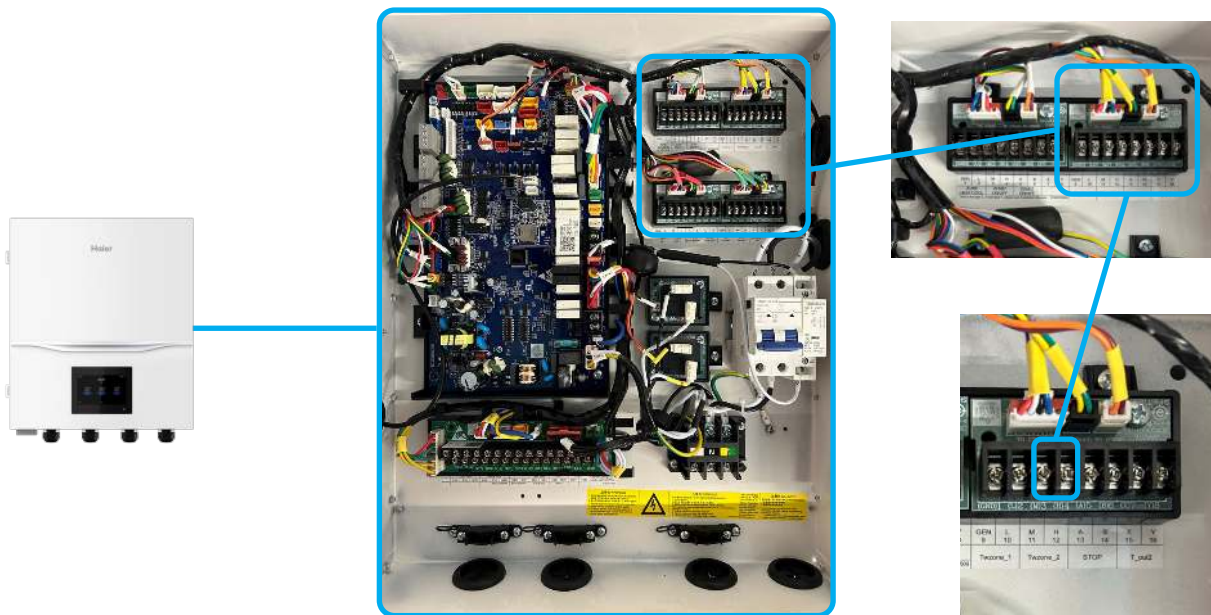
	Tubo flexible		Depósito del acumulador de inercia
	Válvula de bola		Bomba de agua
	Válvula de bola		Valor de mezcla
	Filtro de agua		Caudal de agua de impulsión
	Válvula de drenaje		Caudal de agua de retorno

TODOS LOS ESQUEMAS Y ACCESORIOS SON SÓLO UN EJEMPLO DE INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA NORMATIVA LOCAL.

RESPECTO A LAS CONEXIONES ELÉCTRICAS, CONSULTE EL PUNTO 1.0.

LAS BOMBAS 1, 2, ETC. SE CONTROLAN MEDIANTE SEÑALES DE MARCHA EXTERNAS. LA BOMBA DE CALOR CALIENTA EL ACUMULADOR DE INERCIA. EL CONTROL DE LAS VÁLVULAS Y BOMBAS DESPUÉS DEL ACUMULADOR DE INERCIA SE REALIZA MEDIANTE TERMOSTATOS EXTERNOS - SEÑALES DE MARCHA.

3.2. SENSOR DE TEMPERATURA DEL AGUA PARA LA ZONA 2



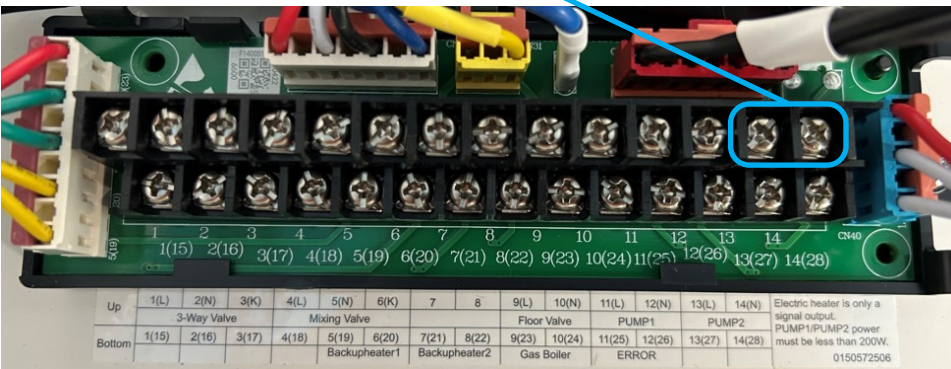
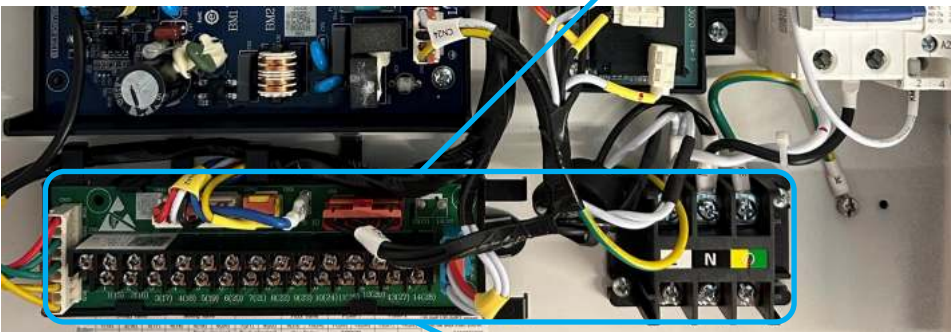
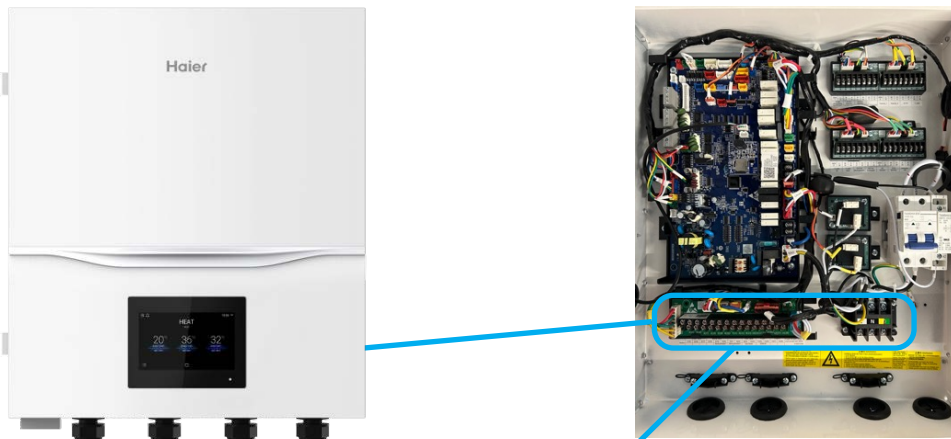
Placa de conexión 2

Placa de conexión

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zona_1		TW_zona_2		PARADA		T_salida2	

En la placa de conexiones número 2 entre los terminales 11 (M) y 12 (H) podemos conectar el sensor de temperatura del agua para la zona 2.

Bomba de agua para la Zona 2



Placa de conexión 5

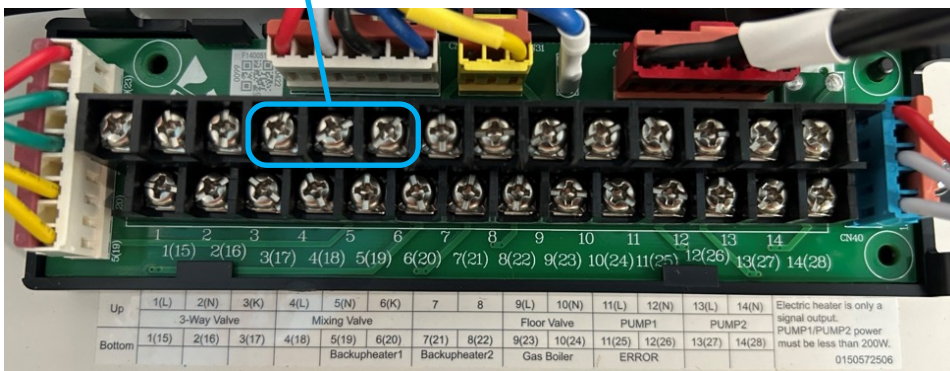
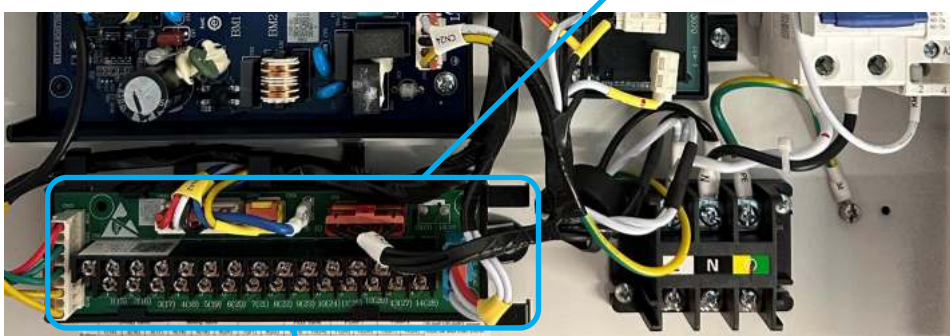
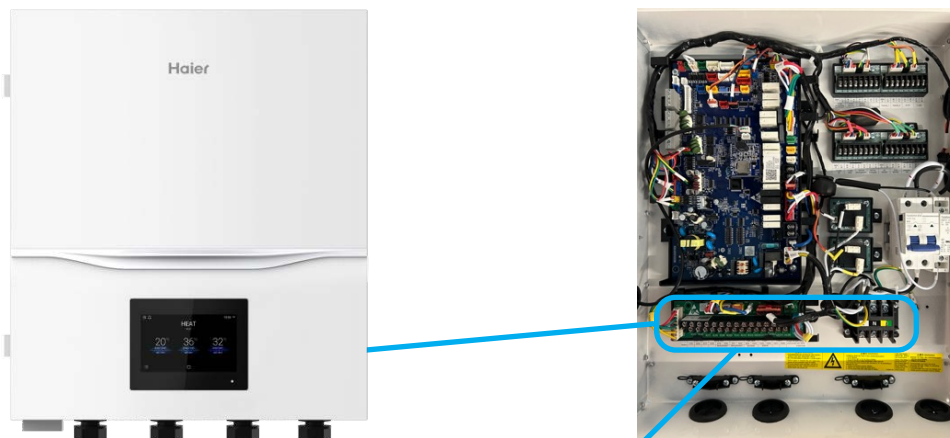
* Todas las conexiones de la placa de conexiones 5 son con terminales de tornillo.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N			Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

En la placa de conexiones número 5 entre los terminales 13 (fase) y 14 (neutro) podemos conectar la bomba de agua para la zona 1. En esta conexión tenemos una tensión de salida de 230 VAC. La potencia eléctrica máxima que puede soportar este contacto es de 200 W.



Válvula mezcladora para la zona 2



Placa de conexión 5

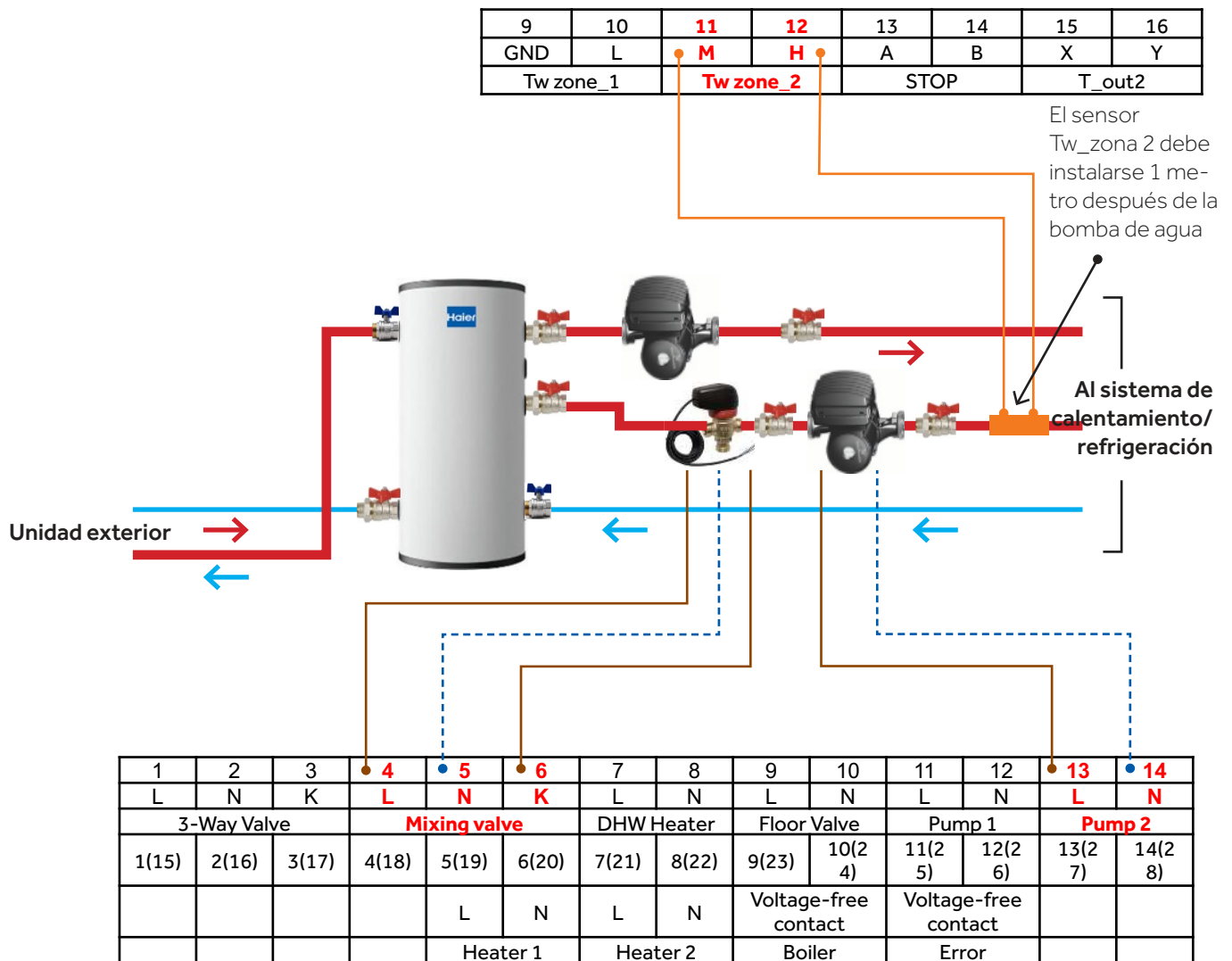
* Todas las conexiones de la placa de conexiones 5 son con terminales de tornillo.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			Floor Valve			Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact		Voltage-free contact			
			Heater 1			Heater 2		Boiler		Error			



En la placa de conexiones número 5 los terminales 4 (L), 5 (N) y 6 (K) podemos conectar la válvula mezcladora para la zona 2. En esta conexión tenemos una tensión de salida de 230 VAC entre 4 (L - fase) y 5 (N - neutro) para cerrar la válvula; 230 VAC entre 6 (K - fase) y 5 (N - neutro) para abrir la válvula

3.3. ESQUEMA DE CONEXIÓN SIMPLIFICADO



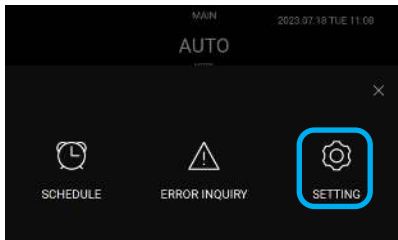
	Depósito del acumulador de inercia		Sensor de temperatura del agua Tw zona 2
	Válvula de bola		Caudal de agua de impulsión
	Válvula de bola		Caudal de agua de retorno
	Bomba de agua		Fase
	Valor de mezcla		Neutro

3.4. AJUSTES DEL REGULADOR

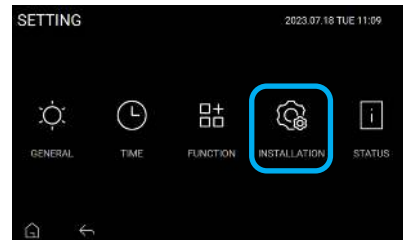
Ajustes principales de la instalación del equipo



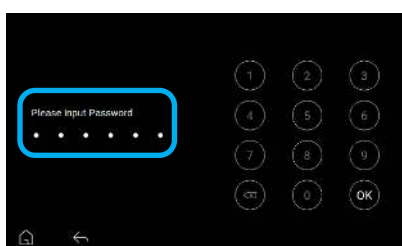
1



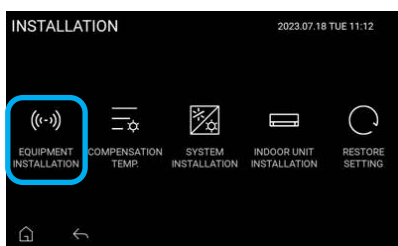
2



3



4 * Contraseña "841226"



5



← ENCENDIDO
 ← ENCENDIDO
 ← APAGADO
 ← APAGADO

* SELECCIONE EL MODO DE CONTROL PARA LA ZONA 1
 * SELECCIONE EL MODO DE CONTROL PARA LA ZONA 2

Función	Rango de parámetros	Ajustes
Zona 1	ENCENDIDO/APAGADO	ENCENDIDO
Zona 2	ENCENDIDO/APAGADO	ENCENDIDO



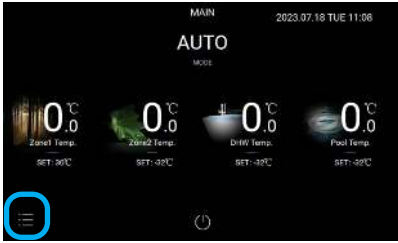
← ENCENDIDO
 ← APAGADO
 ← ENCENDIDO
 ← APAGADO

* SELECCIONE ENCENDIDO PARA CONSIDERAR EL DEPÓSITO DEL ACUMULADOR DE INERCIA
 * SELECCIONE ENCENDIDO PARA PERMITIR EL MODO FRÍO
 * SELECCIONE ENCENDIDO PARA PERMITIR EL MODO FRÍO DE LA ZONA 2

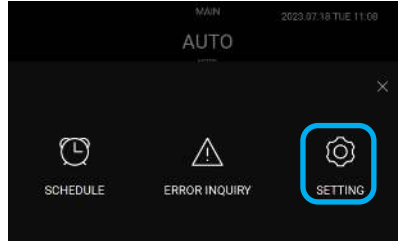
Función	Rango de parámetros	Ajustes
Depósito del acumulador de inercia	ENCENDIDO/APAGADO	ENCENDIDO
Permitir modo frío	ENCENDIDO/APAGADO	ENCENDIDO
Permitir modo frío zona 2	ENCENDIDO/APAGADO	APAGADO

* LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.

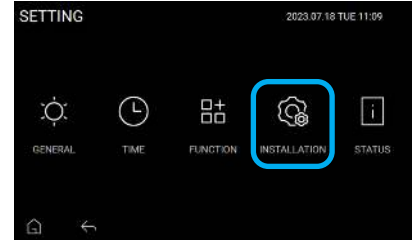
Ajustes principales de la instalación del sistema



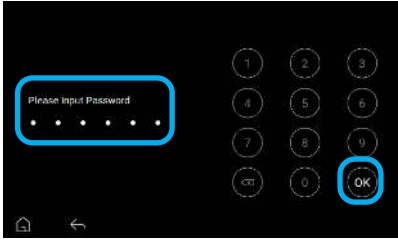
1



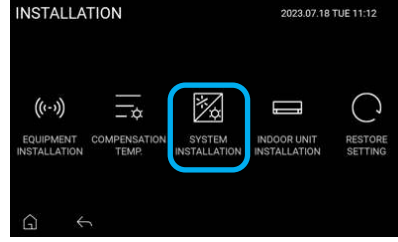
2



3



4 * Contraseña "841226" OK



5



← Regulador principal

← Regulador principal

← Regulador principal

← Regulador principal

* SELECCIONE EL MODO DE CONTROL PARA LA ZONA 2

* SELECCIONE EL MODO DE CONTROL PARA LA ZONA 1

Función	Rango de parámetros	Ajustes
Modo de control de la zona 1	Controlador principal Controlador de terceros, sensor de temperatura ambiente IDU	Regulador principal
Modo de control de la zona 2	Regulador principal Regulador de terceros	Regulador principal



← 45°C

← 27°C

← 6°C

← 0°C

*INTRODUZCA DELTA T° DE CALENTAMIENTO ENCENDIDO

Pulse el icono de "casa" para volver al menú principal

Función	Rango de parámetros	Ajustes
ΔT para Calentamiento encendido	0 - 15°C	6°C

DESPLÁCESE DOS PÁGINAS HACIA ABAJO PARA VER ESTOS AJUSTES



***INTRODUCIR TEMPERATURA DE CAS**



Función	Rango de parámetros	Ajustes
Tiempo de recorrido del valor de mezcla	30 - 240 s	60 s

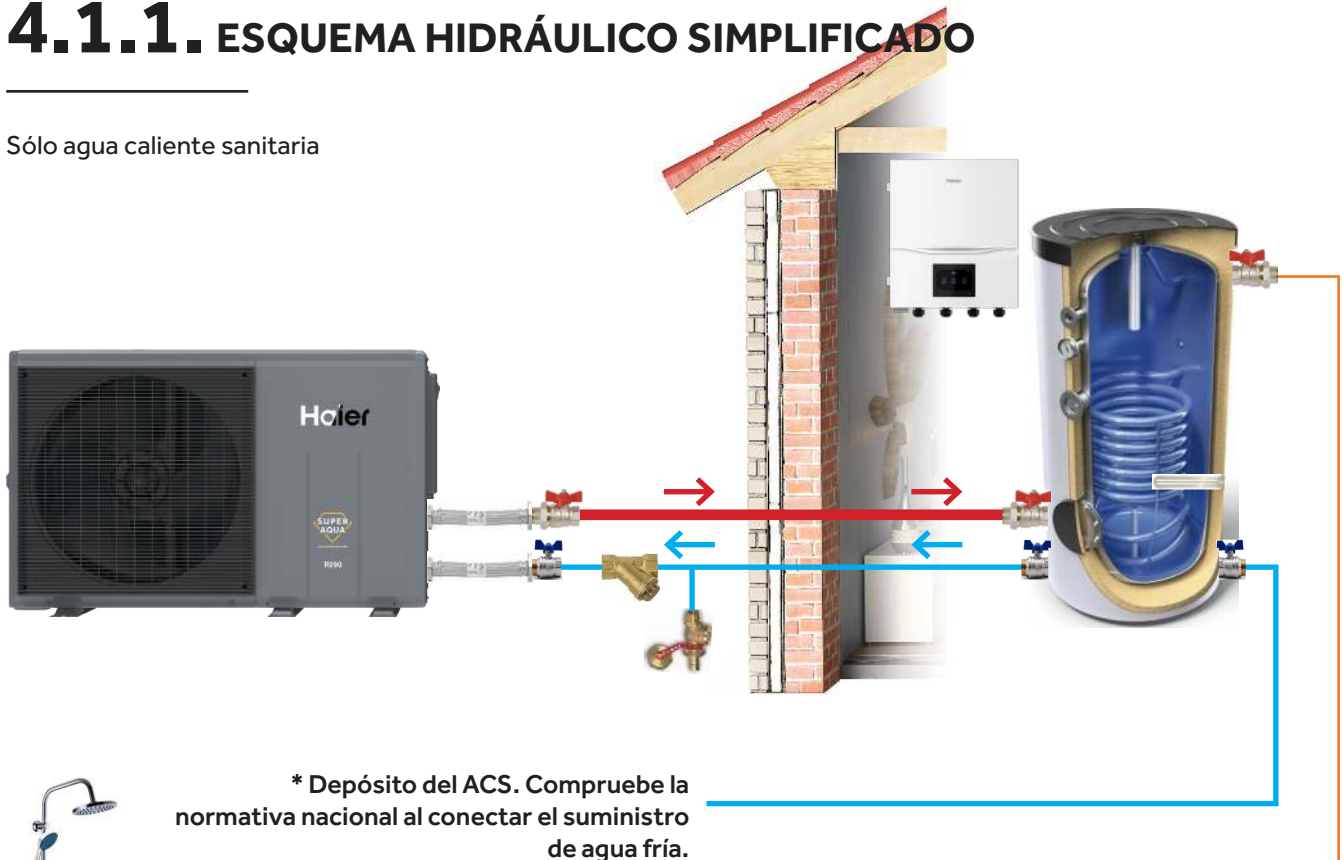
*** LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.**

4.0. AGUA CALIENTE SANITARIA

4.1. INSTALACIÓN DEL ACS

4.1.1. ESQUEMA HIDRÁULICO SIMPLIFICADO

Sólo agua caliente sanitaria



* Depósito del ACS. Compruebe la normativa nacional al conectar el suministro de agua fría.

	Tubo flexible		Depósito de ACS
	Válvula de bola		Calentador eléctrico del ACS
	Válvula de bola		Caudal de agua de impulsión
	Filtro de agua		Caudal de agua de retorno
	Válvula de drenaje		

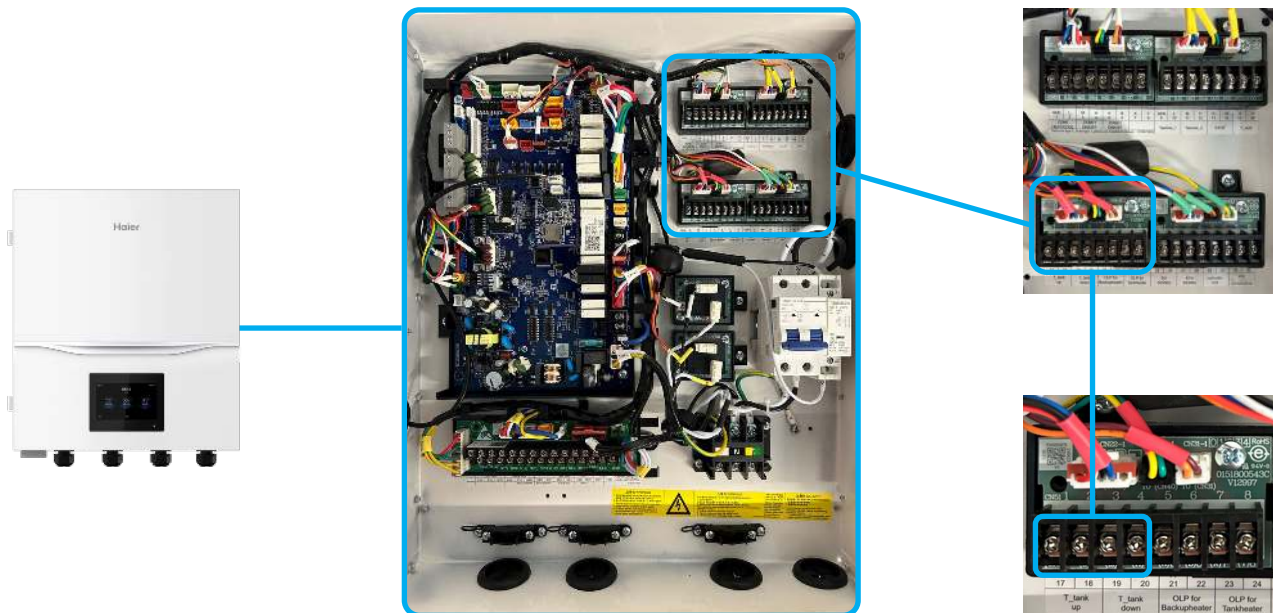
TODOS LOS ESQUEMAS Y ACCESORIOS SON SÓLO UN EJEMPLO DE INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA NORMATIVA LOCAL.

RESPECTO A LAS CONEXIONES ELÉCTRICAS, CONSULTE EL PUNTO 1.0.

Un error E10 se muestra si un sensor de cilindro no está cableado en el sistema.

4.1.2. CONEXIONES

Conexión de los sensores de temperatura del agua



Placa de conexión 3

Placa de conexión

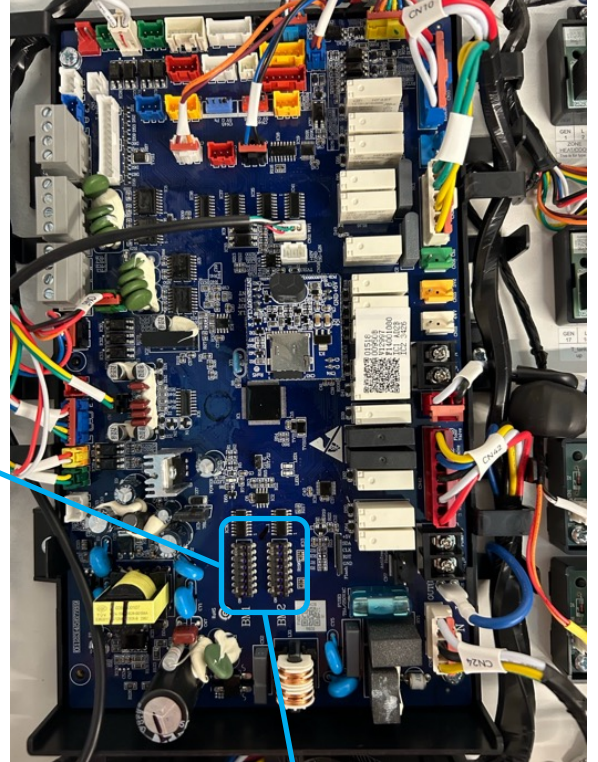
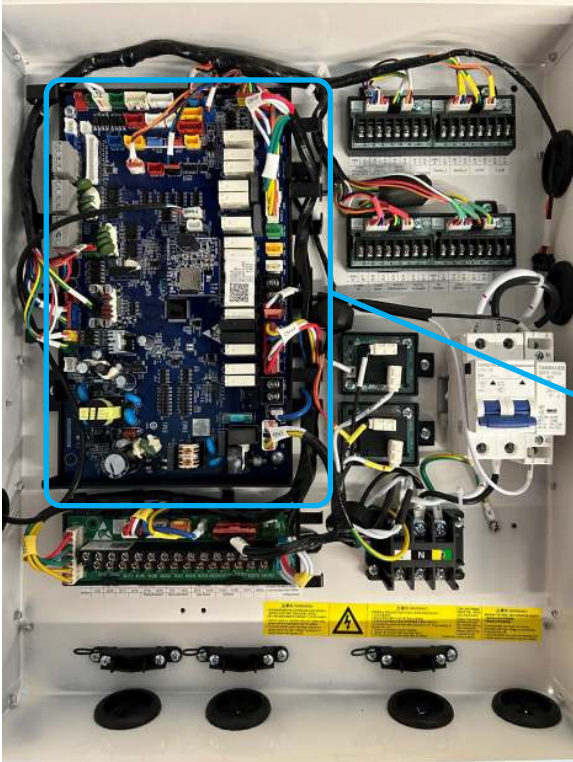
17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_depósito arriba		T_depósito abajo		OLP auxiliar Calentador		OLP para el calentador del depósito	

En la placa de conexiones número 3 entre los terminales 17 (GND) y 18 (L) debemos conectar el sensor de temperatura del agua T_depósito arriba para el depósito de ACS, que debe instalarse en la parte superior del depósito.

En la placa de conexiones número 3 entre los terminales 19 (M) y 20 (H) debemos conectar el sensor de temperatura de del agua T_depósito abajo, que debe ir instalado en el fondo del depósito.

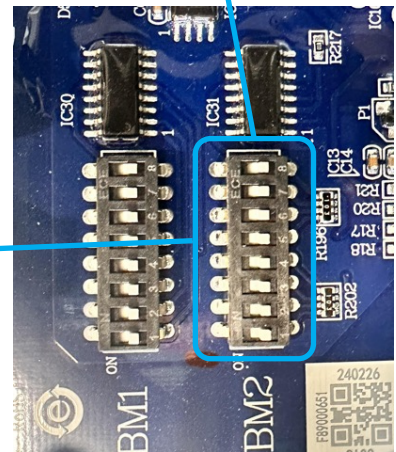
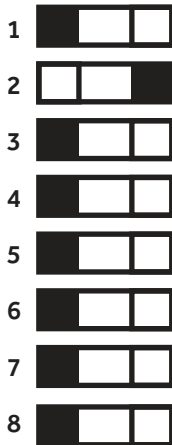
* Si el ACS tiene sólo una cavidad para el regulador de la temperatura del agua utilice sólo T-depósito arriba; es necesario modificar el interruptor BM2 en ATW-A03 N para evitar un error E10, falta sensor de temperatura.

Ajuste del interruptor - 1 sensor para el ACS



BIM 2

APAGADO (0) ENCENDIDO (1)

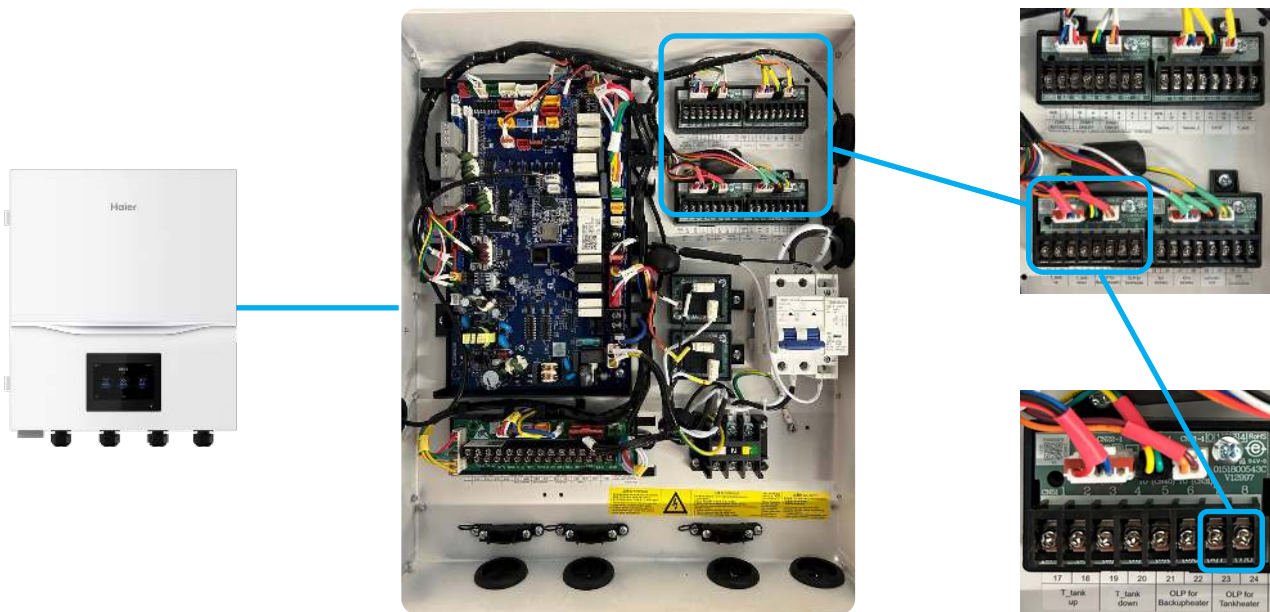


BM2	Depósito de agua Selección del sensor	(2)	Selección del sensor del depósito de agua
		ENCENDIDO (1)	Sólo 1 sensor, T_depósito arriba
		APAGADO (0)	2 sensores, T_depósito arriba y T_depósito abajo (por defecto)

Si su instalación utiliza un sensor de ACS, cambie el interruptor 2 de BM2 a encendido.

A tener en cuenta: Debe apagar la unidad durante 60 segundos y luego mover los interruptores DIP; no se leen si la unidad está encendida.

Puerto de realimentación de la señal de protección del calentador eléctrico para el calentador del depósito (OLP)



Placa de conexión 3

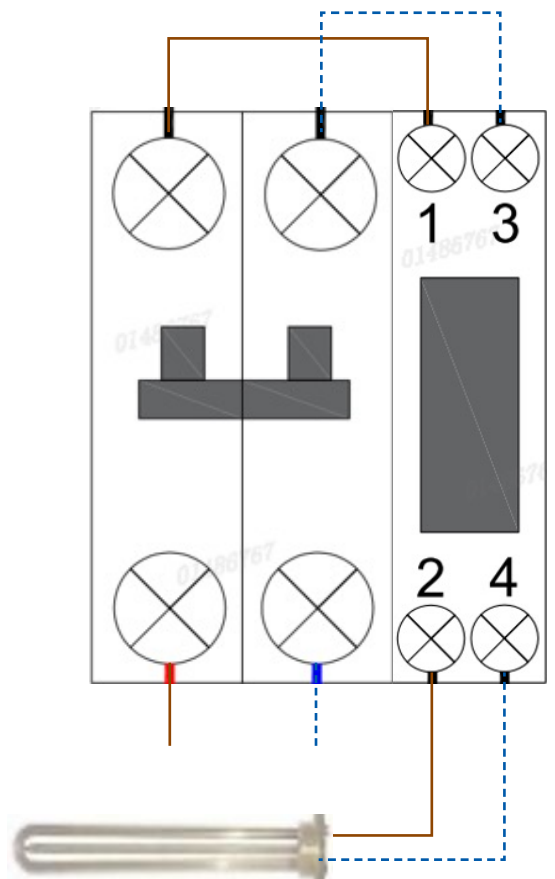
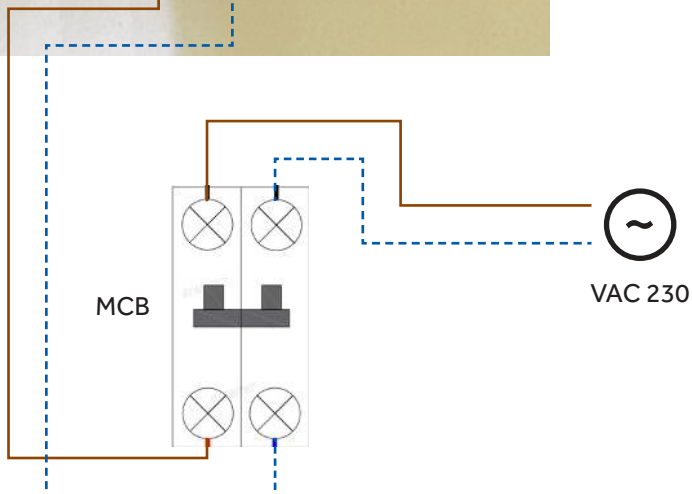
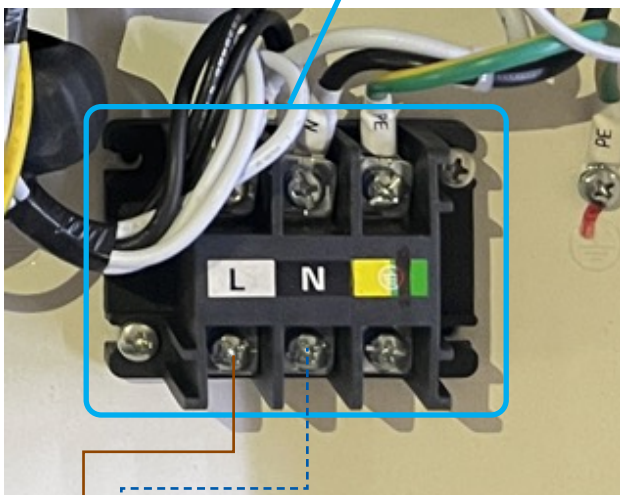
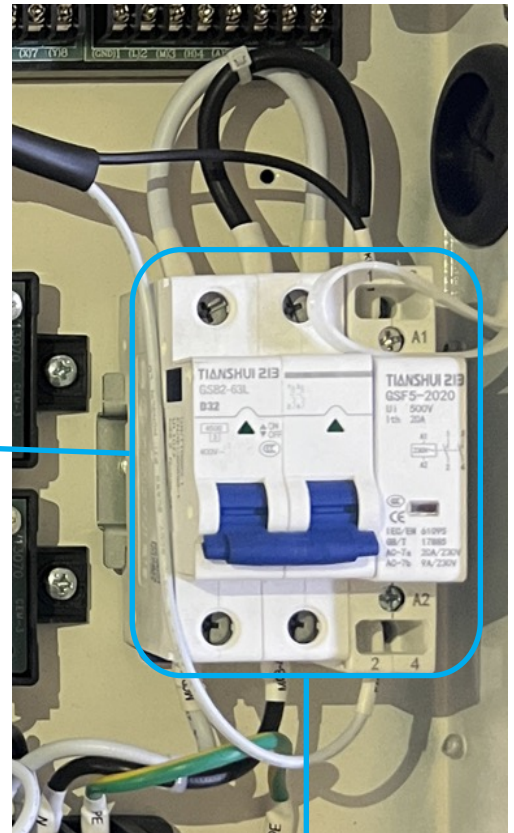
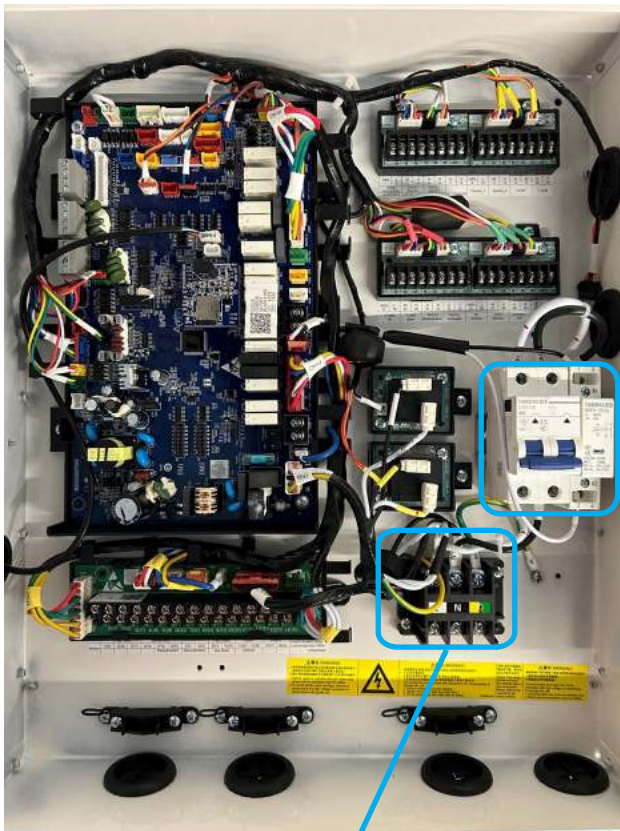
Placa de conexión

17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_depósito arriba		T_depósito abajo		OLP auxiliar Calentador		OLP para el calentador del depósito	

En la placa de conexiones número 3, entre los terminales 23 (X) y 24 (Y), conecte el OLP para el calentador del depósito

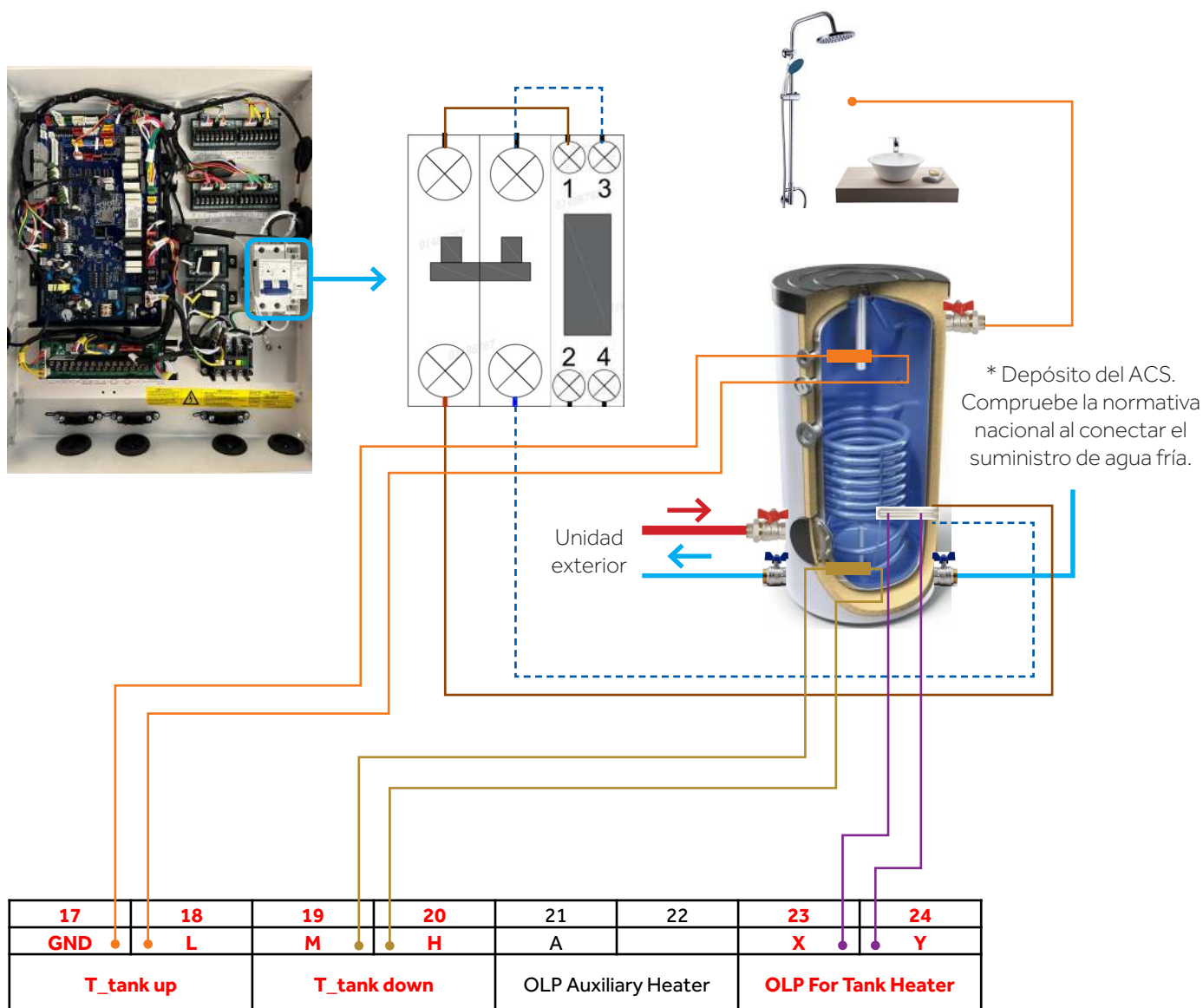
En la placa de conexiones número 3 entre los terminales 23 (X) y 24 (Y) debemos conectar la protección eléctrica del calentador para el depósito de ACS. Se trata de un contacto normalmente cerrado libre de tensión, lo que significa que cuando el contacto está cerrado, no hay error; cuando el contacto está abierto, tenemos un error.

Calentador eléctrico



4.1.3. ESQUEMA DE CONEXIÓN SIMPLIFICADO

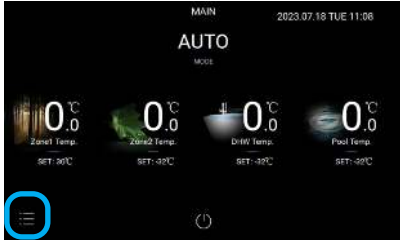
Ajustes principales de la instalación del equipo



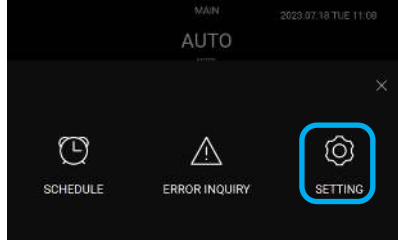
	Depósito de ACS		Sensor de temperatura del agua T_depósito arriba
	Válvula de bola		Sensor de temperatura del agua T_depósito abajo
	Válvula de bola		OLP para el calentador del depósito
	Caudal de agua de impulsión		Línea
	Caudal de agua de retorno		Neutro
	Calentador eléctrico del ACS		

4.1.4. AJUSTES DEL REGULADOR

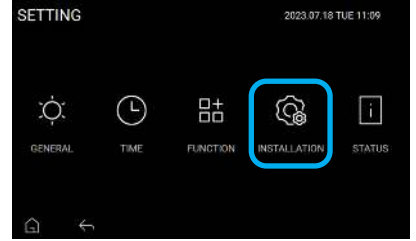
Ajustes principales de la instalación del sistema



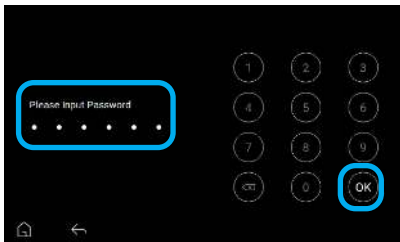
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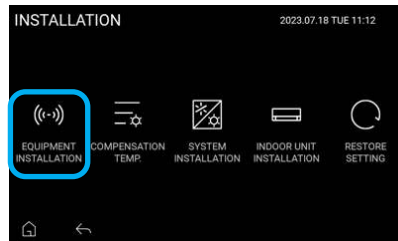
2



3



4 * Contraseña "841226" OK



5



← APAGADO

← **ENCENDIDO**

← APAGADO

* SELECCIONE ENCENDIDO PARA EL ACS

Función	Rango de parámetros	Ajustes
ACS	ENCENDIDO/APAGADO	ENCENDIDO



← 0°C

← 10min

← **ENCENDIDO**

← **3,0 kW**

* SELECCIONE ENCENDIDO PARA PERMITIR EL CALENTADOR DEL DEPÓSITO

* INTRODUCZA LA POTENCIA DEL CALENTADOR DEL DEPÓSITO

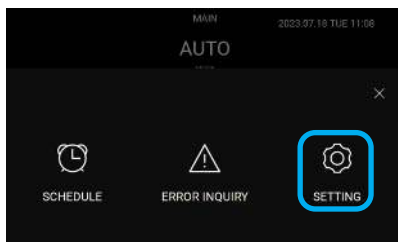
Pulse el icono de "casa" para volver al menú principal

Función	Rango de parámetros	Ajustes
Permitir calentador del depósito	ENCENDIDO/APAGADO	ENCENDIDO
Potencia del calentador del depósito	0,0 - 9,0 kW	3,0 kW

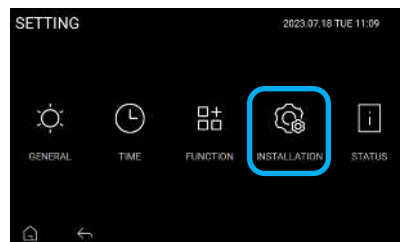
* **LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.**



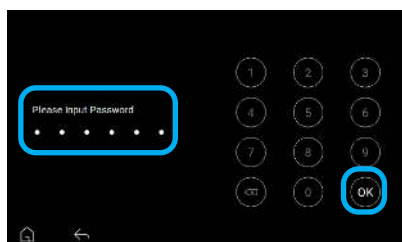
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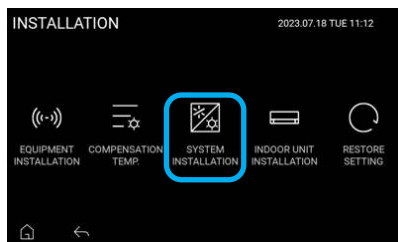
2



3



4 * Contraseña "841226" OK



5



- ← Regulador principal
- ← Regulador principal
- ← **Regulador principal**
- ← Regulador principal

*** SELECCIONE EL MODO DE CONTROL DEL ACS**

Función	Rango de parámetros	Ajustes
Modo de control del ACS	Regulador principal, Regulador de terceros	Regulador principal



- ← **45°C**
- ← 27°C
- ← 6°C
- ← 0°C

*** SELECCIONE TEMP DEL ACS ENCENDIDA**
ESTE AJUSTE INDICA A LA UNIDAD LA TEMPERATURA A LA QUE DEBE DESCENDER EL AGUA ANTES DE QUE COMIENCE A CALENTAR EL DEPÓSITO DEL ACS.

Función	Rango de parámetros	Ajustes
Temp del ACS encendida	30 - 75°C	45°C



***INTRODUZCA LA TEMPERATURA DE RECALENTAMIENTO DEL DEPÓSITO**

Pulse el icono de "casa" para volver al menú principal

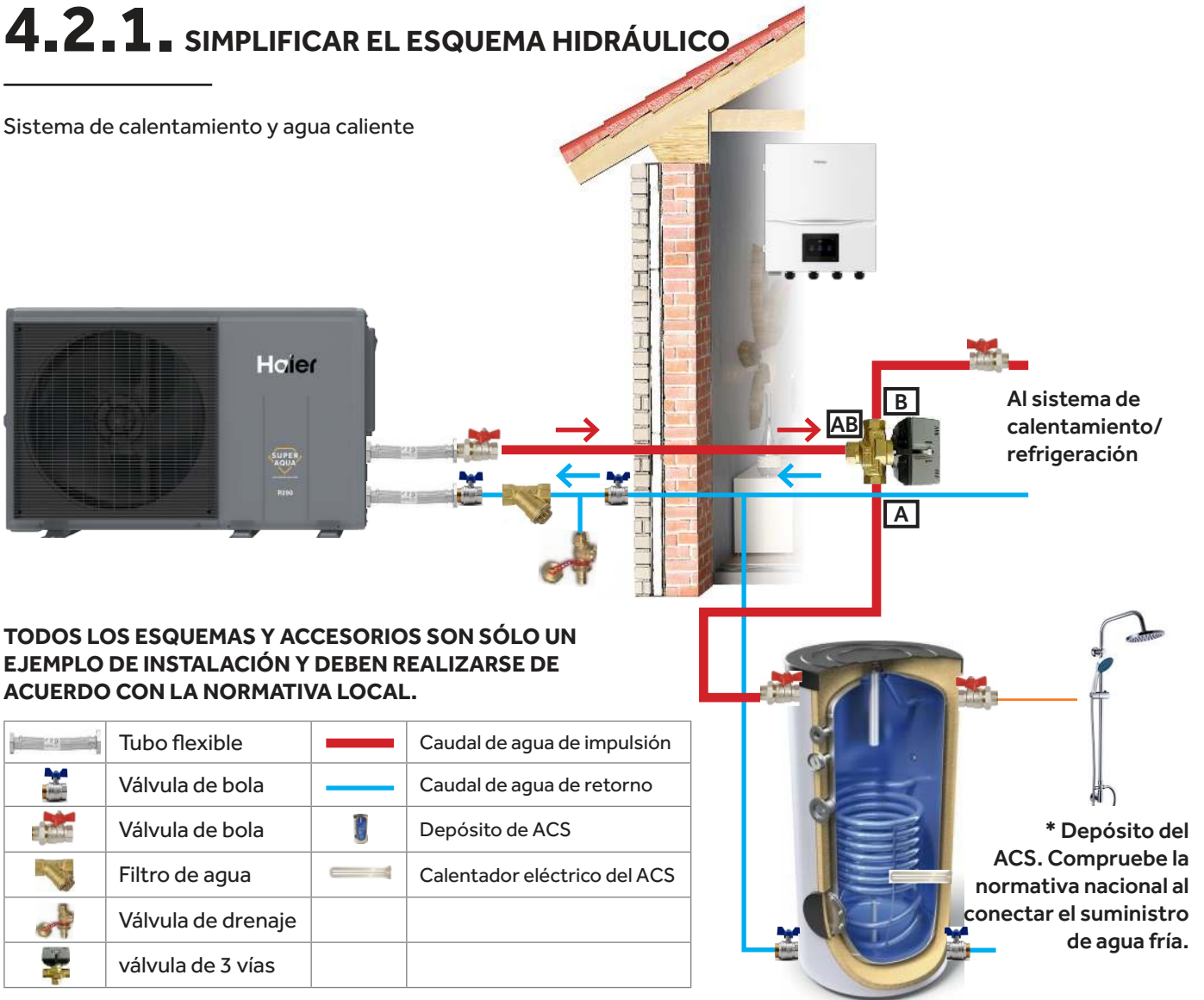
Función	Rango de parámetros	Ajustes
Temperatura de recalentamiento del depósito	-12 - 2 °C	-3 °C

*** LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.**

4.2. ACS + VÁLVULA DE 3 VÍAS PARA INSTALACIÓN DE CALENTAMIENTO Y REFRIGERACIÓN

4.2.1. SIMPLIFICAR EL ESQUEMA HIDRÁULICO

Sistema de calentamiento y agua caliente

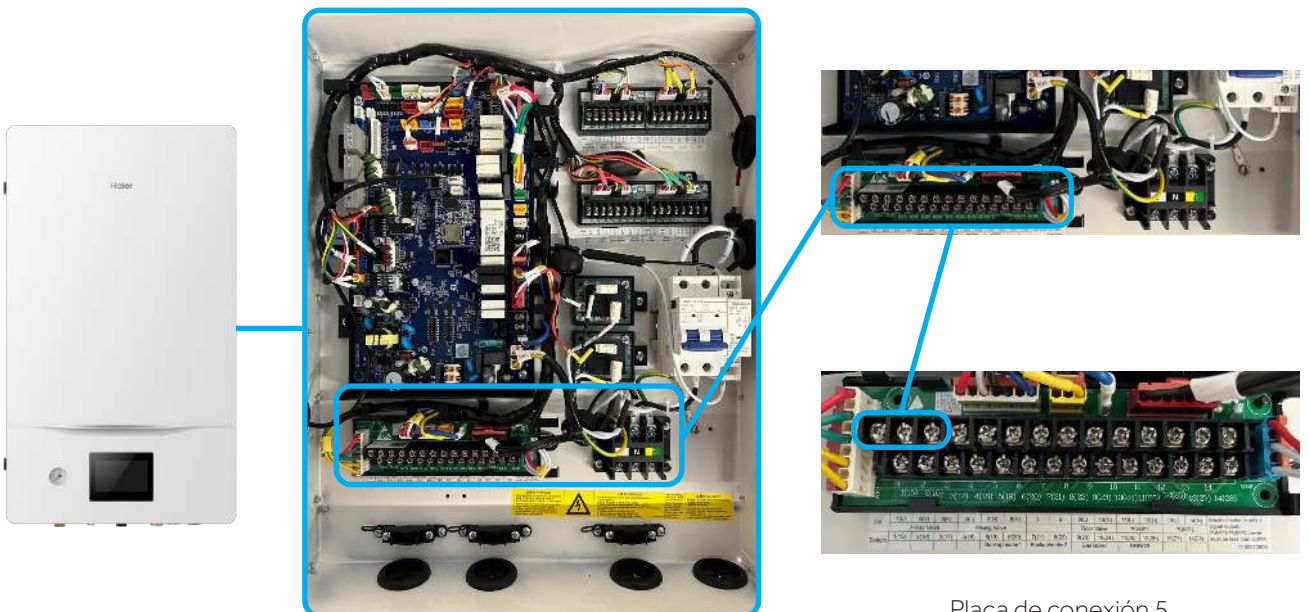


TODOS LOS ESQUEMAS Y ACCESORIOS SON SÓLO UN EJEMPLO DE INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA NORMATIVA LOCAL.

	Tubo flexible		Caudal de agua de impulsión
	Válvula de bola		Caudal de agua de retorno
	Válvula de bola		Depósito de ACS
	Filtro de agua		Calentador eléctrico del ACS
	Válvula de drenaje		
	válvula de 3 vías		

RESPECTO A LAS CONEXIONES ELÉCTRICAS, CONSULTE EL PUNTO 1.0.

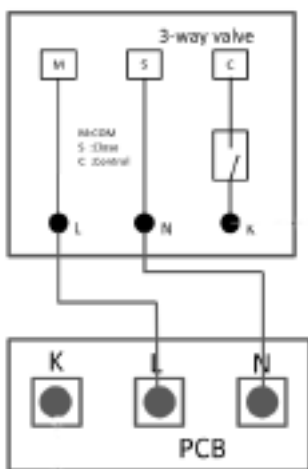
Válvula de tres vías



Placa de conexión 5

Placa de conexión

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				

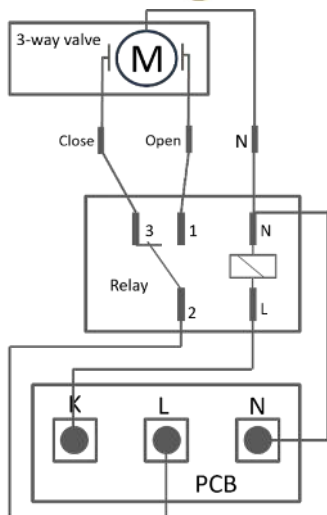


SPST

Si utiliza una válvula de 3 vías con retorno por muelle.

La válvula necesita una señal de 230 voltios de K (fase) a N (neutro) para pasar al modo ACS. Cuando no haya demanda de ACS, la válvula no recibirá energía, por lo que volverá a la posición de calentamiento utilizando el muelle de retorno.

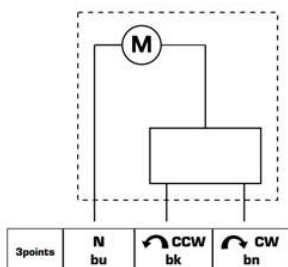
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



SPDT

Si utiliza una válvula de 3 puertos sin retorno por muelle, deberá añadir un relé alimentado por campo. La pcb sólo tiene una salida por lo que no puede abrir y cerrar la válvula.

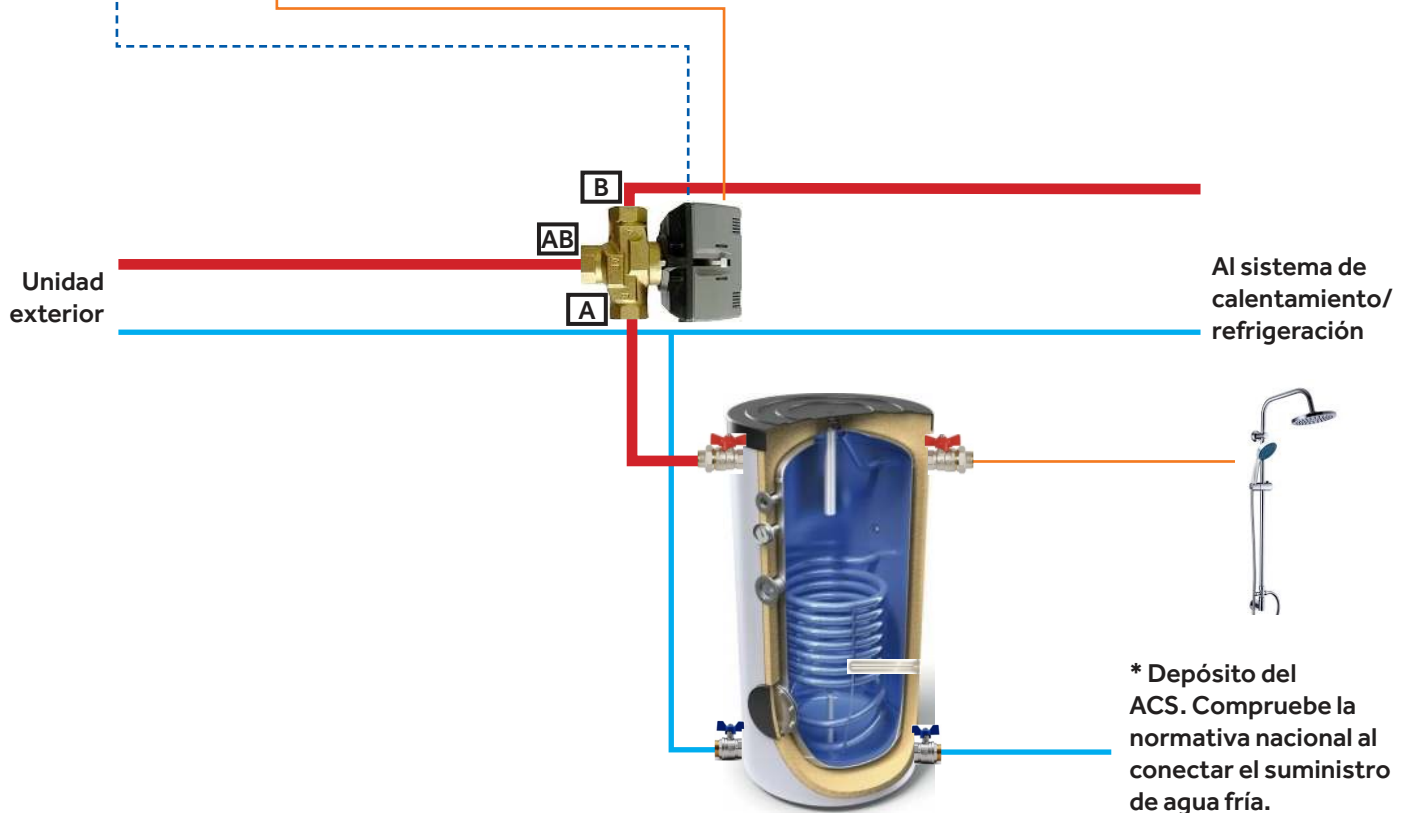
Utilice la L y la N de la pcb para accionar la bobina del relé y conecte la válvula al relé, según el esquema.



4.2.2. ESQUEMA DE CONEXIÓN SIMPLIFICADO

Placa de conexión

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



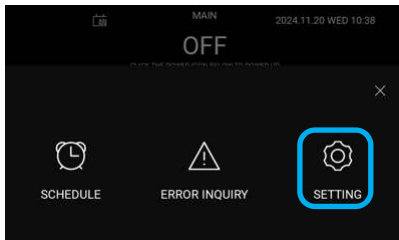
* CONEXIONES PARA LAS ZONAS 1 Y 2, CONSULTE EL CAPÍTULO 2.0 Y 3.0

4.2.3. AJUSTES DEL REGULADOR

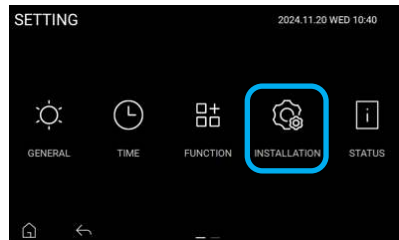
Ajustes principales de la instalación del sistema



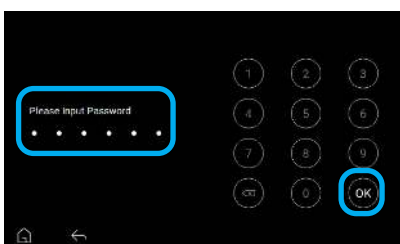
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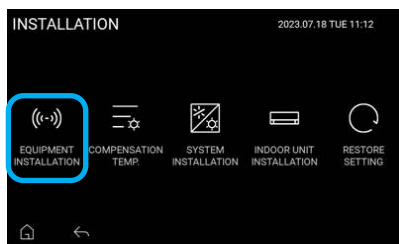
2



3



4 * Contraseña "841226" OK



5



- ← ENCENDIDO
- ← APAGADO
- ← APAGADO
- ← ENCENDIDO

* SELECCIONE ENCENDIDO PARA ACTIVAR LA ZONA 1

* SELECCIONE ENCENDIDO PARA CONSIDERAR EL DEPÓSITO DEL ACUMULADOR DE INERCIA

Función	Rango de parámetros	Ajustes
Zona 1	ENCENDIDO/APAGADO	ENCENDIDO
ACS	ENCENDIDO/APAGADO	ENCENDIDO



- ← APAGADO
- ← APAGADO
- ← ENCENDIDO/APAGADO
- ← APAGADO

* SELECCIONE ENCENDIDO PARA PERMITIR EL CALENTADOR DEL DEPÓSITO

Función	Rango de parámetros	Ajustes
Permitir modo frío	ENCENDIDO/APAGADO	ENCENDIDO

* LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.



- ← 0°C
- ← 10 min
- ← ENCENDIDO
- ← 3,0 kW

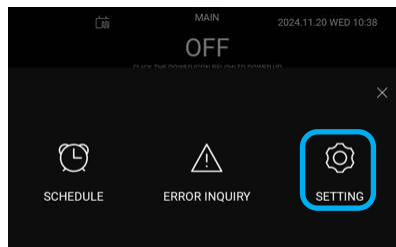
*** INTRODUZCA LA POTENCIA DEL CALENTADOR DEL DEPÓSITO**

Pulse el icono de "casa" para volver al menú principal

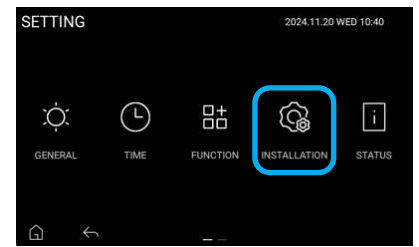
Función	Rango de parámetros	Ajustes
Permitir calentador del depósito	ENCENDIDO/APAGADO	ENCENDIDO
Potencia del calentador del depósito	0,0 - 9,0 kW	3,0 kW



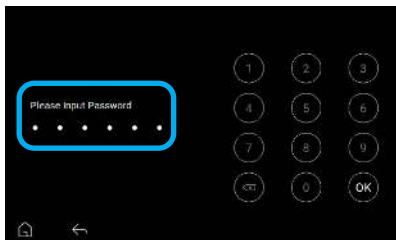
1



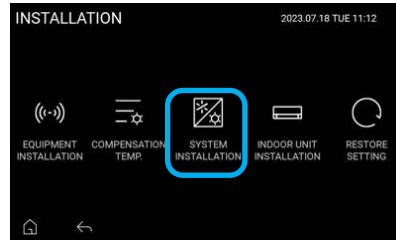
2



3



4 * Contraseña "841226"



5



- ← Regulador principal
- ← Regulador principal
- ← Regulador principal
- ← Regulador principal

*** SELECCIONE EL MODO DE CONTROL PARA LA ZONA 1**

*** SELECCIONE EL MODO DE CONTROL DEL ACS**

Función	Rango de parámetros	Ajustes
Modo de control de la zona 1	Controlador principal Controlador de terceros, sensor de temperatura ambiente IDU	Regulador principal
Modo de control del ACS	Controlador principal Controlador de terceros, sensor de temperatura ambiente IDU	Regulador principal



* SELECCIONE TEMP DEL ACS ENCENDIDA

* SELECCIONE DELTA T° PARA CALENTAMIENTO ENCENDIDO

ESTE AJUSTE INDICA A LA UNIDAD LA TEMPERATURA A LA QUE DEBE DESCENDER EL AGUA ANTES DE QUE COMIENZE A CALENTAR EL DEPÓSITO DEL ACS.

Función	Rango de parámetros	Ajustes
Temp del ACS encendida	30 - 75 °C	45 °C
ΔT para Calentamiento encendido	0 - 15 °C	6 °C



* AJUSTE TEMP. DE RECALENTAMIENTO DEL DEPÓSITO

Función	Rango de parámetros	Ajustes
Temperatura de recalentamiento del depósito	-12 - 2 °C	-3 °C



Pulse el icono de "casa" para volver al menú principal

Función	Rango de parámetros	Ajustes
DT para refrigeración encendida	0 - 15 °C	5 °C

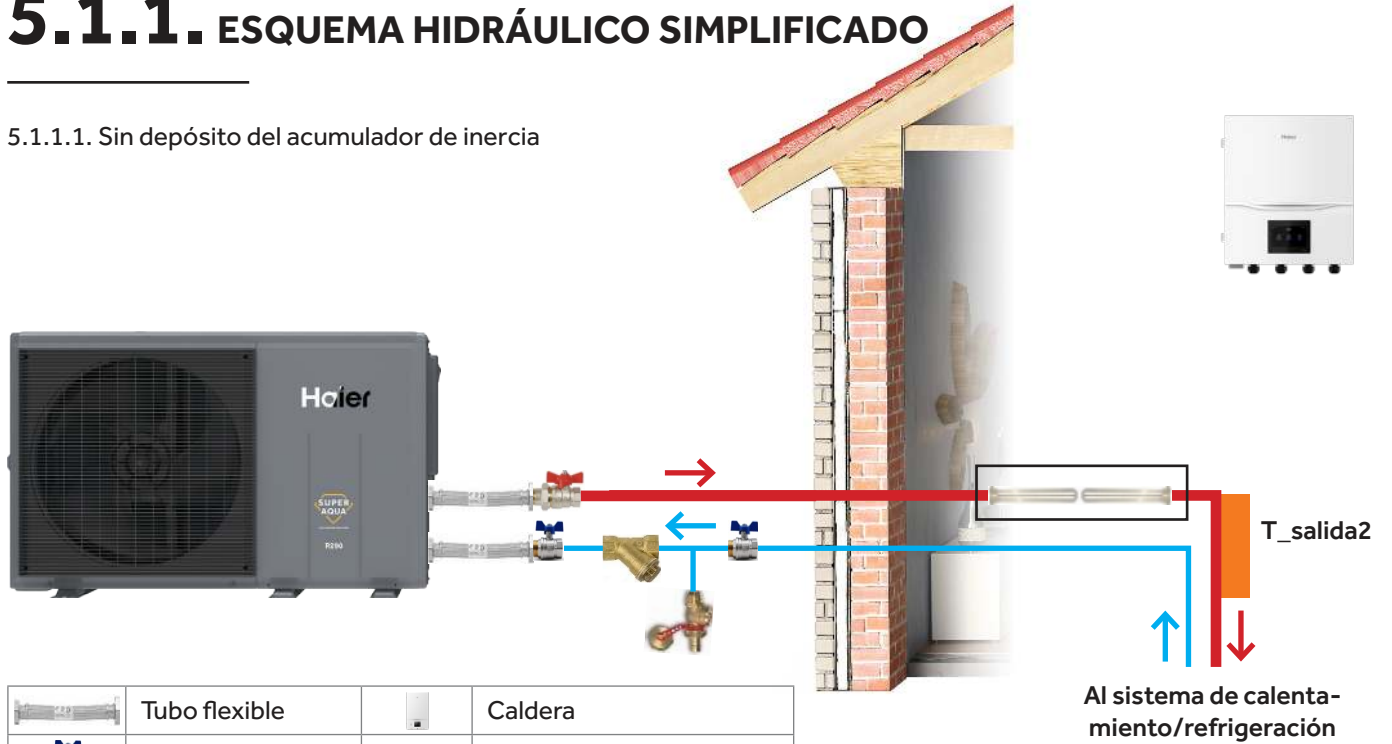
* LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.

5.0. CONEXIÓN DE FUENTE DE CALOR AUXILIAR

5.1. CALENTADOR ELÉCTRICO

5.1.1. ESQUEMA HIDRÁULICO SIMPLIFICADO

5.1.1.1. Sin depósito del acumulador de inercia



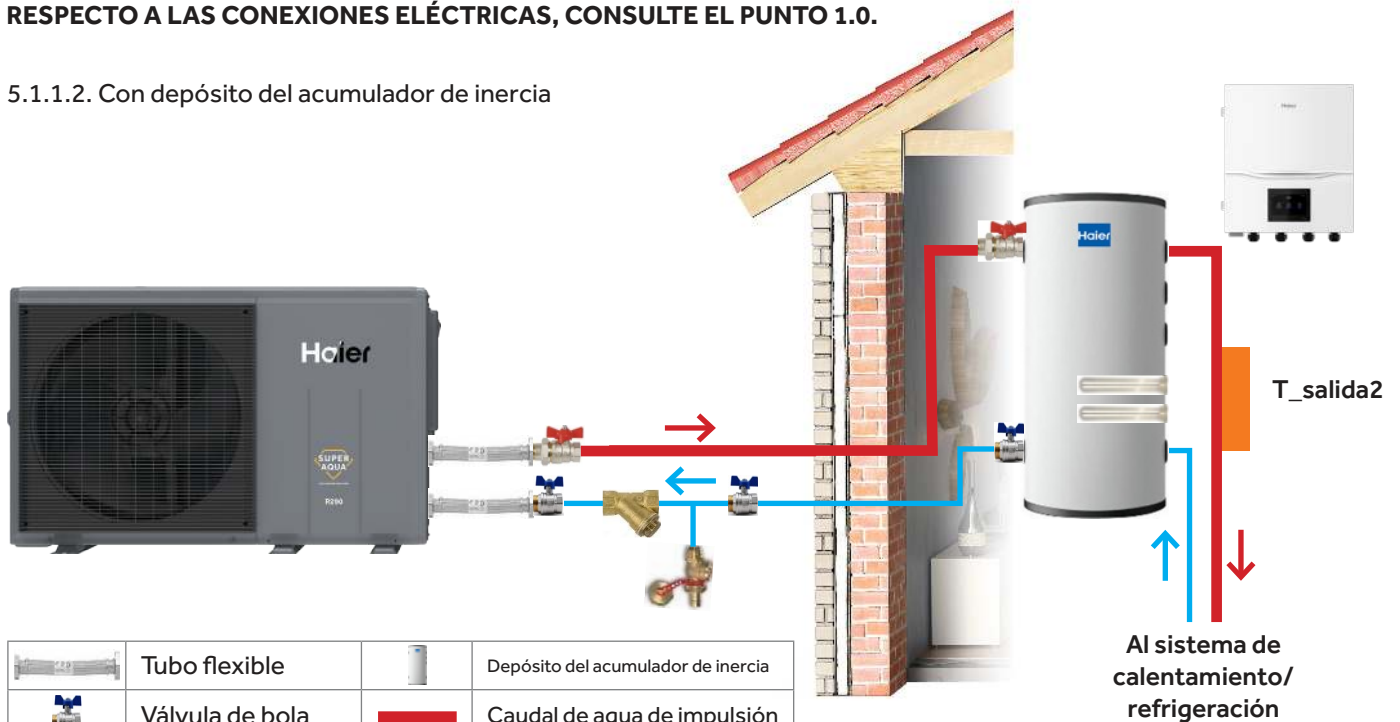
	Tubo flexible		Caldera
	Válvula de bola		Caudal de agua de impulsión
	Válvula de bola		Caudal de agua de retorno
	Filtro de agua		Calentador eléctrico
	Válvula de drenaje		

Al sistema de calentamiento/refrigeración

TODOS LOS ESQUEMAS Y ACCESORIOS SON SÓLO UN EJEMPLO DE INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA NORMATIVA LOCAL.

RESPECTO A LAS CONEXIONES ELÉCTRICAS, CONSULTE EL PUNTO 1.0.

5.1.1.2. Con depósito del acumulador de inercia

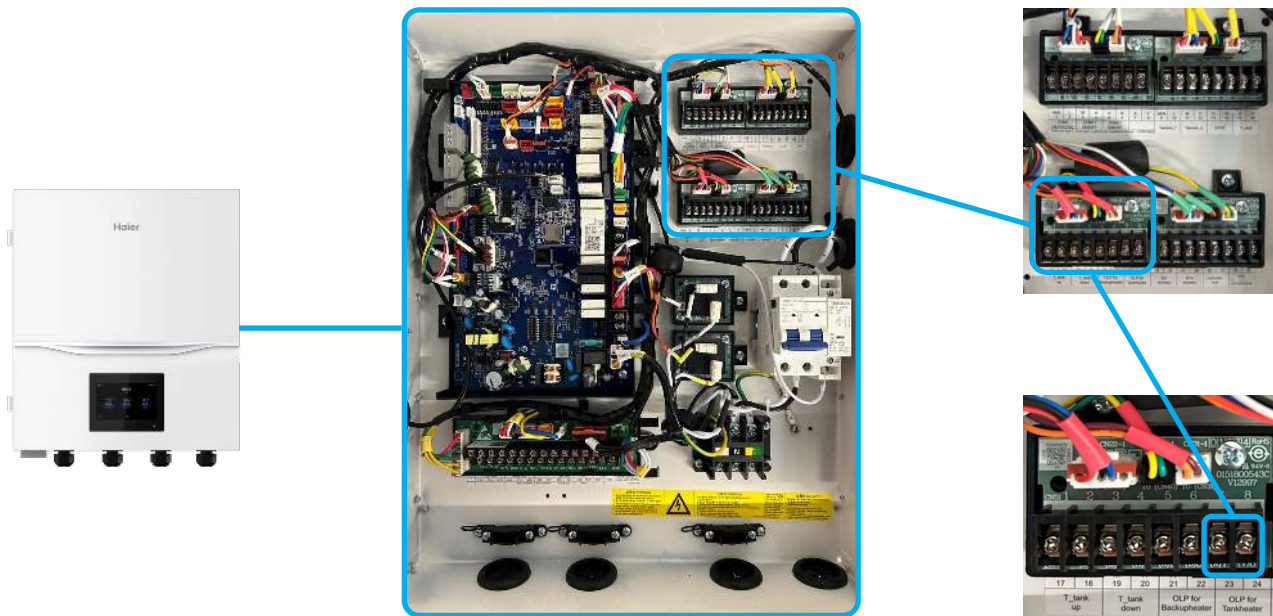


	Tubo flexible		Depósito del acumulador de inercia
	Válvula de bola		Caudal de agua de impulsión
	Válvula de bola		Caudal de agua de retorno
	Filtro de agua		Calentador eléctrico
	Válvula de drenaje		

Al sistema de calentamiento/refrigeración

5.1.2. CONEXIONES

Sensor de temperatura para la fuente de calor auxiliar



Placa de conexión 2

Placa de conexión

9	10	11	12	13	14	15	16
GND	L	M	H	A		X	Y
Tw zona_1		Tw zona_2		PARADA		T_salida2	

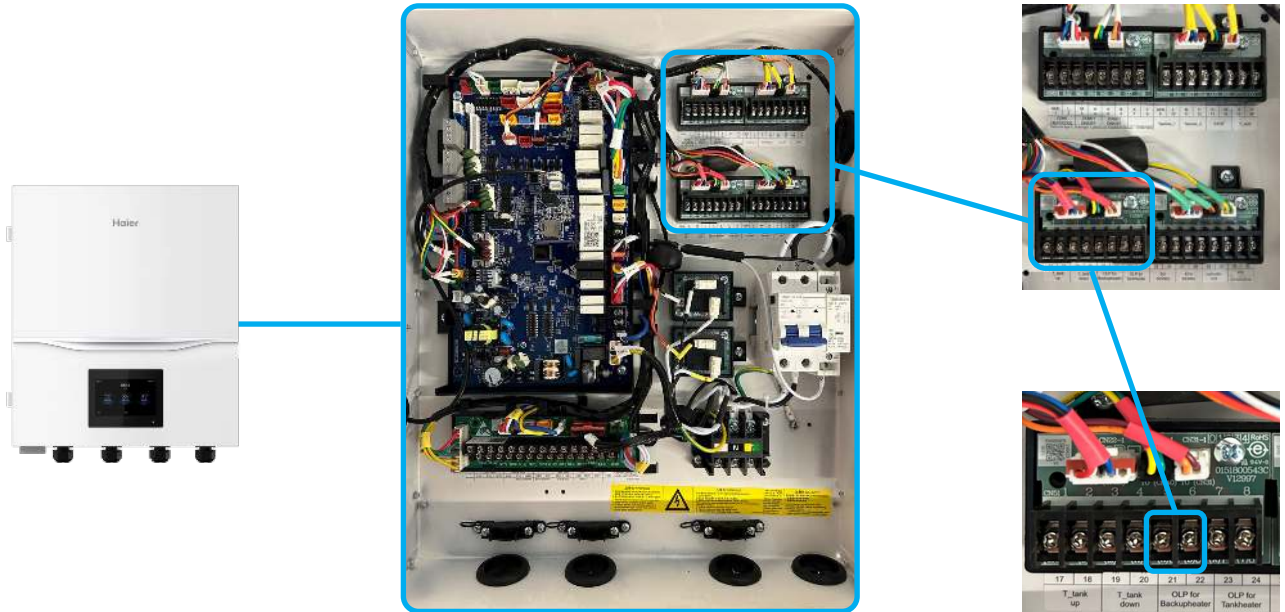
En la placa de conexiones número 2 entre los terminales 15 (X) y 16 (Y) podemos conectar el sensor de temperatura del agua para T_salida2.

*Si activamos el calentamiento auxiliar, es obligatorio conectar el sensor T_salida2 después de la fuente de calor auxiliar.

Se produce un error E02 si T_salida 2 no está conectado.

5.1.2. CONEXIONES

Protección del calentador eléctrico para la fuente de calor auxiliar



Placa de conexión 3

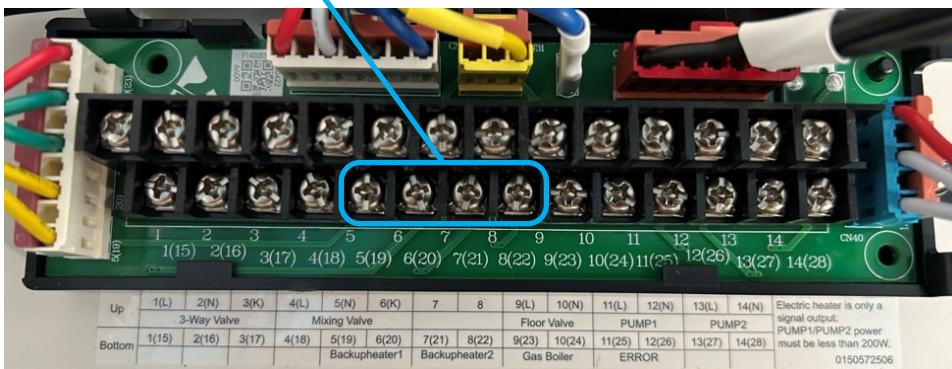
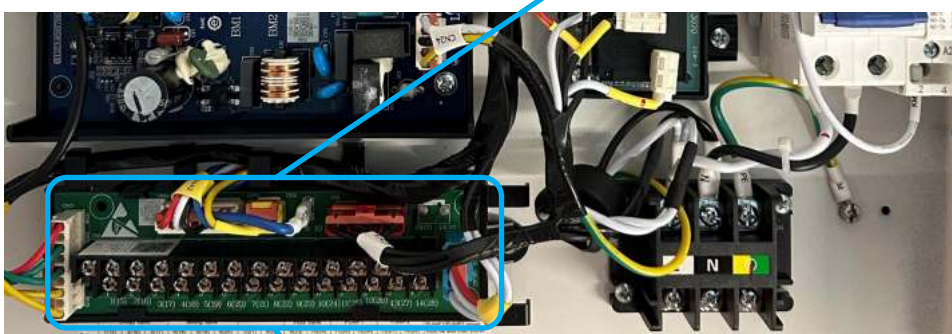
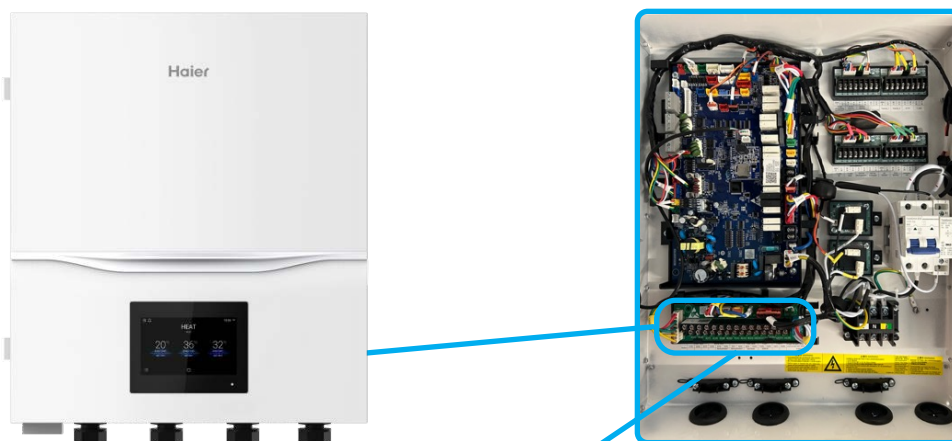
Placa de conexión

17	18	19	20	21	22	23	24
GND	L	M	H	A	B	X	Y
T_depósito arriba		T_depósito abajo		OLP auxiliar Calentador		OLP para el calentador del depósito	

En la placa de conexiones número 3, entre los terminales 21 (A) y 22 (B), conecte la protección eléctrica del calentador para la fuente de calor auxiliar. Se trata de una señal de entrada digital, normalmente cerrada, contacto libre de tensión, es decir, si el contacto está cerrado, no hay avería; si el contacto está abierto, hay avería.

Si el calentador de respaldo tiene su propio OLP en el interior se puede utilizar un puente aquí.

Señal de control para la fuente de calor auxiliar



Placa de conexión 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact		Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

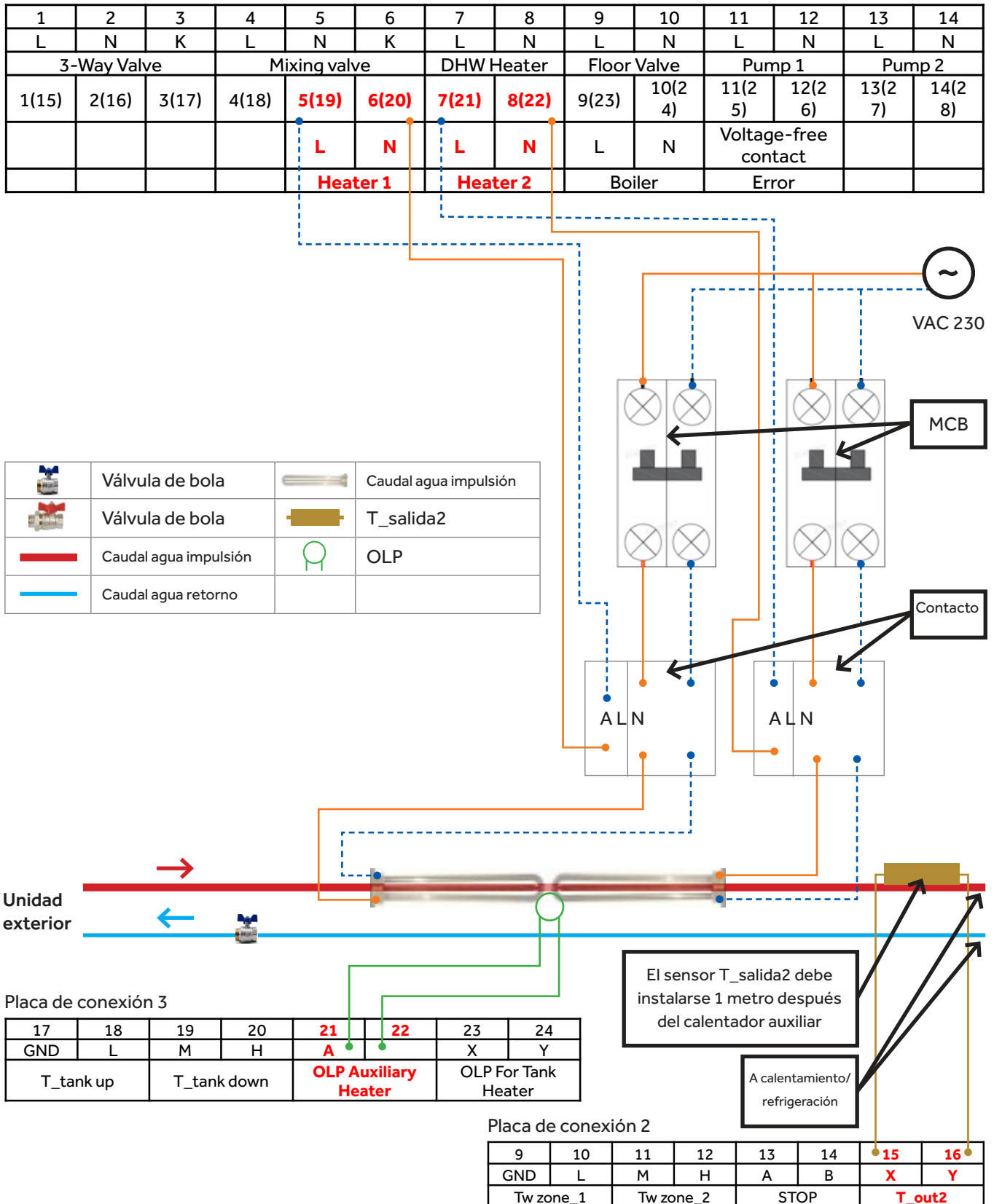


En la placa de conexiones número 5, entre los terminales 5(19) y 6(20) podemos conectar la señal para el relé del calentador 1 y entre los terminales 5(19) y 6(20) podemos conectar la señal para el relé del calentador 2. Ambas conexiones tienen una tensión de salida de 230 VAC para activar un relé.

*Esta conexión debe realizarse a través de un relé.

5.1.3. ESQUEMA DE CONEXIÓN SIMPLIFICADO

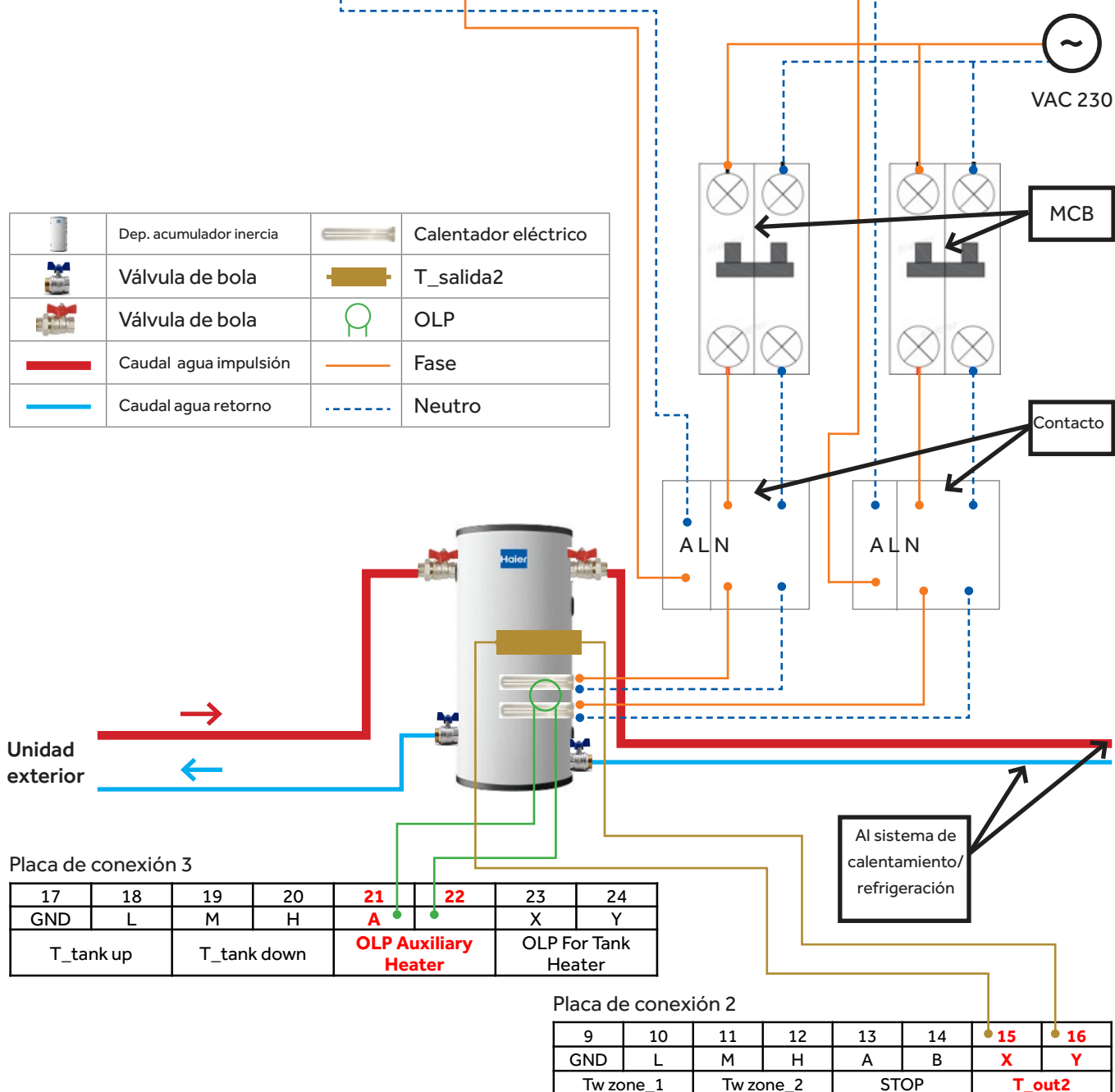
5.1.3.1. Sin depósito del acumulador de inercia



5.1.3. CON DEPÓSITO DEL ACUMULADOR DE INERCIA

5.1.3.2. Con depósito del acumulador de inercia

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

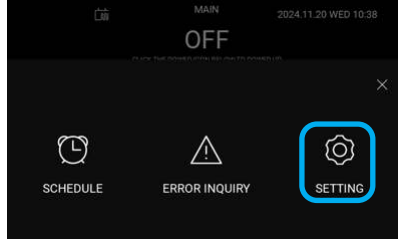


5.1.4. AJUSTES DEL REGULADOR

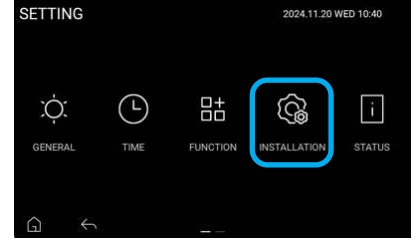
Ajustes principales de la instalación del equipo



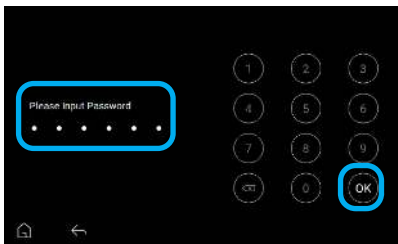
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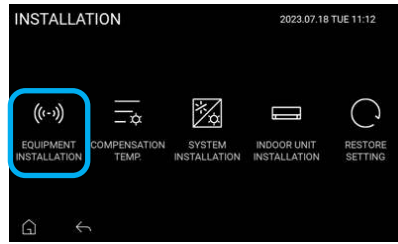
2



3



4 * Contraseña "841226" OK



5



← ENCENDIDO

← APAGADO

← APAGADO

← APAGADO

* SELECCIONE ENCENDIDO PARA ACTIVAR LA ZONA 1

Pulse el icono de "casa" para volver al menú principal

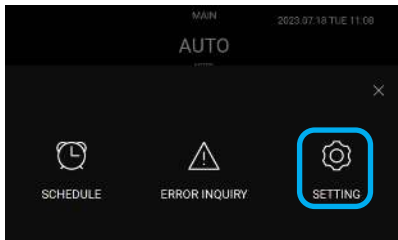
Función	Rango de parámetros	Ajustes
Zona 1	ENCENDIDO/APAGADO	ENCENDIDO

* LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.

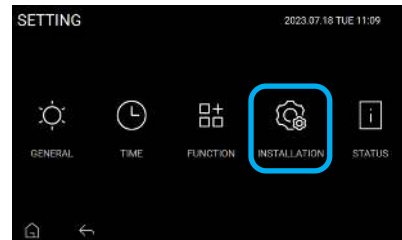
Ajustes principales de la instalación del sistema



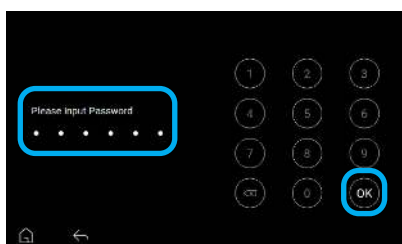
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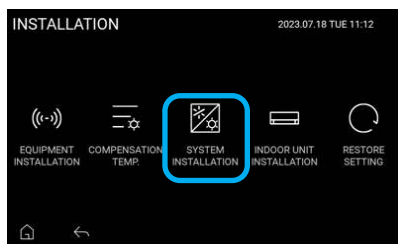
2



3



4 * Contraseña "841226" OK



5



← Regulador principal

← Regulador principal

← Controlador principal

← Controlador principal

*** SELECCIONE EL MODO DE CONTROL PARA LA ZONA 1**

Función	Rango de parámetros	Ajustes
Modo de control de la zona 1	Regulador principal Regulador de terceros	Regulador principal



← Calentamiento eléctrico y caldera

← 15 °C

← 10 °C

*** SELECCIONE LA FUENTE DE CALOR AUXILIAR**

Función	Rango de parámetros	Ajustes
Fuente de calor auxiliar	Calentamiento eléctrico y caldera, Calentamiento eléctrico, Caldera	Calentamiento eléctrico y caldera

*** LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.**

Ajustes principales de la instalación del sistema



← 45 °C
 ← 27 °C
 ← 6 °C
 ← 0 °C

***AJUSTE LA TEMPERATURA AMBIENTE PARA EL CALENTAMIENTO APAGADO**
***AJUSTE LA ΔT° PARA EL CALENTAMIENTO ENCENDIDO**

Función	Rango de parámetros	Ajustes
Temp. ambiente de calentamiento apagado	5 - 35 °C	27 °C
ΔT para calentamiento encendido	0 - 15 °C	6 °C



← 60 min
 ← -3 °C
 ← -1 °C
 ← -3 °C

***AJUSTE EL TIEMPO DE RETARDO DEL CALENTADOR TRAS EL ARRANQUE DEL COMPRESOR**

Pulse el icono de "casa" para volver al menú principal

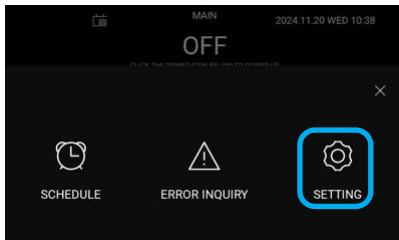
Función	Rango de parámetros	Ajustes
Tiempo de retardo de encendido del calentador	0 - 120 min	60 min
Calentador encendido ΔT de la temperatura objetivo	-10 - -2 °C	-3 °C
Calentador apagado ΔT de la temperatura objetivo	-8 - 0 °C	-1 °C

*** LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.**

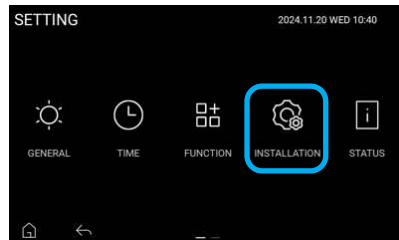
Ajustes principales de la instalación de la unidad interior



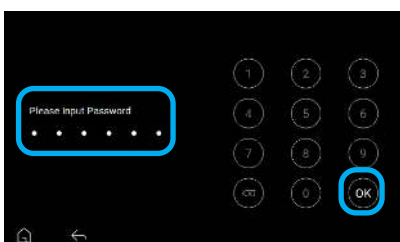
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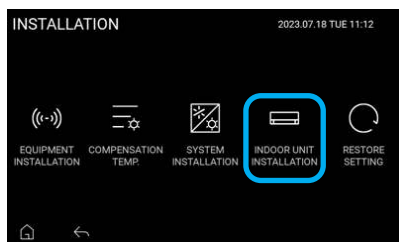
2



3



4 * Contraseña "841226" OK



5



← Calentadores 1 y 2

← Normal

← APAGADO

← Auto

* SELECCIONE CALENTAMIENTO MEDIANTE CALENTADOR 1, 2 Ó 1 Y 2

Pulse el icono de "casa" para volver al menú principal










Función	Rango de parámetros	Ajustes
Selección del tipo de calentador eléctrico IDU	Ninguno, Calentador 1, Calentador 2, Calentadores 1 y 2	Calentadores 1 y 2

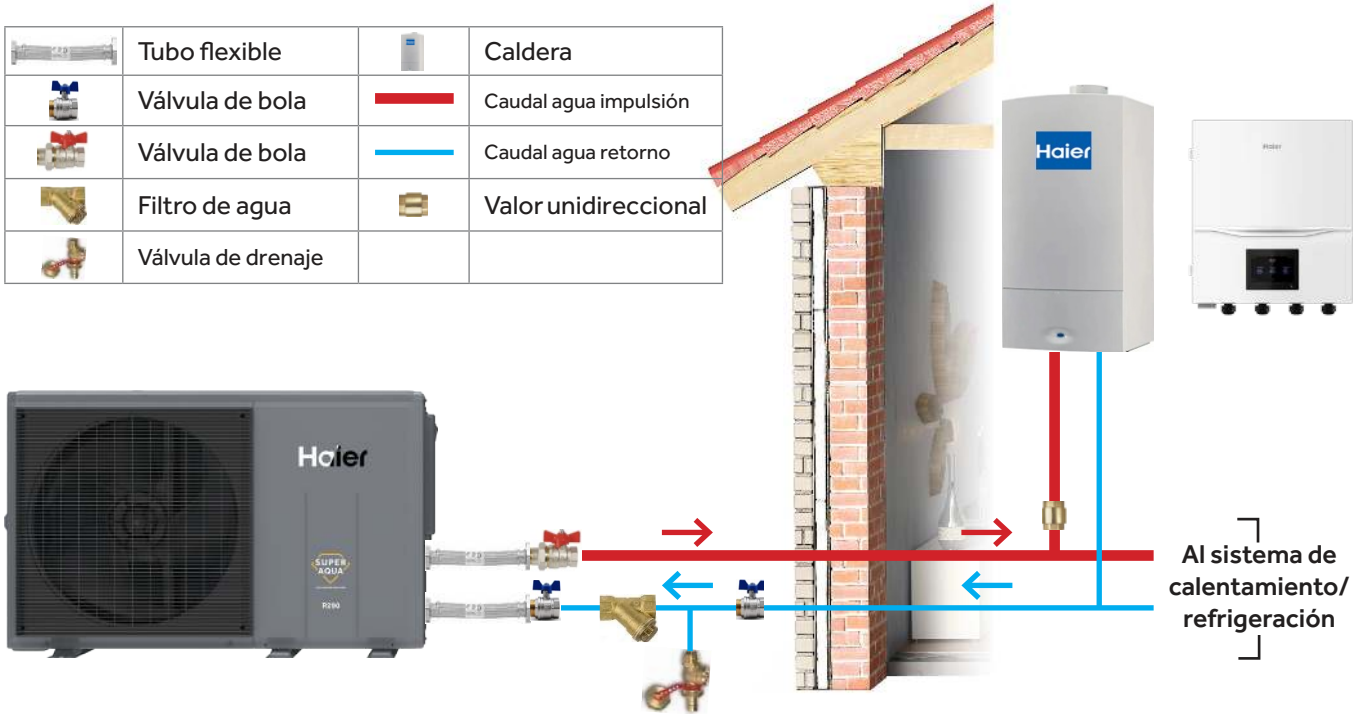
* LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.

5.2. CALDERA

5.2.1. ESQUEMA HIDRÁULICO SIMPLIFICADO

5.2.1.1. Sin depósito del acumulador de inercia










	Tubo flexible		Caldera
	Válvula de bola		Caudal agua impulsión
	Válvula de bola		Caudal agua retorno
	Filtro de agua		Valor unidireccional
	Válvula de drenaje		

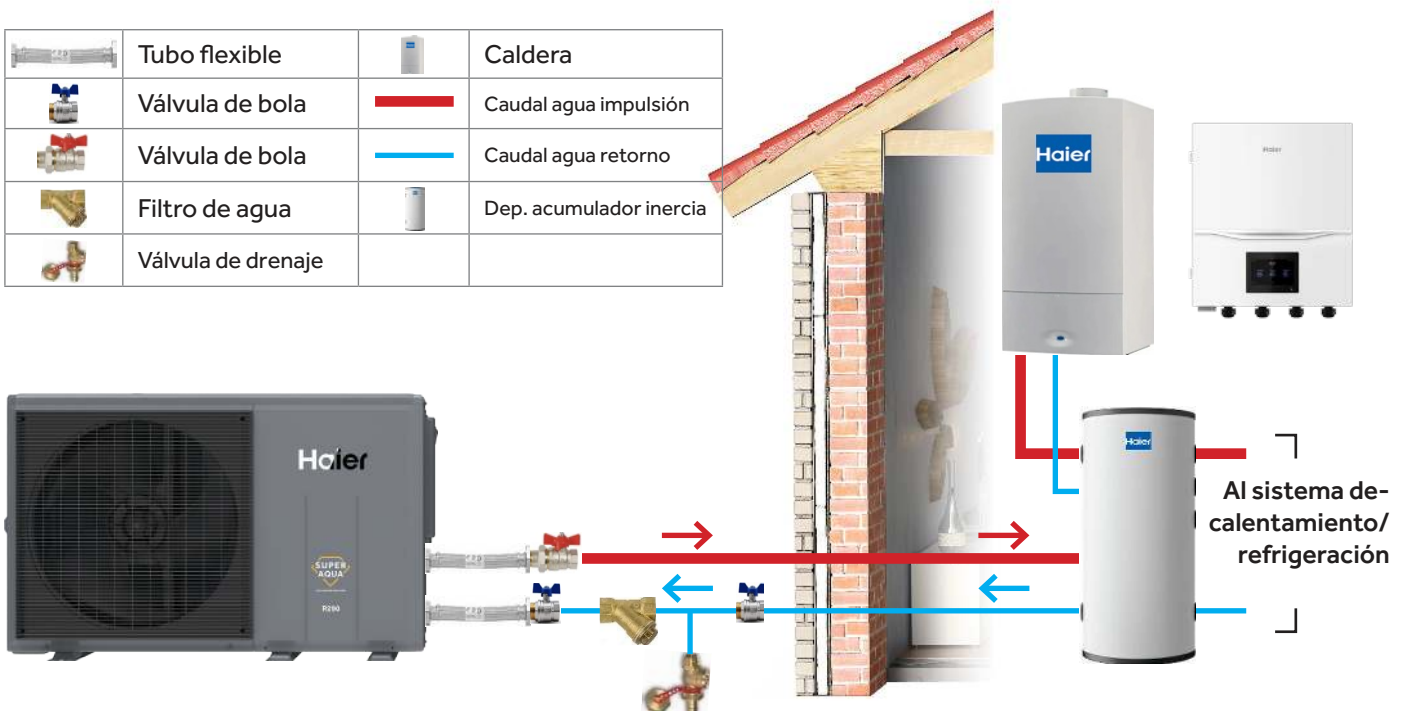


RESPECTO A LAS CONEXIONES ELÉCTRICAS, CONSULTE EL PUNTO 1.0.

TODOS LOS ESQUEMAS Y ACCESORIOS SON SÓLO UN EJEMPLO DE INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA NORMATIVA LOCAL.

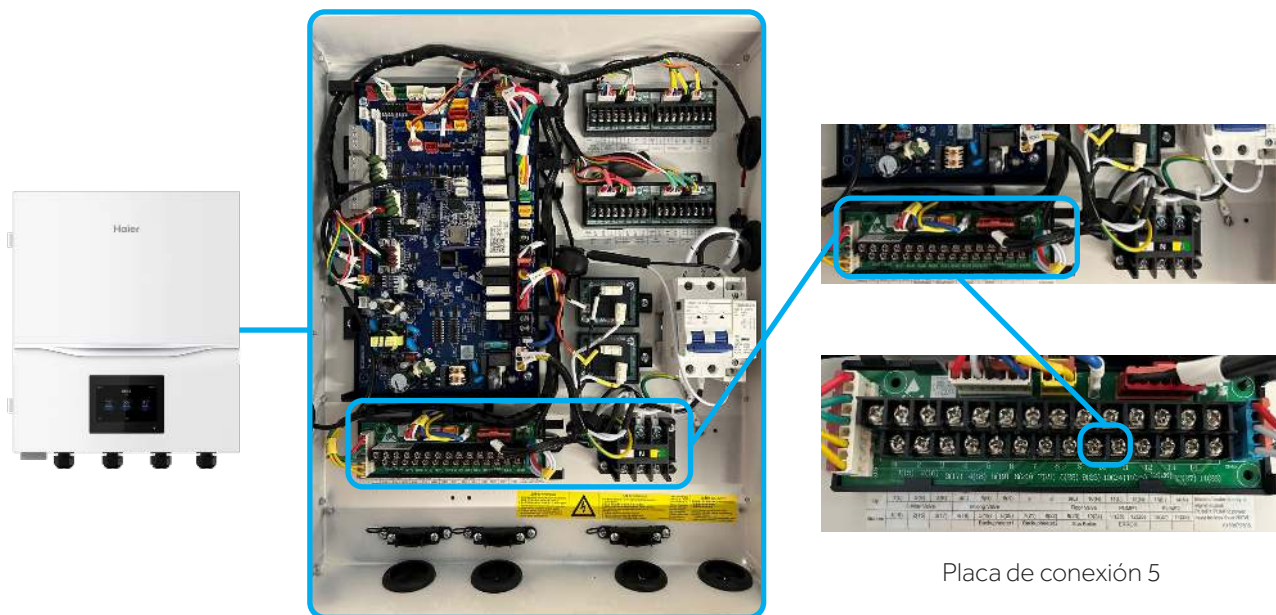
5.2.1.2. Con depósito del acumulador de inercia

	Tubo flexible		Caldera
	Válvula de bola		Caudal agua impulsión
	Válvula de bola		Caudal agua retorno
	Filtro de agua		Dep. acumulador inercia
	Válvula de drenaje		



5.2.2. CONEXIONES

Salida de señal de control de la caldera de gas para la fuente de calor auxiliar



Placa de conexión 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Volt-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							

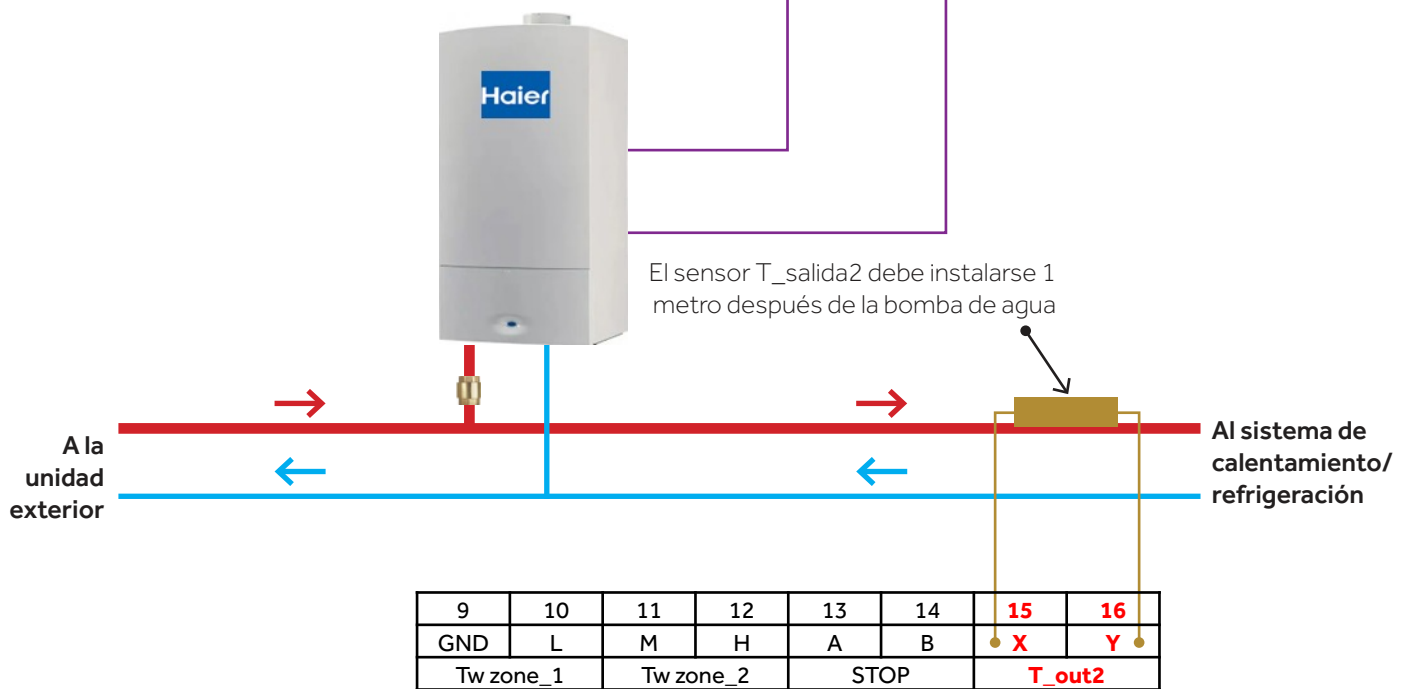


En la placa de conexiones número 5 entre los terminales 9 (23) y 10 (24) debemos conectar la señal para activar la caldera. Se trata de una señal de salida digital, lo que significa que cuando el contacto está cerrado, la caldera está ENCENDIDA; cuando el contacto está abierto, la caldera está APAGADA.

5.2.3. ESQUEMA DE CONEXIÓN SIMPLIFICADO

5.2.3.1. Sin depósito del acumulador de inercia

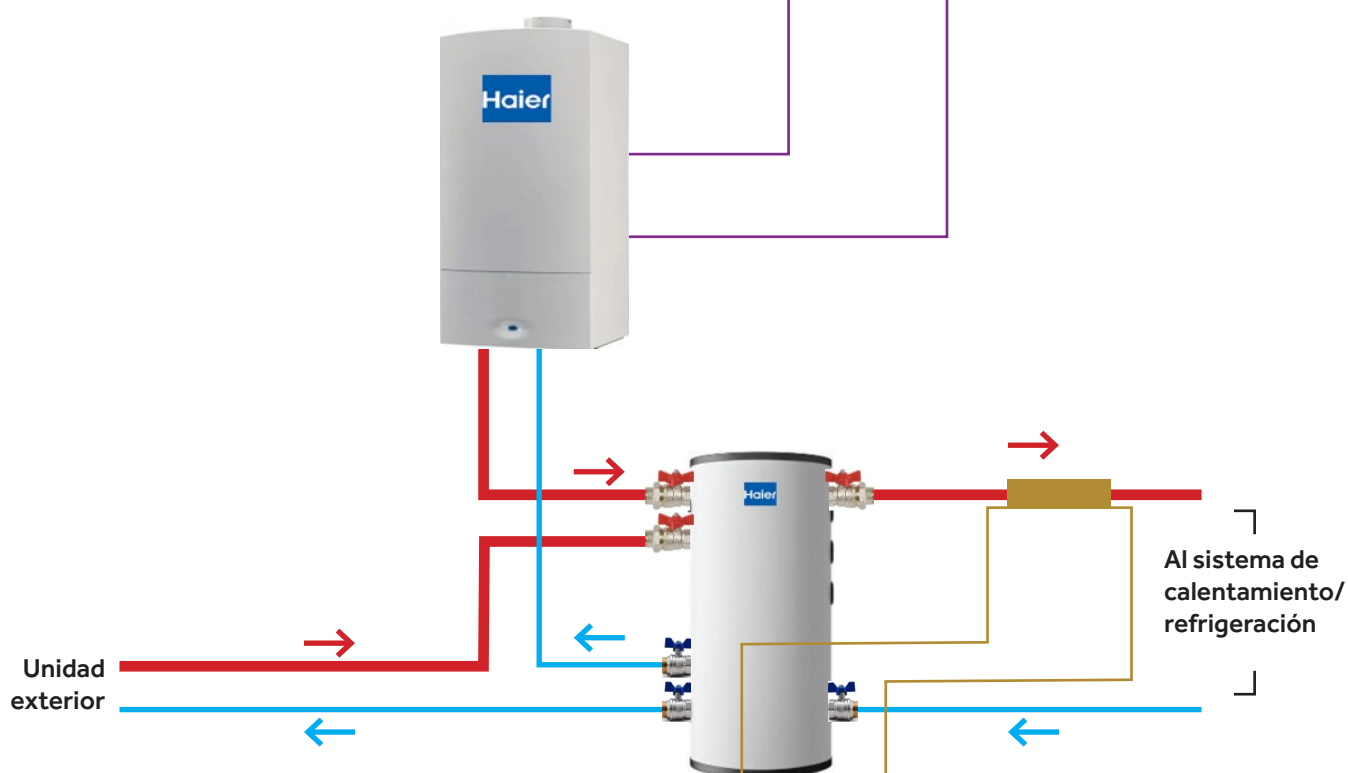
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			



	Caldera		Valor unidireccional
	Válvula de bola		T_salida2
	Válvula de bola		
	Caudal de agua de impulsión		
	Caudal de agua de retorno		

5.2.3.2. Con depósito del acumulador de inercia

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

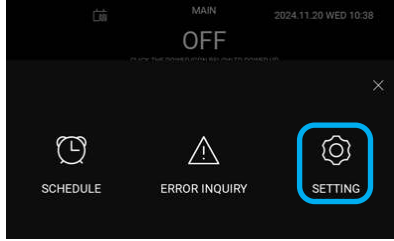
	Caldera		Depósito del acumulador de inercia
	Válvula de bola		T_salida2
	Válvula de bola		
	Caudal de agua de impulsión		
	Caudal de agua de retorno		

5.2.4. AJUSTES DEL REGULADOR

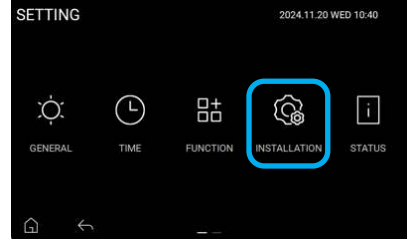
Ajustes principales de la instalación del equipo



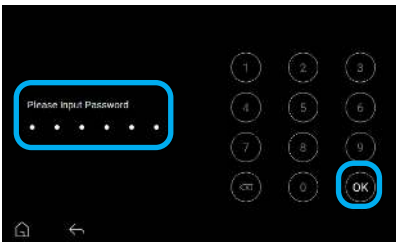
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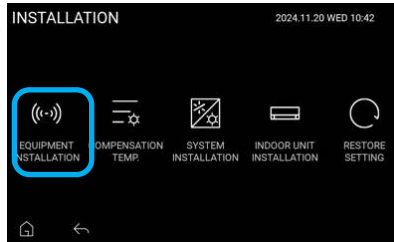
2



3



4 * Contraseña "841226" OK



5



- ← Encendido
- ← Apagado
- ← Apagado
- ← Apagado

***SELECCIONE ENCENDIDO PARA ACTIVAR LA ZONA 1**

Pulse el icono de "casa" para volver al menú principal

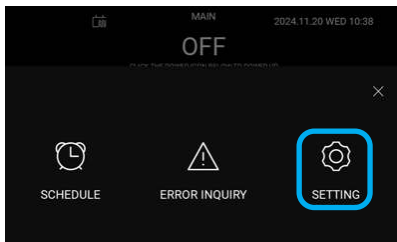
Función	Rango de parámetros	Ajustes
Zona 1	ENCENDIDO/APAGADO	ENCENDIDO

*** LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.**

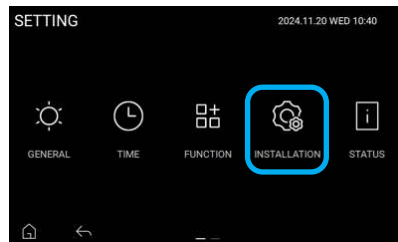
Ajustes principales de la instalación del sistema



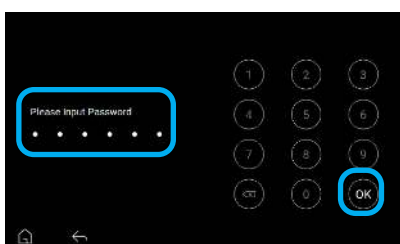
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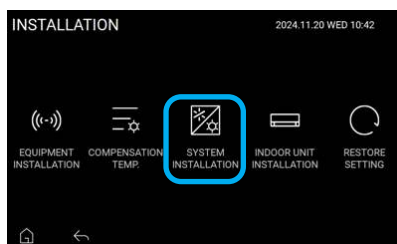
2



3



4 * Contraseña "841226" OK



5



← **Regulador principal**

← Regulador principal

← Controlador principal

← Controlador principal

*** SELECCIONE EL MODO DE CONTROL PARA LA ZONA 1**

Función	Rango de parámetros	Ajustes
Modo de control de la zona 1	Regulador principal Regulador de terceros	Regulador principal



← **Calentamiento eléctrico y caldera**

← 15 °C

← 10 °C

Función	Rango de parámetros	Ajustes
Fuente de calor auxiliar	Calentamiento eléctrico y caldera. Calentamiento eléctrico Caldera	Calentamiento eléctrico y caldera

*** LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.**

Ajustes principales de la instalación del sistema



← 45 °C

← 27 °C

← 6 °C

← 0 °C

*** SELECCIONE TEMPERATURA AMBIENTE DE CALENTAMIENTO APAGADO**
*** SELECCIONE TEMPERATURA DT° PARA CALENTAMIENTO ENCENDIDO**

Función	Rango de parámetros	Ajustes
Temp. ambiente de calentamiento apagado	5 - 35 °C	27 °C
ΔT para Calentamiento encendido	0 - 15 °C	6 °C



← 60 min

← -3 °C

← -1 °C

← -3 °C

*** AJUSTE EL TIEMPO DE RETARDO DEL CALENTADOR TRAS EL ARRANQUE DEL COMPRESOR**

Pulse el icono de "casa" para volver al menú principal










Función	Rango de parámetros	Ajustes
Tiempo de retardo de encendido del calentador	0 - 120 min	60 min
Calentador encendido ΔT de la temperatura objetivo	-10 - -2 °C	-3 °C
Calentador apagado ΔT de la temperatura objetivo -8 - 0 °C -1 °C	-8 - 0 °C	-1 °C

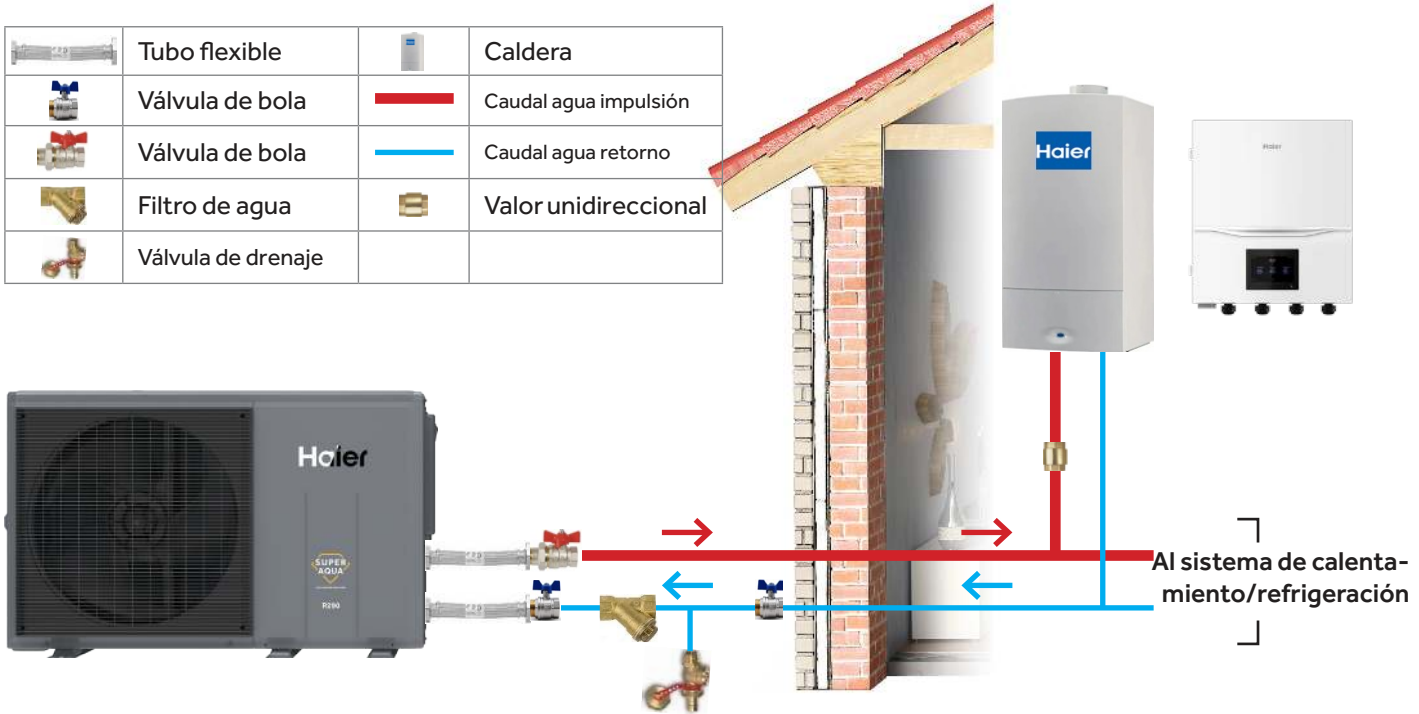
*** LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.**

5.3. BIVALENTE

5.3.1. ESQUEMA HIDRÁULICO SIMPLIFICADO

5.3.1.1. Sin depósito del acumulador de inercia











	Tubo flexible		Caldera
	Válvula de bola		Caudal agua impulsión
	Válvula de bola		Caudal agua retorno
	Filtro de agua		Valor unidireccional
	Válvula de drenaje		

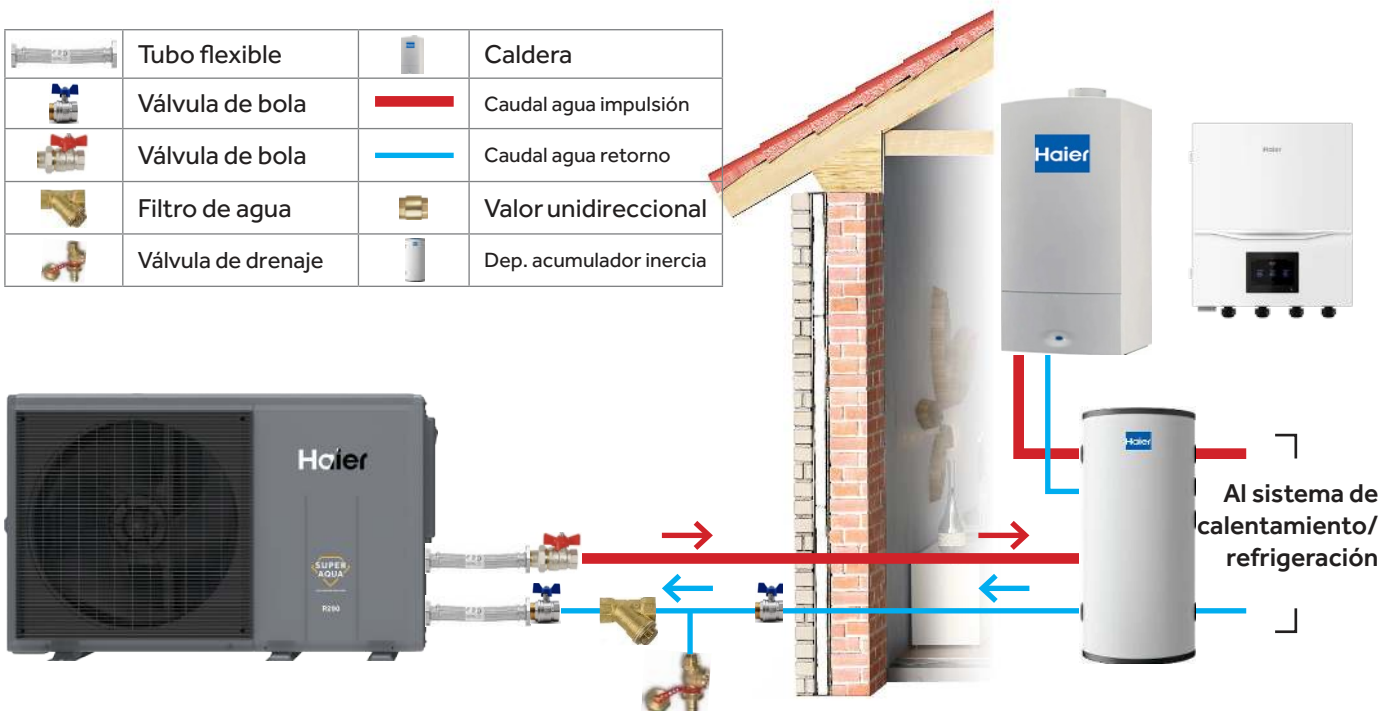


RESPECTO A LAS CONEXIONES ELÉCTRICAS, CONSULTE EL PUNTO 1.0.

TODOS LOS ESQUEMAS Y ACCESORIOS SON SÓLO UN EJEMPLO DE INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA NORMATIVA LOCAL.

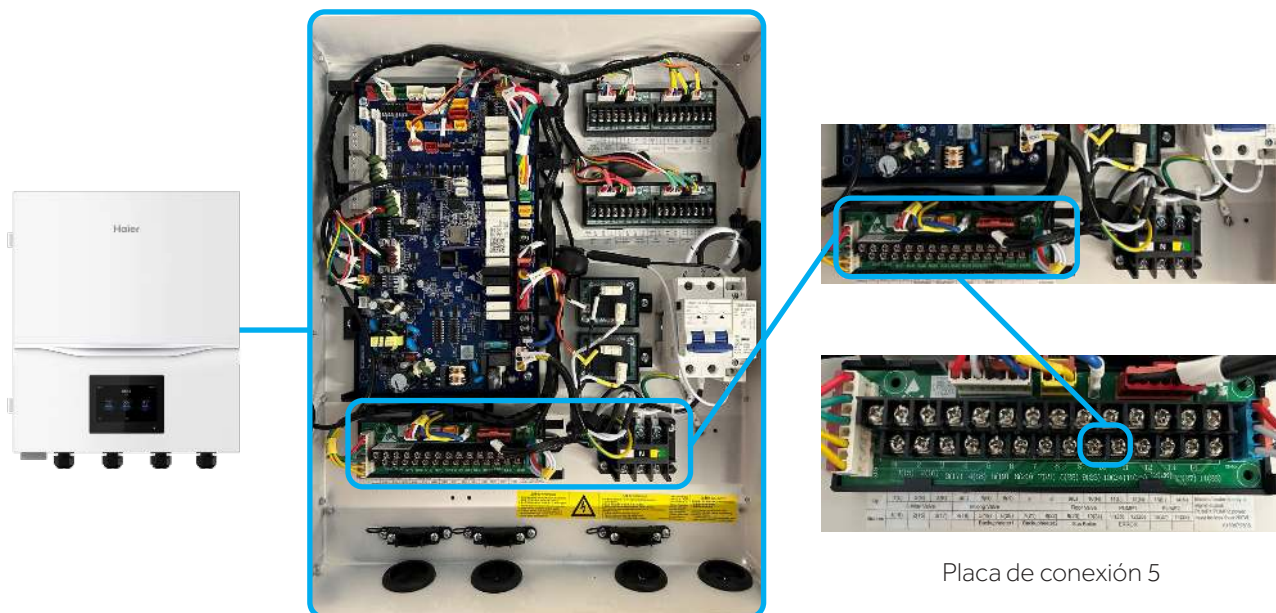
5.3.1.2. Con depósito del acumulador de inercia

	Tubo flexible		Caldera
	Válvula de bola		Caudal agua impulsión
	Válvula de bola		Caudal agua retorno
	Filtro de agua		Valor unidireccional
	Válvula de drenaje		Dep. acumulador inercia



5.3.2. CONEXIONES

Salida de señal de control de la caldera de gas para la fuente de calor auxiliar



Placa de conexión 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

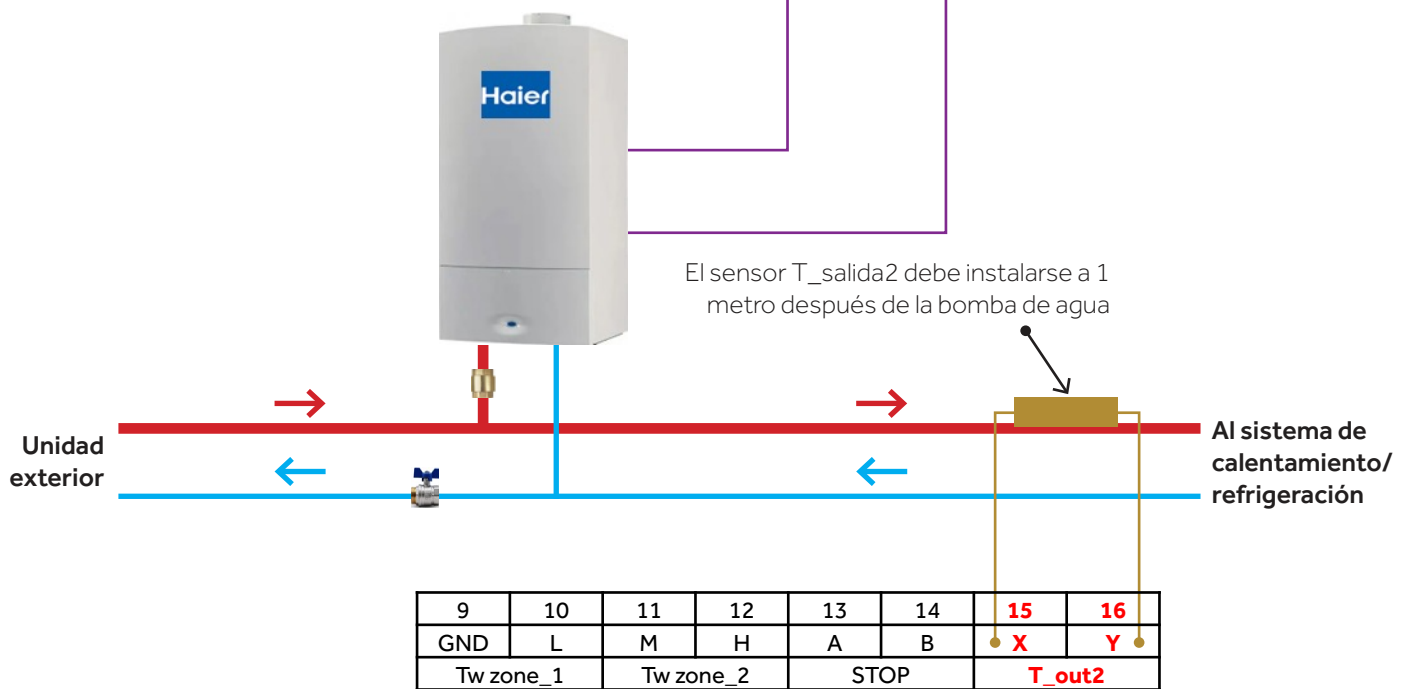


En la placa de conexiones número 5 entre los terminales 9 (23) y 10 (24) debemos conectar la señal para activar la caldera. Se trata de una señal de salida digital, lo que significa que cuando el contacto está cerrado, la caldera está ENCENDIDA; cuando el contacto está abierto, la caldera está APAGADA.

5.3.3. ESQUEMA DE CONEXIÓN SIMPLIFICADO

5.3.3.1. Sin depósito del acumulador de inercia

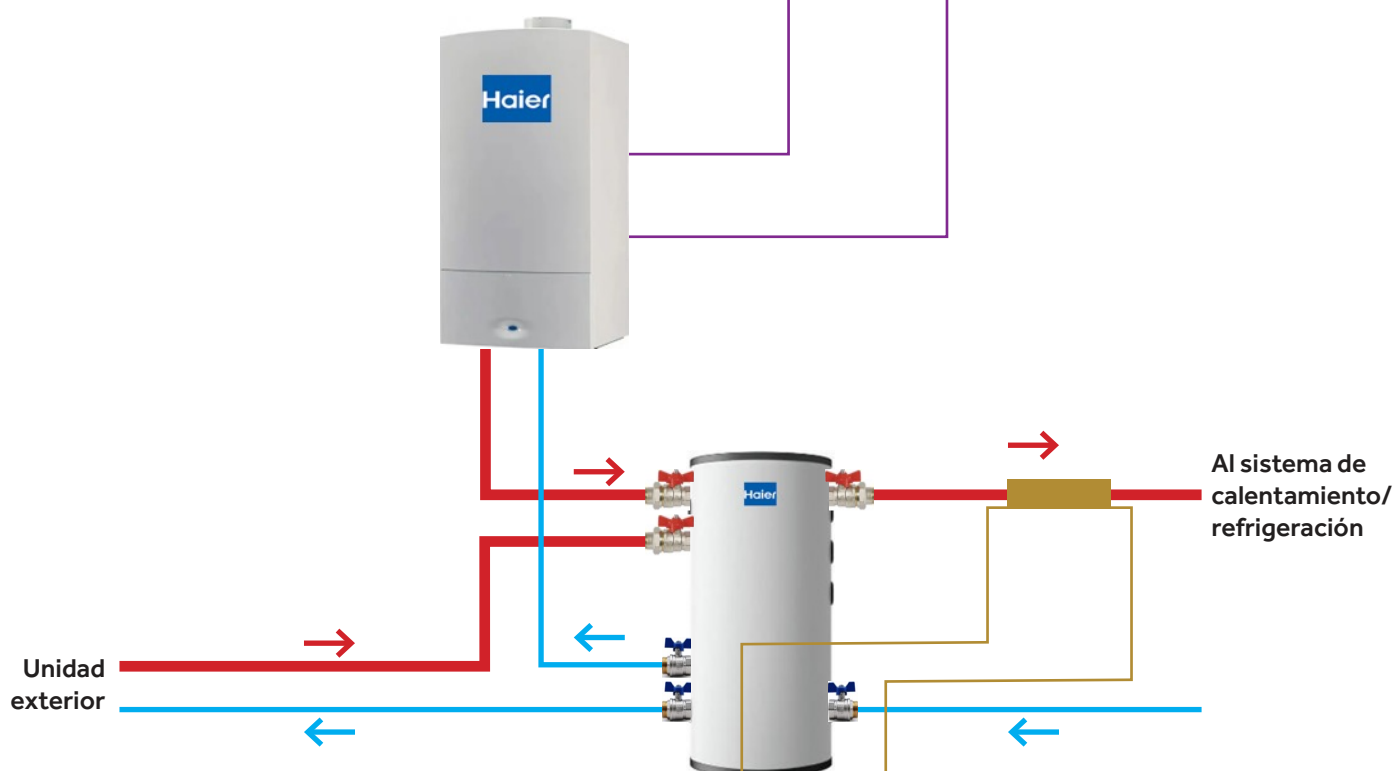
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							



	Caldera		Valor unidireccional
	Válvula de bola		T_salida2
	Válvula de bola		
	Caudal de agua de impulsión		
	Caudal de agua de retorno		

5.3.3.2. Con depósito del acumulador de inercia

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

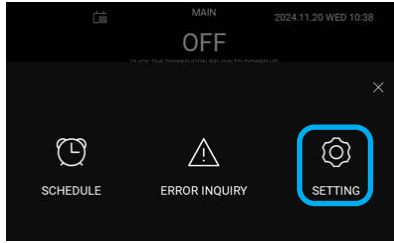
	Caldera		Depósito del acumulador de inercia
	Válvula de bola		Valor unidireccional
	Válvula de bola		T_salida2
	Caudal de agua de impulsión		
	Caudal de agua de retorno		

5.3.4. AJUSTES DEL REGULADOR

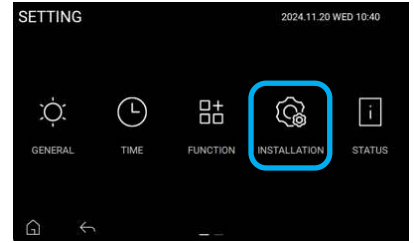
Ajustes principales de la instalación del equipo



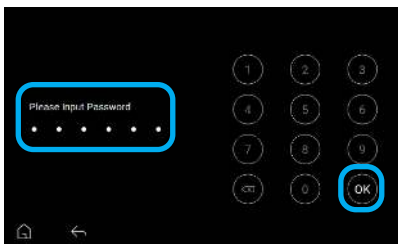
1



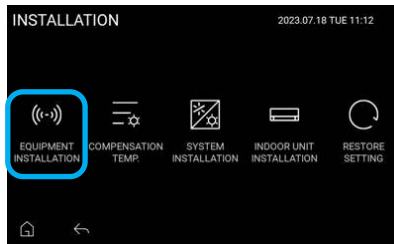
2



3



4 * Contraseña "841226" OK



5



- ← Encendido
- ← Apagado
- ← Apagado
- ← Apagado

* SELECCIONE ENCENDIDO PARA ACTIVAR LA ZONA 1

Función	Rango de parámetros	Ajustes
Zona 1	ENCENDIDO/APAGADO	ENCENDIDO



- ← 26°C
- ← 20°C
- ← Encendido
- ← 0°C

* SELECCIONE ENCENDIDO PARA ACTIVAR LA CONEXIÓN BIVALENTE

* AJUSTE LA TEMPERATURA BIVALENTE

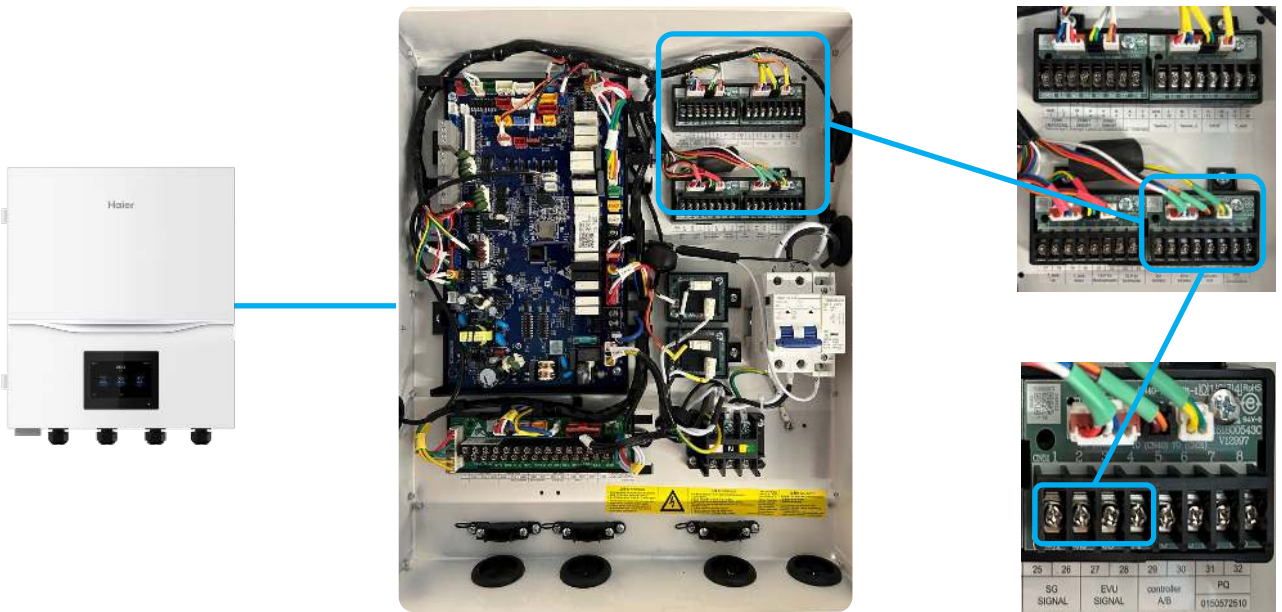
Pulse el icono de "casa" para volver al menú principal

Función	Rango de parámetros	Ajustes
Conexión bivalente	ENCENDIDO/APAGADO	ENCENDIDO
Temp. Bivalente	-20 °C - 20 °C	0 °C

* LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.

6.0. SG LISTA- SMART GRID O RED INTELIGENTE SG LISTA

6.1. CONEXIONES



Placa de conexión

25	26	27	28	29	30	31	32
GND	L	M	H	A		X	Y
Señal SG		Señal EVU		Regulador A/B		Calidad de la potencia	
SG1		SG2					

Placa de conexión 4

En la placa de conexión número 4 entre los terminales 25 (GND) y 26 (L) tenemos una señal libre de tensión para la señal de Smart Grid. También en la placa de conexión número 4 entre los terminales 27 (M) y 28 (H) tenemos una señal sin tensión para la señal EVU.

Tenga en cuenta que hay un retardo de 10 segundos cuando se recibe la señal SG antes de que aparezca en pantalla.

Control lógico

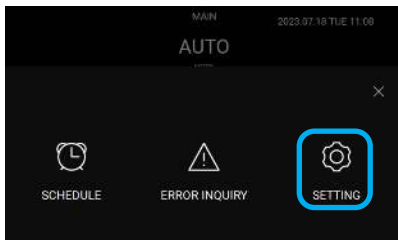
Indicación de estado en el regulador	Entrada de señal		Operación		
	Señal SG	Señal EVU	Calor	Frío	ACS
	Abierta	Abierta	Mantener el funcionamiento actual	Mantener el funcionamiento actual	Mantener el funcionamiento actual
SG1	Cerrada	Abierta	Bomba de calor no disponible	Modo refrigeración no disponible	Bomba de calor no disponible
SG2	Abierta	Cerrada	+A °C en el ajuste actual de temp.	+D °C en el ajuste actual de temp.	+B °C en el ajuste actual de temp.
			A tener en cuenta A: 2 a 6 °C, puede ajustarse en el regulador, por defecto 4 °C	A tener en cuenta: D: -2 a 6 °C, puede ajustarse en el regulador, por defecto 4 °C	A tener en cuenta: B: 4 a 8 °C, puede ajustarse en el regulador, por defecto 4 °C
Sg3	Cerrada	Cerrada	Control de temp. del agua, Cambiar temp. del agua a calentamiento máx. (excepto control de 3ª parte) Control de temp. ambiente, cambiar temp. de ajuste a 26 °C	Control de temp. del agua, Cambiar temp. del agua a refrigeración mín. (excepto control de 3ª parte) Control de temp. ambiente, cambiar temp. de ajuste a 20 °C	Cambiar temp. de ajuste a ajuste máx. del ACS

6.2. AJUSTES DEL REGULADOR

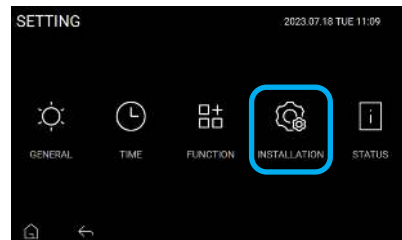
Ajustes principales de la instalación del equipo



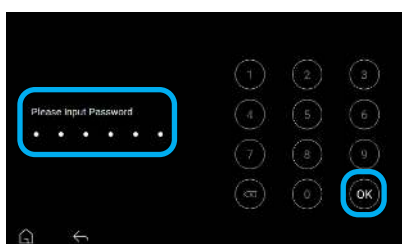
1



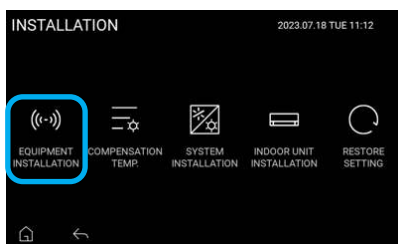
2



3



4 * Contraseña "841226" OK



5



← ENCENDIDO
← 4 °C
← 6 °C
← -4 °C

*SELECCIONE ENCENDIDO PARA ACTIVAR LA SMART GRID O RED INTELIGENTE

AJUSTE AQUÍ LA TEMPERATURA A LA QUE DESEA QUE FUNCIONE LA UNIDAD CUANDO ESTÉ EN MODO SMART GRID O DE RED INTELIGENTE

Función	Rango de parámetros	Ajustes
Control de SG lista	ENCENDIDO/APAGADO	ENCENDIDO
compensación SG2 Temp. de calentamiento	2 - 6 °C	4 °C
compensación SG2 Temp. del ACS	4 - 8 °C	6 °C
compensación SG2 Temp. de refrigeración	-2 - -6 °C	-4 °C



← 26 °C
← 20 °C
← Encendido
← 0 °C

Pulse el icono de "casa" para volver al menú principal

Función	Rango de parámetros	Ajustes
Temp. de calentamiento de la SG3	16 - 30 °C	26 °C
Temp. de refrigeración de la SG3	16 - 30 °C	20 °C

7.0. CASCADA

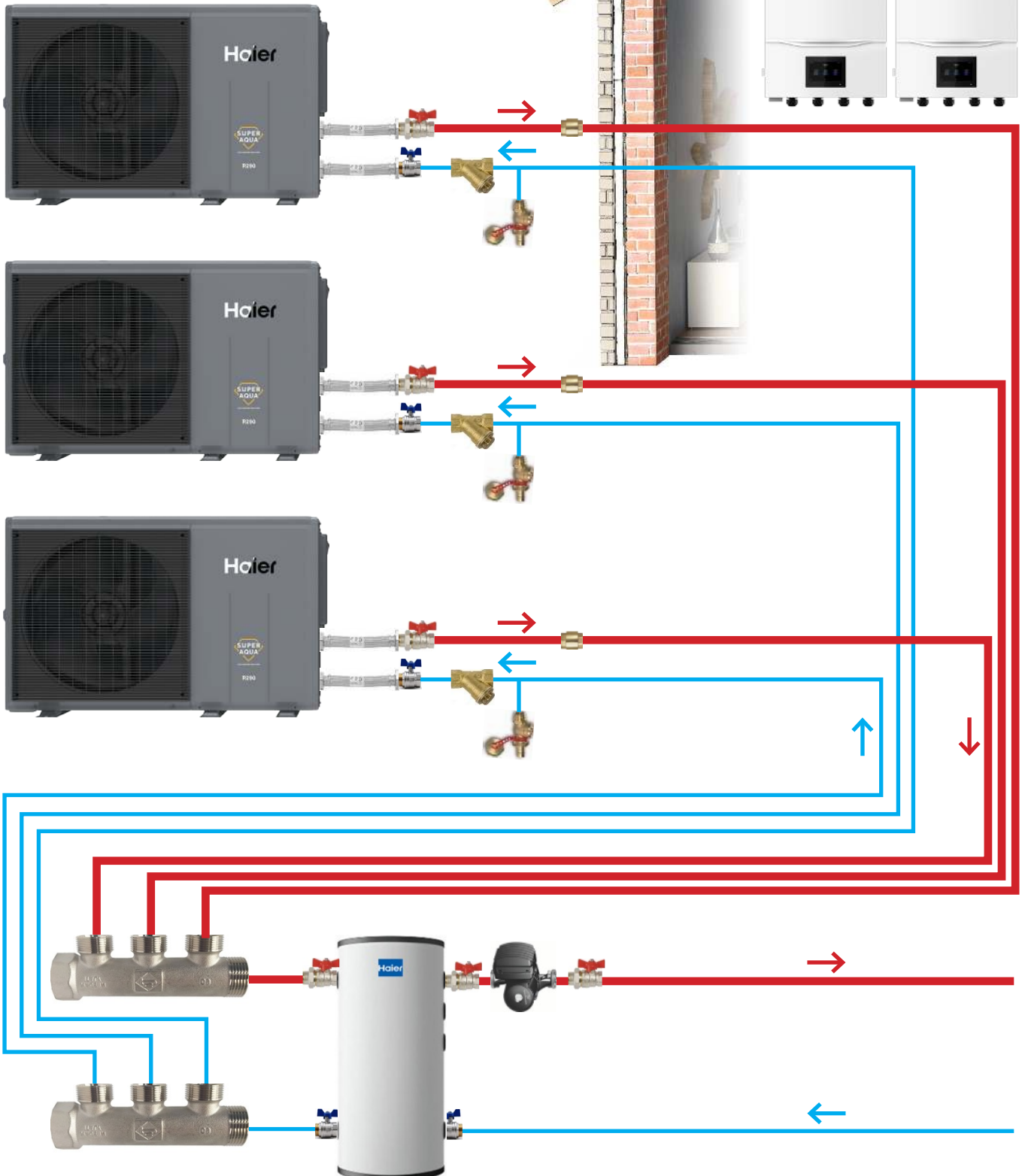
7.1. ESQUEMA HIDRÁULICO SIMPLIFICADO

7.1.1. Sin ACS

Hasta 8 unidades como máx.

A tener en cuenta: cada unidad exterior DEBE tener una unidad interior ATW-A03

Hasta 8 unidades como máx.



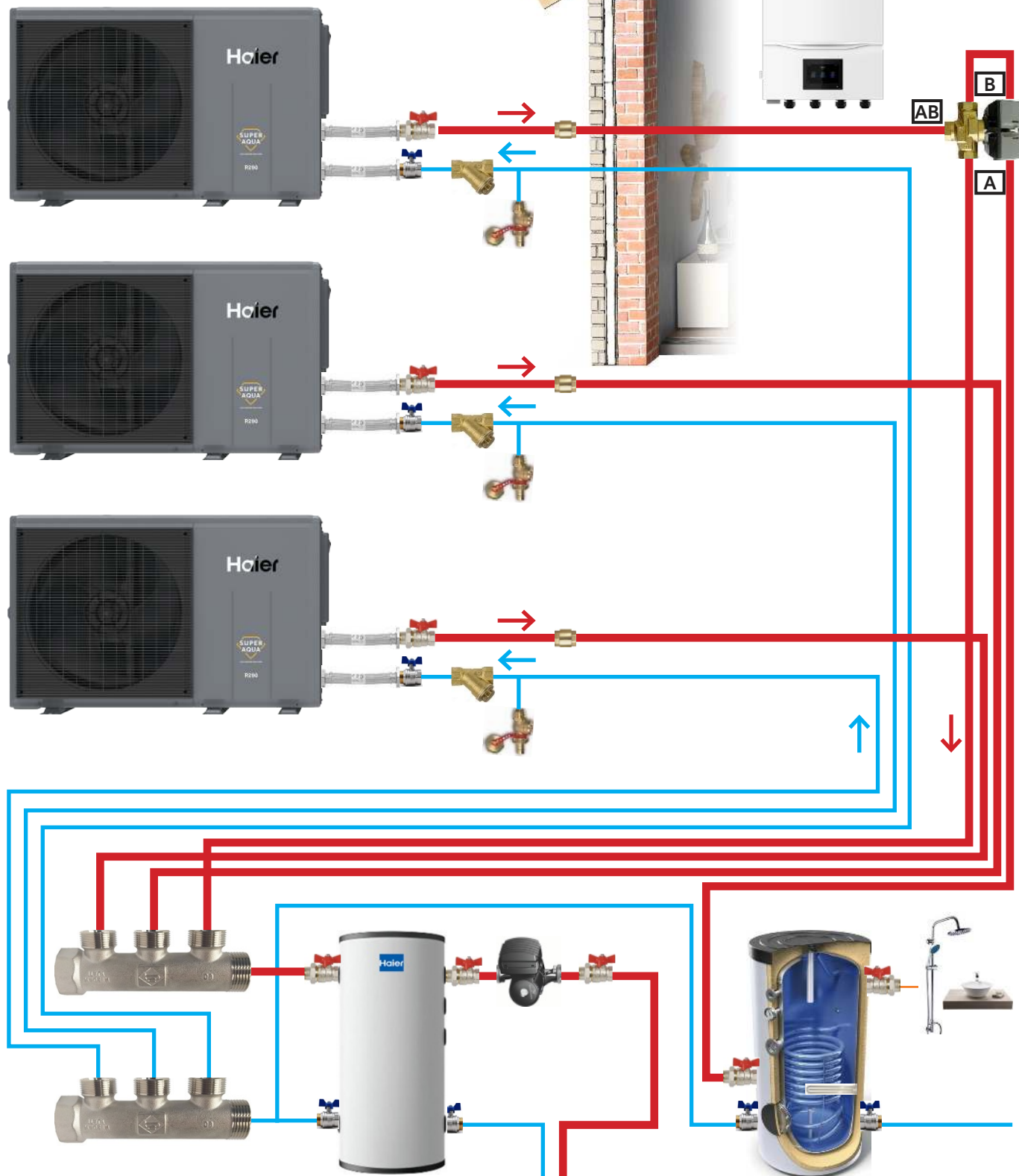
TODOS LOS ESQUEMAS Y ACCESORIOS SON SÓLO UN EJEMPLO DE INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA NORMATIVA LOCAL.

7.1.1. Con ACS

A tener en cuenta: cada unidad exterior DEBE tener una unidad interior ATW-A03

Hasta 8 unidades como máx.

Hasta 8 unidades como máx.



Es importante que todas las tuberías y bombas que alimentan el sistema de calentamiento estén dimensionadas para adaptarse a la capacidad del sistema de calentamiento

* Depósito del ACS. Compruebe la normativa nacional al conectar el suministro de agua fría.

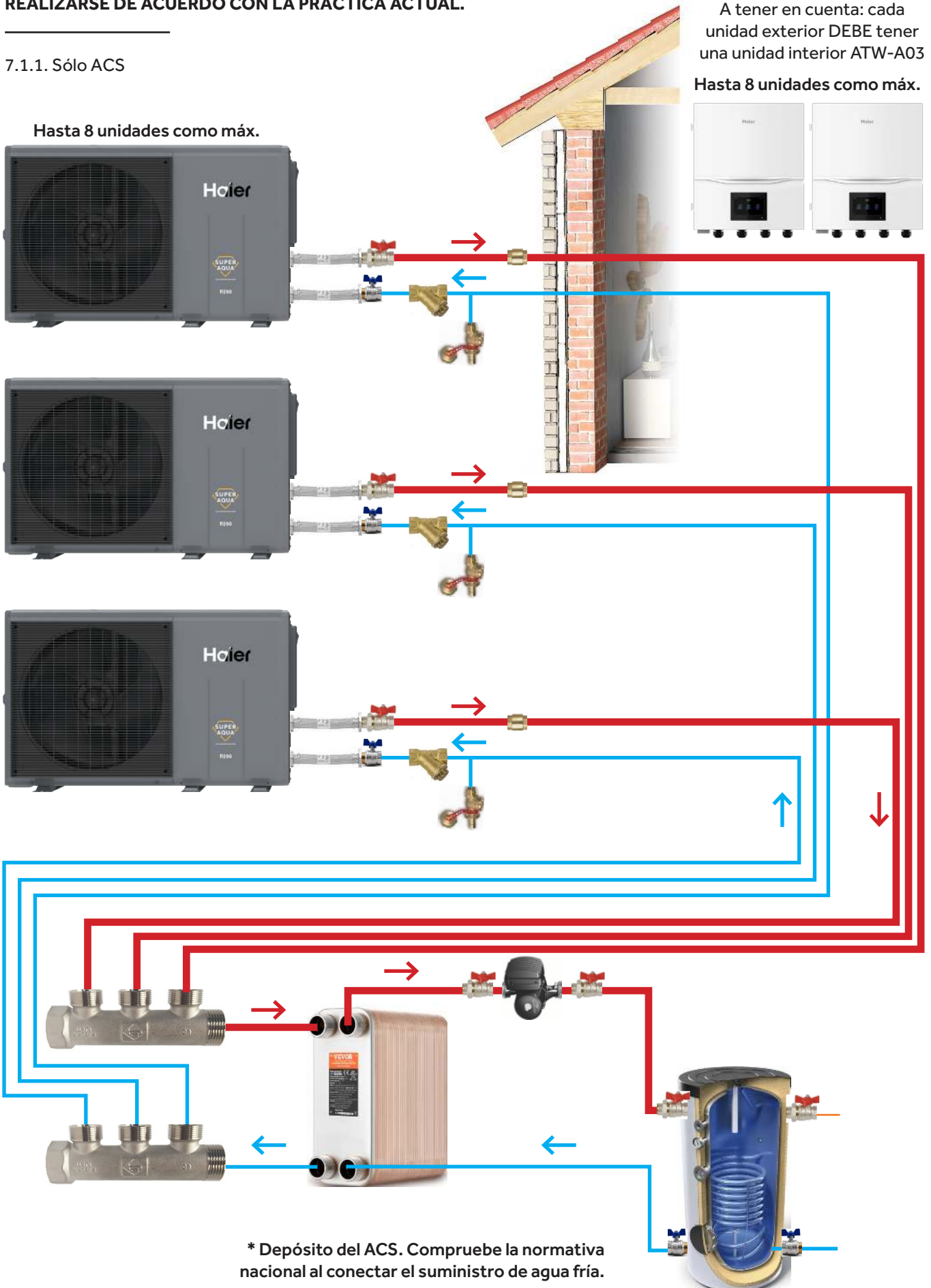
TODOS LOS ESQUEMAS Y LOS ACCESORIOS SON SÓLO UN EJEMPLO DE LA INSTALACIÓN Y DEBEN REALIZARSE DE ACUERDO CON LA PRÁCTICA ACTUAL.

7.1.1. Sólo ACS

Hasta 8 unidades como máx.

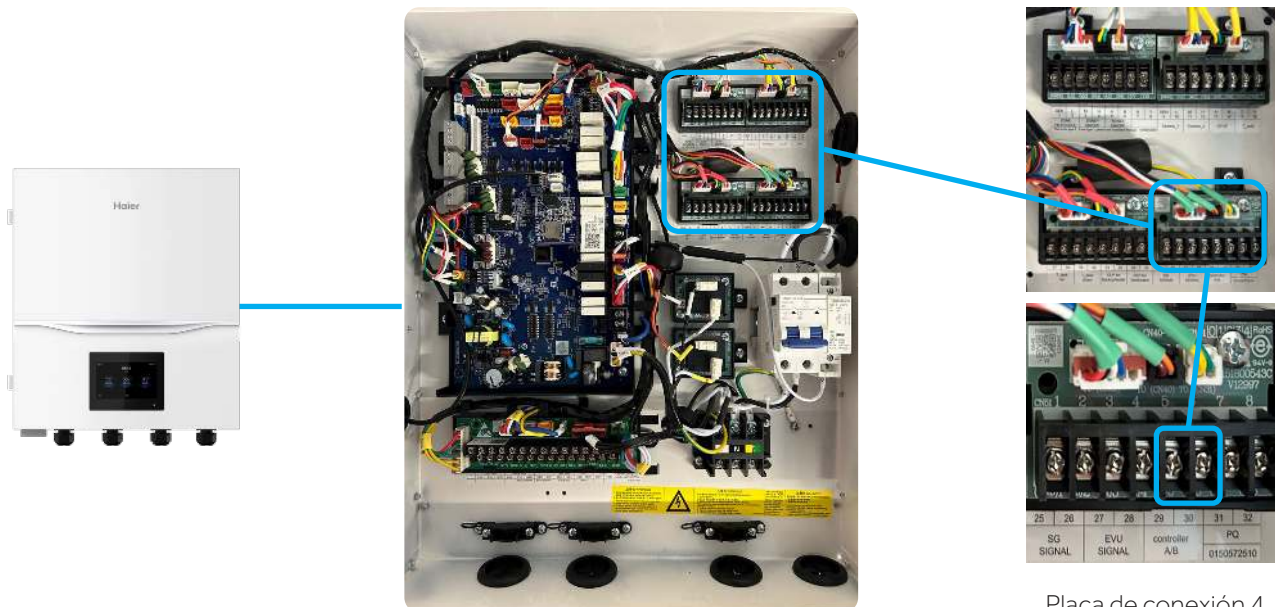
A tener en cuenta: cada unidad exterior DEBE tener una unidad interior ATW-A03

Hasta 8 unidades como máx.



7.2. CONEXIÓN

Conexión principal y secundaria



Placa de conexión 4

Placa de conexión 4 - Principal

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
Señal SG		Señal EVU		Regulador A/B		Calidad de la potencia	

En la placa de conexiones 4 de la unidad principal, entre los terminales 29 (A) y 30 (B) conectamos el bus de comunicación con las unidades secundarias.

Placa de conexión 4 - secundaria 1

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
Señal SG		Señal EVU		Regulador A/B		Calidad de la potencia	

En la placa de conexiones 4 de la unidad secundaria 1, entre los terminales 29(A) y 30 (B) conectamos la comunicación por bus con las unidades principal y secundaria.

Placa de conexión 4 - secundaria 2

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
Señal SG		Señal EVU		Regulador A/B		Calidad de la potencia	

Hasta 8 unidades como máx.

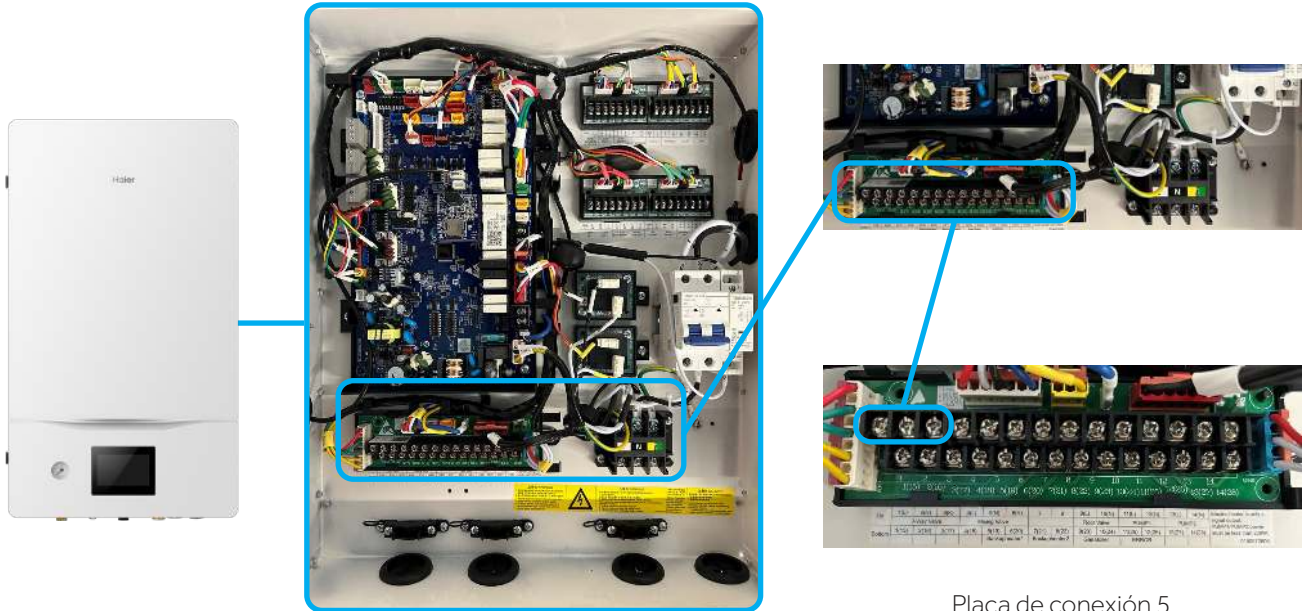
En la placa de conexiones 4 de la unidad secundaria 2, entre los terminales 29(A) y 30 (B) conectamos la comunicación por bus con las unidades principal y secundaria.

* El bus de interconexión entre ATW-A03N y ATW-A03N, debe realizarse con un cable apantallado de 2x0,75 mm.

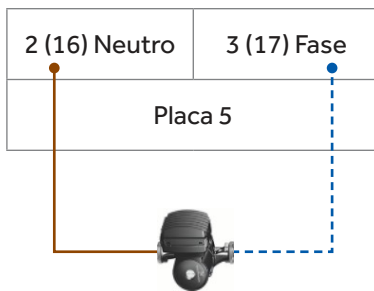
* La interconexión debe realizarse como conexión serie. La conexión en estrella está prohibida.

7.2. CONEXIÓN

Sólo ACS - Bomba de agua para circuito secundario



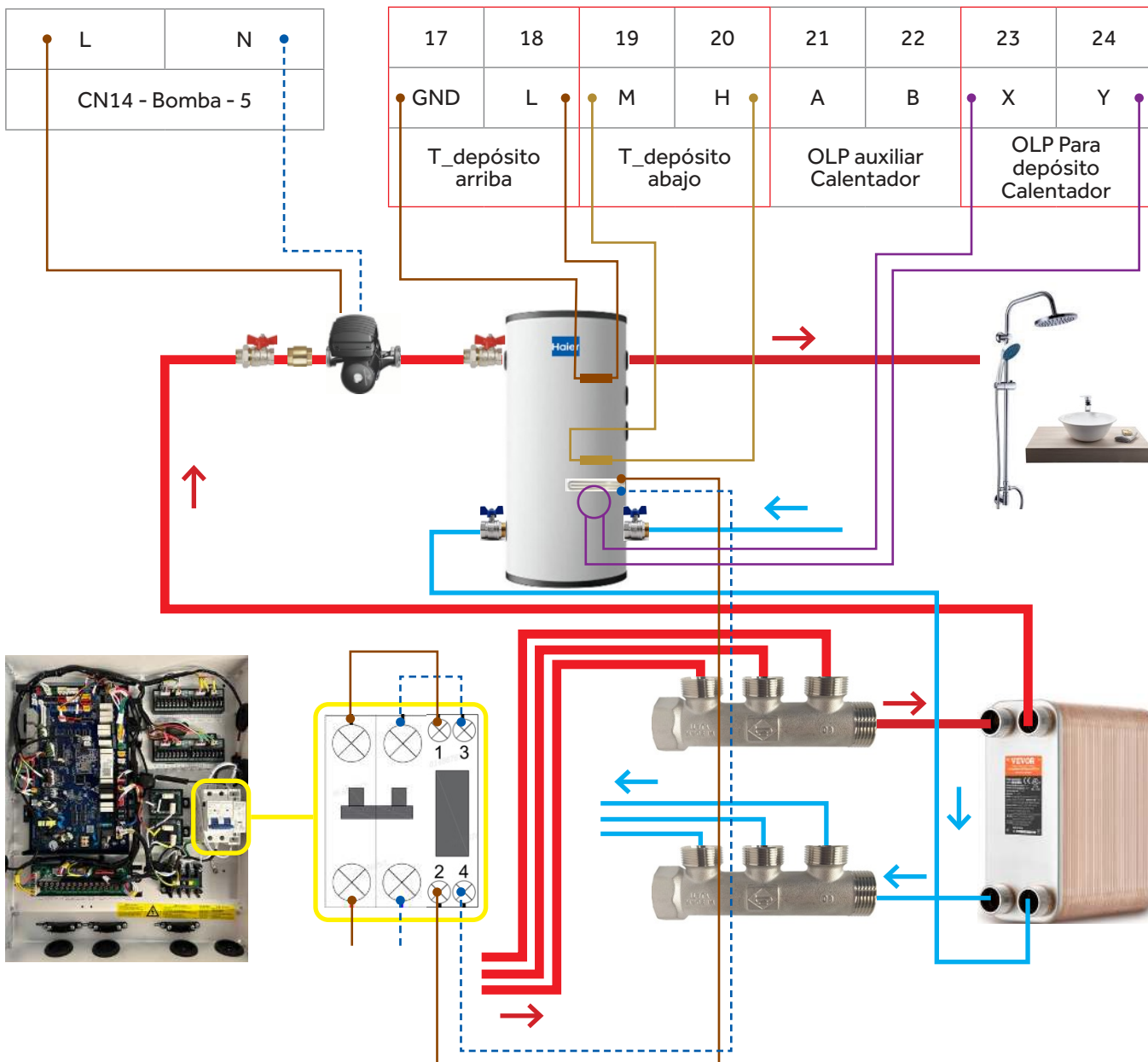
Placa de conexión 5



En la placa de conexiones 5 , terminales 2 (16) N y 3 (17) L, podemos conectar la bomba de agua para circuito secundario, después del intercambiador de calor. En esta conexión tenemos una tensión de salida de 230 VAC. La potencia eléctrica máxima que puede soportar este contacto es de 200 W.

7.3. ESQUEMA DE CONEXIÓN SIMPLIFICADO

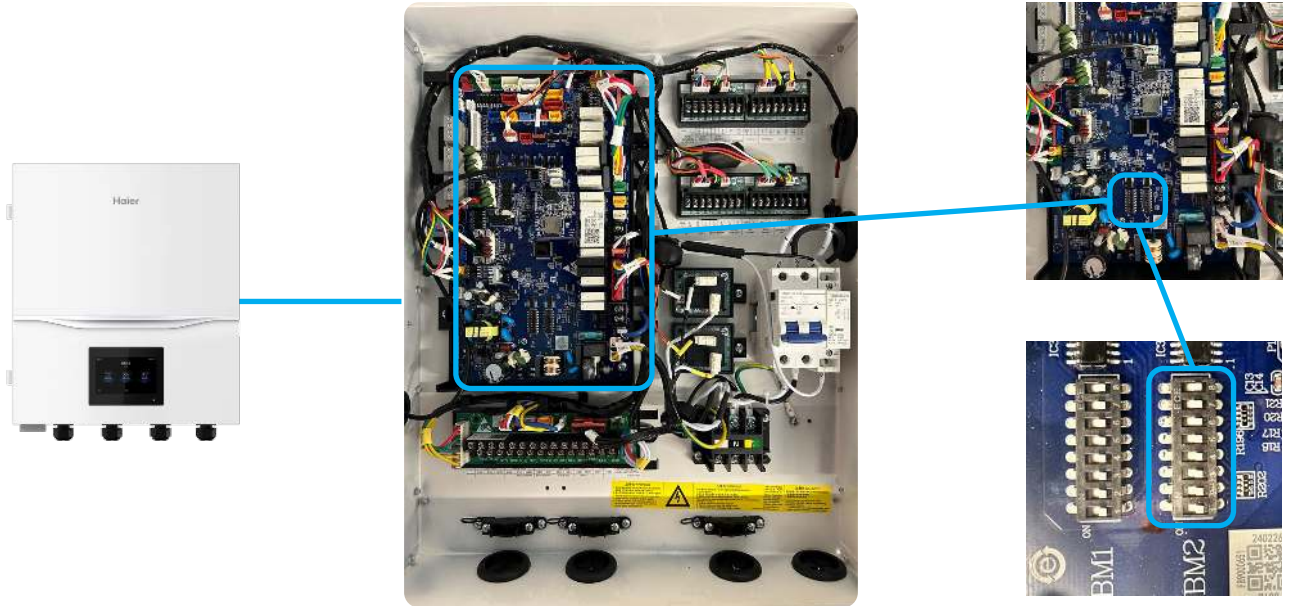
Sólo ACS - Bomba de agua para circuito secundario



	Válvula de bola		Valor unidireccional		Sensor temp. T_depósito arriba
	Válvula de bola		OLP		Línea
	Caudal de agua de impulsión		Depósito de ACS		Neutro
	Caudal de agua de retorno		Intercambio de calor por placas		Calentador eléctrico
	Bomba de agua		Sensor temp. T_depósito arriba		

7.4. CONEXIÓN

Ajuste del interruptor DIP



BM1_2 BM1_3 BM1_4	Cascade address	[2]	[3]	[4]	Cascade address
		0	0	0	0
		0	0	1	Sub unit 1#
		0	1	0	Sub unit 2#
		0	1	1	Sub unit 3#
		1	0	0	Sub unit 4#
		1	0	1	Sub unit 5#
		1	1	0	Sub unit 6#
		1	1	1	Sub unit 7#

*** AJUSTE CON DIP BM1
LA UNIDAD PRINCIPAL Y
EL NÚMERO DE ESCLAVO**

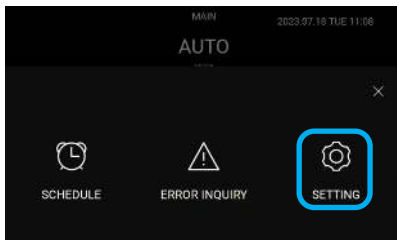
Cambie BM1, interruptor número 2 a 4 para direccionar la unidad como se indica arriba.

7.5. AJUSTES DEL REGULADOR

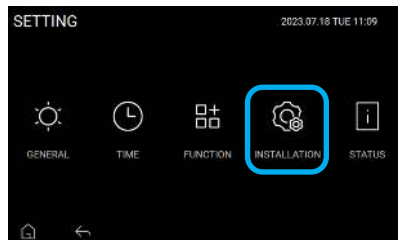
Ajustes principales de la instalación del sistema



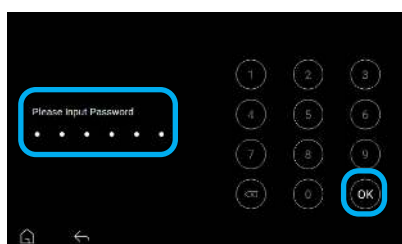
1



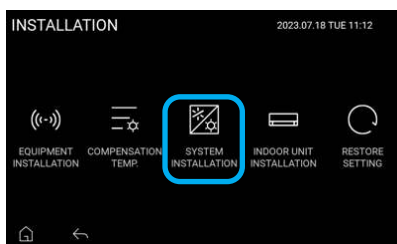
2



3



4 * Contraseña "841226" OK



5



← Ninguno

← 5 °C

← 6 °C

← Encendido * SELECCIONE ENCENDIDO PARA ACTIVAR EL ACS

Pulse el icono de "casa" para volver al menú principal

Función	Rango de parámetros	Ajustes
Función ACS	ENCENDIDO/APAGADO	ENCENDIDO

* LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.

8.0. AJUSTES DE CONTROL

9.0. SEÑAL DE CONMUTACIÓN DEL REGULADOR DE TERCEROS

9.1. SEÑAL DE CONMUTACIÓN DEL REGULADOR DE TERCEROS

La unidad puede controlarse de 2 formas: con un conmutador de calor frío o con termostatos independientes. Es posible ajustarlo a Tipo 1 o Tipo 2.

Tipo 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Requisito de calor (ENCENDIDO/APAGADO) - ZONA 1		Requisito de frío (ENCENDIDO/APAGADO) - ZONA 1		Requisito de calor (ENCENDIDO/APAGADO) - ZONA 2		Requisito de frío (ENCENDIDO/APAGADO) - ZONA 2	

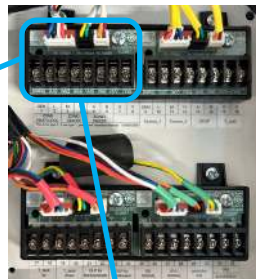
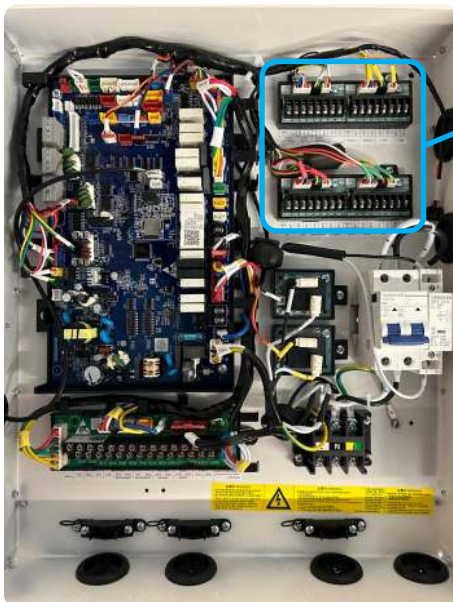
El tipo 1 utiliza un termostato independiente para la refrigeración y el calentamiento.

Tipo 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Calor / Frío		Zona 1 ENCENDIDO/APAGADO		Zona 2 ENCENDIDO/APAGADO			

El tipo 2 utiliza un conmutador de calor-frío.

9.1.1. TIPO 1 - SISTEMA MÁS UTILIZADO



* Todas las conexiones de la placa de conexiones 1, 2, 3 y 4 son con terminales de tornillo.



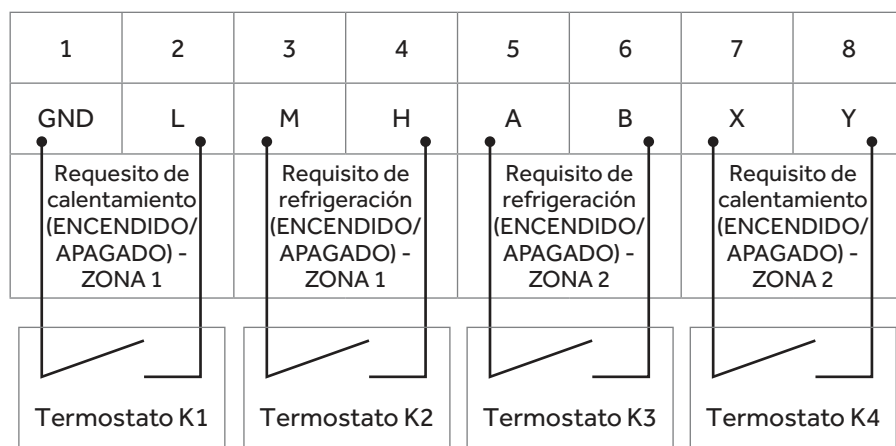
Placa de conexión 1

9.1.1. SEÑAL DE CONMUTACIÓN DEL REGULADOR DE TERCEROS - TIPO 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Requisito de calor (ENCENDIDO/APAGADO) - ZONA 1		Requisito de frío (ENCENDIDO/APAGADO) - ZONA 1		Requisito de calor (ENCENDIDO/APAGADO) - ZONA 2		Requisito de frío (ENCENDIDO/APAGADO) - ZONA 2	

- 1) Todos los contactos están libres de tensión.
- 2) Este ajuste se utiliza cuando hay termostatos de refrigeración y calentamiento separados.
- 3) Si hace un contacto de 1-2 la unidad se pondrá en modo calentamiento, si hace un contacto de 3-4 la unidad se pondrá en modo refrigeración.
- 4) Si hace un contacto de 5-6 la unidad arrancará en modo calentamiento zona 2, Si hace un contacto de 7-8 la unidad arrancará en modo refrigeración zona 2.
- 5) No debe enviar una señal de funcionamiento de refrigeración y calentamiento al mismo tiempo.

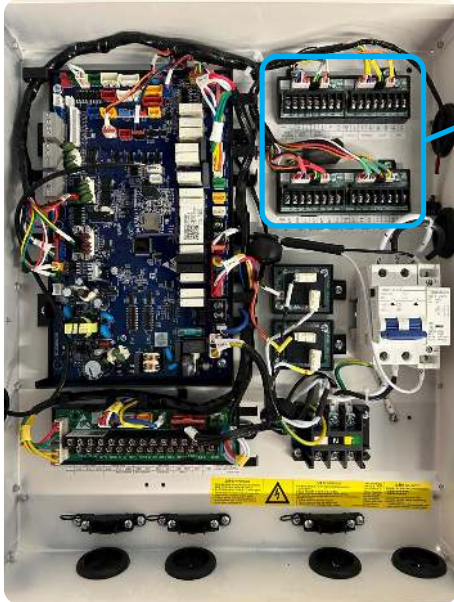
Esquema de conexión simplificado



- 1) Todos los contactos están libres de tensión.
- 2) Este ajuste se utiliza cuando hay termostatos de refrigeración y calentamiento separados.
- 3) Si hace un contacto de zona 1 desde 1-2 la unidad arrancará en modo calentamiento zona 1, si hace un contacto desde 3-4 la unidad arrancará en modo refrigeración.
- 4) Si hace un contacto de 5-6 la unidad arrancará en modo refrigeración zona 2, Si hace un contacto de 7-8 la unidad arrancará en modo calentamiento zona 2.
- 5) No debe enviar una señal de funcionamiento de refrigeración y calentamiento al mismo tiempo.

9.1.2. SEÑAL DE CONMUTACIÓN DEL REGULADOR DE TERCEROS - TIPO 2

MENOS UTILIZADO



* Todas las conexiones de la placa de conexiones 1, 2, 3 y 4 son con terminales de tornillo.



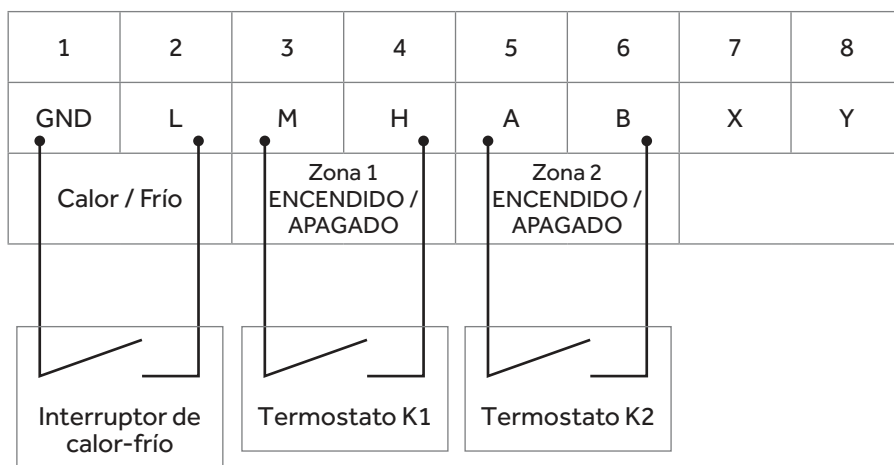
Placa de conexión 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Calor / Frío		Zona 1 ENCENDIDO/ APAGADO		Zona 2 ENCENDIDO/ APAGADO			

- 1) Todos los contactos están libres de tensión.
- 2) Este ajuste se utiliza cuando se utiliza un termostato combinado de refrigeración y calentamiento.
- 3) Si hace un contacto de 1-2 la unidad está en modo refrigeración. Si rompe el contacto de 1-2 la unidad está en modo calentamiento.
- 4) Si realiza un contacto de 3-4 la unidad se pondrá en marcha en modo refrigeración o calentamiento.
- 5) Si hace un contacto de 5-6 la unidad arrancará en modo refrigeración o calentamiento. Zona 2
- 6) Si no hay señal de ejecución de la solicitud tanto de la zona 1 como de la zona 2, la unidad dejará de calentar y enfriar. El modo ACS continuará.

Tipo 2

Esquema de conexión simplificado



Interruptor de calor -frío: Encendido en modo refrigeración, apagado en modo calentamiento

K1: Conectar para iniciar el calentamiento / la refrigeración de la zona 1. Desconectar la parada.

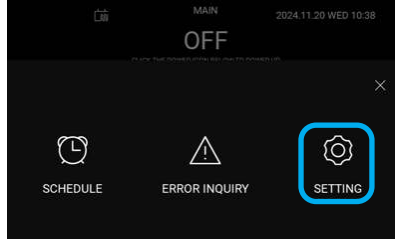
K3: Conectar para iniciar el calentamiento / la refrigeración de la zona 2. Desconectar la parada.

9.1.3. AJUSTES DEL REGULADOR

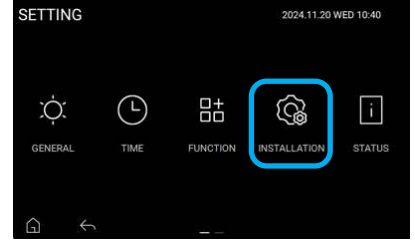
Ajustes principales de la instalación del sistema



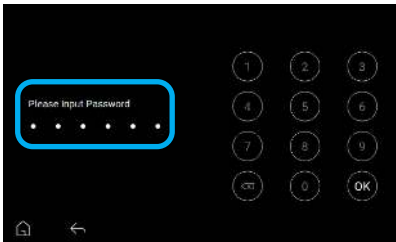
1



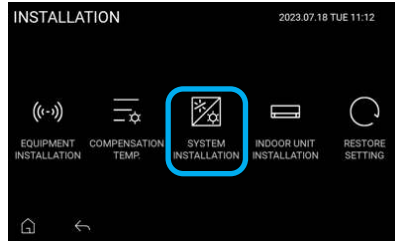
2



3



4 * Contraseña "841226"



5



← Regulador de terceros

← Regulador de terceros

← Regulador principal

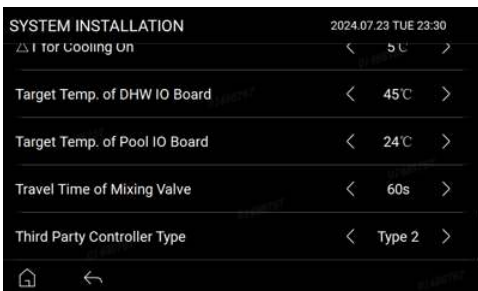
← Regulador principal

* SELECCIONE EL MODO DE CONTROL PARA LA ZONA 1

* SELECCIONE EL MODO DE CONTROL PARA LA ZONA 2

Función	Rango de parámetros	Ajustes
Modo de control de la zona 1	Regulador principal Regulador de terceros	Regulador de terceros
Modo de control de la zona 2	Regulador principal Regulador de terceros	Regulador de terceros

DESPLÁCESE 2 PÁGINAS HACIA ABAJO PARA LLEGAR A ESTE MENÚ



← 60 s

← Tipo 1

* ¡ATENCIÓN! ELIJA CONFORME A SU INSTALACIÓN: TIPO 1 O TIPO 2

* SELECCIONE EL TIPO DE REGULADOR DE TERCEROS

Función	Rango de parámetros	Ajustes
Tipo del regulador de terceros	Tipo 1 / Tipo 2	Tipo 1

* LOS PARÁMETROS QUE DEBEN MODIFICARSE ESTÁN MARCADOS EN AZUL.

10.0. ANEXOS

10.0. ANEXOS

Vista previa ATW-A03N



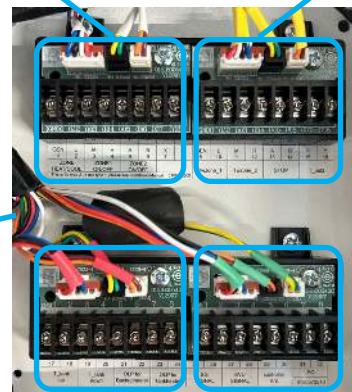
Placa de conexión 1



Placa de conexión 2



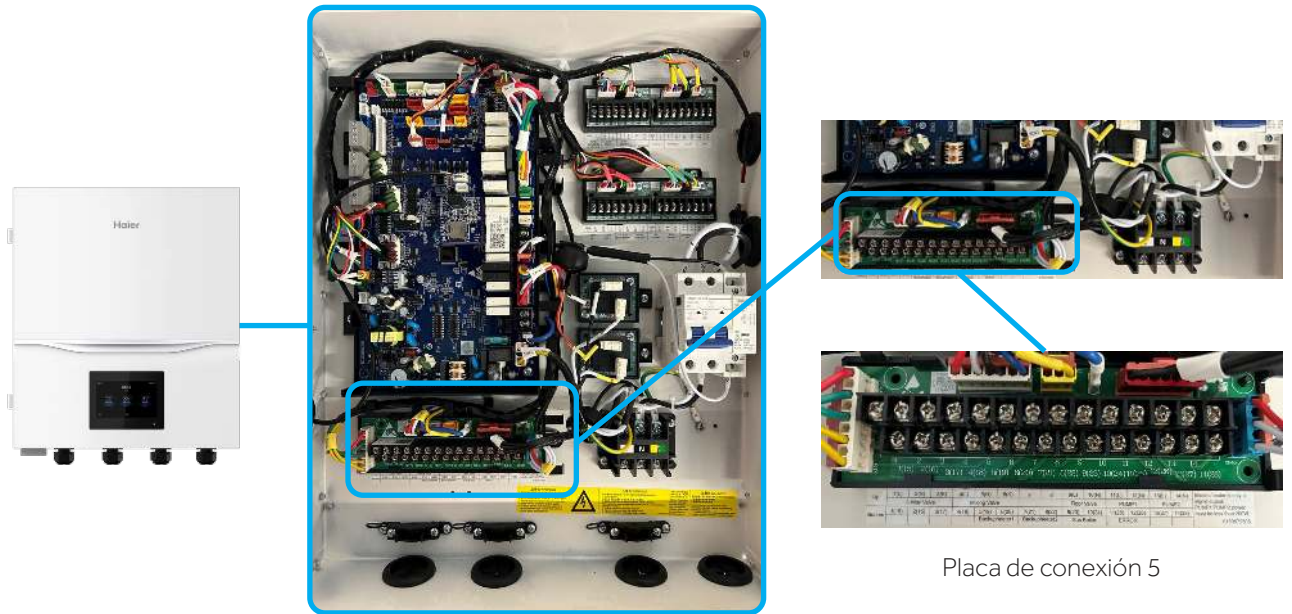
Placa de conexión 3



* Todas las conexiones de la placa de conexiones 1, 2, 3 y 4 son con terminales de tornillo.



Placa de conexión 4

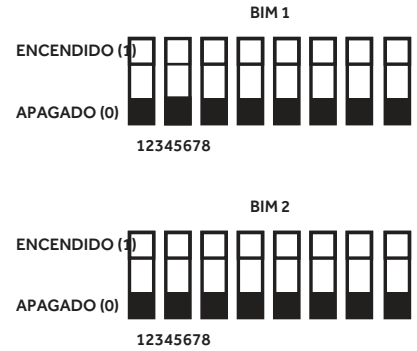
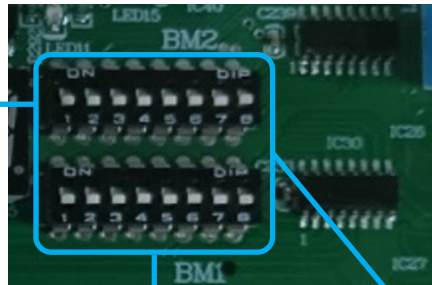


Placa de conexión 5

*** TODAS LAS CONEXIONES DE LA PLACA DE CONEXIONES 5 SON CON TERMINALES DE TORNILLO.**

10.0. ANEXOS

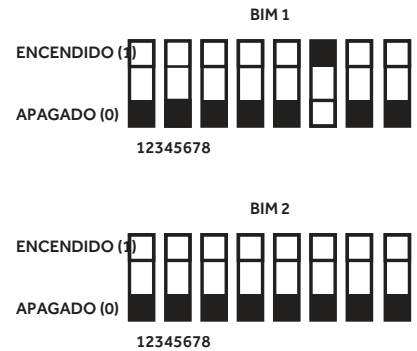
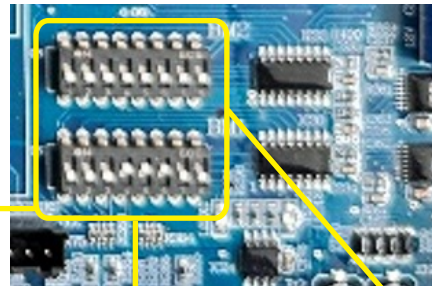
Ajuste del interruptor DIP - Instalación monofásica - ODU de 1 fase



BM1_1	Capacity control	[1]	Capacity control method	0	Normal control(default)			
		1	0~10V control(ATW-A02)					
BM1_2	Outdoor unit model	[2]	[3] [4] [5] Outdoor unit model	0	0	0	0	AW042MUGHA
BM1_3		0	0	0	1	AW062MUGHA		
BM1_4		0	0	1	0	AW082MUGHA		
BM1_5		0	0	1	1	AW102(N)MUGHA		
		1	0	0	0	AW122(N)MXGHA		
		1	0	0	1	AW142(N)MXGHA		
		1	0	1	0	AW162(N)MXGHA		
BM1_6	Power supply type	[6]	Power supply type	0	Single phase			
		1	Three phase					
BM1_7	Running mode	[7]	[8] Outdoor unit running mode	0	0	Normal mode(default)		
BM1_8		0	1	Turbo mode				
		1	0	Quiet mode				
		1	1	Test mode				

		[1]	[2]	[3]	Outdoor type selection	
		0	0	0	Monobloc(default)	
		0	0	1	Hydro split	
BM2_1	Out	0	1	0	Hydro all in one	
BM2_2	door	0	1	1	Split	
BM2_3	type	1	0	0	Split all in one	
		1	0	1	Reserved	
		1	1	0	Reserved	
		1	1	1	Reserved	
BM2_4	Refrigerant type selection	[4]				
	gera	0			R290(default)	
	nt	1			R32	
	type					
		[5]	[6]	[7]	[8]	Reserved
BM2_5	Res	0	0	0	0	Reserved(default)
BM2_6	erve					
BM2_7	d	Reserved
BM2_8						

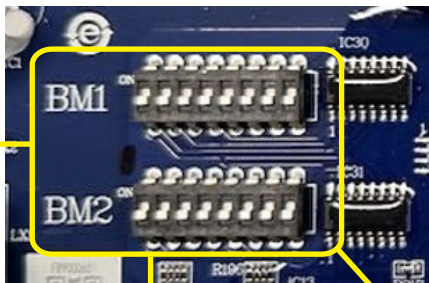
Ajuste del interruptor DIP - Instalación trifásica - ODU de 3 fases



BM1_1	Capacity control	[1]	Capacity control method	0	Normal control(default)			
		1	0~10V control(ATW-A02)					
BM1_2	Outdoor unit model	[2]	[3] [4] [5] Outdoor unit model	0	0	0	0	AW042MUGHA
BM1_3		0	0	0	1	AW062MUGHA		
BM1_4		0	0	1	0	AW082MUGHA		
BM1_5		0	0	1	1	AW102(N)MUGHA		
		1	0	0	0	AW122(N)MXGHA		
		1	0	0	1	AW142(N)MXGHA		
		1	0	1	0	AW162(N)MXGHA		
BM1_6	Power supply type	[6]	Power supply type	0	Single phase			
		1	Three phase					
BM1_7	Running mode	[7]	[8] Outdoor unit running mode	0	0	Normal mode(default)		
BM1_8		0	1	Turbo mode				
		1	0	Quiet mode				
		1	1	Test mode				

		[1]	[2]	[3]	Outdoor type selection	
		0	0	0	Monobloc(default)	
		0	0	1	Hydro split	
BM2_1	Out	0	1	0	Hydro all in one	
BM2_2	door	0	1	1	Split	
BM2_3	type	1	0	0	Split all in one	
		1	0	1	Reserved	
		1	1	0	Reserved	
		1	1	1	Reserved	
BM2_4	Refrigerant type selection	[4]				
	gera	0			R290(default)	
	nt	1			R32	
	type					
		[5]	[6]	[7]	[8]	Reserved
BM2_5	Res	0	0	0	0	Reserved(default)
BM2_6	erve					
BM2_7	d	Reserved
BM2_8						

Ajuste del interruptor DIP - ATW-A03 N



BM1_1	Indoor Type	[1]	Indoor Type			
		0	ATW-A03(Default)			
BM1_2 BM1_3 BM1_4	Cascade address	[2]	[3]	[4]	Cascade address	
		0	0	1	Main unit(Default)	
		0	0	1	Sub unit 1#	
		0	1	0	Sub unit 2#	
		0	1	1	Sub unit 3#	
		1	0	0	Sub unit 4#	
		1	0	1	Sub unit 5#	
		1	1	1	Sub unit 7#	
BM1_5 BM1_6 BM1_7 BM1_8	Capacity	[5]	[6]	[7]	[8]	ODU capacity selection
		0	0	0	0	AW042MUGHA
		0	0	0	1	AW062MUGHA
		0	0	1	0	AW082MUGHA
		0	0	1	1	AW102(N)MUGHA
		1	0	0	0	AW122(N)MXGHA
		1	0	0	1	AW142(N)MXGHA
1	0	1	0	AW162(N)MXGHA		

BM2_1	communication Address setting mode	[1]	Outdoor communication address setting mode					
		0	Automatic setting (default)					
BM2_2	Water tank sensor selection	[2]	Water tank sensor selection					
		0	2 sensors, T_tank up and T_tank down (default)					
BM2_3 BM2_4 BM2_5 BM2_6 BM2_7 BM2_8	Address	[3]	[4]	[5]	[6]	[7]	[8]	Address
		0	0	0	0	0	0	0#(default)
BM2_5 BM2_6 BM2_7 BM2_8	Address	0	0	0	0	0	1	1#
		0	0	0	0	1	0	2#
	

11.0. APÉNDICE

11.0. APÉNDICE

Caudales recomendados para cada sistema

kW de la unidad	Delta T	Caudal l/ min	Caudal m ³ / h	Delta T	Caudal l/ min	Caudal m ³ / h
4	5	11,5	0,7	7	8,2	0,5
6	6	14,4	0,9	7	12,3	0,7
8	5	23,0	1,4	7	16,4	1,0
10	5	28,7	1,7	7	20,5	1,2
12	5	34,4	2,1	7	24,6	1,5
14	5	40,2	2,4	7	28,7	1,7
16	5	45,9	2,8	7	32,8	2,0

Capacidad de las tuberías

La capacidad máxima recomendada para cada tubería es la siguiente para evitar ruidos

Delta T a 5 C:

Diámetro mm	Velocidad m/s	Delta t	Caudal m ³ / h	Caudal l/min	kW
6	1,2	5	0,1	1,3	0,5
8	1,2	5	0,2	2,6	0,9
10	1,2	5	0,3	4,4	1,5
12	1,2	5	0,4	6,6	2,3
15	1,2	5	0,6	10,5	3,6
22	1,2	5	1,4	23,1	8,0
28	1,2	5	2,3	38,8	13,5
35	1,2	5	3,6	60,1	20,9

Delta T a 7 C

Diámetro mm	Velocidad m/s	Delta t	Caudal m ³ / h	Caudal l/min	kW
6	1,2	7	0,1	1,3	0,6
8	1,2	7	0,2	2,6	1,3
10	1,2	7	0,3	4,4	2,1
12	1,2	7	0,4	6,6	3,2
15	1,2	7	0,6	10,5	5,1
22	1,2	7	1,4	23,1	11,2
28	1,2	7	2,3	38,8	18,9
35	1,2	7	3,6	60,1	29,3

Volumen mínimo del sistema Litros

Bomba de calor Haier	Número de modelo	Volumen mínimo del sistema Litros
4 kW	AW042MUGHA	28,7
6 kW	AW062MUGHA	43,1
8 kW	AW082MUGHA	57,4
10 kW	AW102MUGHA	71,8
12 kW	AW122MX	86,1
14 kW	AW142MX	100,5
16 kW	AW162MX	114,8

Tamaño de los fusibles

Bomba de calor Haier monofásica	Número de modelo	Fusible
4 kW	AW042M/HUGHA	16 amperios
6 kW	AW062M/HUGHA	16 amperios
8 kW	AW082M/HUGHA	20 amperios
10 kW	AW102M/HUGHA	20 amperios
12 kW	AW122MXGHA	32 amperios
14 kW	AW142MXGHA	32 amperios
16 kW	AW162MXGHA	32 amperios
Bomba de calor Haier trifásica		
10 kW	AW10NMUGHA - AW102HUGHA	16 amperios
12 kW	AW12NMUGHA - AW122H-VGHA	16 amperios
14 kW	AW14NMUGHA - AW142H-VGHA	16 amperios
16 kW	AW16NMUGHA - AW162H-VGHA	16 amperios
Unidad interior ATW-A03 N monofásica		
Todas las unidades	ATW-A03 N	13 amperios

Haier
HVAC Solutions



Haier HVAC
haierhvac.eu

Haier

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Haier

HVAC Solutions

A2W

Manuel d'installation

2025/26



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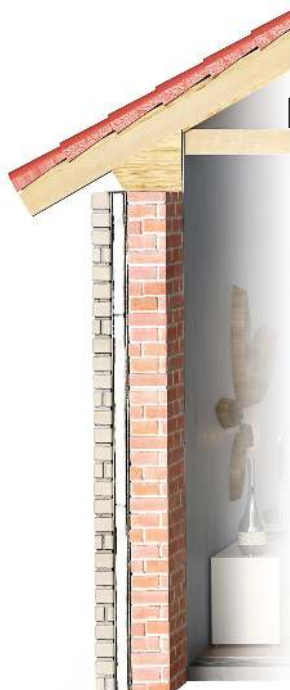
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1.0. CONNEXION ENTRE L'UNITÉ EXTÉRIEURE ET ATW-A03 N

Installation à l'extérieur



Installation à l'intérieur

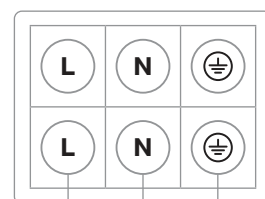
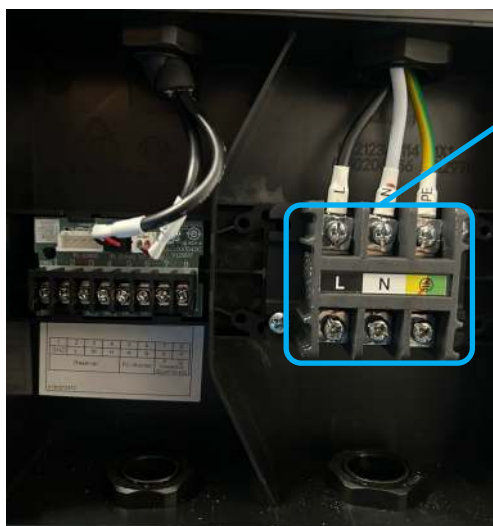


ATW-A03 N



1.1. CÂBLAGE ÉLECTRIQUE/CONNEXIONS

1.1.1. Installation monophasée - 1 ph U.Ext.



L = Sous tension
N = Neutre
⊕ = Terre

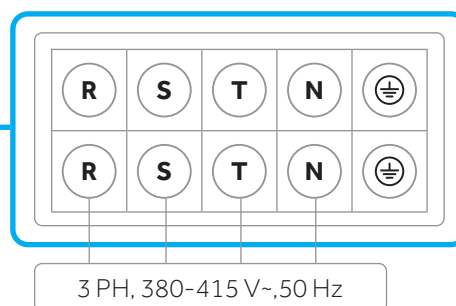
1 PH, 220-240 V~, 50 Hz

MONOBLOC U.EXT. :

AW042MUGHA AW062MUGHA
AW082MUGHA AW102MUGHA
AW122MXGHA AW142MXGHA
AW162MXGHA

1.1. CÂBLAGE ÉLECTRIQUE/CONNEXIONS

1.1.2 Installation triphasée - 3 ph-ODU



R = Ligne 1
S = Ligne 2
T = Ligne 3
N = Neutre
⊕ = Terre

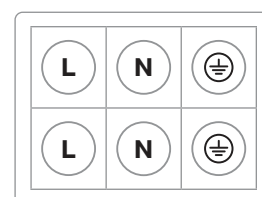
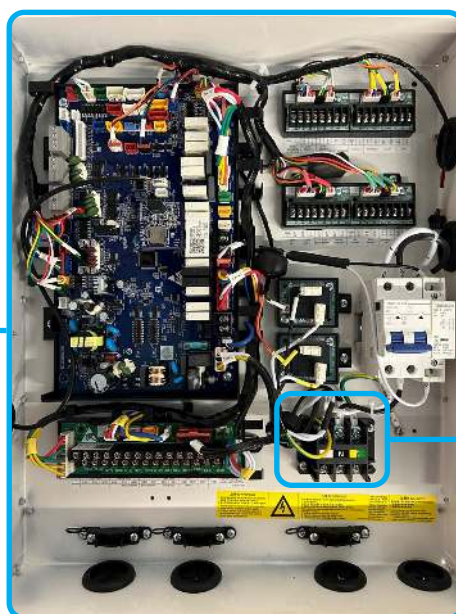
MONOBLOC ODU :

AW10NMUGHA AW12NMUGHA
AW14NMUGHA AW16NMUGHA

1.1.3. Connexion électrique pour l'ATW-A03 N - toujours 240 V monophasée



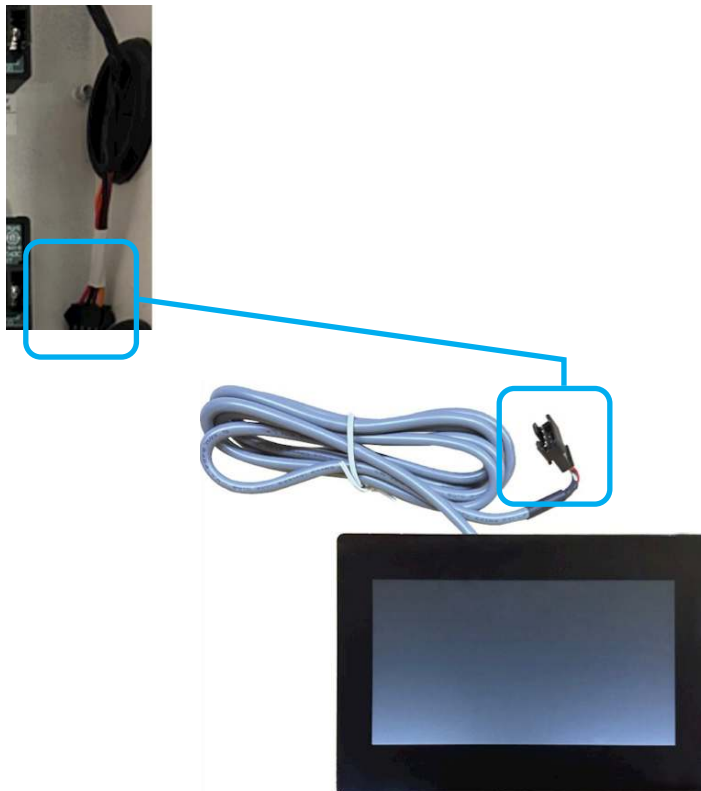
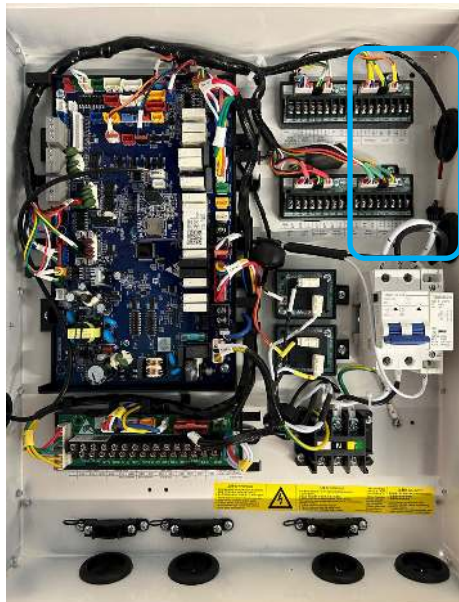
Intérieur



L = Sous tension
N = Neutre
⊕ = Terre

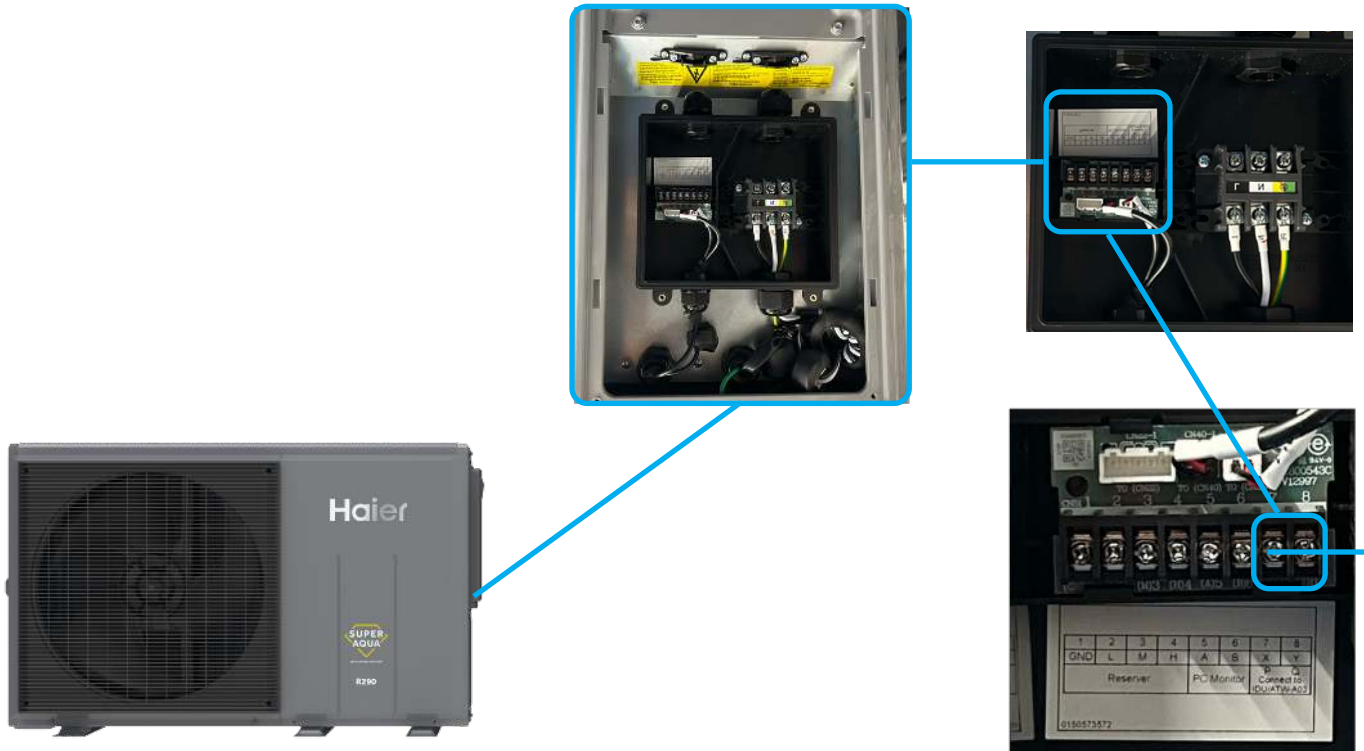


1.1.4 Connexion du contrôleur filaire

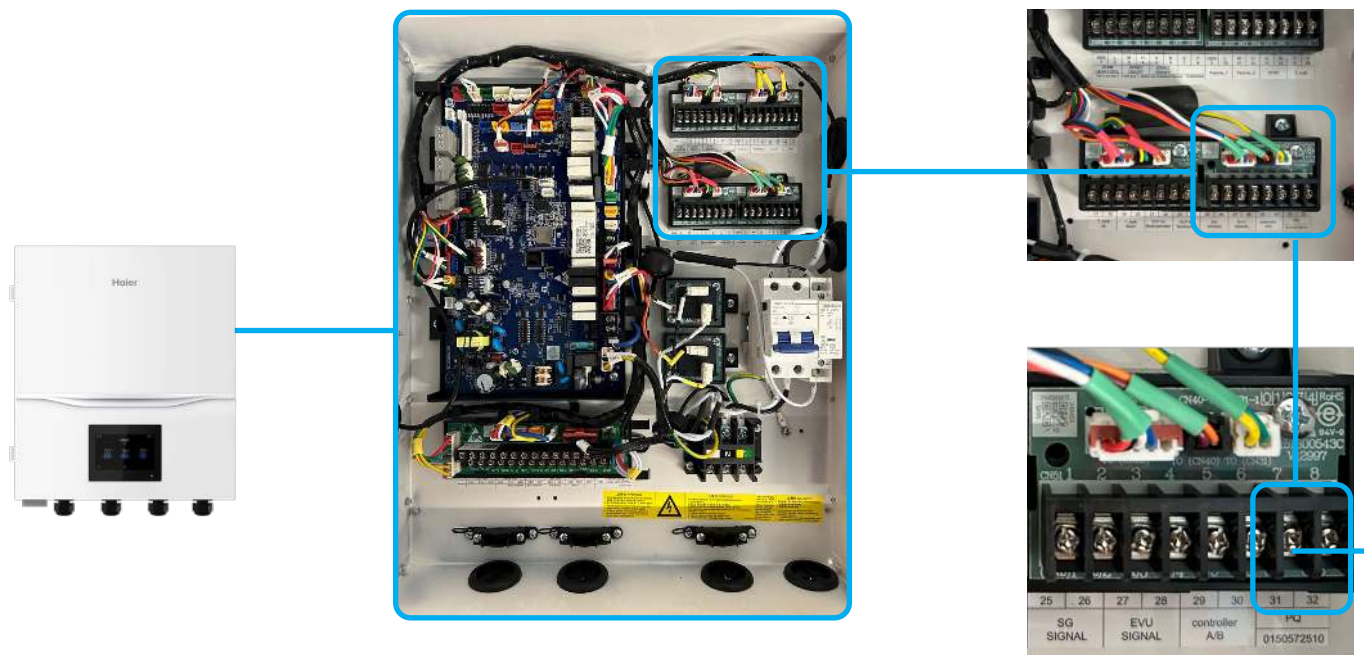


1.2. CONNEXION ENTRE L'UNITÉ EXTÉRIEURE ET ATW-A03 N

Unité extérieure



Unité intérieure ATW-A03N



Carte de connexion 4

Carte de connexion 1 - Unité extérieure

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Réservé				Surveillance PC		PQ	

Carte de connexion 4 - Unité intérieure ATW-A03N

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
Signal SG		Signal EVU		Contrôleur A/B		PQ	

Connecter un câble de communication à 2 conducteurs entre 7(X) et 8(Y) sur la carte 1 de l'unité extérieure, et 31 (X) et 32 (Y) sur la carte 4 de l'unité intérieure ATW-A03.

Le bus d'interconnexion entre l'unité extérieure et l'unité ATW-A03N doit être réalisé avec un câble blindé de 2 x 0,75 mm.

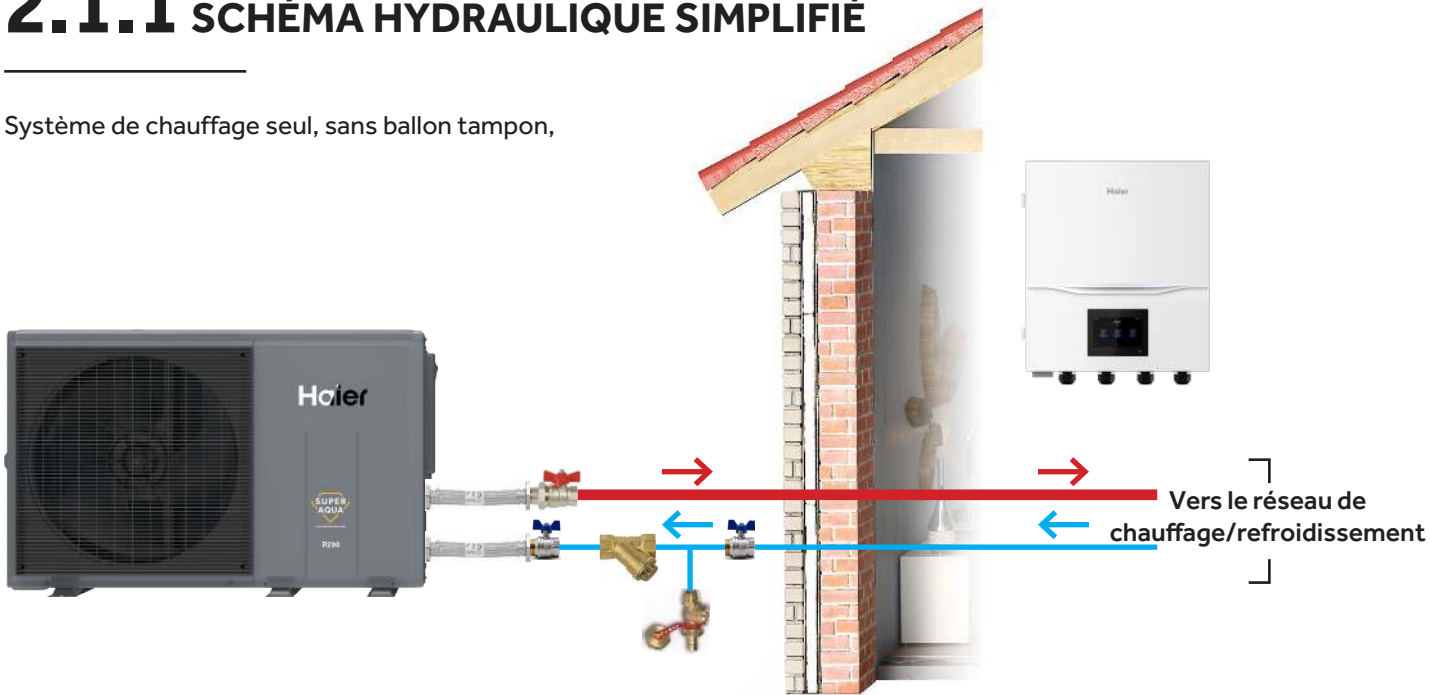
Remarque : au milieu de la carte électronique bleue, un voyant vert et un voyant rouge clignotent si la communication est correcte. Si les LED cessent de clignoter, l'unité extérieure est éteinte.

2.0. ZONE 01

2.1. ZONE 1 SANS RÉSERVOIR TAMPON

2.1.1 SCHÉMA HYDRAULIQUE SIMPLIFIÉ

Système de chauffage seul, sans ballon tampon,



	Tuyau flexible		Flux d'eau de distribution
	Robinet à tournant sphérique		Flux d'eau de retour
	Robinet à tournant sphérique		
	Filtre à eau		
	Vanne de vidange		

LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES RÉGLEMENTATIONS LOCALES.

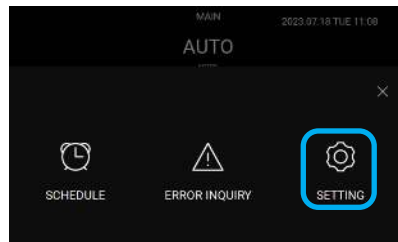
POUR LES CONNEXIONS ÉLECTRIQUES, VOIR LE POINT 1.0.

2.1.2. Réglage du contrôleur

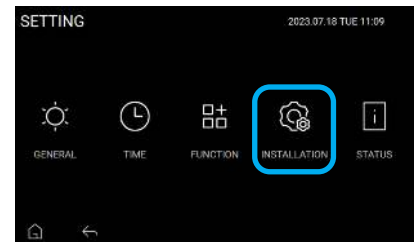
Principaux paramètres d'installation de l'équipement



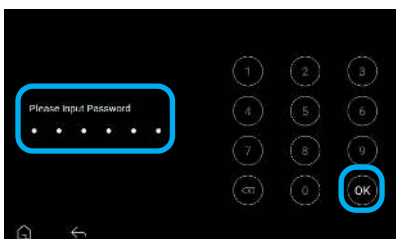
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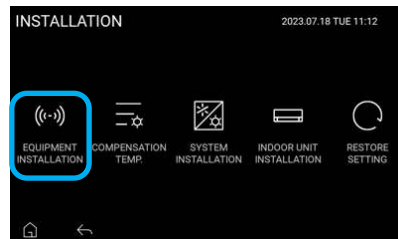
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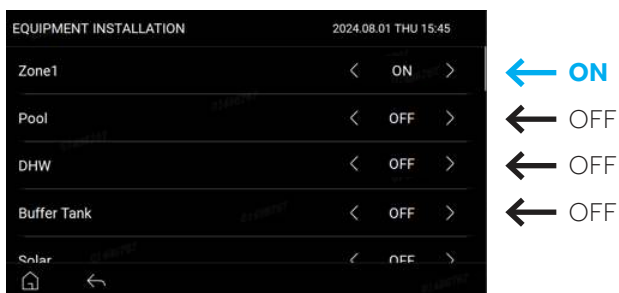
3



4 * Mot de passe « 841226 » OK



5



*** SÉLECTIONNER ON POUR ACTIVER LA ZONE 1**

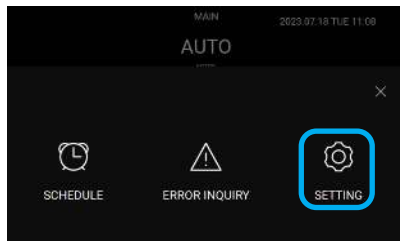
Fonction	Plage de paramètres	Paramètres
Zone 1	ON/OFF	ON

2.1.2. RÉGLAGE DU CONTRÔLEUR

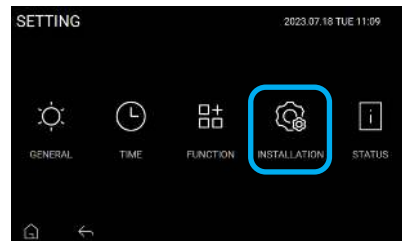
Principaux paramètres d'installation du système



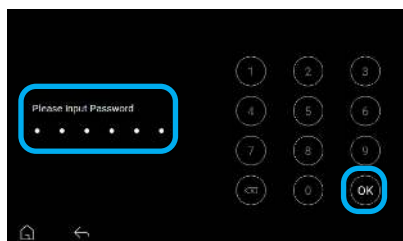
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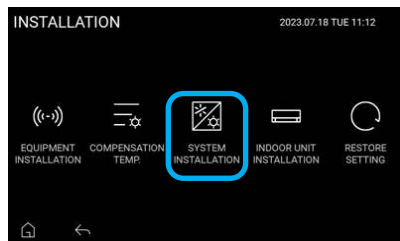
2



3



4 * Mot de passe « 841226 » OK



5

Principaux paramètres d'installation de l'équipement



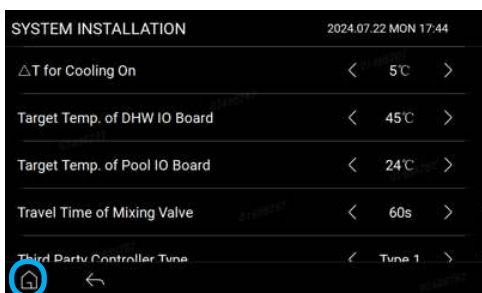
← **Contrôleur principal** * SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 1

Fonction	Plage de paramètres	Paramètres
Mode de contrôle de la zone 1	Contrôleur principal, Contrôleur tiers	Contrôleur principal



← 27°C
← **6°C** *ENTRER LE DELTA T POUR LE MODE CHAUFFAGE

Fonction	Plage de paramètres	Paramètres
ΔT pour le chauffage activé	0 - 15 °C	6 °C



← **5°C** *ENTRER LE DELTA T POUR LE MODE REFROIDISSEMENT

Appuyer sur la maison pour revenir au menu principal

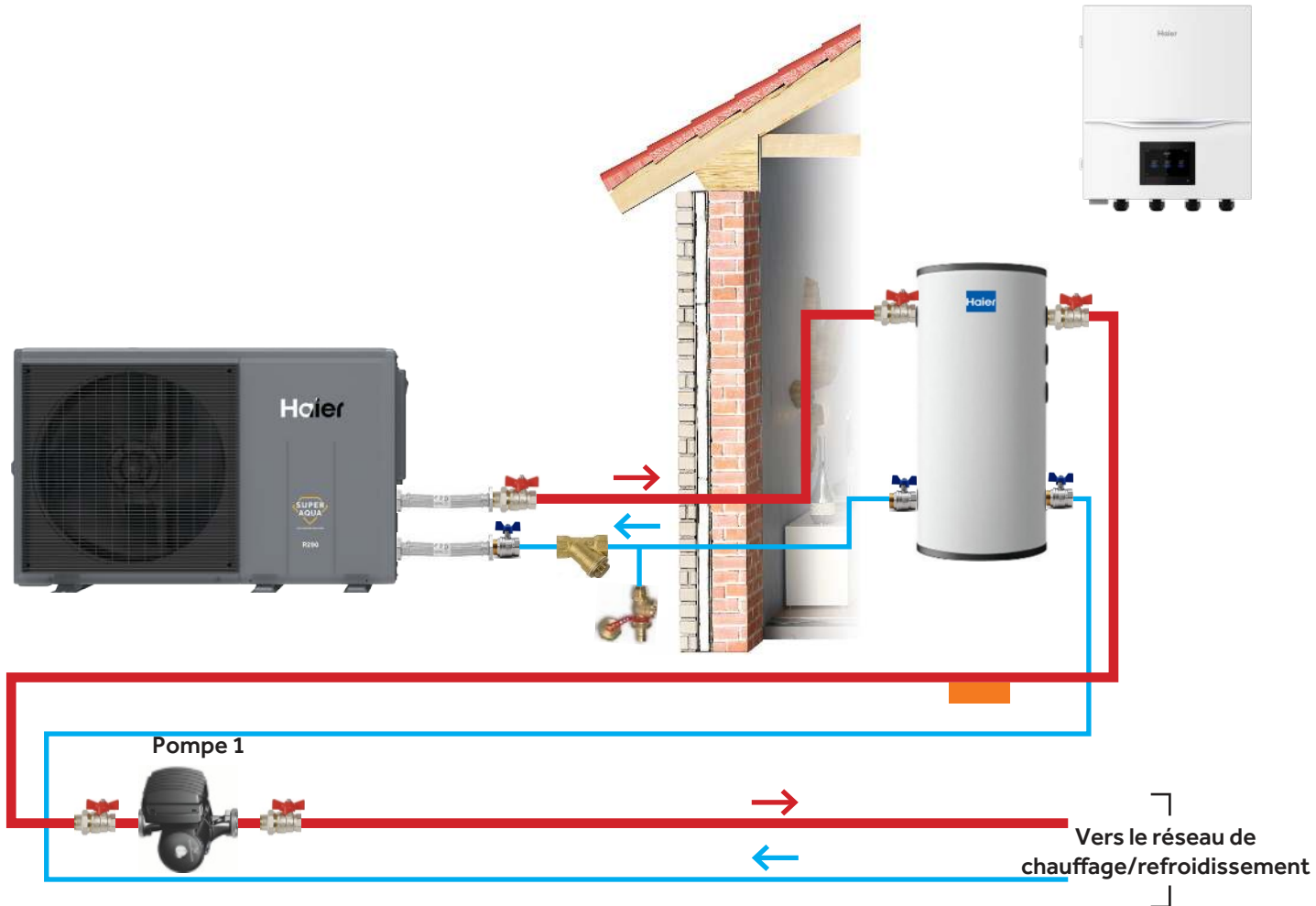
Fonction	Plage de paramètres	Paramètres
ΔT pour le refroidissement activé	0 - 15 °C	5 °C










***LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU GRAS.**

2.2. ZONE 1 AVEC RÉSERVOIR TAMPON

2.2.1. SCHÉMA HYDRAULIQUE SIMPLIFIÉ

2.2.1. Systeme de chauffage seul avec ballon tampon / séparation hydraulique



	Tuyau flexible		Réservoir tampon
	Robinet à tournant sphérique		Pompe à eau
	Robinet à tournant sphérique		Flux d'eau de distribution
	Filtre à eau		Flux d'eau de retour
	Vanne de vidange		

LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES RÉGLEMENTATIONS LOCALES.

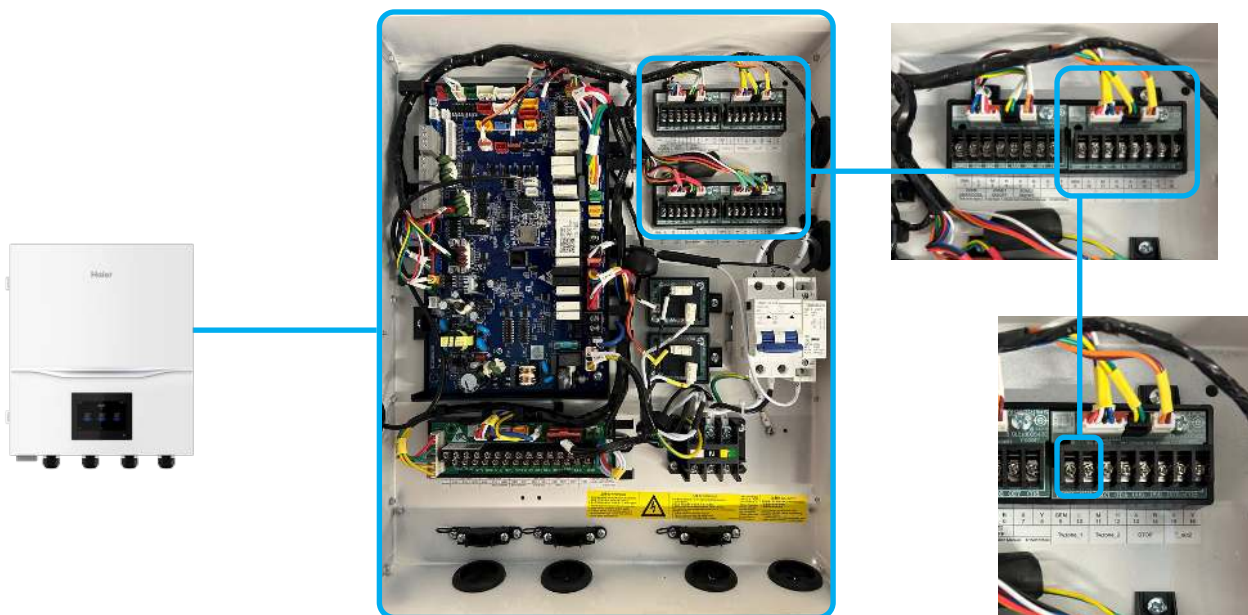
POUR LES CONNEXIONS ÉLECTRIQUES, VOIR LE POINT 1.0.

Remarque : L'appareil doit fonctionner avec le volume minimal du système, voir l'annexe à la fin du manuel.

2.2.2. CONNEXIONS

Capteur de température de l'eau pour la zone 1

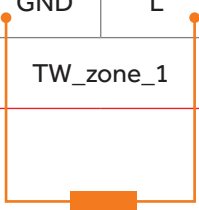
Toutes les connexions sur la carte de connexion 1, 2, 3 et 4 sont des bornes à vis.



Carte de connexion 2

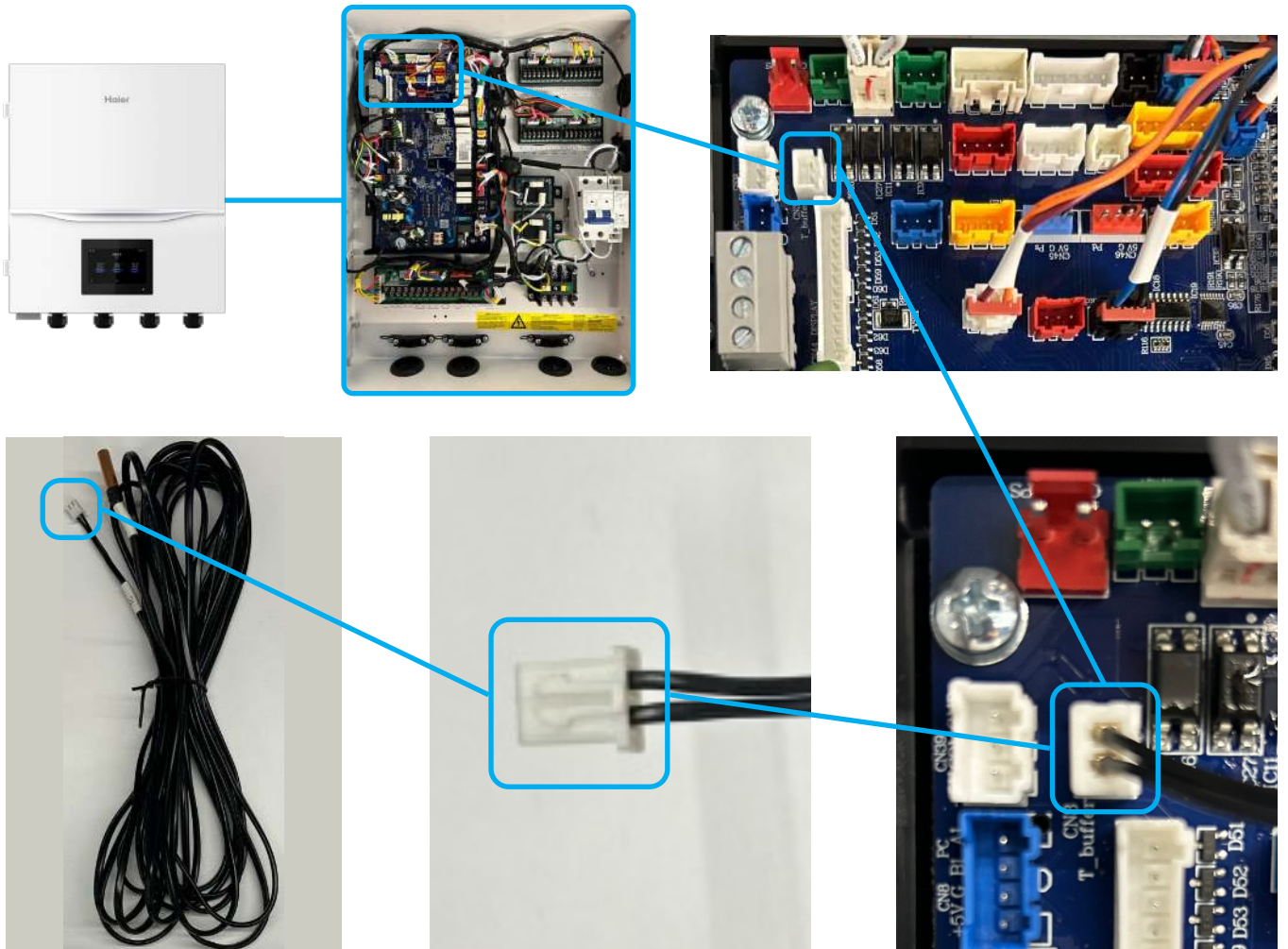
Carte de connexion

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zone_1		TW_zone_2		STOP		T_out2	



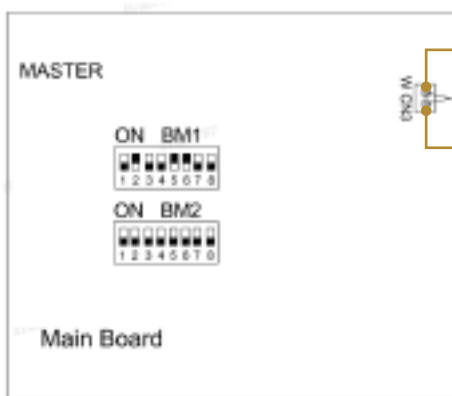
VOUS POUVEZ UTILISER LE CAPTEUR DE LA ZONE 1 TW_ZONE 1 OU LES CAPTEURS D'EAU DE L'UNITÉ EXTÉRIEURE POUR CONTRÔLER LA POMPE À CHALEUR.

2.2.2. SCHÉMA HYDRAULIQUE SIMPLIFIÉ



* Vous devez utiliser le capteur avec la fiche blanche.

*** T-BUFFER N'EST PAS OBLIGATOIRE**

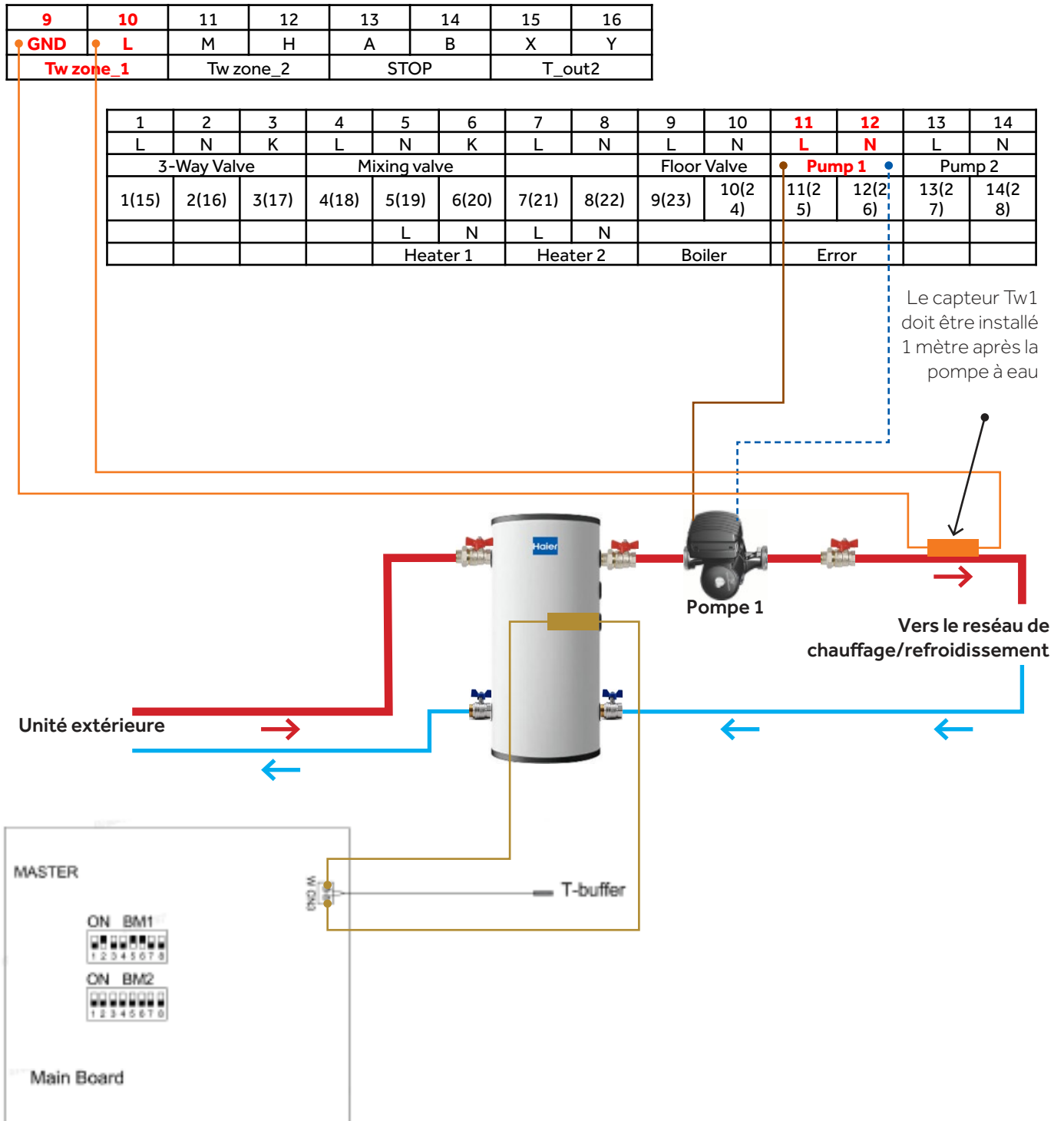


Sur la carte électronique principale, on peut connecter la sonde de température d'eau au connecteur CN3



**IL EST POSSIBLE DE RÉGLER L'UNITÉ DE MANIÈRE À CE QU'ELLE NE CONTRÔLE QUE LA TEMPÉRATURE DU BALLON TAMPON.
POUR CE FAIRE, VOUS POUVEZ INSTALLER UN CAPTEUR DE CONTRÔLE DU TAMPON.**

2.2.3. SCHÉMA HYDRAULIQUE SIMPLIFIÉ

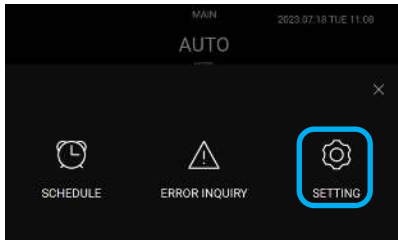


2.2.4. PARAMÈTRES DU CONTRÔLEUR

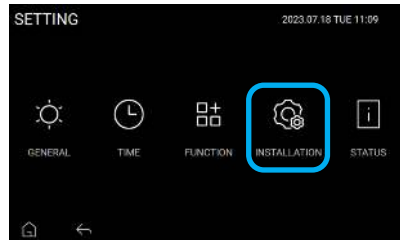
Principaux paramètres d'installation de l'équipement



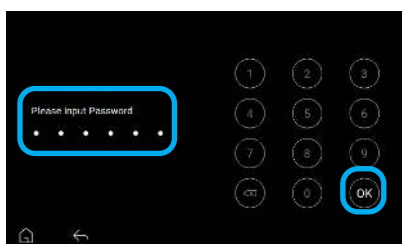
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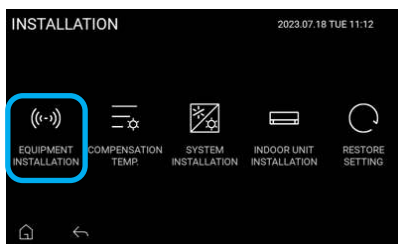
2



3



4 * Mot de passe « 841226 » OK



5



← ON
← OFF
← OFF
← ON

* SÉLECTIONNER ON POUR ACTIVER LA ZONE 1

* SÉLECTIONNER ON POUR PRENDRE EN COMPTE LE RÉSERVOIR TAMPON

Appuyer sur la maison pour revenir au menu principal

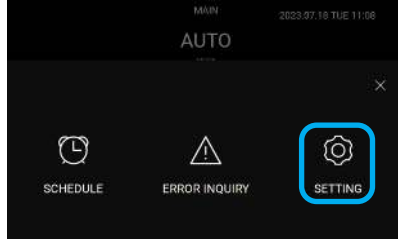
Fonction	Plage de paramètres	Paramètres
Zone 1	ON/OFF	ON
Réservoir tampon	ON/OFF	ON

2.2.4. PARAMÈTRES DU CONTRÔLEUR

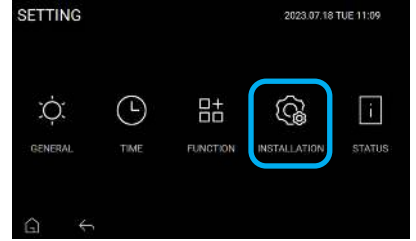
Principaux paramètres d'installation du système



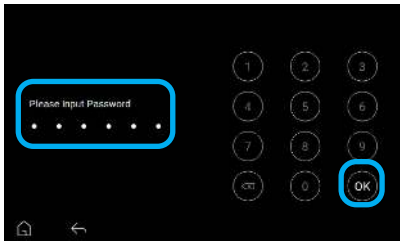
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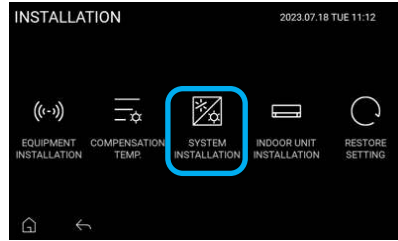
2



3



4 * Mot de passe « 841226 » OK



5



← **Contrôleur principal** * SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 1
 ← Contrôleur principal
 ← Contrôleur principal
 ← Contrôleur principal

Fonction	Plage de paramètres	Paramètres
Mode de contrôle de la zone 1	Contrôleur principal Contrôleur tiers	Contrôleur principal



*ENTRER LE DELTA T POUR LE MODE CHAUFFAGE

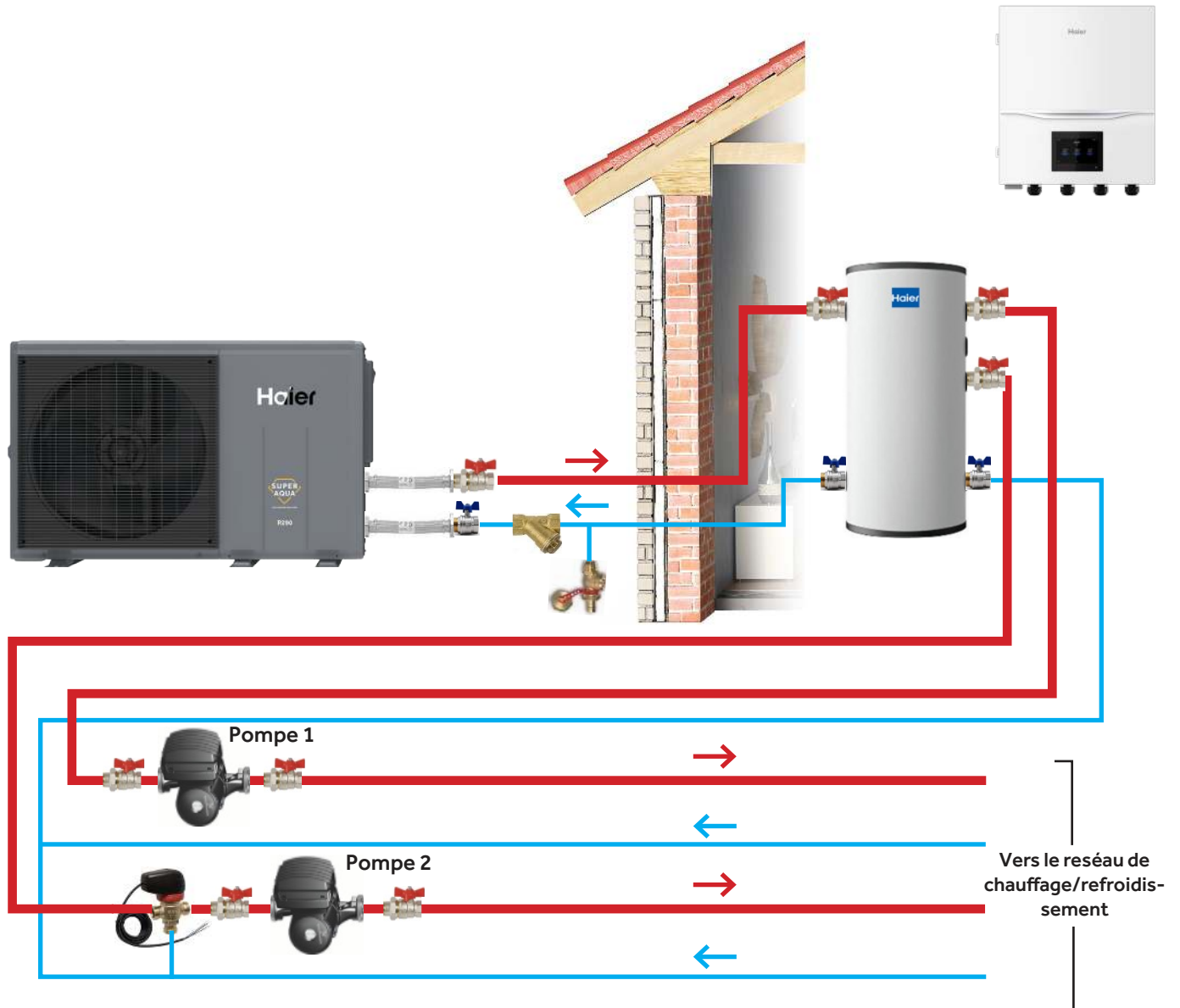
Appuyer sur la maison pour revenir au menu principal











Fonction	Plage de paramètres	Paramètres
ΔT pour le chauffage activé	0 - 15 °C	6 °C

3.0. ZONE 2 - ZONES MULTIPLES

3.1. SCHÉMA HYDRAULIQUE SIMPLIFIÉ

Système de chauffage seul - Multizone



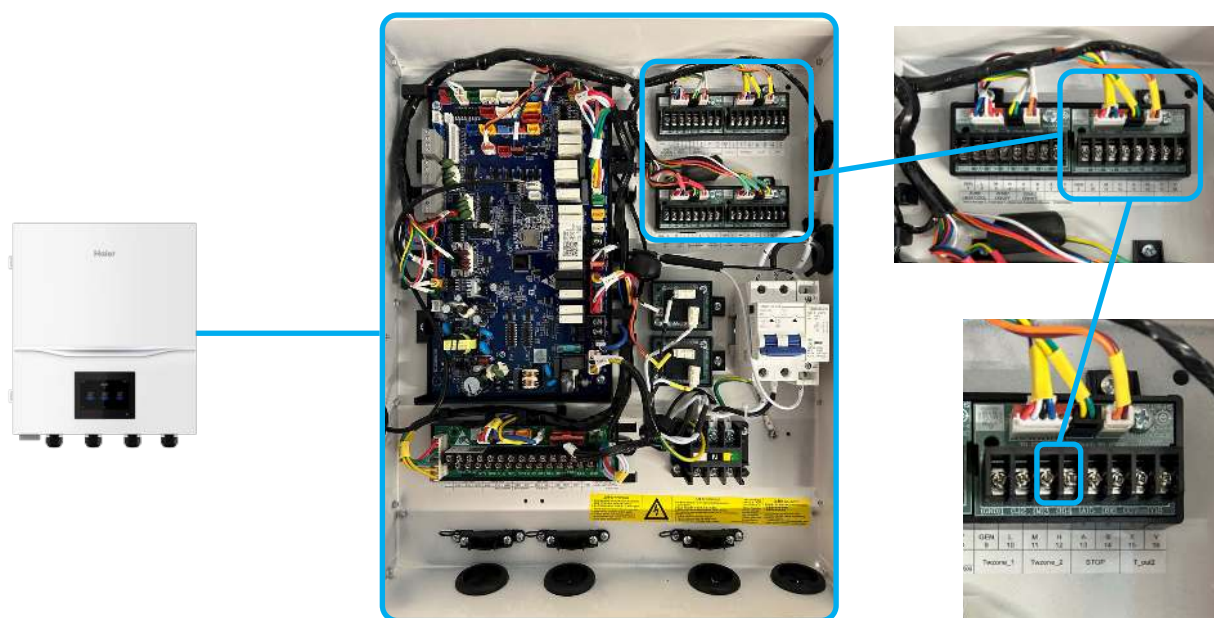
	Tuyau flexible		Réservoir tampon
	Robinet à tournant sphérique		Pompe à eau
	Robinet à tournant sphérique		Vanne de mélange
	Filtre à eau		Flux d'eau de distribution
	Vanne de vidange		Flux d'eau de retour

LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES RÉGLEMENTATIONS LOCALES.

POUR LES CONNEXIONS ÉLECTRIQUES, VOIR LE POINT 1.0.

LES POMPES 1, 2, ETC., SONT COMMANDÉES PAR DES SIGNAUX DE MARCHE EXTERNES. LA POMPE À CHALEUR CHAUFFE LE BALLON TAMPON. LA COMMANDE DES VANNES ET DES POMPES APRÈS LE BALLON TAMPON EST ASSURÉE PAR DES THERMOSTATS / SIGNAUX DE MARCHE EXTERNES.

3.2. CAPTEUR DE TEMPÉRATURE DE L'EAU POUR LA ZONE 2



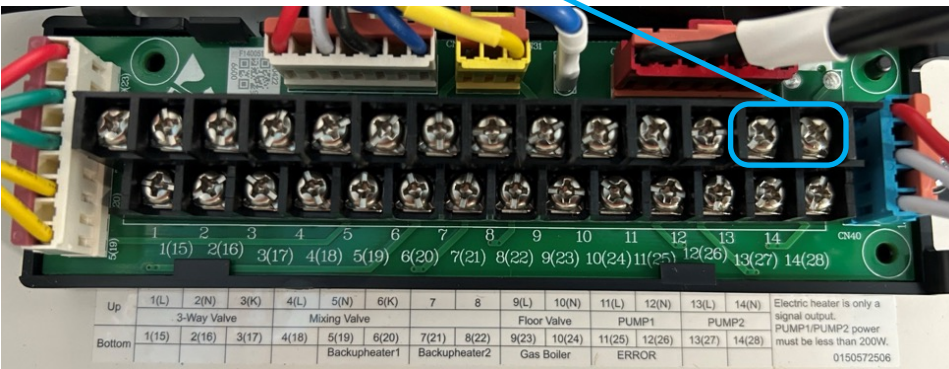
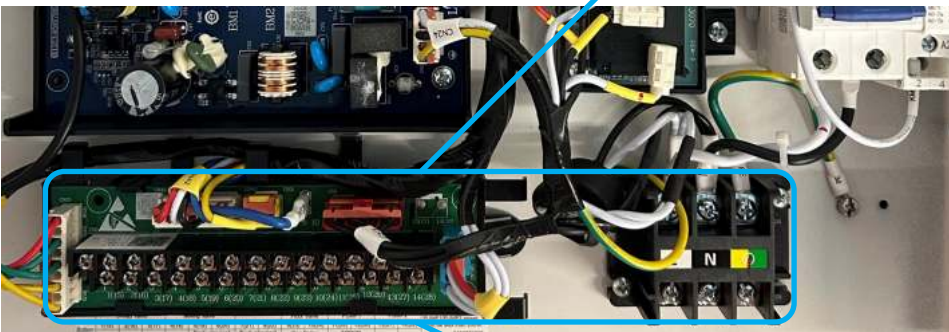
Carte de connexion 2

Carte de connexion

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zone_1		TW_zone_2		STOP		T_out2	

Sur la carte de connexion numéro 2, on peut connecter le capteur de température de l'eau pour la zone 2 entre les bornes 11 (M) et 12 (H).

Pompe à eau pour la zone 2



Carte de connexion 5

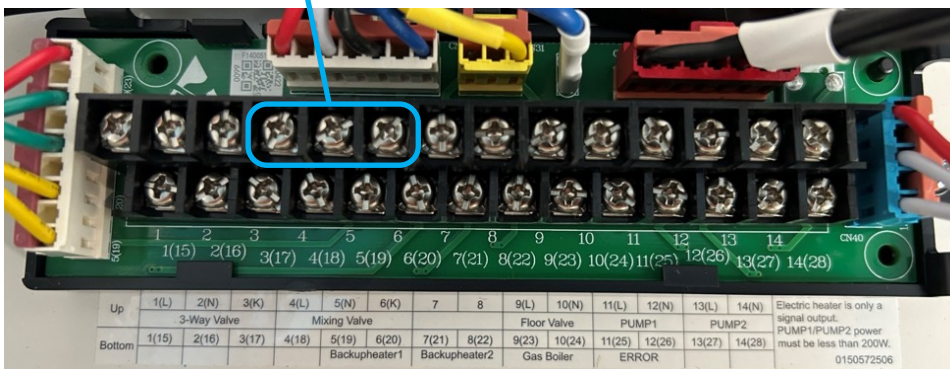
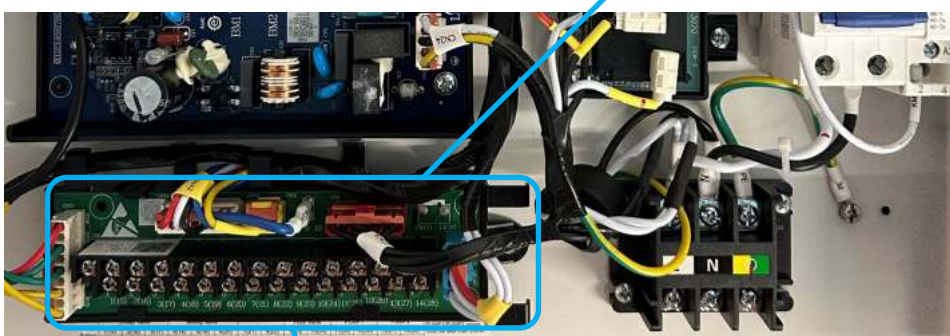
* Toutes les connexions de la carte de connexion 5 sont des bornes à vis.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			Floor Valve			Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N			Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

Sur la carte de connexion numéro 5, on peut connecter la pompe à eau pour la zone 1 entre les bornes 13 (sous tension) et 14 (neutre). Sur cette connexion, la tension de sortie est de 230 VCA et la puissance électrique maximale que ce contact peut supporter est de 200 W.



Vanne de mélange pour la zone 2



Carte de connexion 5

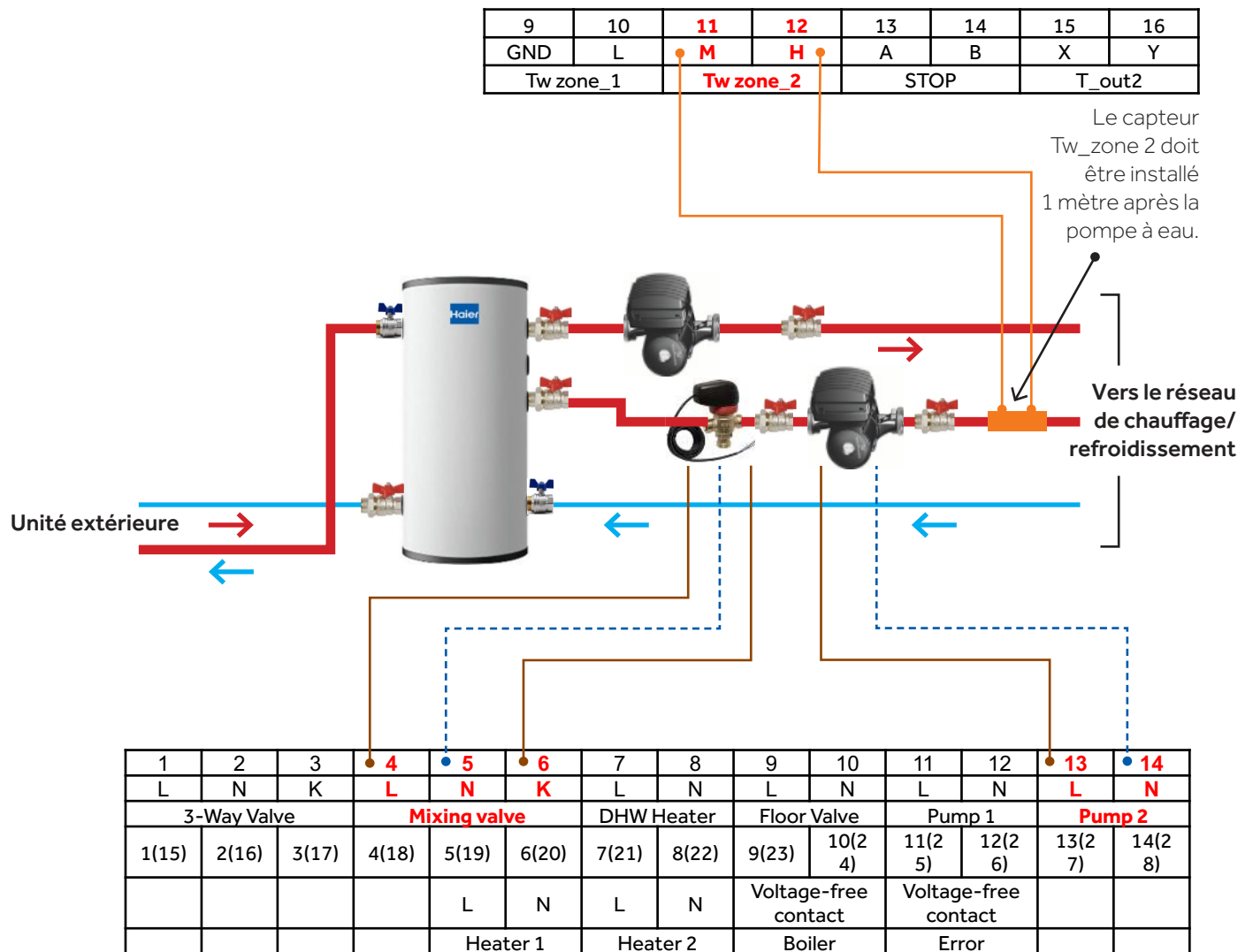
* Toutes les connexions de la carte de connexion 5 sont des bornes à vis.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			Floor Valve			Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact		Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			



Sur la carte de connexion numéro 5, on peut connecter la vanne de mélange pour la zone 2 entre les bornes 4 (L), 5 (N) et 6 (K). Sur cette connexion, nous avons une tension de sortie de 230 VCA entre 4 (L - sous tension) et 5 (N - neutre) pour la fermeture de la vanne ; et 230 VCA entre 6 (K - sous tension) et 5 (N - neutre) pour l'ouverture de la vanne.

3.3. SCHÉMA DE CONNEXION SIMPLIFIÉ



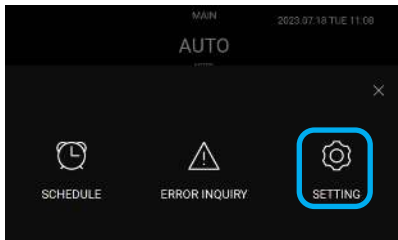
	Réservoir tampon		Capteur de temp. de l'eau Tw zone 2
	Robinet à tournant sphérique		Flux d'eau de distribution
	Robinet à tournant sphérique		Flux d'eau de retour
	Pompe à eau		Sous Tension
	Vanne de mélange		Neutre

3.4. PARAMÈTRES DU CONTRÔLEUR

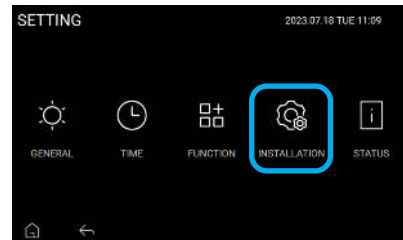
Principaux paramètres d'installation de l'équipement



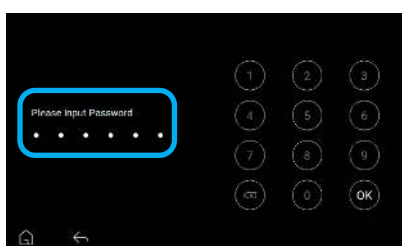
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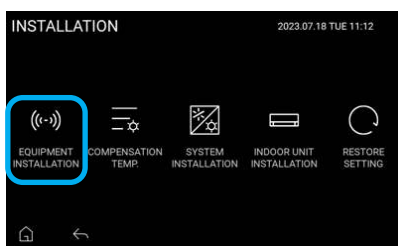
2



3



4 * Mot de passe « 841226 »



5



← ON
← ON
← OFF
← OFF

* SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 1
* SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 2

Fonction	Plage de paramètres	Paramètres
Zone 1	ON/OFF	ON
Zone 2	ON/OFF	ON



← ON
← OFF
← ON
← OFF

* SÉLECTIONNER ON POUR PRENDRE EN COMPTE LE RÉSERVOIR TAMPON
* SÉLECTIONNER ON POUR AUTORISER LE MODE DE REFROIDISSEMENT
* SÉLECTIONNER ON POUR AUTORISER LE MODE DE REFROIDISSEMENT DE LA ZONE 2

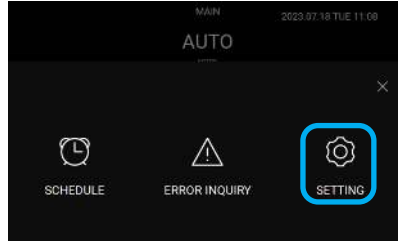
Fonction	Plage de paramètres	Paramètres
Réservoir tampon	ON/OFF	ON
Autoriser le mode de refroidissement	ON/OFF	ON
Autoriser le mode de refroidissement Zone 2	ON/OFF	OFF

* LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.

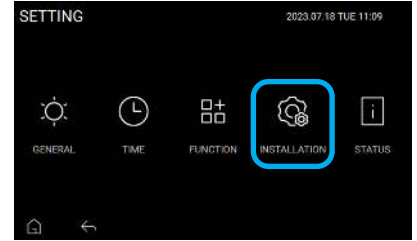
Principaux paramètres d'installation du système



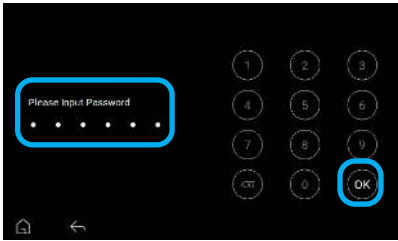
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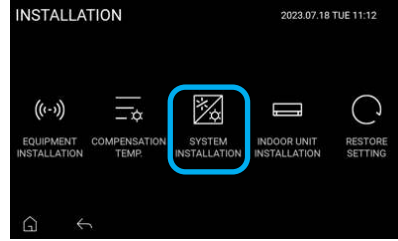
2



3



4 * Mot de passe « 841226 » OK



5



← **Contrôleur principal**

← **Contrôleur principal**

← Contrôleur principal

← Contrôleur principal

* SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 1

* SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 2

Fonction	Plage de paramètres	Paramètres
Mode de contrôle de la zone 1	Contrôleur principal, Contrôleur tiers, Capteur température ambiante IDU	Contrôleur principal
Mode de contrôle de la zone 2	Contrôleur principal Contrôleur tiers	Contrôleur principal



← 45°C

← 27°C

← **6°C**

← 0°C

*ENTRER LE DELTA T POUR LE MODE CHAUFFAGE

Appuyer sur la maison pour revenir au menu principal

Fonction	Plage de paramètres	Paramètres
ΔT pour le chauffage activé	0 - 15°C	6°C

DESCENDEZ DE DEUX PAGES POUR ACCÉDER À CES PARAMÈTRES



***ENTRER LA TEMPÉRATURE DE L'ECS**



Fonction	Plage de paramètres	Paramètres
Temps de parcours de la vanne de mélange	30 - 240 s	60 s

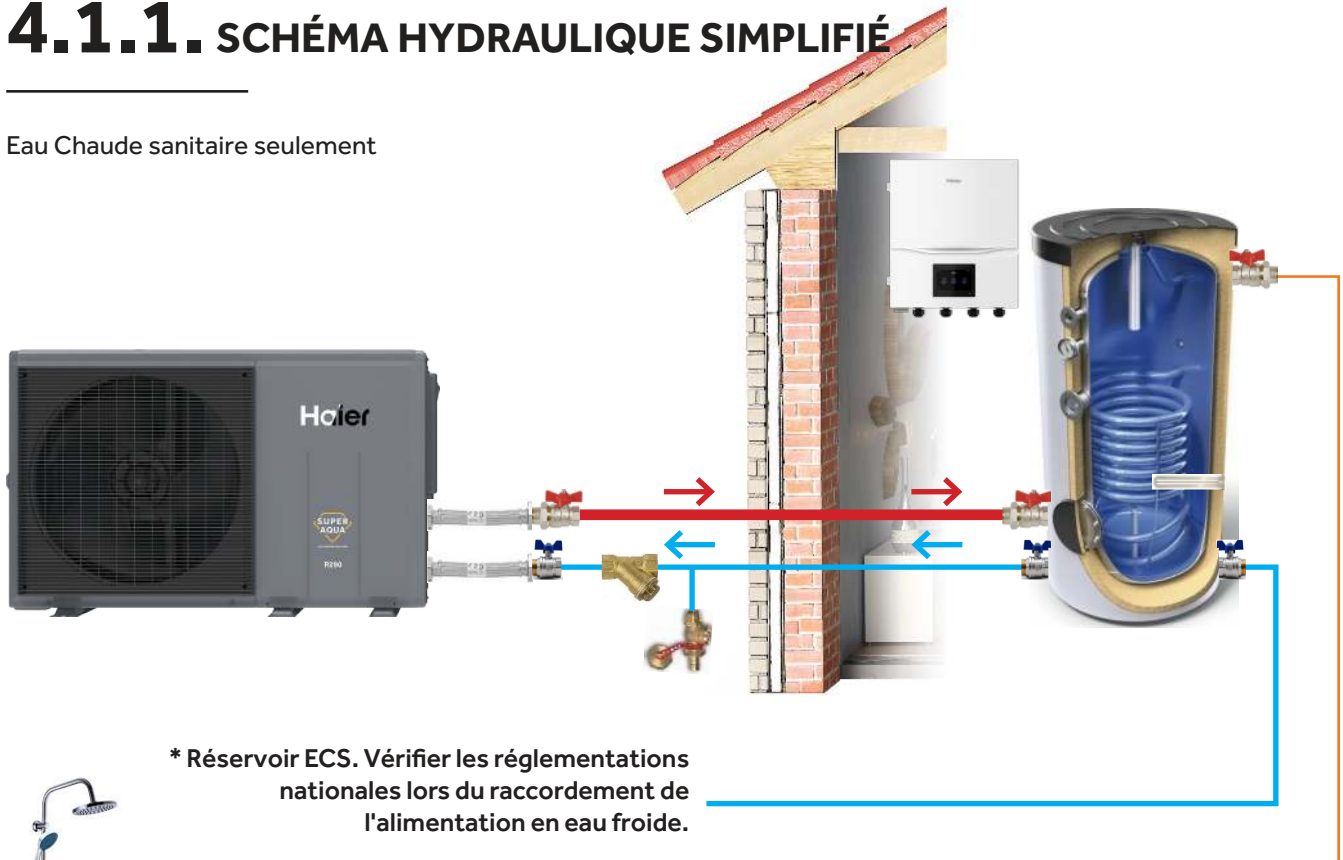
*** LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.**










4.0. EAU CHAUDE SANITAIRE

4.1. INSTALLATION ECS

4.1.1. SCHÉMA HYDRAULIQUE SIMPLIFIÉ

Eau Chaude sanitaire seulement



	Tuyau flexible		Réservoir ECS
	Robinet à tournant sphérique		Chauffage électrique ECS
	Robinet à tournant sphérique		Flux d'eau de distribution
	Filtre à eau		Flux d'eau de retour
	Vanne de vidange		

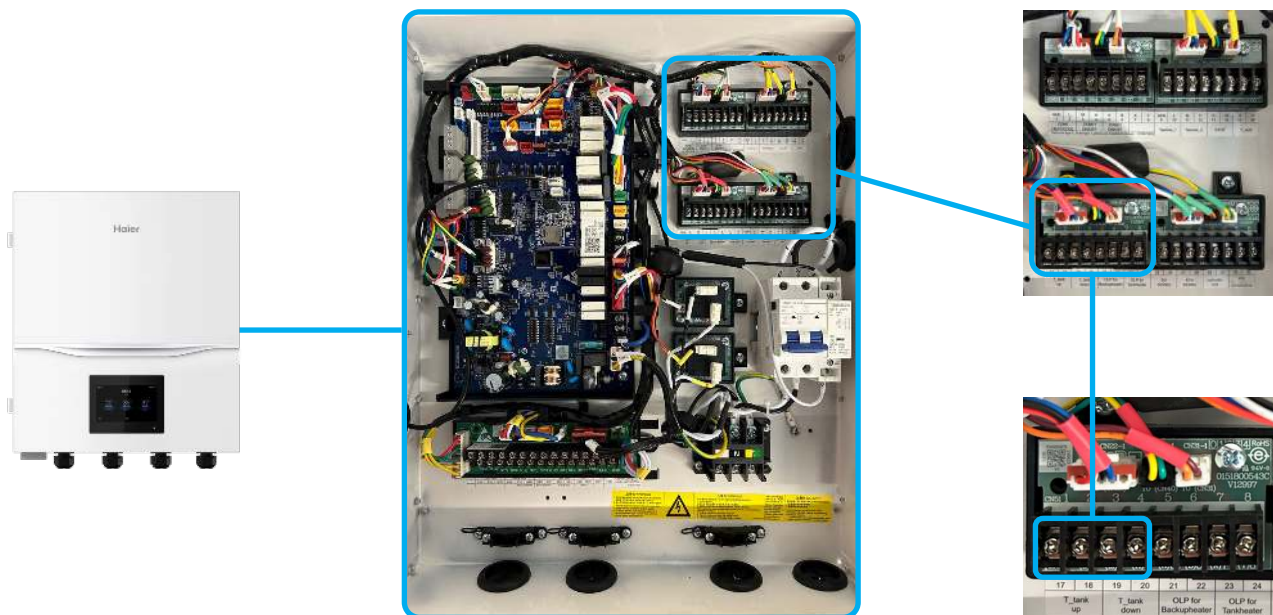
LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES RÉGLEMENTATIONS LOCALES.

POUR LES CONNEXIONS ÉLECTRIQUES, VOIR LE POINT 1.0.

Une erreur E10 apparaît si un capteur de cylindre n'est pas connecté au système.

4.1.2. CONNEXIONS

Connexion des capteurs de température d'eau



Carte de connexion 3

Carte de connexion

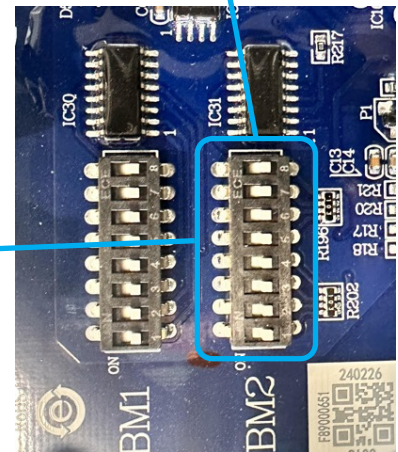
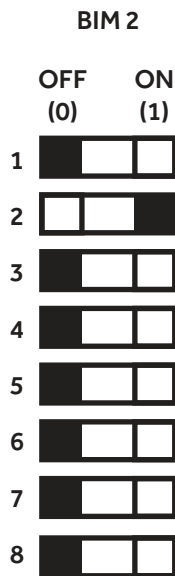
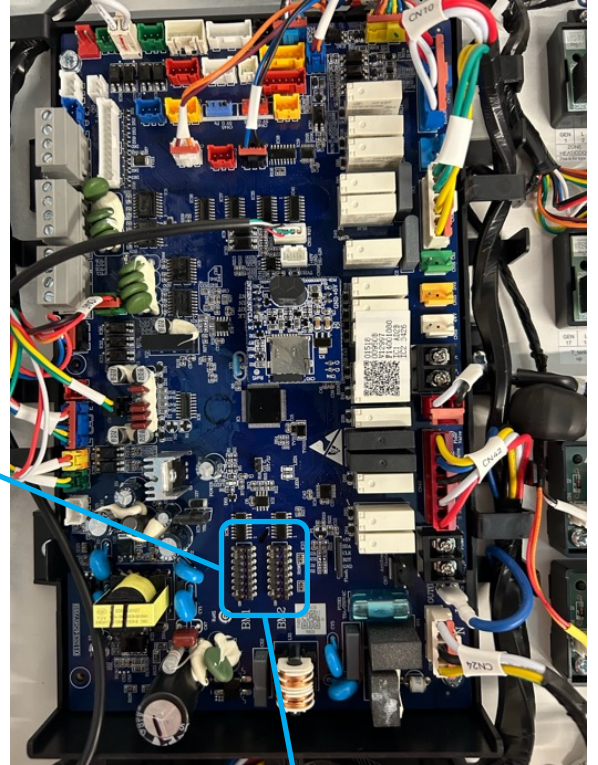
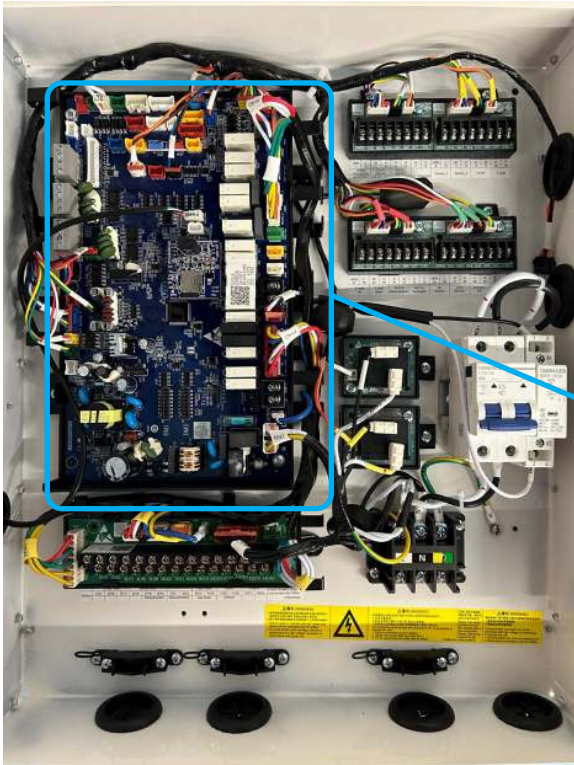
17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_tank up		T_tank down		OLP Auxiliaire Chauffage		OLP pour le chauffe-réservoir	

Sur la carte de connexion numéro 3, entre les bornes 17 (GND) et 18 (L), on doit connecter le capteur T_tank up de température de l'eau pour le réservoir d'ECS, qui doit être installé dans la partie supérieure du ballon.

Sur la carte de connexion numéro 3, entre les bornes 19 (M) et 20 (H), on doit connecter le capteur T_tank down de température de l'eau pour le réservoir d'ECS, qui doit être installé dans le fond du réservoir.

* Si l'ECS n'a qu'un seul doigt de gant pour le contrôle de la température de l'eau, il est nécessaire de modifier l'interrupteur BM2 sur l'unité ATW-A03 N afin d'éviter l'erreur E10 (capteur de température manquant).

Réglage du commutateur - 1 capteur pour l'ECS

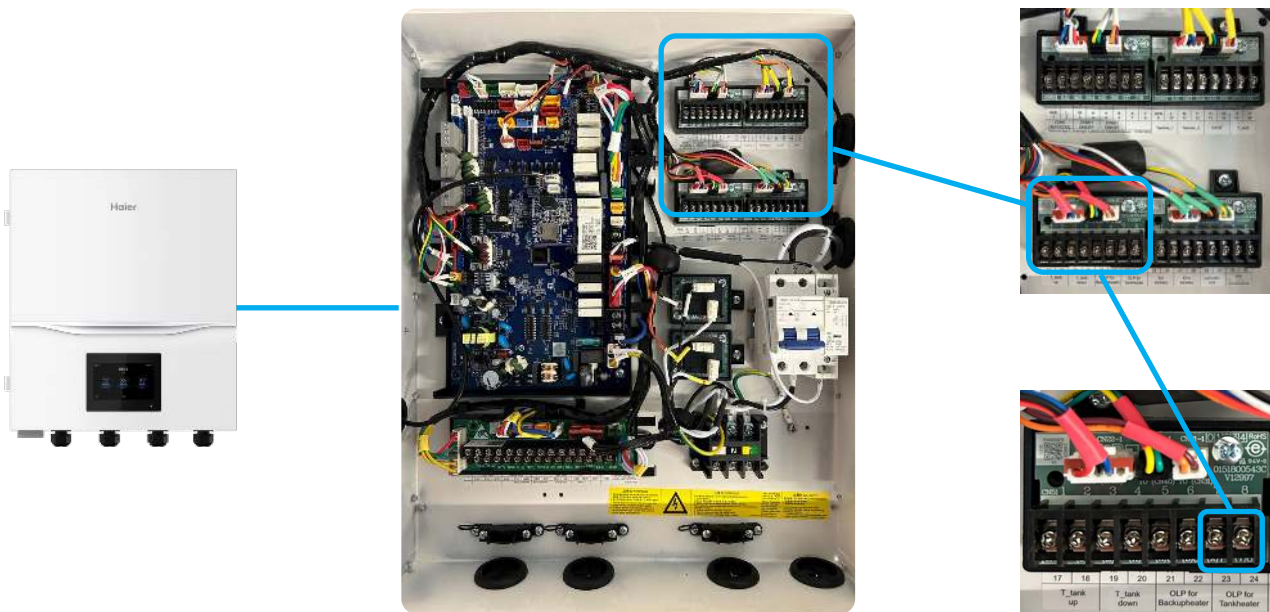


BM2	Réservoir d'eau Sélection du capteur	(2)	Sélection du capteur du réservoir d'eau
		ON (1)	Un seul capteur, T_tank up
		OFF (0)	2 capteurs, T_tank up et T_tank down (par défaut)

Si votre installation utilise un capteur ECS, mettez l'interrupteur 2 de BM2 en position ON.

Remarque : Vous devez éteindre l'unité pendant 60 secondes, puis ajuster les commutateurs DIP, car ils ne sont pas lus si l'unité est allumée.

Port de retour du signal de protection du chauffage électrique pour le chauffe-réservoir (OLP)



Carte de connexion 3

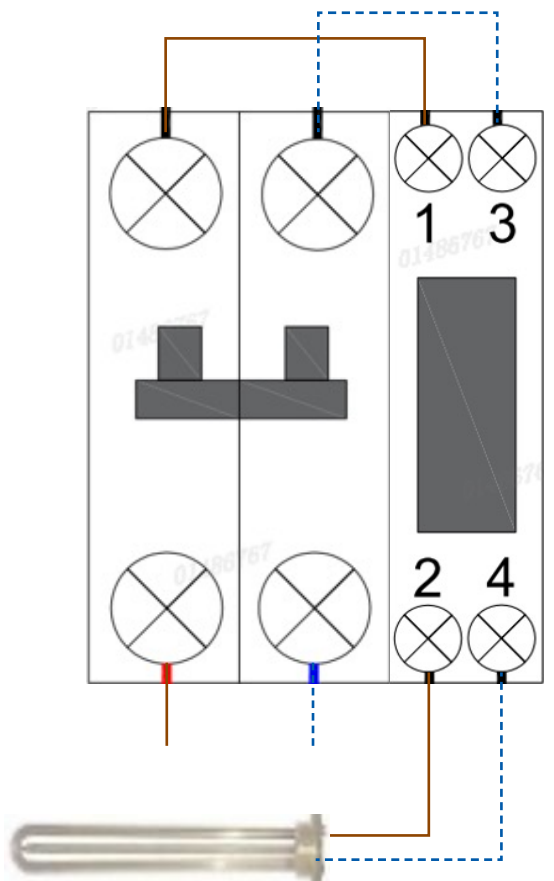
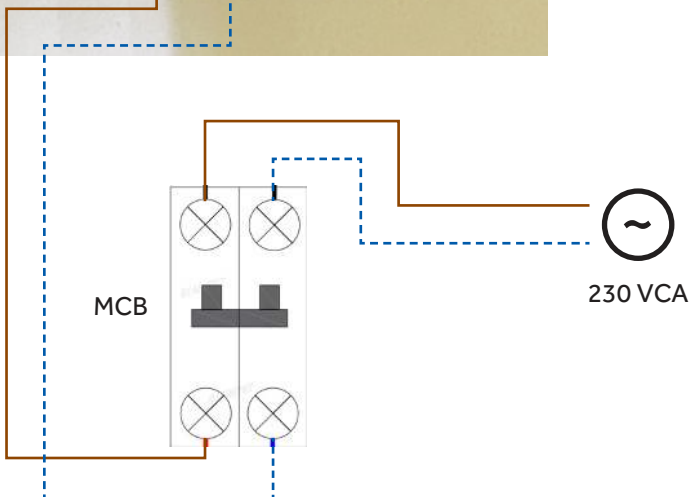
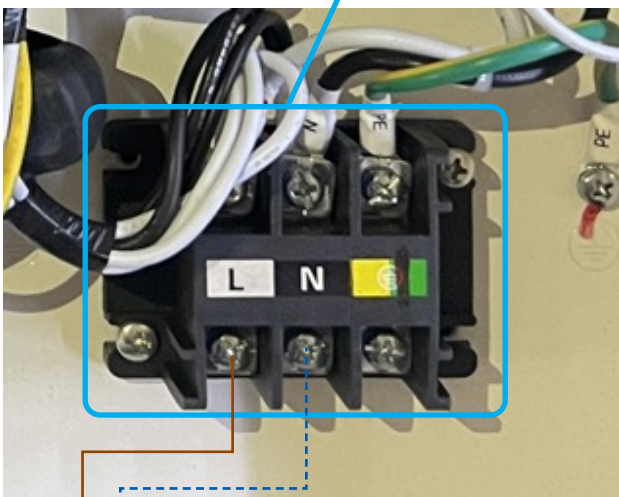
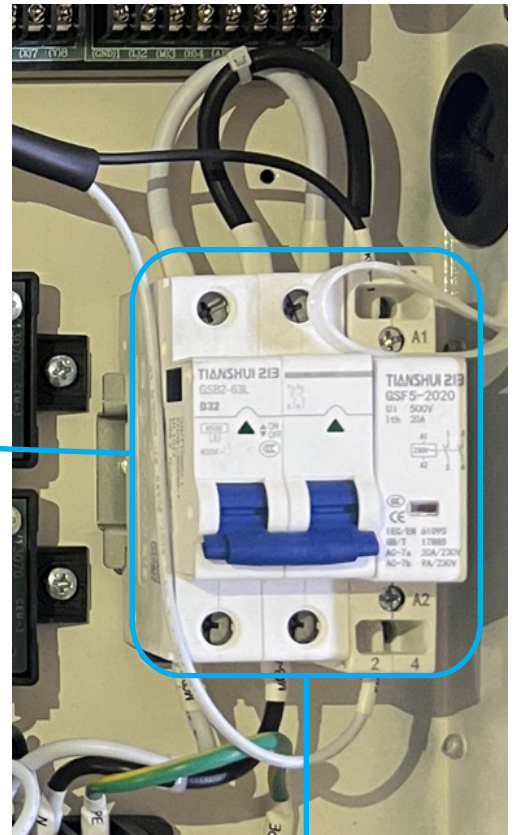
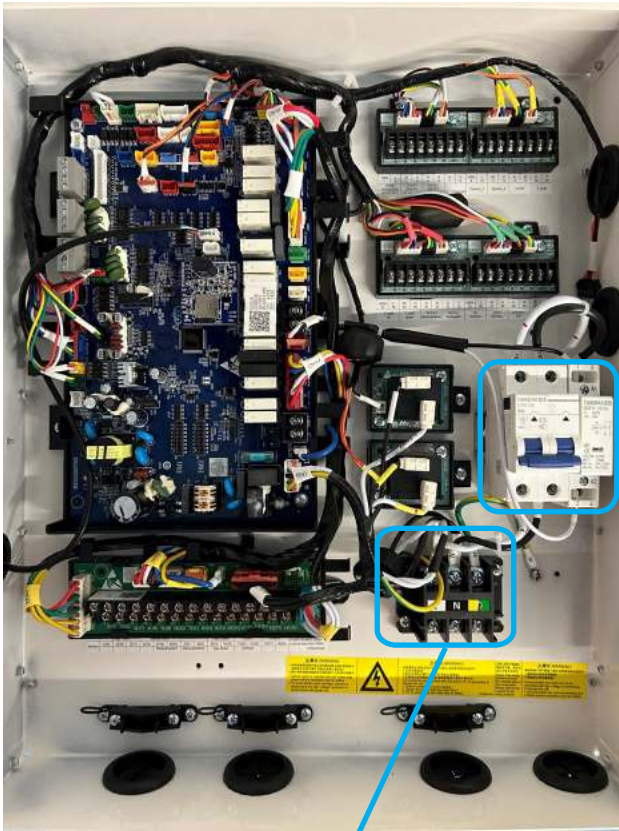
Carte de connexion

17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_tank up		T_tank down		OLP Auxiliaire Chauffage		OLP pour le chauffe-réservoir	

Sur la carte de connexion numéro 3, entre les bornes 23 (X) et 24 (Y), connecter l'OLP pour le chauffage du réservoir.

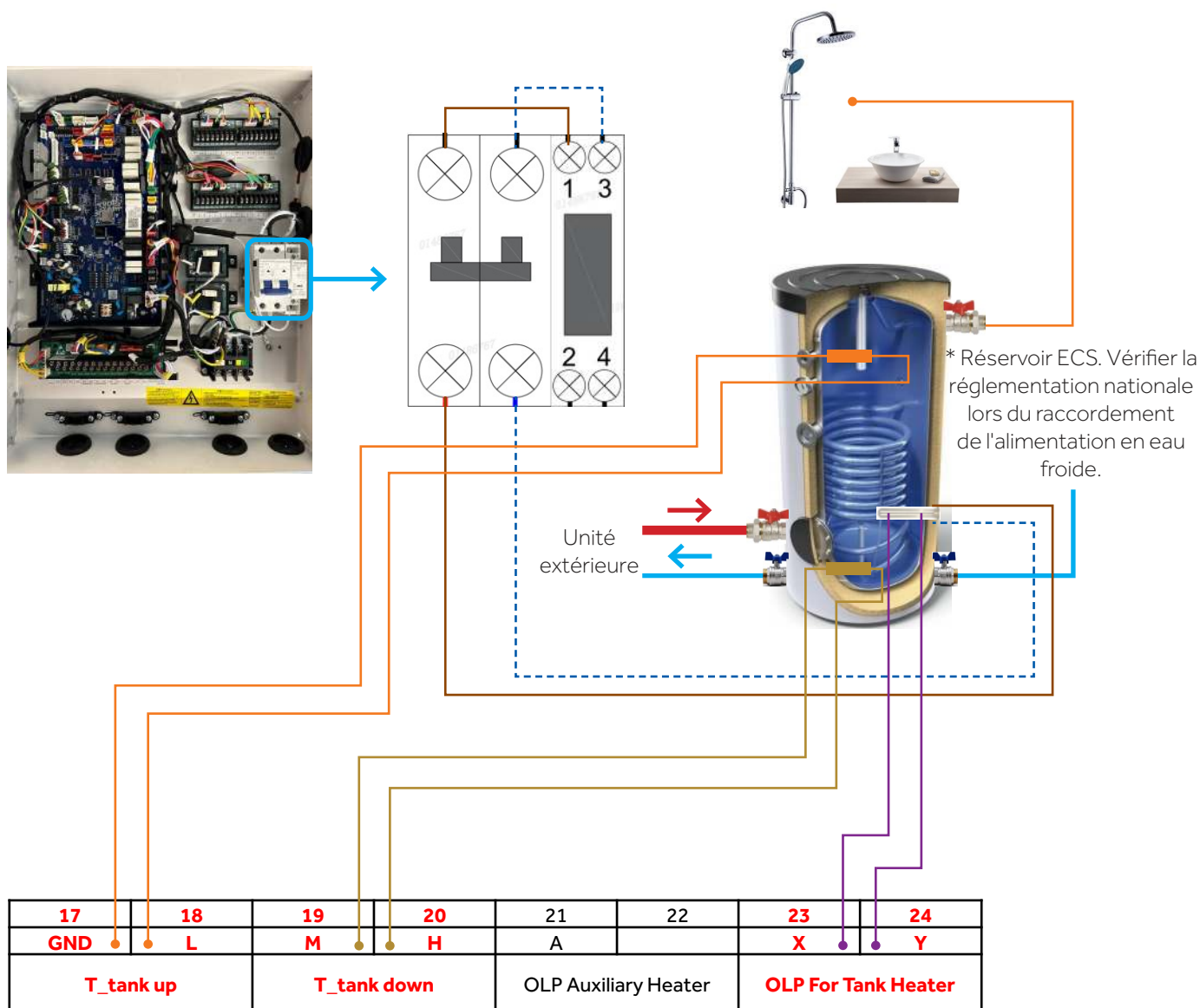
Sur la carte de connexion numéro 3, on doit connecter la protection du chauffage électrique pour le réservoir d'ECS entre les bornes 23 (X) et 24 (Y). Il s'agit d'un contact sans tension normalement fermé, ce qui signifie que lorsque le contact est fermé, il n'y a pas d'erreur, et lorsque le contact est ouvert, il y a une erreur.

Chauffage électrique



4.1.3. SCHÉMA DE CONNEXION SIMPLIFIÉ

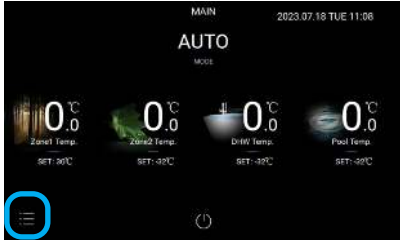
Principaux paramètres d'installation de l'équipement



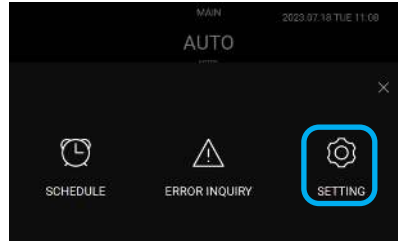
	Réservoir ECS		Capteur de température de l'eau T_tank up
	Robinet à tournant sphérique		Capteur de température de l'eau T_tank down
	Robinet à tournant sphérique		OLP pour le chauffe-réservoir
	Flux d'eau de distribution		Ligne
	Flux d'eau de retour		Neutre
	Chauffage électrique ECS		

4.1.4. PARAMÈTRES DU CONTRÔLEUR

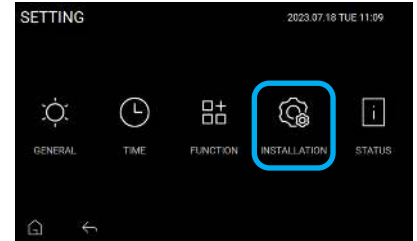
Principaux paramètres d'installation du système



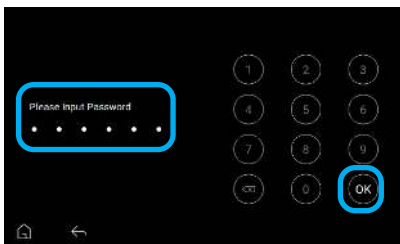
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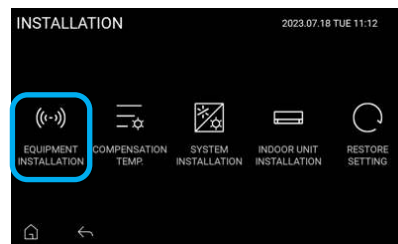
2



3



4 * Mot de passe « 841226 » OK



5



← OFF
← ON
← OFF

* SÉLECTIONNER ON POUR L'ECS

Fonction	Plage de paramètres	Paramètres
ECS	ON/OFF	ON



← 0°C
← 10min
← ON
← 3,0kW

* SÉLECTIONNER ON POUR AUTORISER LE CHAUFFAGE DU RÉSERVOIR
* ENTRER LA PUISSANCE DE LA RESISTANCE BALLON

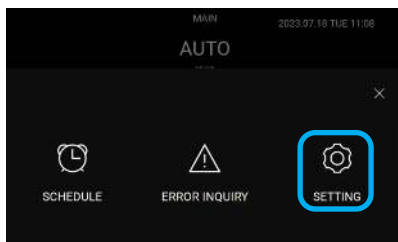
Appuyer sur la maison pour revenir au menu principal

Fonction	Plage de paramètres	Paramètres
Permettre le chauffage du réservoir	ON/OFF	ON
Puissance du chauffe-réservoir	0,0 - 9,0 kW	3,0 kW

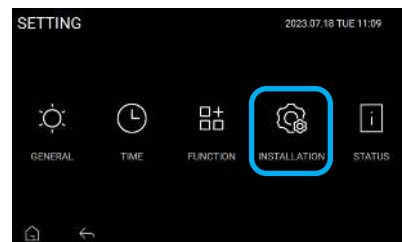
* LES PARAMÈTRES À MODIFIER SONT INDICUÉS EN BLEU.



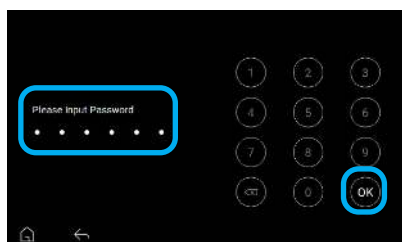
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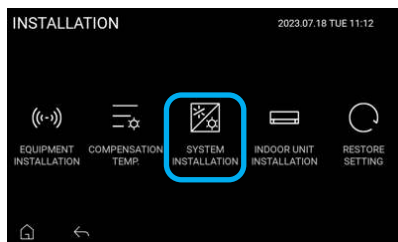
2



3



4 * Mot de passe « 841226 » OK



5



- ← Contrôleur principal
- ← Contrôleur principal
- ← **Contrôleur principal**
- ← Contrôleur principal

*** SÉLECTIONNER LE MODE DE CONTRÔLE DE L'ECS**

Fonction	Plage de paramètres	Paramètres
Mode de contrôle de l'ECS	Contrôleur principal, Contrôleur tiers	Contrôleur principal



- ← **45°C**
- ← 27°C
- ← 6°C
- ← 0°C

*** SÉLECTIONNER LA TEMPÉRATURE DE MARCHE DE L'ECS**

CE RÉGLAGE INDIQUE À L'UNITÉ LA TEMPÉRATURE À LAQUELLE L'EAU DOIT DESCENDRE AVANT QUE LE RÉSERVOIR D'ECS NE COMMENCE À CHAUFFER.

Fonction	Plage de paramètres	Paramètres
Température de marche de l'ECS	30 - 75°C	45°C



***ENTRER LA TEMP. DE RÉCHAUFFAGE DU RÉSERVOIR**

Appuyer sur la maison pour revenir au menu principal

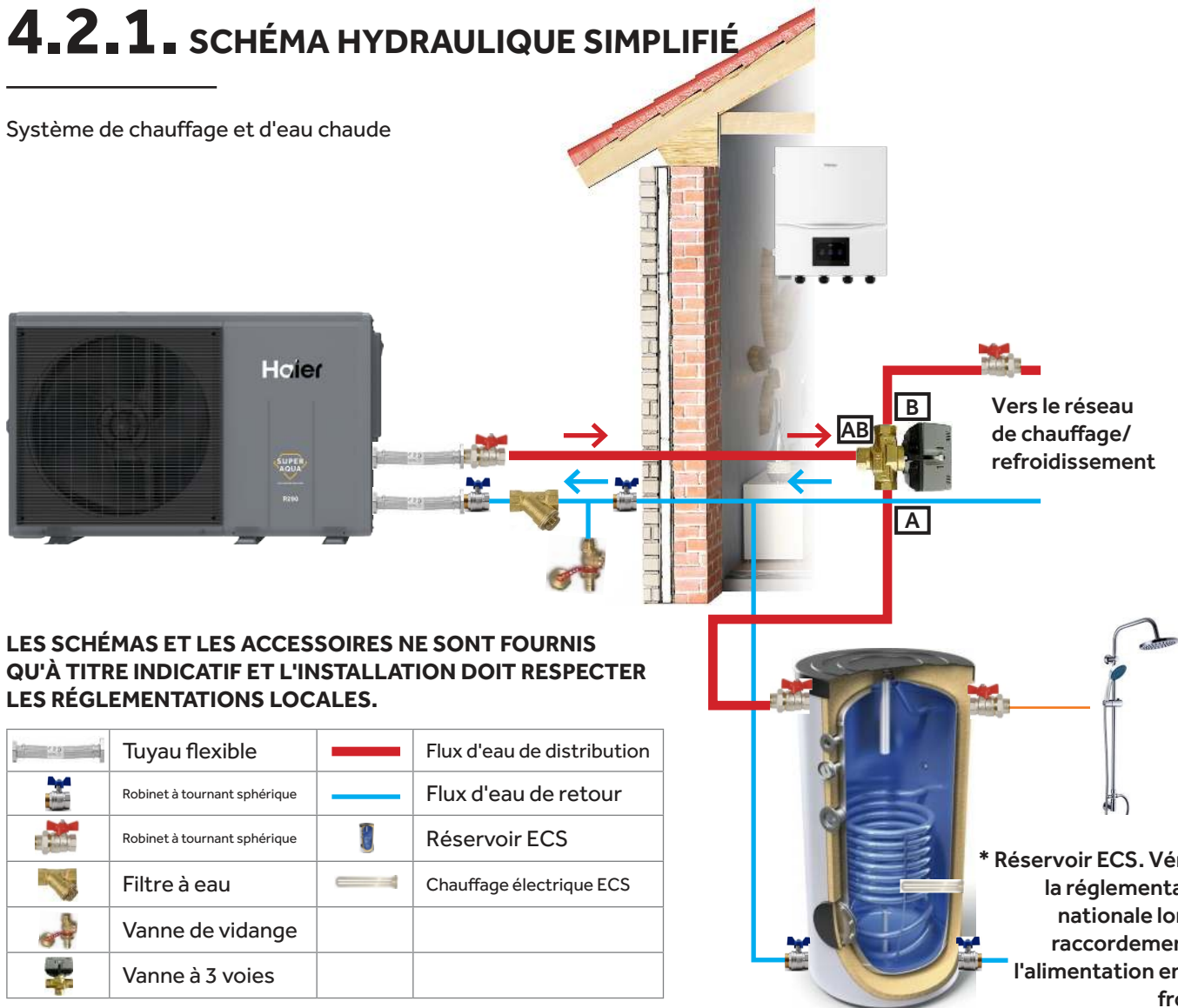
Fonction	Plage de paramètres	Paramètres
Température de réchauffage du réservoir	-12 - 2 °C	-3 °C

*** LES PARAMÈTRES À MODIFIER SONT INDICUÉS EN BLEU.**

4.2. ECS + VANNE À 3 VOIES POUR INSTALLATION DU CHAUFFAGE ET DU REFROIDISSEMENT

4.2.1. SCHÉMA HYDRAULIQUE SIMPLIFIÉ

Système de chauffage et d'eau chaude

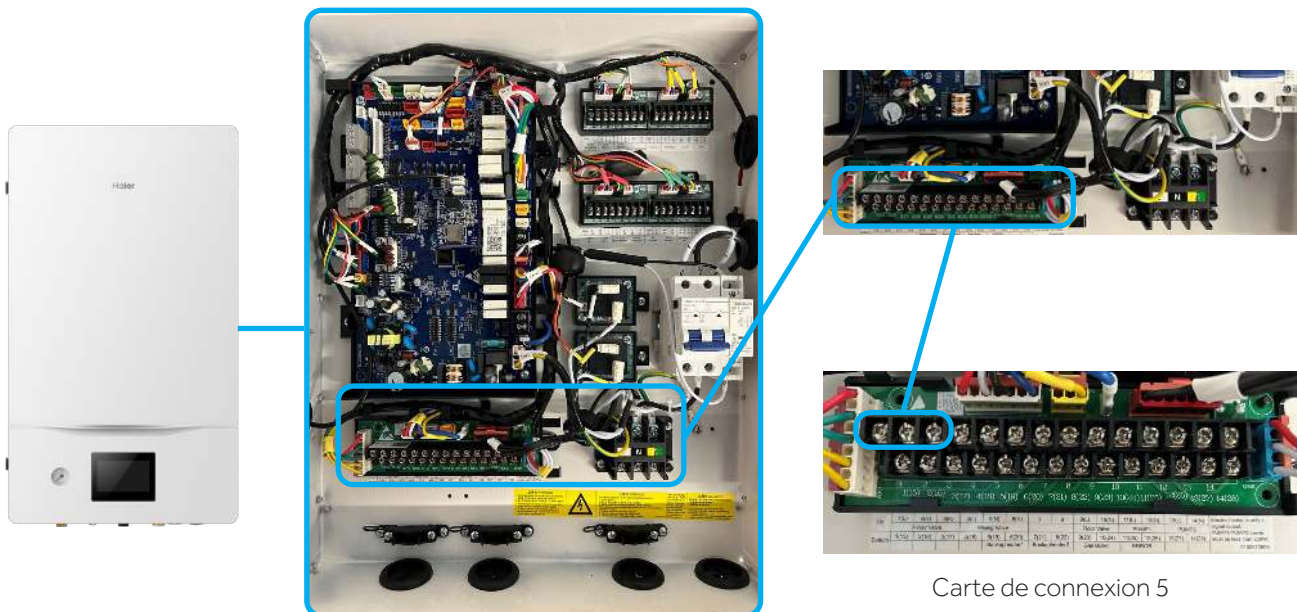


LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES RÉGLEMENTATIONS LOCALES.

	Tuyau flexible		Flux d'eau de distribution
	Robinet à tournant sphérique		Flux d'eau de retour
	Robinet à tournant sphérique		Réservoir ECS
	Filtre à eau		Chauffage électrique ECS
	Vanne de vidange		
	Vanne à 3 voies		

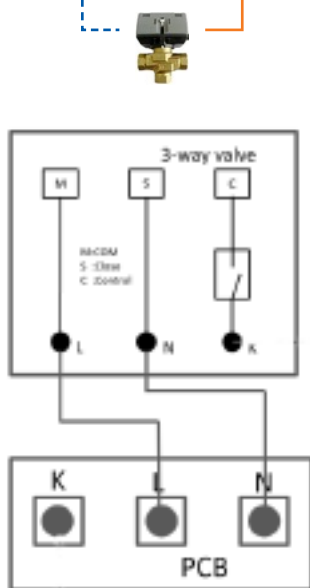
POUR LES CONNEXIONS ÉLECTRIQUES, VOIR LE POINT 1.0.

Vanne à trois voies



Carte de connexion

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				

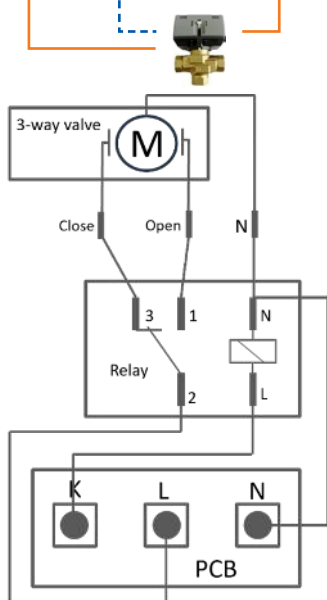


SPST

Si vous utilisez une vanne à 3 voies avec un ressort de rappel.

La vanne a besoin d'un signal de 230 volts de K (sous tension) à N (neutre) pour passer en mode ECS. En l'absence de demande d'ECS, la vanne n'est pas alimentée et revient en position de chauffage grâce au ressort de rappel.

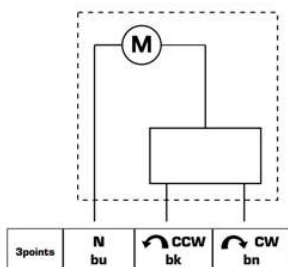
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



SPDT

Si vous utilisez une vanne à 3 voies sans ressort de rappel, vous devrez ajouter un relais fourni sur site. La carte électronique n'a qu'une seule sortie et ne peut donc pas ouvrir et fermer la vanne.

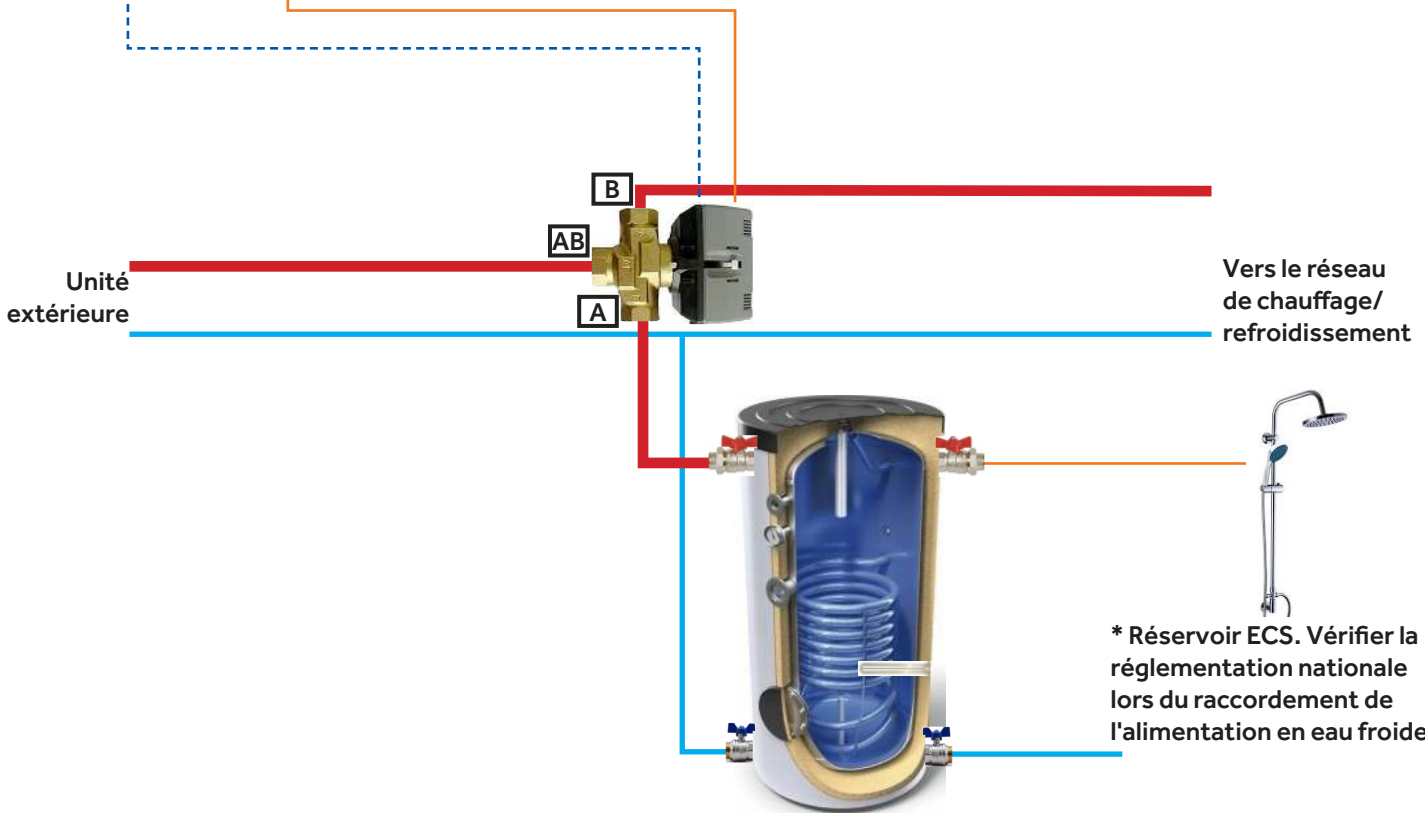
Utilisez le L et le N de la carte électronique pour actionner la bobine du relais et connectez la vanne au relais, comme indiqué sur le schéma.



4.2.2. SCHÉMA DE CONNEXION SIMPLIFIÉ

Carte de connexion

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



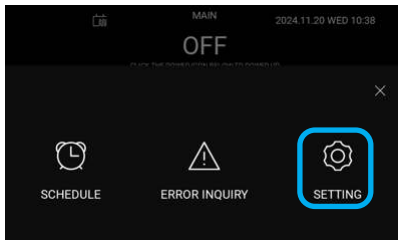
* CONNEXIONS POUR LES ZONES 1 ET 2, VOIR LES CHAPITRES 2.0 ET 3.0

4.2.3. PARAMÈTRES DU CONTRÔLEUR

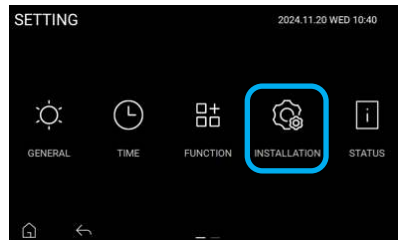
Principaux paramètres d'installation du système



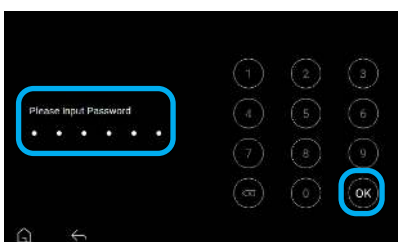
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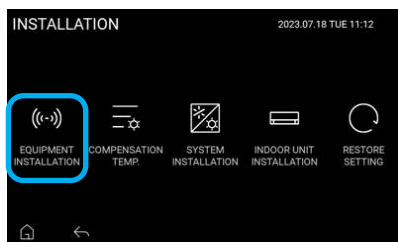
2



3



4 * Mot de passe « 841226 » OK



5



- ← ON
- ← OFF
- ← OFF
- ← ON

* SÉLECTIONNER ON POUR ACTIVER LA ZONE 1

* SÉLECTIONNER ON POUR PRENDRE EN COMPTE LE RÉSERVOIR TAMPON

Fonction	Plage de paramètres	Paramètres
Zone 1	ON/OFF	ON
ECS	ON/OFF	ON



- ← OFF
- ← OFF
- ← ON/OFF
- ← OFF

* SÉLECTIONNER ON POUR AUTORISER LE CHAUFFAGE DU RÉSERVOIR

Fonction	Plage de paramètres	Paramètres
Autoriser le mode de refroidissement	ON/OFF	ON

* LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.



- ← 0°C
- ← 10 min
- ← ON
- ← 3,0 kW

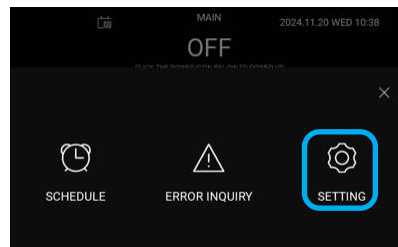
*** ENTRER LA PUISSANCE DU CHAUFFE-RÉSERVOIR**

Appuyer sur la maison pour revenir au menu principal

Fonction	Plage de paramètres	Paramètres
Permettre le chauffage du réservoir	ON/OFF	ON
Puissance du chauffe-réservoir	0,0 - 9,0 kW	3,0 kW



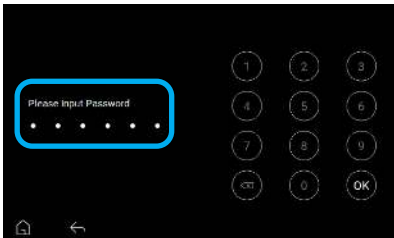
1



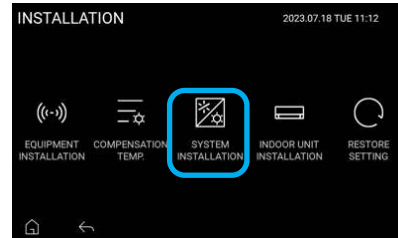
2



3



4 * Mot de passe « 841226 »



5



- ← Contrôleur principal
- ← Contrôleur principal
- ← Contrôleur principal
- ← Contrôleur principal

*** SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 1**

*** SÉLECTIONNER LE MODE DE CONTRÔLE DE L'ECS**

Fonction	Plage de paramètres	Paramètres
Mode de contrôle de la zone 1	Contrôleur principal, Contrôleur tiers, Capteur température ambiante IDU	Contrôleur principal
Mode de contrôle de l'ECS	Contrôleur principal, Contrôleur tiers, Capteur température ambiante IDU	Contrôleur principal



← 45 °C
 ← 27 °C
 ← 6 °C
 ← 0 °C

*** SÉLECTIONNER LA TEMPÉRATURE DE MARCHE DE L'ECS**

*** SÉLECTIONNER LE ΔT POUR LE CHAUFFAGE ACTIVÉ**

CE RÉGLAGE INDIQUE À L'UNITÉ LA TEMPÉRATURE À LAQUELLE L'EAU DOIT DESCENDRE AVANT QUE LE RÉSERVOIR D'ECS NE COMMENCE À CHAUFFER.

Fonction	Plage de paramètres	Paramètres
Température de marche de l'ECS	30 - 75 °C	45 °C
ΔT pour le chauffage activé	0 - 15 °C	6 °C



← 60 min
 ← -3 °C
 ← -1 °C
 ← -3 °C

*** RÉGLER LA TEMP. DE DE LA RESISTANCE BALLON**

Fonction	Plage de paramètres	Paramètres
Température de réchauffage du réservoir	-12 - 2 °C	-3 °C



← 5 °C
 ← 45 °C
 ← 24 °C
 ← 60 s

Appuyer sur la maison pour revenir au menu principal

Fonction	Plage de paramètres	Paramètres
ΔT pour refroidissement activé	0 - 15 °C	5 °C

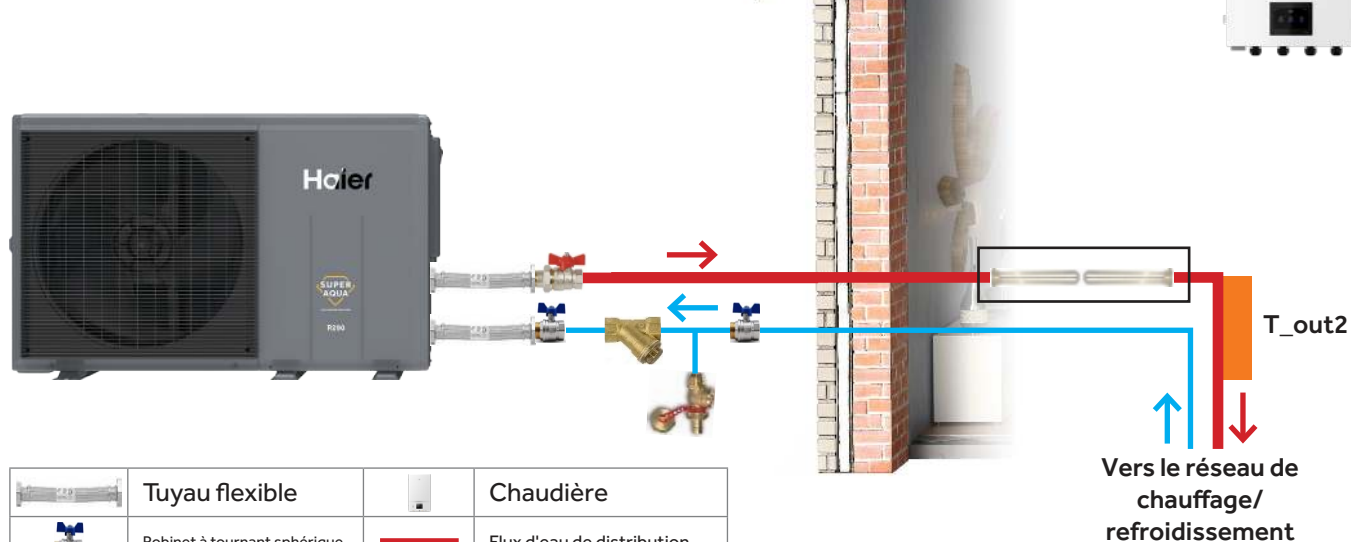
*** LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.**

5.0. RACCORDEMENT DE LA SOURCE DE CHALEUR AUXILIAIRE

5.1. CHAUFFAGE ÉLECTRIQUE

5.1.1. SCHÉMA HYDRAULIQUE SIMPLIFIÉ

5.1.1.1. Sans réservoir tampon

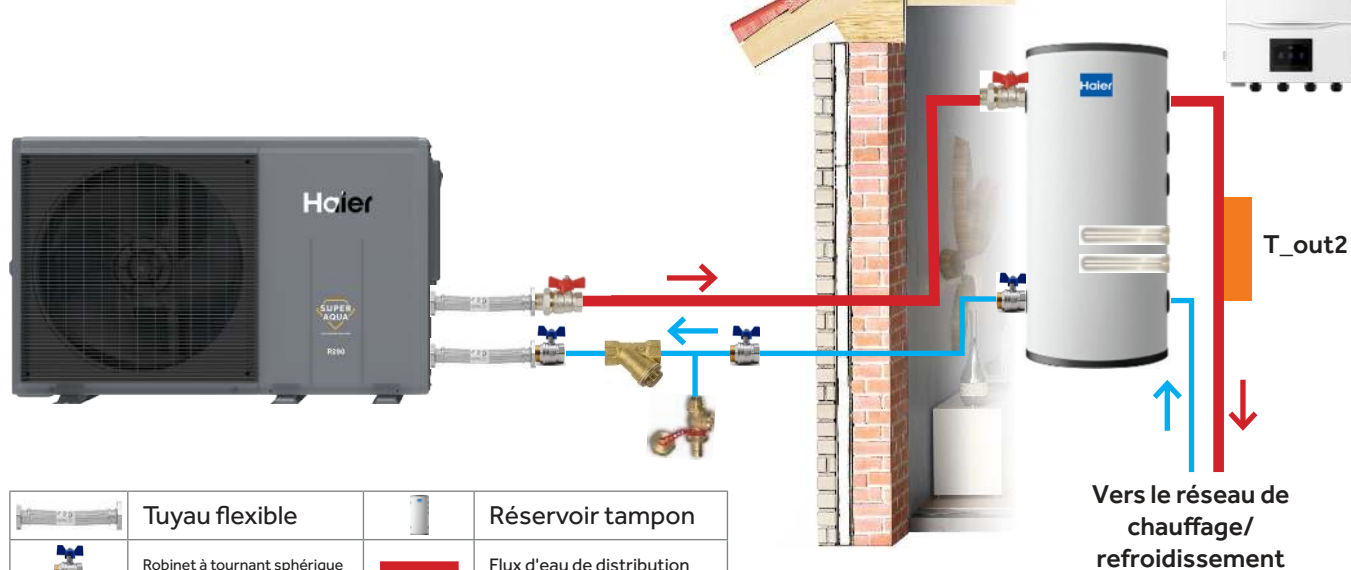


	Tuyau flexible		Chaudière
	Robinet à tournant sphérique		Flux d'eau de distribution
	Robinet à tournant sphérique		Flux d'eau de retour
	Filtre à eau		Chauffage électrique
	Vanne de vidange		

LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES RÉGLEMENTATIONS LOCALES.

POUR LES CONNEXIONS ÉLECTRIQUES, VOIR LE POINT 1.0.

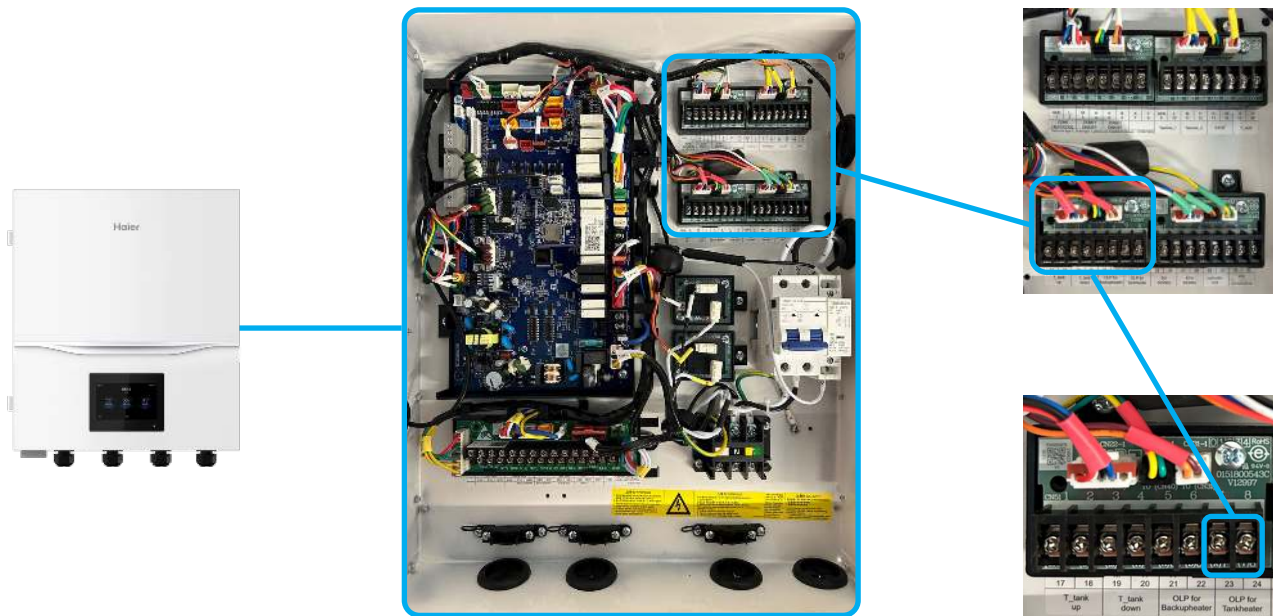
5.1.1.2. Avec réservoir tampon



	Tuyau flexible		Réservoir tampon
	Robinet à tournant sphérique		Flux d'eau de distribution
	Robinet à tournant sphérique		Flux d'eau de retour
	Filtre à eau		Chauffage électrique
	Vanne de vidange		

5.1.2. CONNEXIONS

Capteur de température pour la source de chaleur auxiliaire



Carte de connexion 2

Carte de connexion

9	10	11	12	13	14	15	16
GND	L	M	H	A		X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

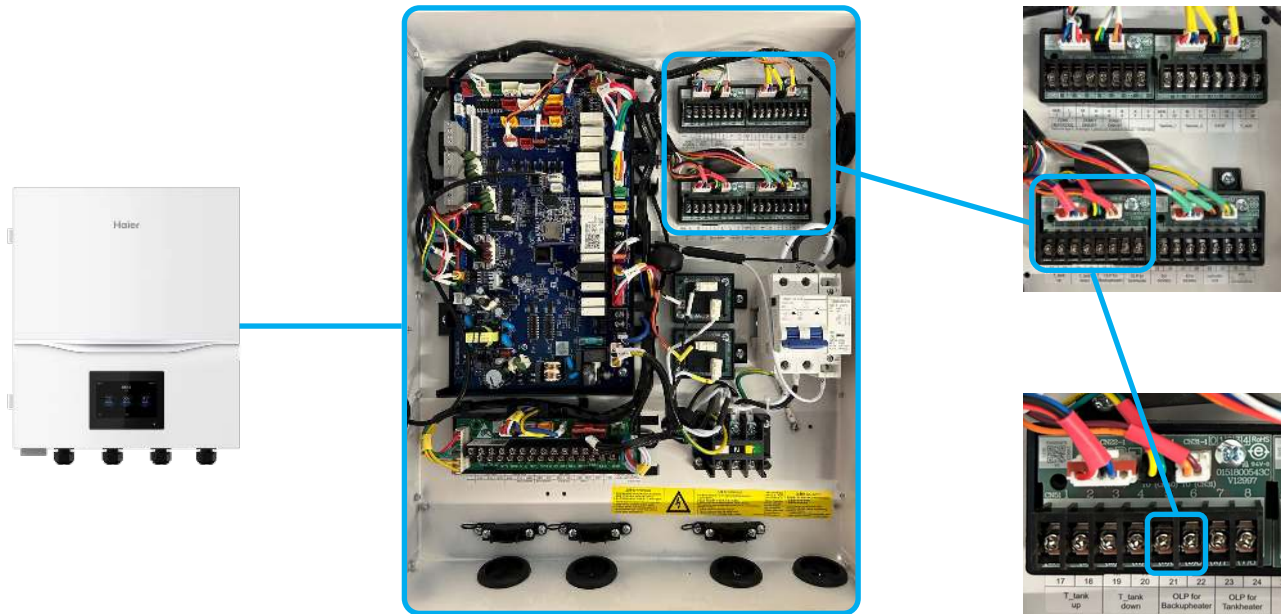
Sur la carte de connexion numéro 2, on peut connecter le capteur de température de l'eau pour T_out2 entre les bornes 15 (X) et 16 (Y).

*Si nous activons le chauffage de secours, il est obligatoire de connecter le capteur T_out2 après la source de chaleur auxiliaire.

Une erreur E02 se produit si T_out 2 n'est pas connecté.

5.1.2. CONNEXIONS

Protection du chauffage électrique pour la source de chaleur auxiliaire



Carte de connexion 3

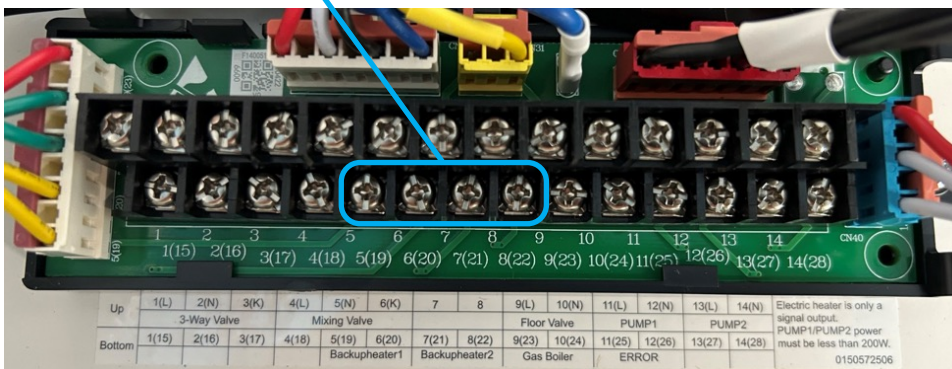
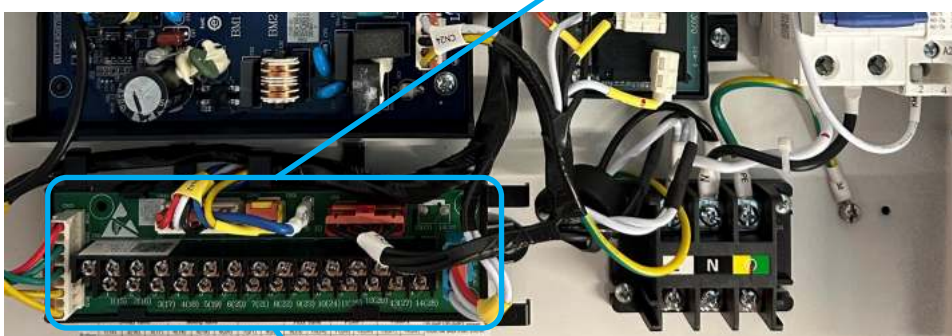
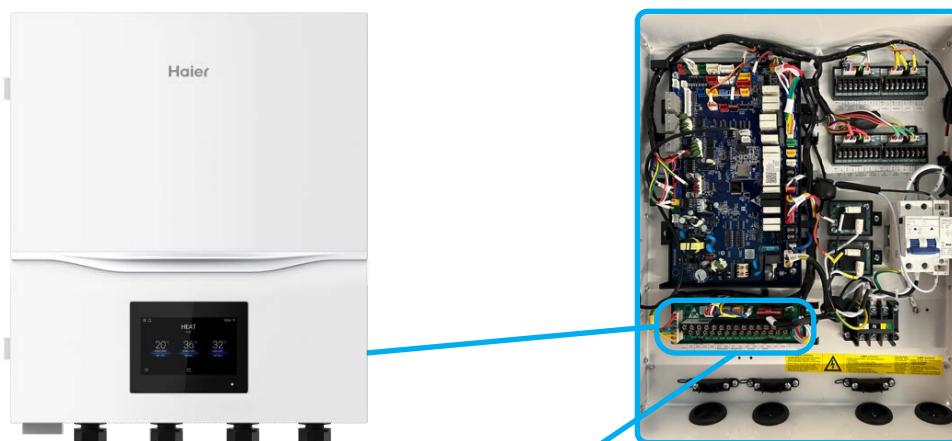
Carte de connexion

17	18	19	20	21	22	23	24
GND	L	M	H	A	B	X	Y
T_tank up		T_tank down		OLP Auxiliaire Chauffage		OLP pour le chauffe-réservoir	

Sur la carte de connexion numéro 3, connecter la protection du chauffage électrique de la source de chaleur auxiliaire entre les bornes 21 (A) et 22 (B). Il s'agit d'un signal d'entrée numérique, avec contact normalement fermé et sans tension ; ce qui signifie que lorsque le contact est fermé, il n'y a pas de défaut, et lorsque le contact est ouvert, il y a un défaut.

Si le chauffage de secours dispose de son propre OLP à l'intérieur, vous pouvez utiliser un cavalier à cet endroit.

Signal de commande pour la source de chaleur auxiliaire



Carte de connexion 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact		Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			



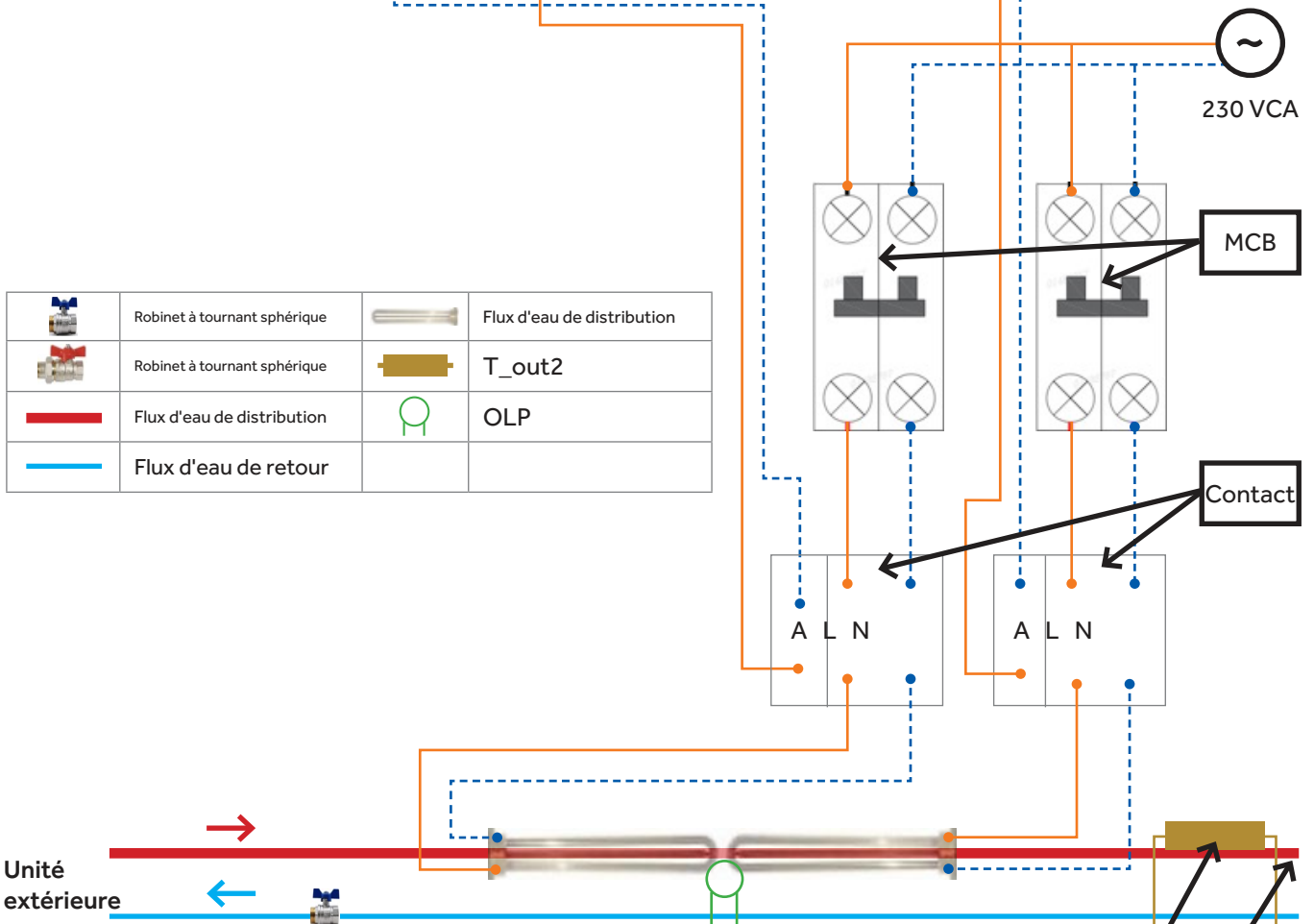
Sur la carte de connexion numéro 5, on peut connecter le signal pour le relais du chauffage 1 entre les bornes 5(19) et 6(20), et le signal pour le relais du chauffage 2 entre les bornes 5(19) et 6(20). Ces deux connexions ont une tension de sortie de 230 VCA pour activer un relais.

*Cette connexion doit se faire à l'aide d'un relais.

5.1.3. SCHÉMA DE CONNEXION SIMPLIFIÉ

5.1.3.1. Sans réservoir tampon

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			



	Robinet à tournant sphérique		Flux d'eau de distribution
	Robinet à tournant sphérique		T_out2
	Flux d'eau de distribution		OLP
	Flux d'eau de retour		

Carte de connexion 3

17	18	19	20	21	22	23	24
GND	L	M	H	A	X	Y	
T_tank up		T_tank down		OLP Auxiliary Heater		OLP For Tank Heater	

Le capteur T_out2 doit être installé 1 mètre après le chauffage auxiliaire

Vers le chauffage/ refroidissement

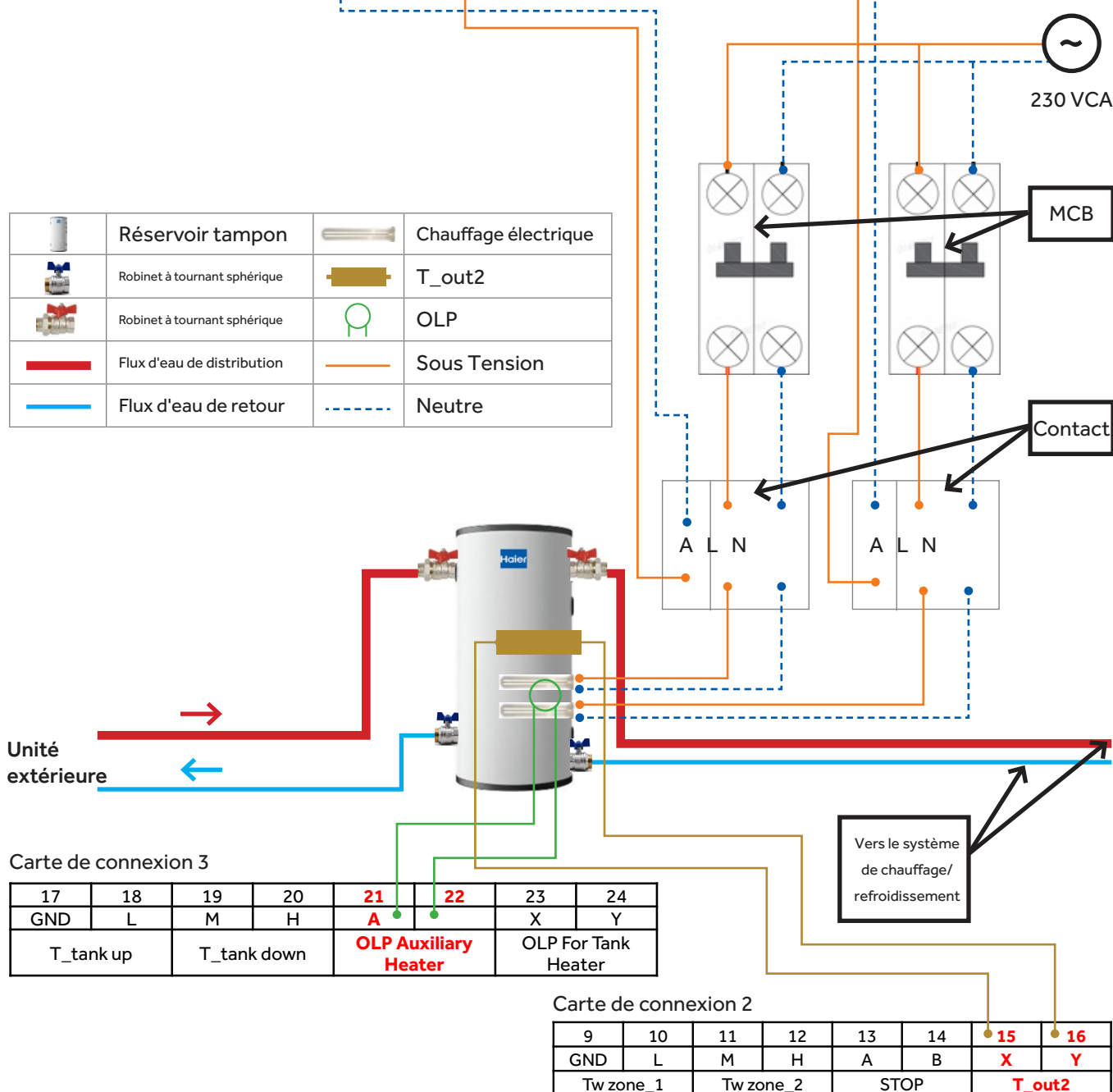
Carte de connexion 2

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

5.1.3. AVEC RÉSERVOIR TAMPON

5.1.3.2. Avec réservoir tampon

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

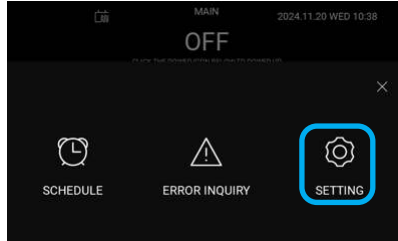


5.1.4. PARAMÈTRES DU CONTRÔLEUR

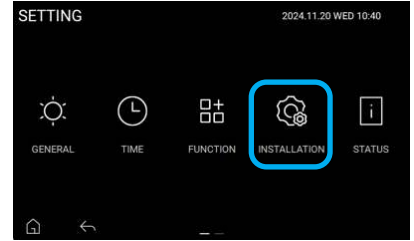
Principaux paramètres d'installation de l'équipement



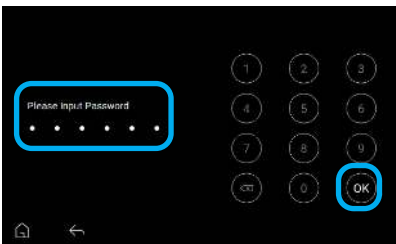
1



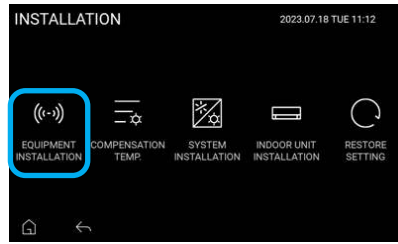
2



3



4 * Mot de passe « 841226 » OK



5



← ON

← OFF

← OFF

← OFF

* SÉLECTIONNER ON POUR ACTIVER LA ZONE 1

Appuyer sur la maison pour revenir au menu principal

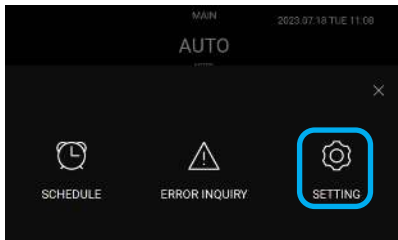
Fonction	Plage de paramètres	Paramètres
Zone 1	ON/OFF	ON

* LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.

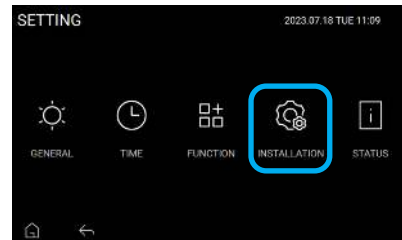
Principaux paramètres d'installation du système



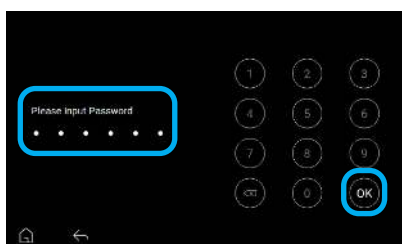
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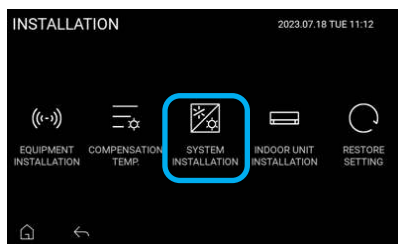
2



3



4 * Mot de passe « 841226 » OK



5



- ← **Contrôleur principal**
- ← Contrôleur principal
- ← Contrôleur principal
- ← Contrôleur principal

*** SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 1**

Fonction	Plage de paramètres	Paramètres
Mode de contrôle de la zone 1	Contrôleur principal Contrôleur tiers	Contrôleur principal



- ← **Chauffage électrique et chaudière**
- ← 15 °C
- ← 10 °C

*** SÉLECTIONNER LA SOURCE DE CHALEUR AUXILIAIRE**

Fonction	Plage de paramètres	Paramètres
Source de chaleur auxiliaire	Chauffage électrique et chaudière, chauffage électrique, chaudière	Chauffage électrique et chaudière

*** LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.**

Principaux paramètres d'installation du système



← 45 °C
 ← 27 °C
 ← 6 °C
 ← 0 °C

***RÉGLER LA TEMP. AMBIANTE POUR LE CHAUFFAGE ÉTEINT**
***ENTRER LE DELTA T POUR LE MODE CHAUFFAGE**

Fonction	Plage de paramètres	Paramètres
Température ambiante du chauffage éteint	5 - 35 °C	27 °C
ΔT pour le chauffage activé	0 - 15 °C	6 °C



← 60 min
 ← -3 °C
 ← -1 °C
 ← -3 °C

***RÉGLER LE DÉLAI DE CHAUFFAGE APRÈS LE DÉMARRAGE DU COMPRESSEUR**

Appuyer sur la maison pour revenir au menu principal

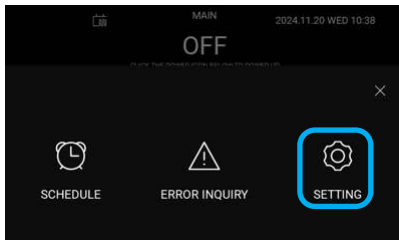
Fonction	Plage de paramètres	Paramètres
Délai d'activation du chauffage	0 - 120 min	60 min
ΔT chauffage activé par rapport à la température cible	-10 - -2 °C	-3 °C
ΔT chauffage éteint par rapport à la température cible	-8 - 0 °C	-1 °C

*** LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.**

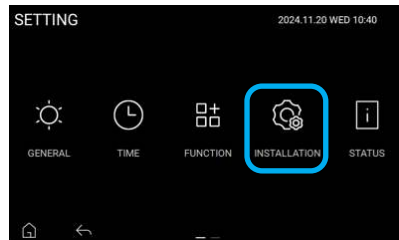
Principaux paramètres d'installation de l'unité intérieure



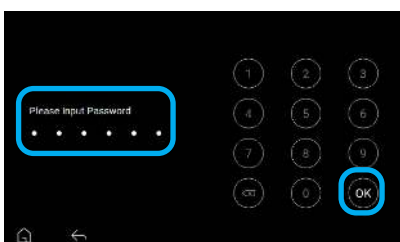
1



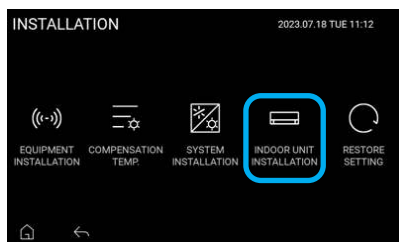
2



3



4 * Mot de passe « 841226 » OK



5



- ← Chauffage 1 & 2 * SÉLECTION DU CHAUFFAGE PAR L'ÉLÉMENT CHAUFFANT 1, 2 OU 1 ET 2
- ← Normal
- ← OFF
- ← Auto

Appuyer sur la maison pour revenir au menu principal










Fonction	Plage de paramètres	Paramètres
Sélection du type de chauffage électrique IDU	Aucun, Chauffage 1, Chauffage 2, Chauffage 1 et 2	Chauffage 1 & 2

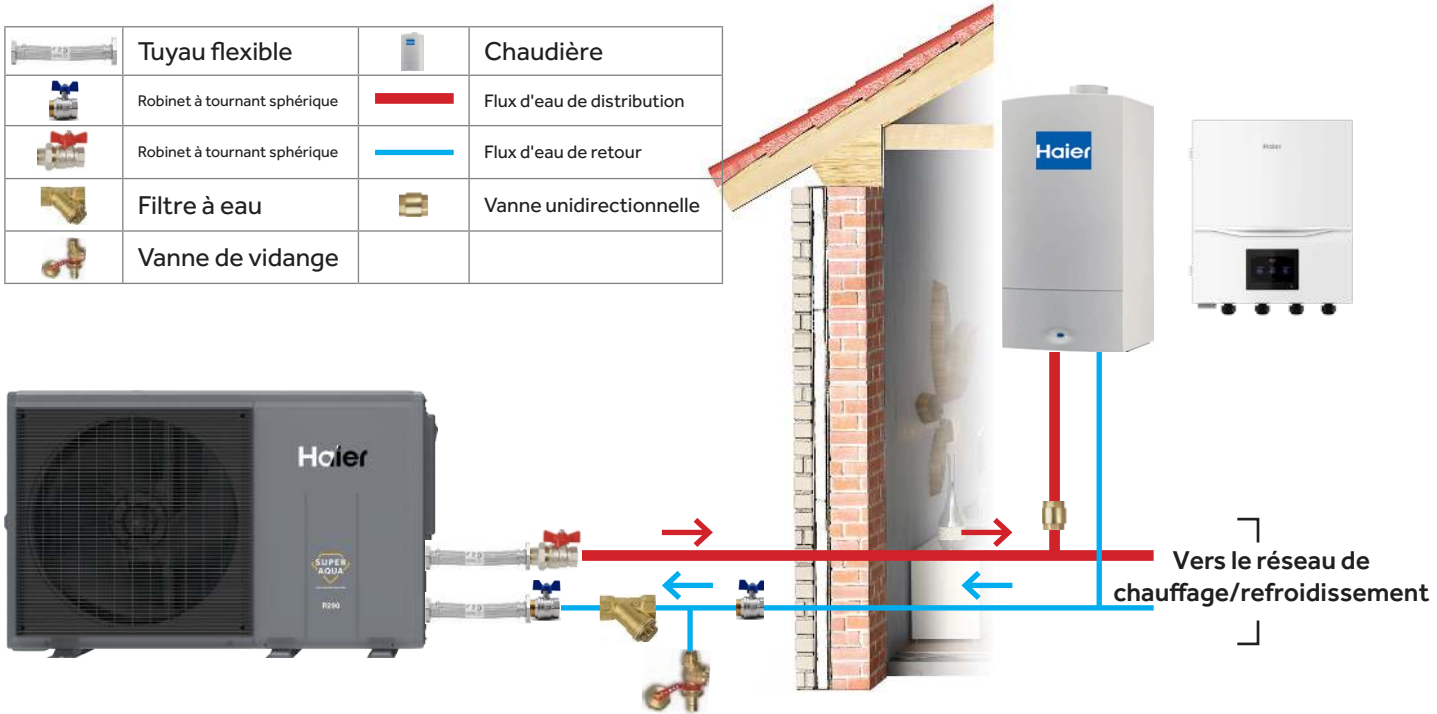
* LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.

5.2. CHAUDIÈRE

5.2.1. SCHÉMA HYDRAULIQUE SIMPLIFIÉ

5.2.1.1. Sans réservoir tampon










	Tuyau flexible		Chaudière
	Robinet à tournant sphérique		Flux d'eau de distribution
	Robinet à tournant sphérique		Flux d'eau de retour
	Filtre à eau		Vanne unidirectionnelle
	Vanne de vidange		

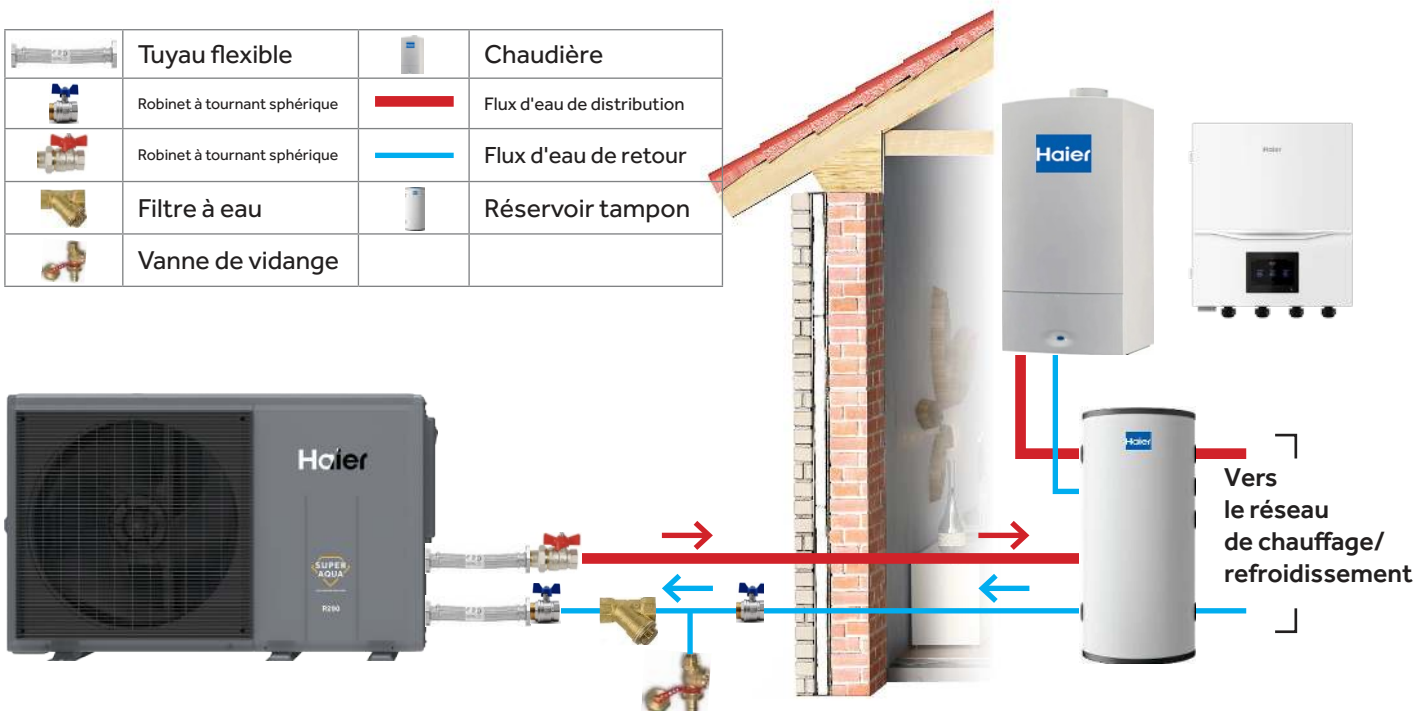


POUR LES CONNEXIONS ÉLECTRIQUES, VOIR LE POINT 1.0.

LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES RÉGLEMENTATIONS LOCALES.

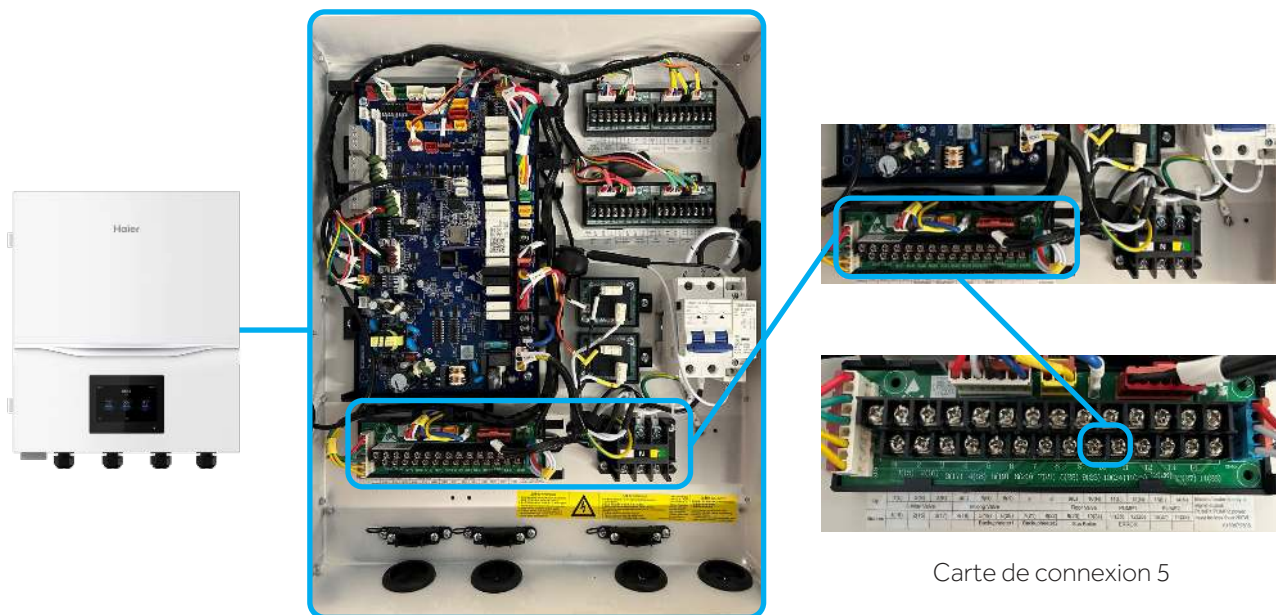
5.2.1.2. Avec réservoir tampon

	Tuyau flexible		Chaudière
	Robinet à tournant sphérique		Flux d'eau de distribution
	Robinet à tournant sphérique		Flux d'eau de retour
	Filtre à eau		Réservoir tampon
	Vanne de vidange		



5.2.2. CONNEXIONS

Sortie du signal de commande de la chaudière à gaz pour la source de chaleur auxiliaire



Carte de connexion 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Volt-free contact		Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

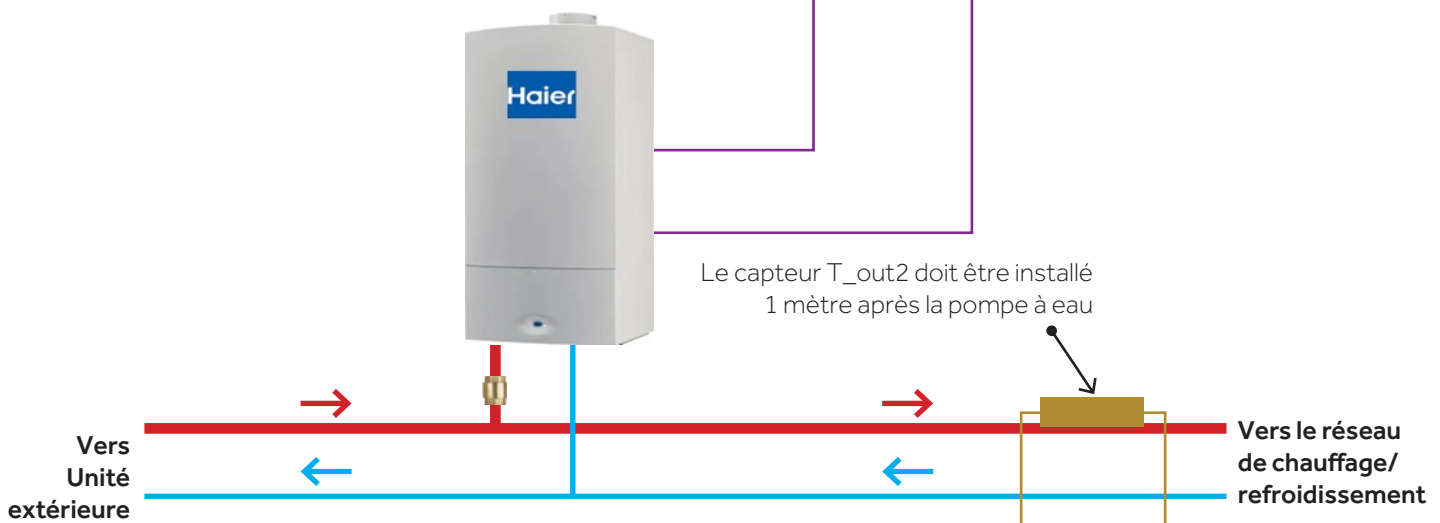


Sur la carte de connexion numéro 5, le signal d'activation de la chaudière doit être connecté entre les bornes 9 (23) et 10 (24). Il s'agit d'un signal de sortie numérique, ce qui signifie que lorsque le contact est fermé, la chaudière est allumée, et lorsque le contact est ouvert, la chaudière est éteinte.

5.2.3. SCHÉMA DE CONNEXION SIMPLIFIÉ

5.2.3.1. Sans réservoir tampon

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							

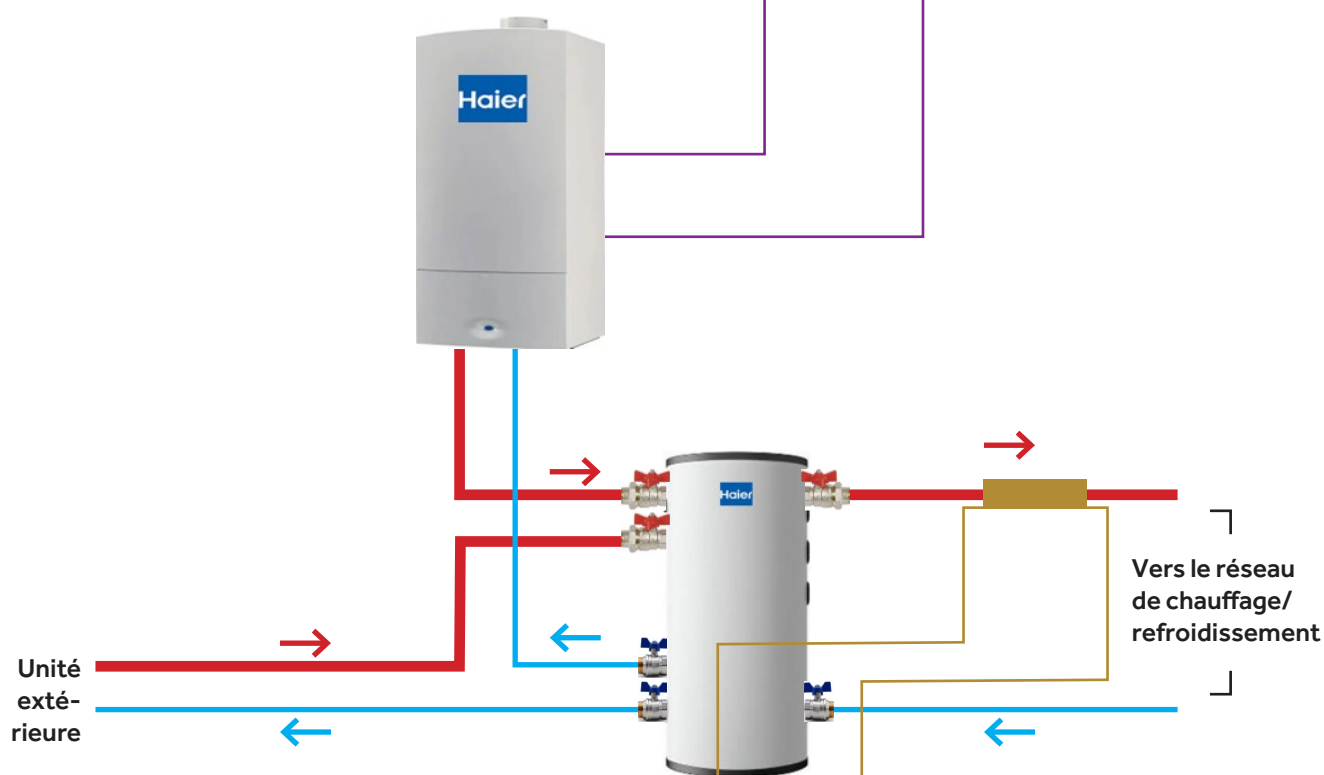


9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

	Chaudière		Vanne unidirectionnelle
	Robinet à tournant sphérique		T_out2
	Robinet à tournant sphérique		
	Flux d'eau de distribution		
	Flux d'eau de retour		

5.2.3.2. Avec réservoir tampon

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

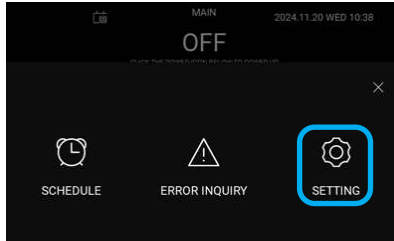
	Chaudière		Réservoir tampon
	Robinet à tournant sphérique		T_out2
	Robinet à tournant sphérique		
	Flux d'eau de distribution		
	Flux d'eau de retour		

5.2.4. PARAMÈTRES DU CONTRÔLEUR

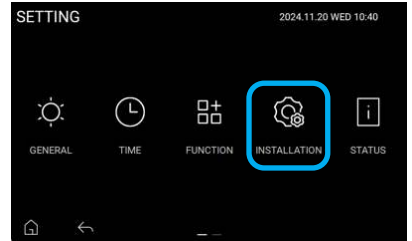
Principaux paramètres d'installation de l'équipement



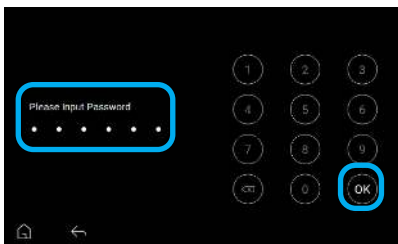
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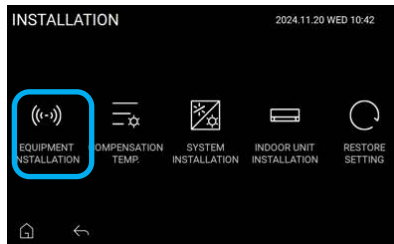
2



3



4 * Mot de passe « 841226 » OK



5



← On
← Off
← Off
← Off

***SÉLECTIONNER ON POUR ACTIVER LA ZONE 1**

Appuyer sur la maison pour revenir au menu principal

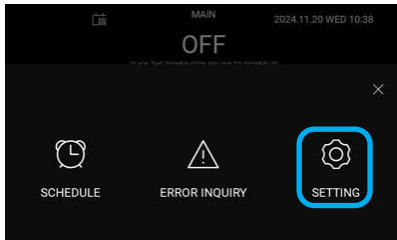
Fonction	Plage de paramètres	Paramètres
Zone 1	ON/OFF	ON

*** LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.**

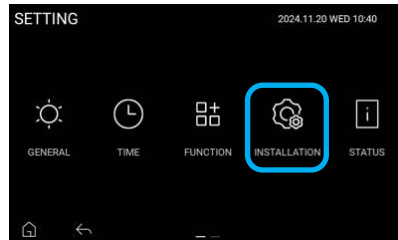
Principaux paramètres d'installation du système



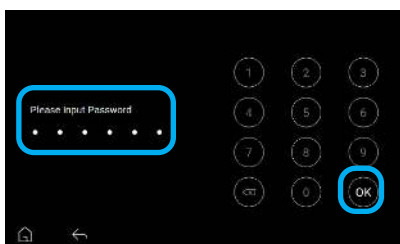
1



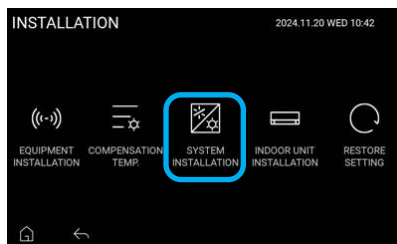
2



3



4 * Mot de passe « 841226 » OK



5



← **Contrôleur principal**

← Contrôleur principal

← Contrôleur principal

← Contrôleur principal

*** SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 1**

Fonction	Plage de paramètres	Paramètres
Mode de contrôle de la zone 1	Contrôleur principal Contrôleur tiers	Contrôleur principal



← **Chauffage électrique et chaudière**

← 15 °C

← 10 °C

Fonction	Plage de paramètres	Paramètres
Source de chaleur auxiliaire	Chauffage électrique et chaudière, chaudière à chauffage électrique	Chauffage électrique et chaudière

*** LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.**

Principaux paramètres d'installation du système



← 45 °C

← 27 °C

← 6 °C

← 0 °C

*** SÉLECTIONNER LA TEMPÉRATURE AMBIANTE DU CHAUFFAGE ÉTEINT**

*** SÉLECTIONNER LA TEMPÉRATURE ΔT° POUR CHAUFFAGE ACTIVÉ**

*** ENTRER LE DELTA T POUR LE MODE CHAUFFAGE**

Fonction	Plage de paramètres	Paramètres
Température ambiante du chauffage éteint	5 - 35 °C	27 °C
ΔT pour le chauffage activé	0 - 15 °C	6 °C



← 60 min

← -3 °C

← -1 °C

← -3 °C

*** RÉGLER LE DÉLAI DE CHAUFFAGE APRÈS LE DÉMARRAGE DU COMPRESSEUR**

Appuyer sur la maison pour revenir au menu principal










Fonction	Plage de paramètres	Paramètres
Délai d'activation du chauffage	0 - 120 min	60 min
ΔT chauffage activé par rapport à la température cible	-10 - -2 °C	-3 °C
ΔT chauffage éteint par rapport à la température cible -8 - 0 °C -1 °C	-8 - 0 °C	-1 °C

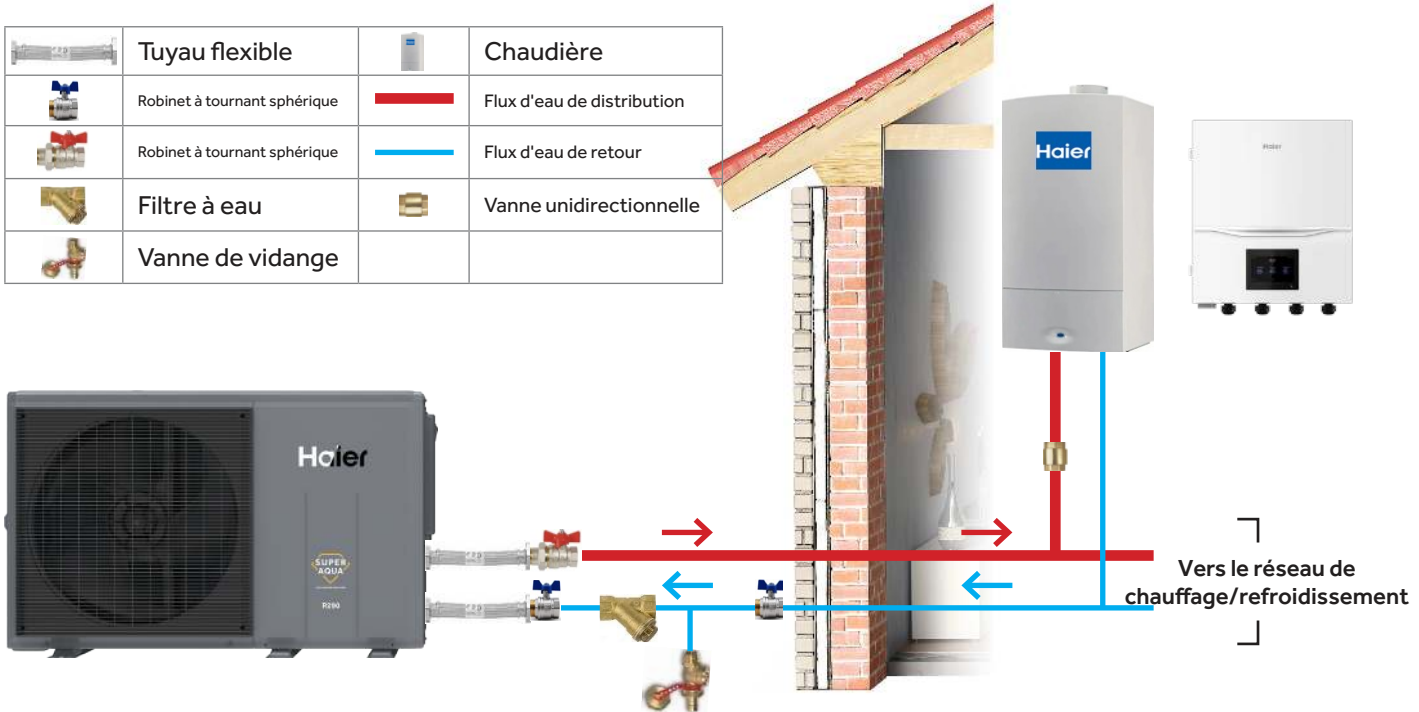
*** LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.**

5.3. BIVALENT

5.3.1. SCHÉMA HYDRAULIQUE SIMPLIFIÉ

5.3.1.1. Sans réservoir tampon

	Tuyau flexible		Chaudière
	Robinet à tournant sphérique		Flux d'eau de distribution
	Robinet à tournant sphérique		Flux d'eau de retour
	Filtre à eau		Vanne unidirectionnelle
	Vanne de vidange		

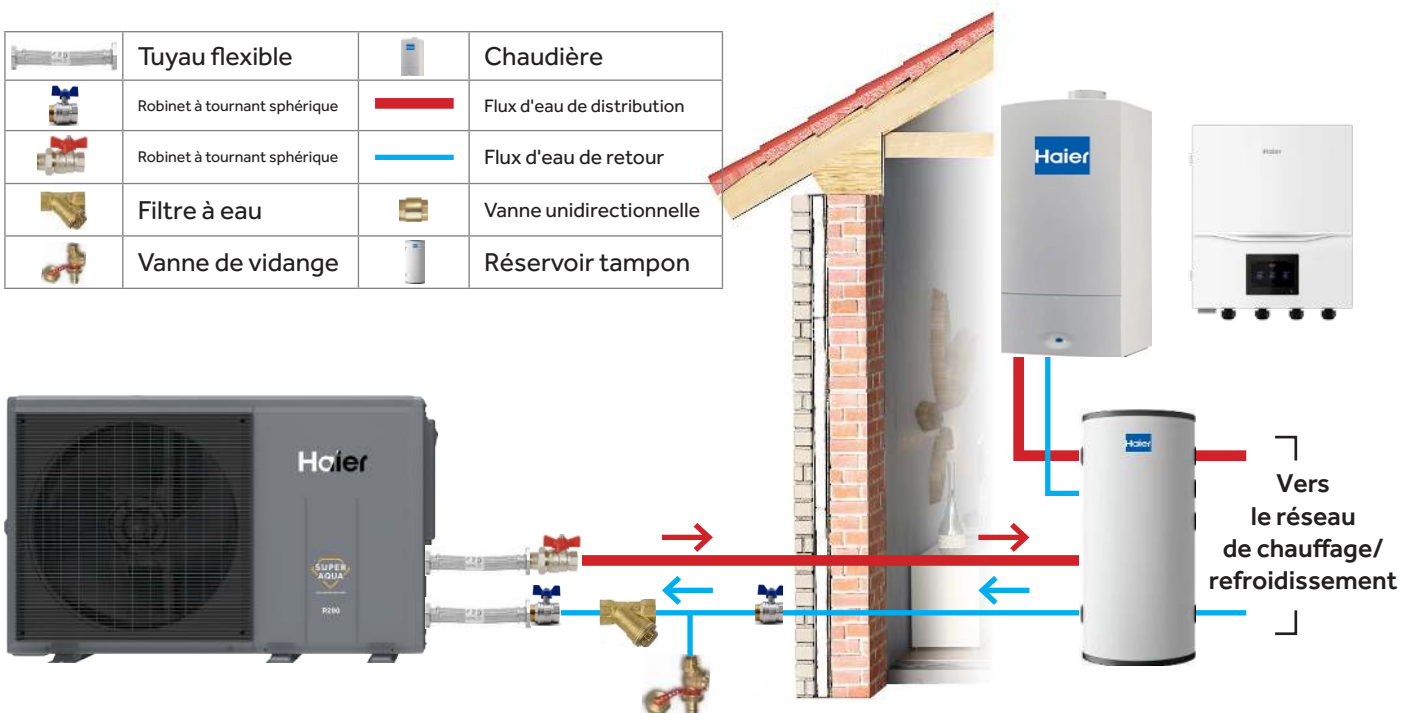


POUR LES CONNEXIONS ÉLECTRIQUES, VOIR LE POINT 1.0.

LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES RÉGLEMENTATIONS LOCALES.

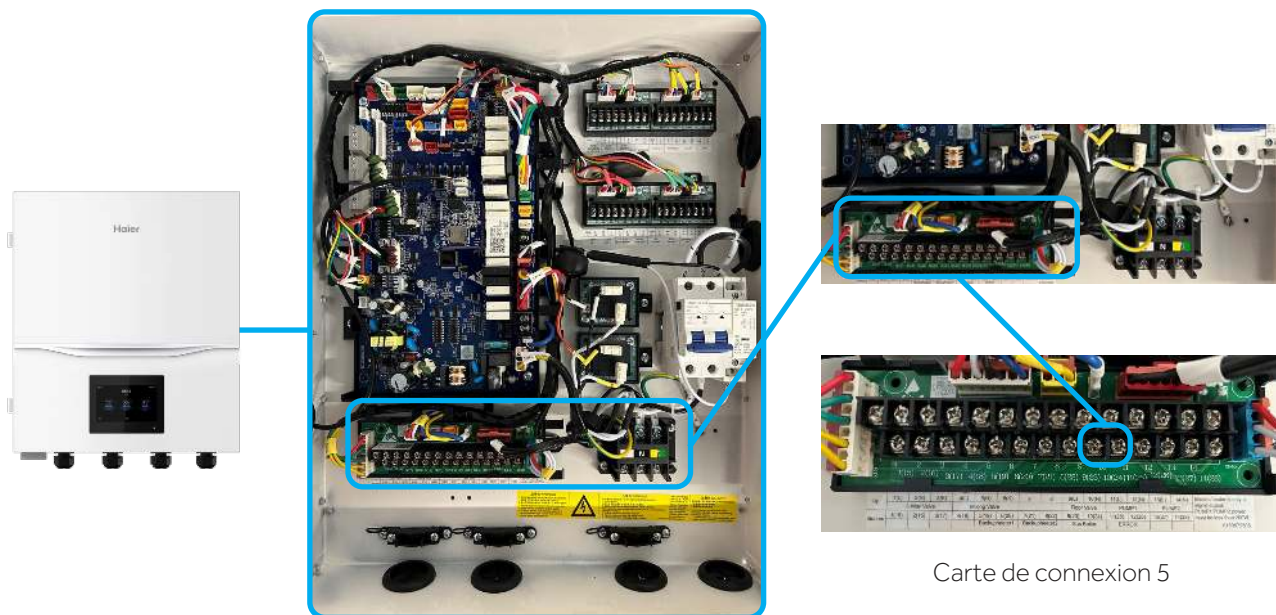
5.3.1.2. Avec réservoir tampon

	Tuyau flexible		Chaudière
	Robinet à tournant sphérique		Flux d'eau de distribution
	Robinet à tournant sphérique		Flux d'eau de retour
	Filtre à eau		Vanne unidirectionnelle
	Vanne de vidange		Réservoir tampon



5.3.2. CONNEXIONS

Sortie du signal de commande de la chaudière à gaz pour la source de chaleur auxiliaire



Carte de connexion 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

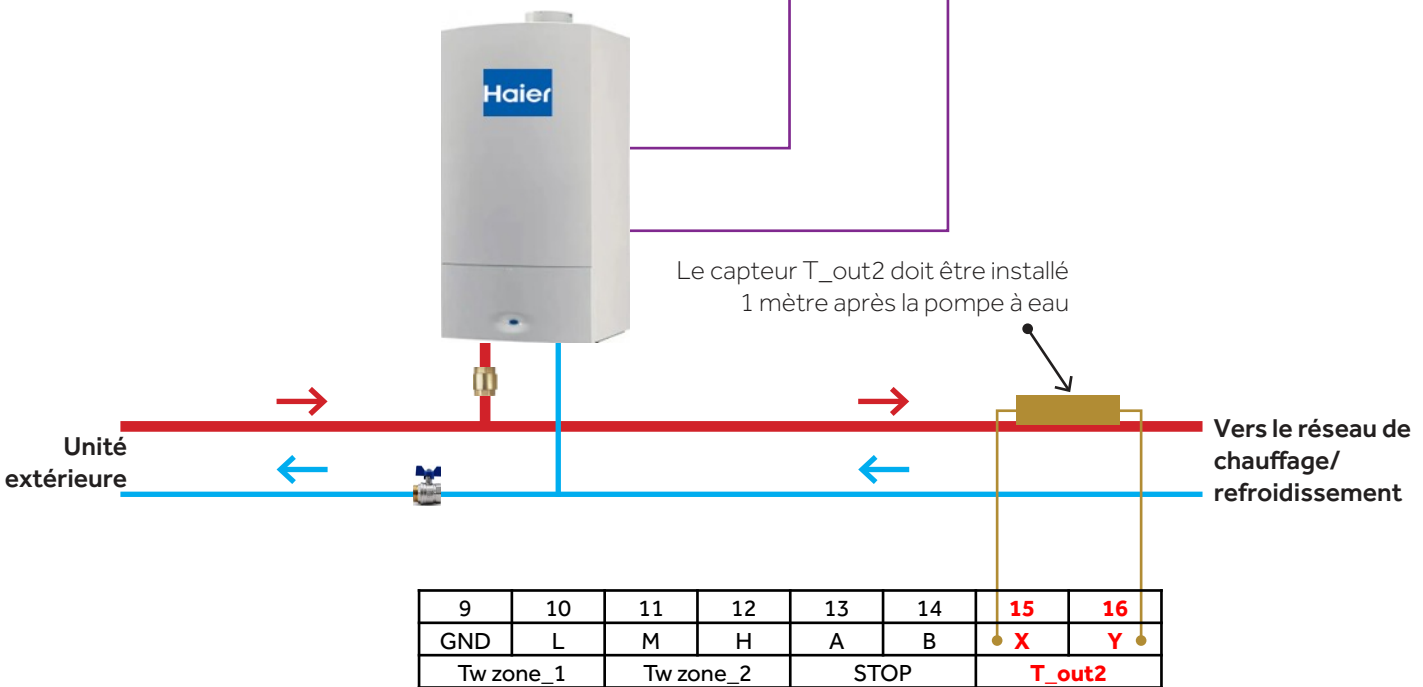


Sur la carte de connexion numéro 5, entre les bornes 9 (23) et 10 (24), il faut connecter le signal d'activation de la chaudière. Il s'agit d'un signal de sortie numérique, ce qui signifie que lorsque le contact est fermé, la chaudière est allumée, et lorsque le contact est ouvert, la chaudière est éteinte.

5.3.3. SCHÉMA DE CONNEXION SIMPLIFIÉ

5.3.3.1. Sans réservoir tampon

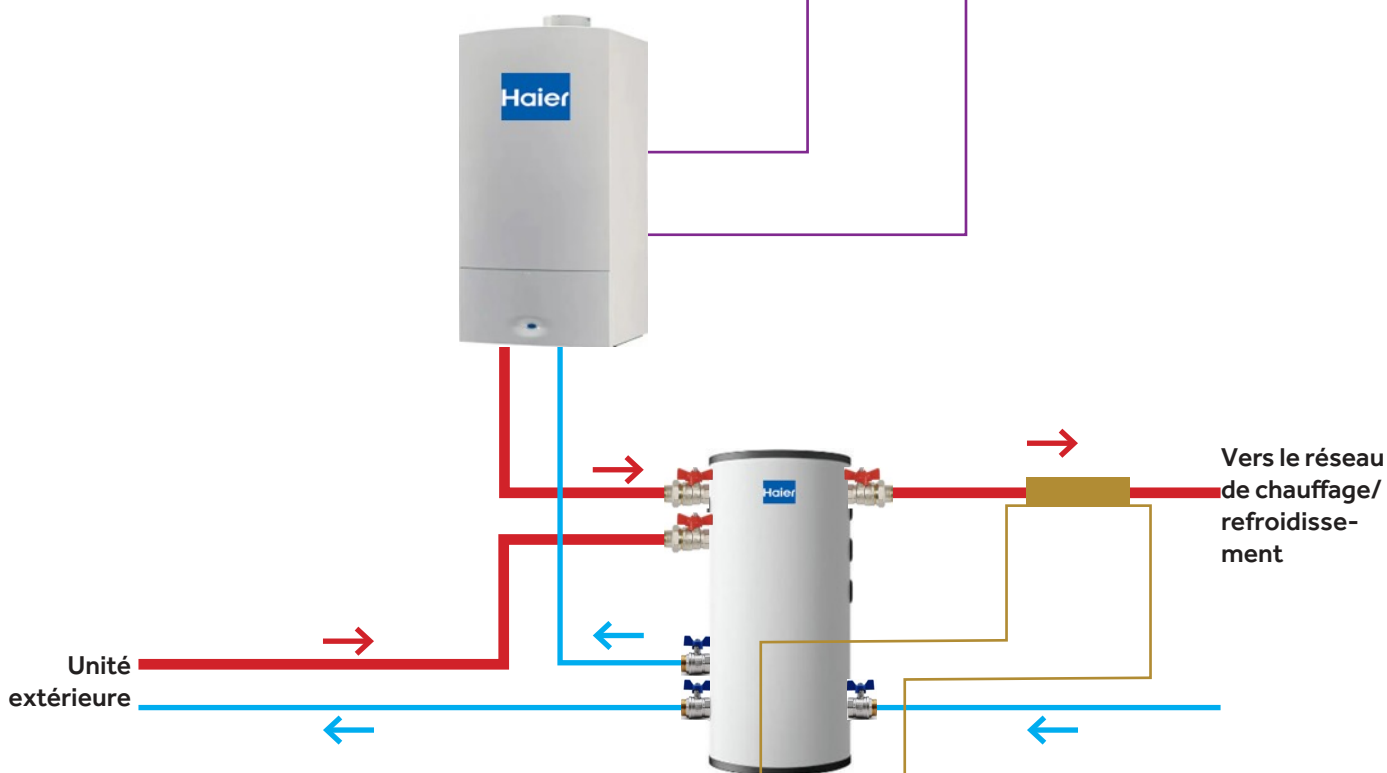
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			



	Chaudière		Vanne unidirectionnelle
	Robinet à tournant sphérique		T_out2
	Robinet à tournant sphérique		
	Flux d'eau de distribution		
	Flux d'eau de retour		

5.3.3.2. Avec réservoir tampon

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

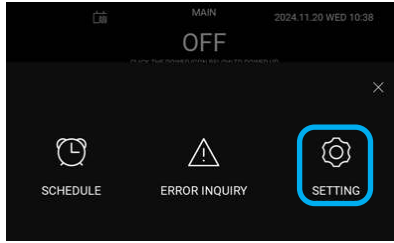
	Chaudière		Réservoir tampon
	Robinet à tournant sphérique		Vanne unidirectionnelle
	Robinet à tournant sphérique		T_out2
	Flux d'eau de distribution		
	Flux d'eau de retour		

5.3.4. PARAMÈTRES DU CONTRÔLEUR

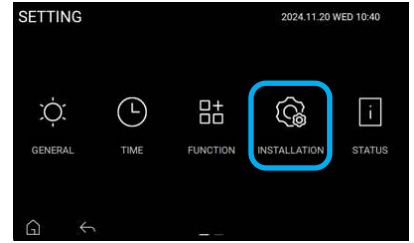
Principaux paramètres d'installation de l'équipement



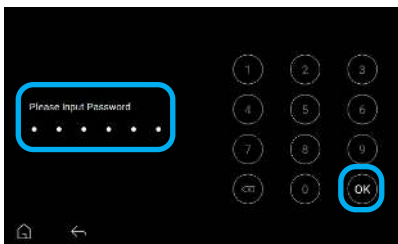
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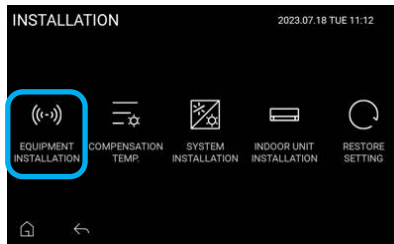
2



3



4 * Mot de passe « 841226 » OK



5



← On
← Off
← Off
← Off

* SÉLECTIONNER ON POUR ACTIVER LA ZONE 1

Fonction	Plage de paramètres	Paramètres
Zone 1	ON/OFF	ON



← 26°C
← 20°C
← On
← 0°C

* SÉLECTIONNER ON POUR ACTIVER LA CONNEXION BIVALENTE
* RÉGLER LA TEMPÉRATURE BIVALENTE

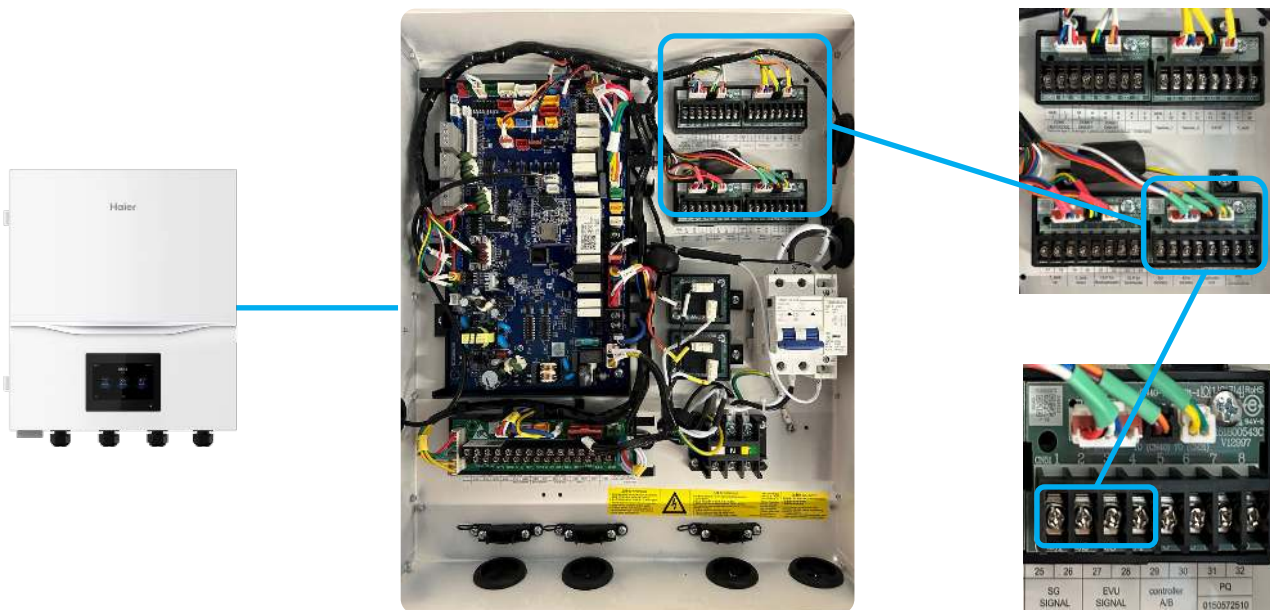
Appuyer sur la maison pour revenir au menu principal

Fonction	Plage de paramètres	Paramètres
Connexion bivalente	ON/OFF	ON
Temp. bivalente	-20 °C - 20 °C	0 °C

* LES PARAMÈTRES À MODIFIER SONT INDICUÉS EN BLEU.

6.0. SG READY - CONNEXION SMART GRID

6.1. CONNEXIONS



Carte de connexion

Carte de connexion 4

25	26	27	28	29	30	31	32
GND	L	M	H	A		X	Y
Signal SG		Signal EVU		Contrôleur A/B		PQ	
SG1		SG2					

Sur la carte de connexion numéro 4, nous avons un signal sans tension pour le signal Smart Grid entre les bornes 25 (GND) et 26 (L). Sur la carte de connexion numéro 4, nous avons également un signal sans tension pour le signal EVU entre les bornes 27 (M) et 28 (H).

Remarque : le signal SG met 10 secondes à s'afficher à l'écran après sa réception.

Contrôle logique

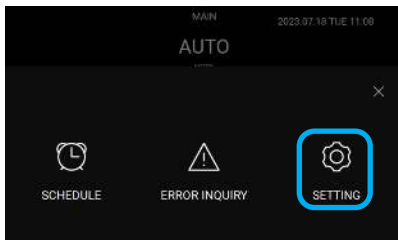
Affichage de l'état sur le contrôleur	Entrée du signal		Fonctionnement		
	Signal SG	Signal EVU	Chauffage	Refroidissement	ECS
	Ouvrir	Ouvrir	Maintenir le fonctionnement actuel	Maintenir le fonctionnement actuel	Maintenir le fonctionnement actuel
SG1	Fermer	Ouvrir	Pompe à chaleur non disponible	Le mode de refroidissement n'est pas disponible	Pompe à chaleur non disponible
SG2	Ouvrir	Fermer	+A°C sur le réglage actuel Temp.	+D°C sur le réglage actuel Temp.	+B°C sur le réglage actuel Temp.
			Remarque A : 2 à 6 °C, réglable sur le contrôleur, 4 °C par défaut	Remarque D : -2 à 6 °C, réglable sur le contrôleur, 4 °C par défaut	Remarque B : 4 à 8 °C, réglable sur le contrôleur, 4 °C par défaut
Sg3	Fermer	Fermer	Contrôle de la température de l'eau, modification de la température de l'eau pour atteindre le chauffage maximal (sauf contrôle tiers), contrôle de la température ambiante, modification de la température de réglage pour atteindre 26 °C	Contrôle de la température de l'eau, modification de la température de l'eau pour atteindre le refroidissement minimum (sauf contrôle tiers), contrôle de la température ambiante, modification de la température de réglage pour atteindre 20 °C	Modifier la température de réglage pour atteindre le réglage maximal de l'ECS

6.2. PARAMÈTRES DU CONTRÔLEUR

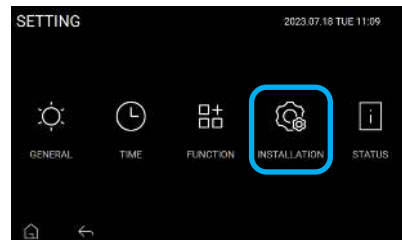
Principaux paramètres d'installation de l'équipement



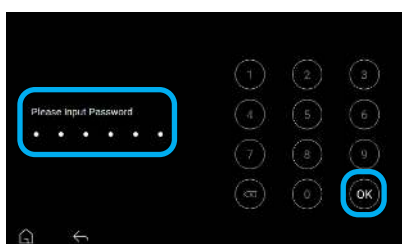
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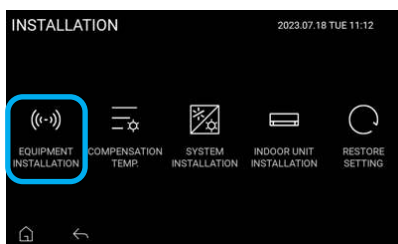
2



3



4 * Mot de passe « 841226 » OK



5



← ON
← 4 °C
← 6 °C
← -4 °C

***SÉLECTIONNER ON POUR ACTIVER LE SMART GRID**

RÉGLEZ ICI LA TEMPÉRATURE À LAQUELLE VOUS SOUHAITEZ QUE L'UNITÉ FONCTIONNE EN MODE SMART GRID

Fonction	Plage de paramètres	Paramètres
Contrôle prêt SG.	ON/OFF	ON
Temp. compensation SG2 Du chauffage	2 - 6 °C	4 °C
Temp. compensation SG2 De l'ECS	4 - 8 °C	6 °C
Temp. compensation SG2 Du refroidissement	-2 - -6 °C	-4 °C



← 26 °C
← 20 °C
← On
← 0 °C

Appuyer sur la maison pour revenir au menu principal

Fonction	Plage de paramètres	Paramètres
Temp. chauffage SG3	16 - 30 °C	26 °C
Temp. refroidissement SG3	16 - 30 °C	20 °C

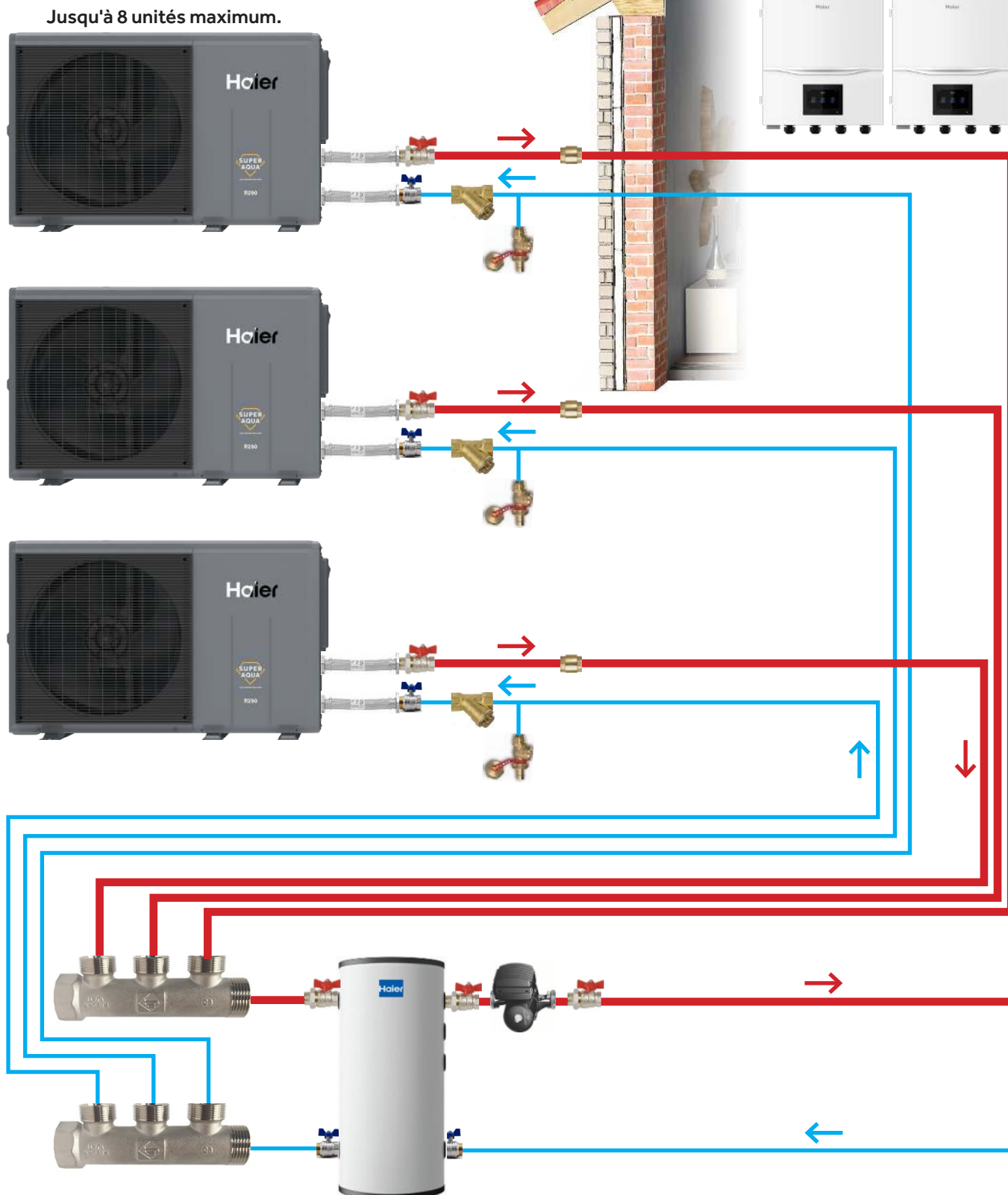
7.0. CASCADE

7.1. SCHÉMA HYDRAULIQUE SIMPLIFIÉ

7.1.1. Sans ECS

Remarque : chaque unité extérieure DOIT être associée à une unité intérieure ATW-A03

Jusqu'à 8 unités maximum.



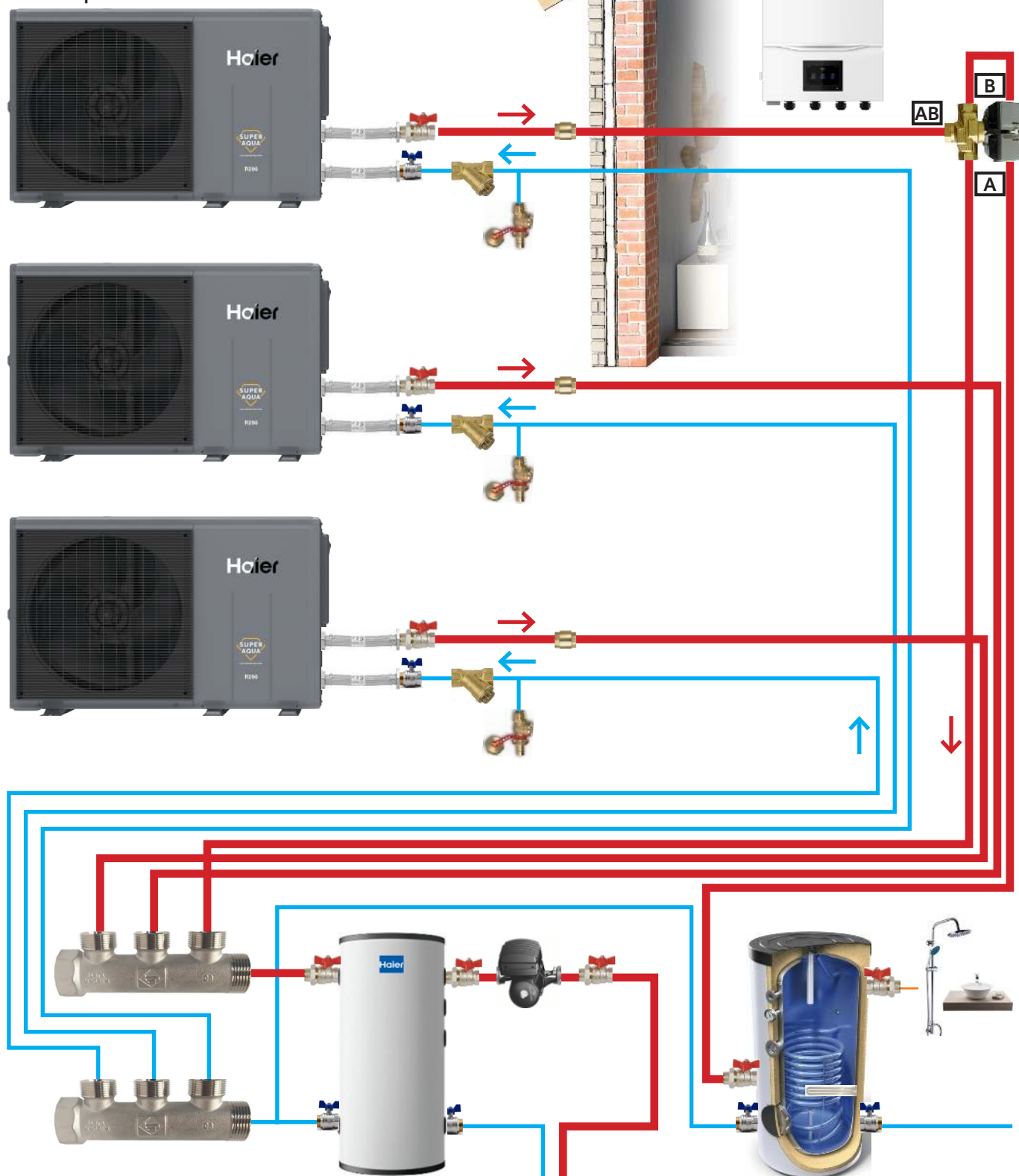
LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES RÉGLEMENTATIONS LOCALES.

Remarque : chaque unité extérieure DOIT être associée à une unité intérieure ATW-A03

7.1.1. Avec ECS

Jusqu'à 8 unités maximum.

Jusqu'à 8 unités maximum.



Important : tous les tuyaux et pompes alimentant le système de chauffage doivent être dimensionnés en fonction de la capacité du système de chauffage.

* Réservoir ECS. Vérifier la réglementation nationale lors du raccordement de l'alimentation en eau froide.

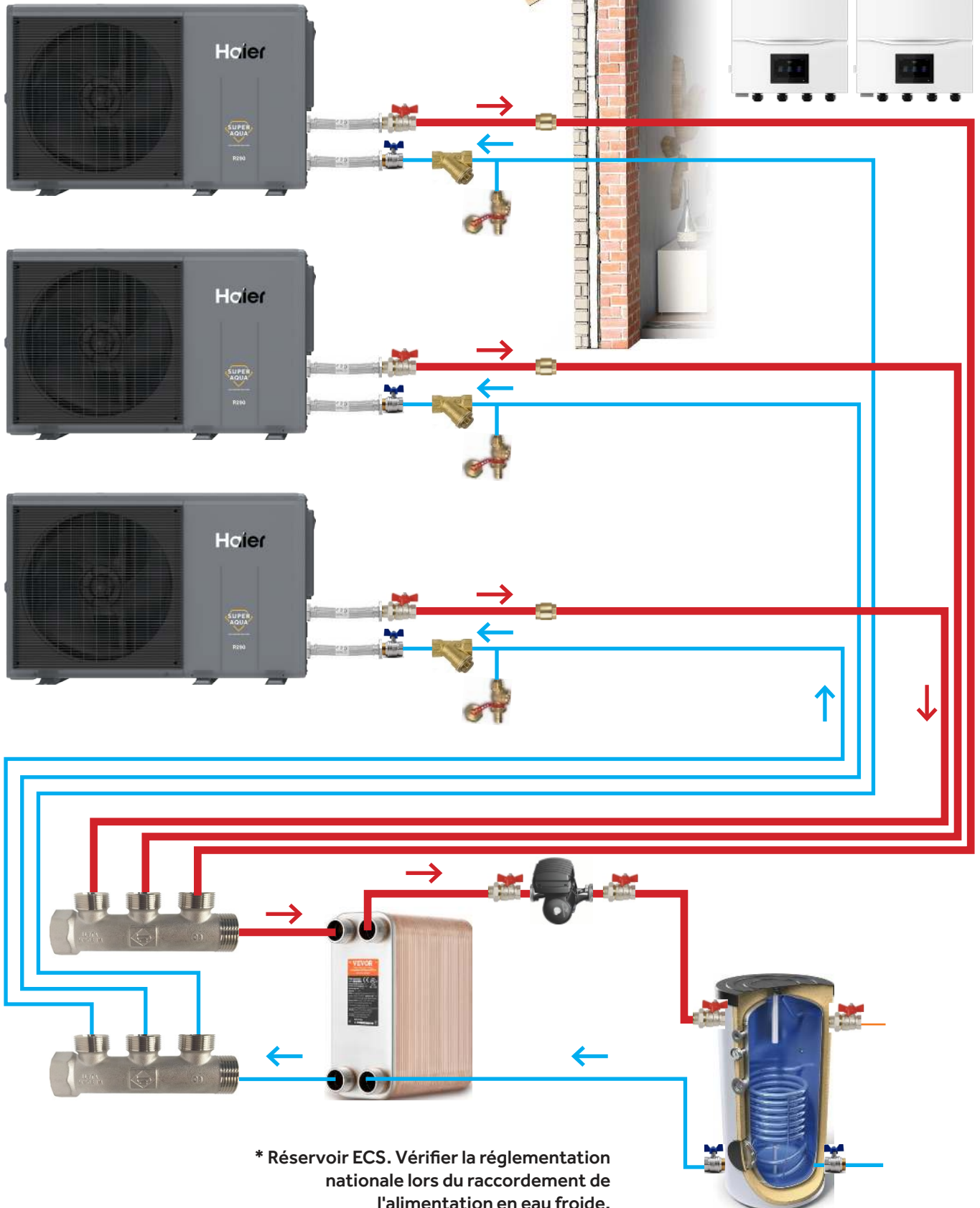
LES SCHÉMAS ET LES ACCESSOIRES NE SONT FOURNIS QU'À TITRE INDICATIF ET L'INSTALLATION DOIT RESPECTER LES NORMES EN VIGUEUR.

Remarque : chaque unité extérieure DOIT être associée à une unité intérieure ATW-A03

7.1.1. Uniquement ECS

Jusqu'à 8 unités maximum.

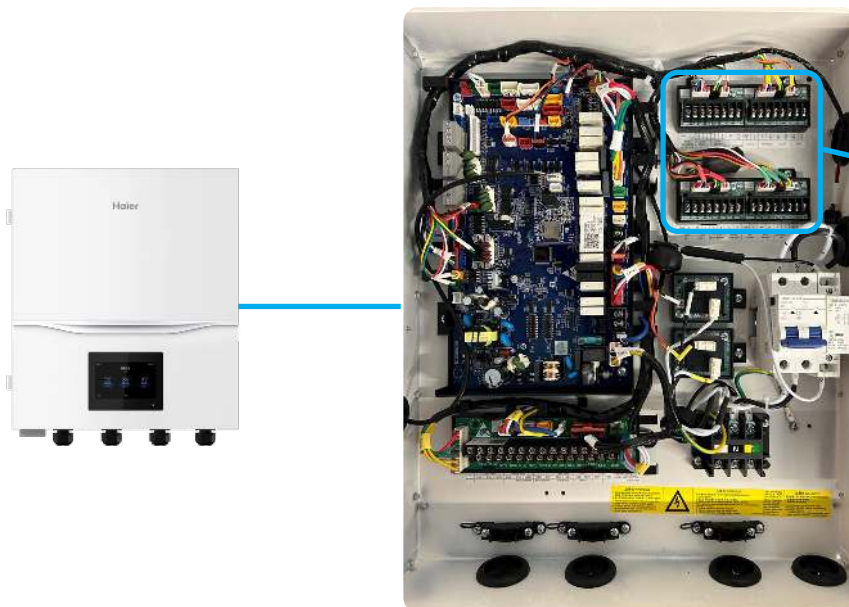
Jusqu'à 8 unités maximum.



* Réservoir ECS. Vérifier la réglementation nationale lors du raccordement de l'alimentation en eau froide.

7.2. CONNEXION

Connexion de câblage principal & secondaire



Carte de connexion 4

Carte de connexion 4 - Principale

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
Signal SG		Signal EVU		Contrôleur A/B		PQ	

Sur la carte de connexion 4 de l'unité principale, on connecte le bus de communication avec les unités secondaires entre les bornes 29(A) et 30 (B).

Carte de connexion 4 - Sub 1

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
Signal SG		Signal EVU		Contrôleur A/B		PQ	

Sur la carte de connexion 4 de l'unité secondaire 1, on connecte le bus de communication avec les unités principale et secondaire entre les bornes 29(A) et 30(B).

Carte de connexion 4 - Sub 2

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
Signal SG		Signal EVU		Contrôleur A/B		PQ	

Jusqu'à 8 unités maximum.

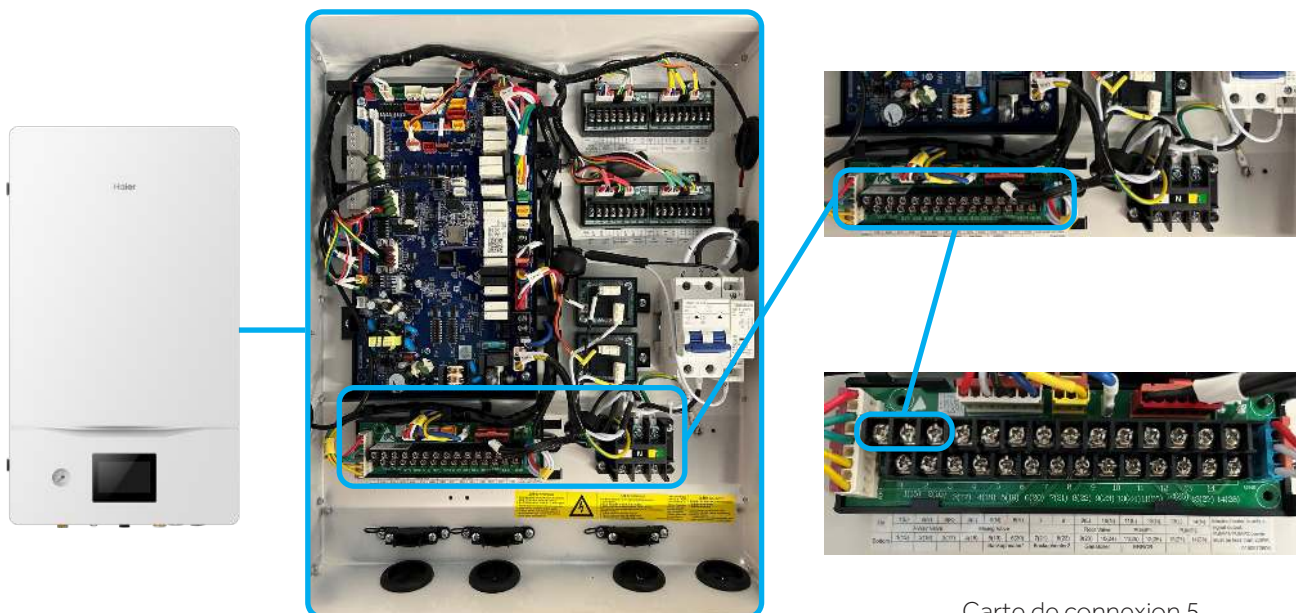
Sur la carte de connexion 4 de l'unité secondaire 2, on connecte le bus de communication avec les unités principale et secondaire entre les bornes 29(A) et 30(B).

* Le bus d'interconnexion entre ATW-A03N et ATW-A03N doit être réalisé avec un câble blindé de 2 x 0,75 mm.

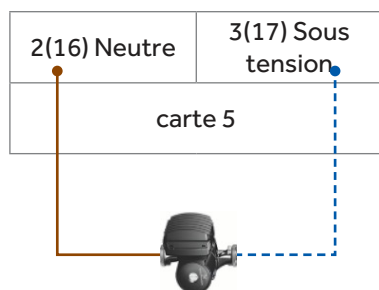
* L'interconnexion doit se faire en série. La connexion en étoile est interdite.

7.2. CONNEXION

Uniquement ECS - Pompe à eau pour circuit secondaire



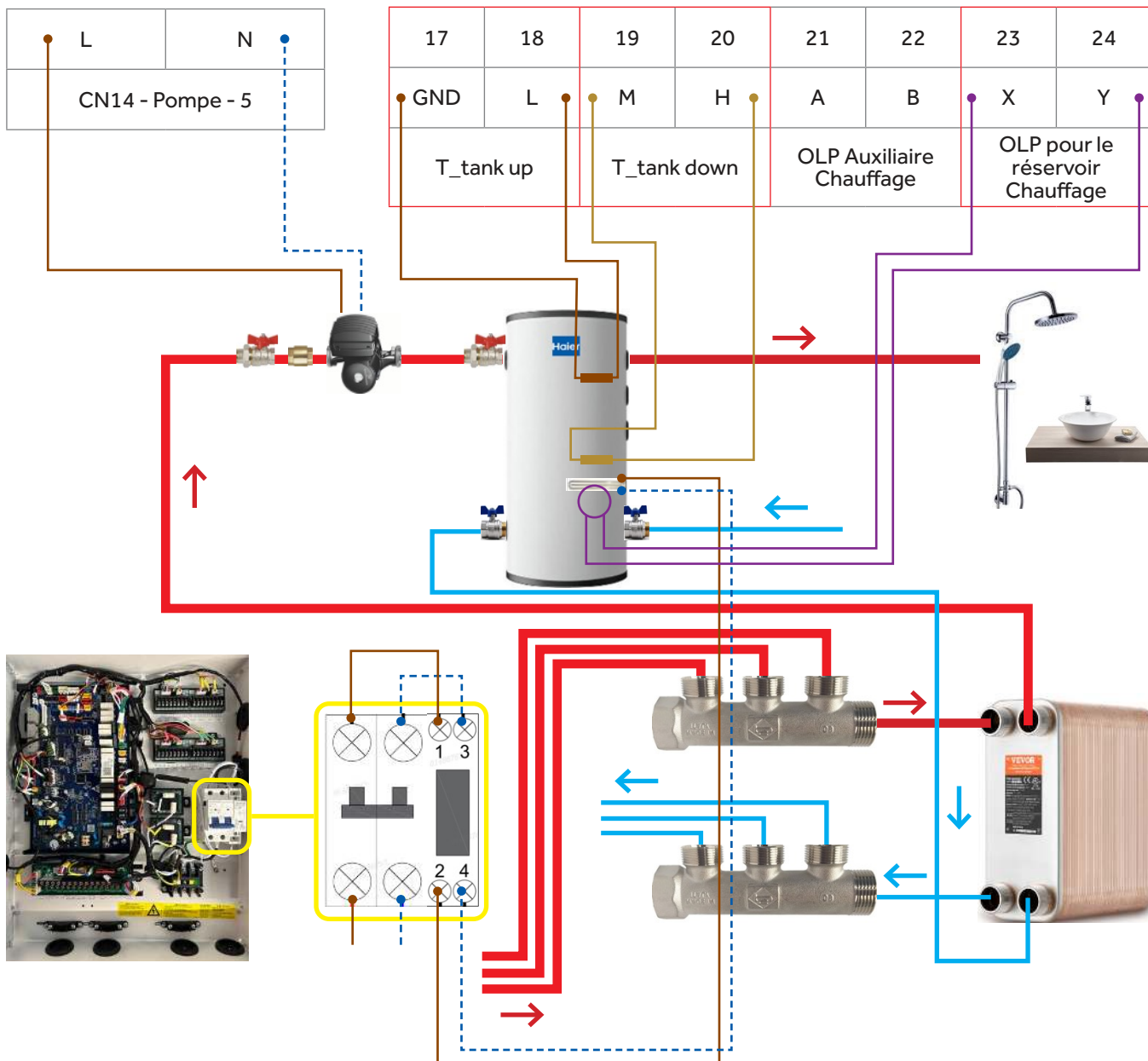
Carte de connexion 5

















Sur la carte de connexion 5, on peut connecter la pompe à eau pour le circuit secondaire après l'échangeur de chaleur sur les bornes 2(16) N et 3(17) L. Sur cette connexion, la tension de sortie est de 230 VCA et la puissance électrique maximale que ce contact peut supporter est de 200 W.

7.3. SCHÉMA DE CONNEXION SIMPLIFIÉ

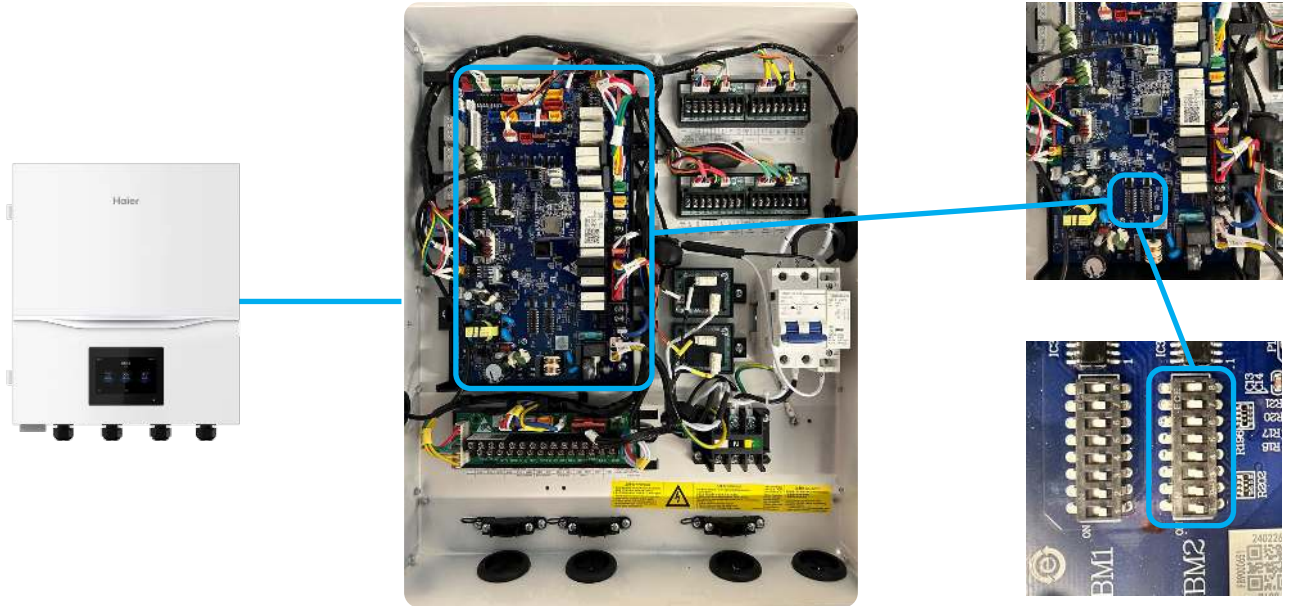
Uniquement ECS - Pompe à eau pour circuit secondaire



	Robinet à tournant sphérique		Vanne unidirectionnelle		Capteur de température T _{tank up}
	Robinet à tournant sphérique		OLP		Ligne
	Flux d'eau de distribution		Réservoir ECS		Neutre
	Flux d'eau de retour		Échange de chaleur à plaques		Chauffage électrique
	Pompe à eau		Capteur de température T _{tank up}		

7.4. CONNEXION

Réglage du commutateur DIP



		[2]	[3]	[4]	Cascade address
		0	0	0	Main unit(Default)
		0	0	1	Sub unit 1#
BM1_2	Cascade address	0	1	0	Sub unit 2#
BM1_3		0	1	1	Sub unit 3#
BM1_4		1	0	0	Sub unit 4#
		1	0	1	Sub unit 5#
		1	1	0	Sub unit 6#
		1	1	1	Sub unit 7#

*** RÉGLER AVEC DIP BM1
L'UNITÉ PRINCIPALE ET LE
NUMÉRO D'ESCLAVE**

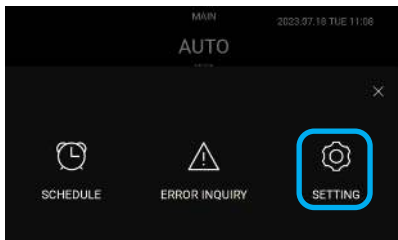
Réglez BM1, interrupteur numéro 2 à 4, pour adresser l'unité comme indiqué ci-dessus.

7.5. PARAMÈTRES DU CONTRÔLEUR

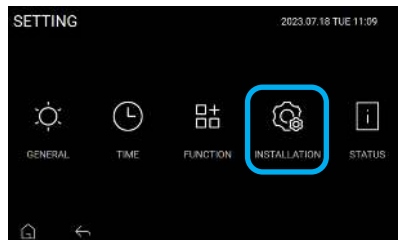
Principaux paramètres d'installation du système



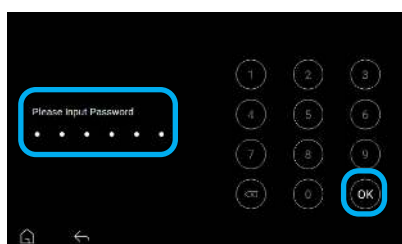
1



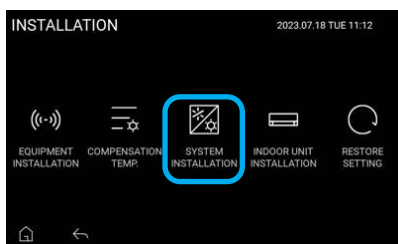
2



3



4 * Mot de passe « 841226 » OK



5



- ← Aucun
- ← 5 °C
- ← 6 °C
- ← On

*** SÉLECTIONNER ON POUR ACTIVER L'ECS**

Appuyer sur la maison pour revenir au menu principal

Fonction	Plage de paramètres	Paramètres
Fonction ECS	ON/OFF	ON

*** LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.**

8.0. PARAMÈTRES DE CONTRÔLE

9.0. SIGNAL DE COMMUTATION DU CONTRÔLEUR TIERS

9.1. SIGNAL DE COMMUTATION DU CONTRÔLEUR TIERS

L'unité peut être contrôlée de deux manières : avec un commutateur permettant de basculer entre le chauffage et le refroidissement ou grâce à des thermostats séparés. Il est possible de la définir comme Type 1 ou Type 2.

Type 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Besoin de chauffage (ON/OFF) - ZONE1		Besoin de refroidissement (ON/OFF) - ZONE1		Besoin de chauffage (ON/OFF) - ZONE2		Besoin de refroidissement (ON/OFF) - ZONE2	

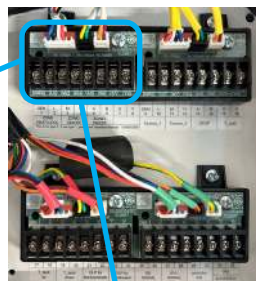
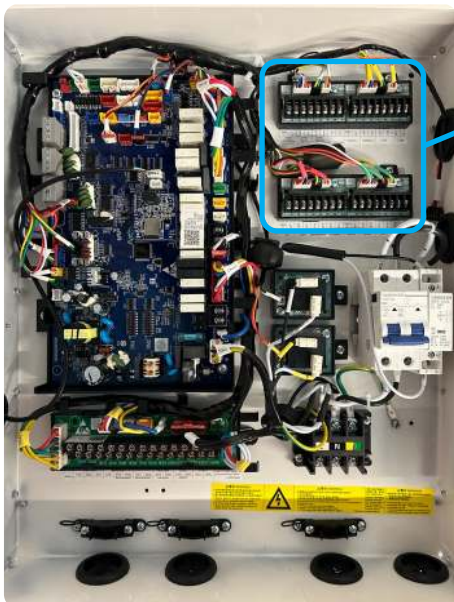
Le type 1 utilise un thermostat séparé pour le refroidissement et le chauffage.

Type 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Chauffage / Refroidissement		Zone 1 ON/OFF		Zone 2 ON/OFF			

Le type 2 utilise un commutateur chauffage/refroidissement.

9.1.1. TYPE 1 - SYSTÈME LE PLUS COURAMMENT UTILISÉ



* Toutes les connexions de la carte de connexion 1, 2, 3 et 4 sont des bornes à vis.



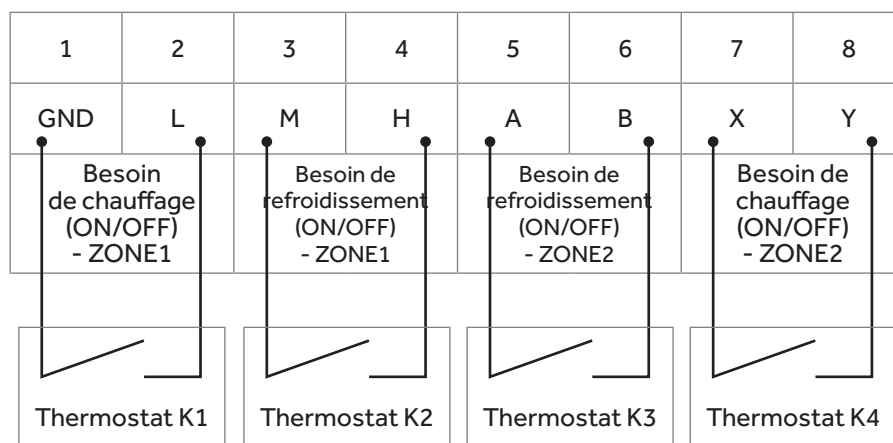
Carte de connexion 1

9.1.1. SIGNAL DE COMMUTATION DU CONTRÔLEUR TIERS - TYPE 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Besoin de chauffage (ON/OFF) - ZONE1		Besoin de refroidissement (ON/OFF) - ZONE1		Besoin de chauffage (ON/OFF) - ZONE2		Besoin de refroidissement (ON/OFF) - ZONE2	

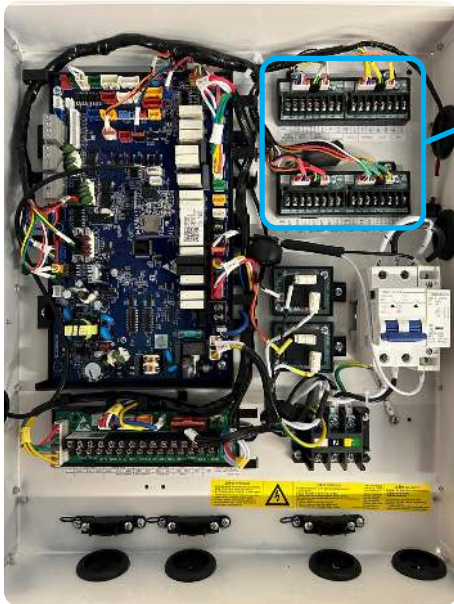
- 1) Aucun des contacts n'est sous tension.
- 2) Cette configuration est utilisée lorsque les thermostats de refroidissement et de chauffage sont séparés.
- 3) Si vous établissez un contact à partir de 1-2, l'unité démarrera en mode chauffage. Si vous établissez un contact à partir de 3-4, l'unité démarrera en mode refroidissement.
- 4) Si vous établissez un contact à partir de 5-6, l'unité démarrera en mode chauffage zone 2. Si vous établissez un contact à partir de 7-8, l'unité démarrera en mode refroidissement zone 2.
- 5) Vous ne devez pas envoyer un signal de marche de refroidissement et un signal de chauffage en même temps.

Schéma de connexion simplifié



- 1) Aucun des contacts n'est sous tension.
- 2) Cette configuration est utilisée lorsque les thermostats de refroidissement et de chauffage sont séparés.
- 3) Si vous établissez un contact avec la zone 1 à partir de 1-2, l'unité démarrera en mode chauffage zone 1. Si vous établissez un contact à partir de 3-4, l'unité démarrera en mode refroidissement.
- 4) Si vous établissez un contact à partir de 5-6, l'unité démarrera en mode refroidissement zone 2. Si vous établissez un contact à partir de 7-8, l'unité démarrera en mode chauffage zone 2.
- 5) Vous ne devez pas envoyer un signal de marche de refroidissement et un signal de chauffage en même temps.

9.1.2. SIGNAL DE COMMUTATION DU CONTRÔLEUR TIERS - TYPE 2 MOINS COURAMMENT UTILISÉ



* Toutes les connexions de la carte de connexion 1, 2, 3 et 4 sont des bornes à vis.



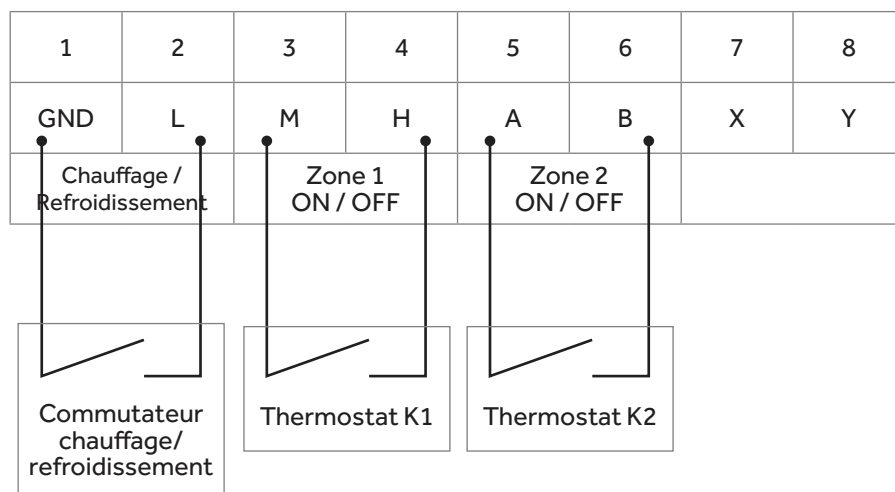
Carte de connexion 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Chauffage / Refroidissement		Zone 1 ON/OFF		Zone 2 ON/OFF			

- 1) Aucun des contacts n'est sous tension.
- 2) Cette configuration est utilisée lorsque vous utilisez un thermostat combinant le refroidissement et le chauffage.
- 3) Si vous établissez un contact à partir de 1-2, l'unité est en mode refroidissement. Si vous interrompez le contact de 1-2, l'appareil est en mode chauffage.
- 4) Si vous établissez un contact à partir de 3-4, l'unité démarre en mode refroidissement ou chauffage.
- 5) Si vous établissez un contact à partir de 5-6, l'unité démarre en mode refroidissement ou chauffage. Zone 2
- 6) Si aucun signal de marche n'est émis par les zones 1 et 2, l'unité arrête le chauffage et le refroidissement. Le mode ECS se poursuit.

Type 2

Schéma de connexion simplifié



Commutateur chauffage/refroidissement : Mettre en position ON pour le mode refroidissement, et en position OFF pour le mode chauffage

K1 : Mettre en position ON pour démarrer le chauffage / refroidissement de la zone 1. Mettre en position OFF pour l'arrêter.

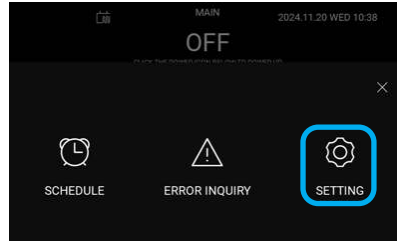
K3 : Mettre en position ON pour démarrer le chauffage / refroidissement de la zone 2. Mettre en position OFF pour l'arrêter.

9.1.3. PARAMÈTRES DU CONTRÔLEUR

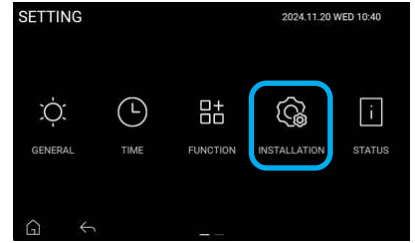
Principaux paramètres d'installation du système



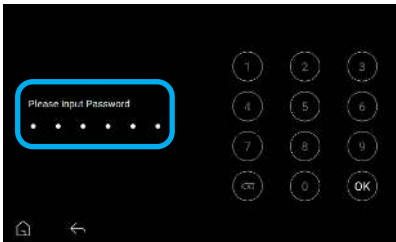
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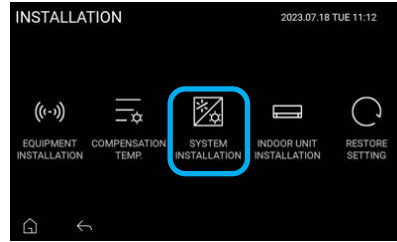
2



3



4 * Mot de passe « 841226 »



5



← Contrôleur tiers

← Contrôleur tiers

← Contrôleur principal

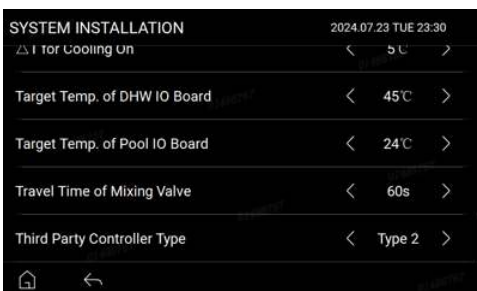
← Contrôleur principal

* SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 1

* SÉLECTIONNER LE MODE DE CONTRÔLE POUR LA ZONE 2

Fonction	Plage de paramètres	Paramètres
Mode de contrôle de la zone 1	Contrôleur principal Contrôleur tiers	Contrôleur tiers
Mode de contrôle de la zone 2	Contrôleur principal Contrôleur tiers	Contrôleur tiers

DESCENDRE DE 2 PAGES POUR ACCÉDER À CE MENU.



← 60 s

← Type 1

* ATTENTION ! CHOISIR EN FONCTION DE VOTRE INSTALLATION : TYPE 1 OU TYPE 2

* SÉLECTIONNER LE TYPE DE CONTRÔLEUR TIERS

Fonction	Plage de paramètres	Paramètres
Type de contrôleur tiers	Type 1 / Type 2	Type 1

* LES PARAMÈTRES À MODIFIER SONT INDIQUÉS EN BLEU.

10.0. ANNEXES

10.0. ANNEXES

Aperçu ATW-A03N



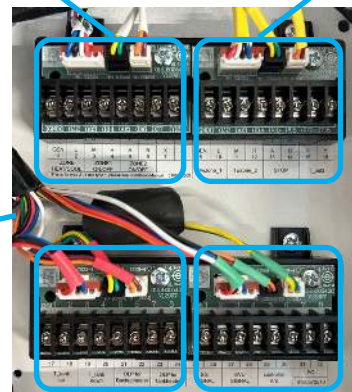
Carte de connexion 1



Carte de connexion 2



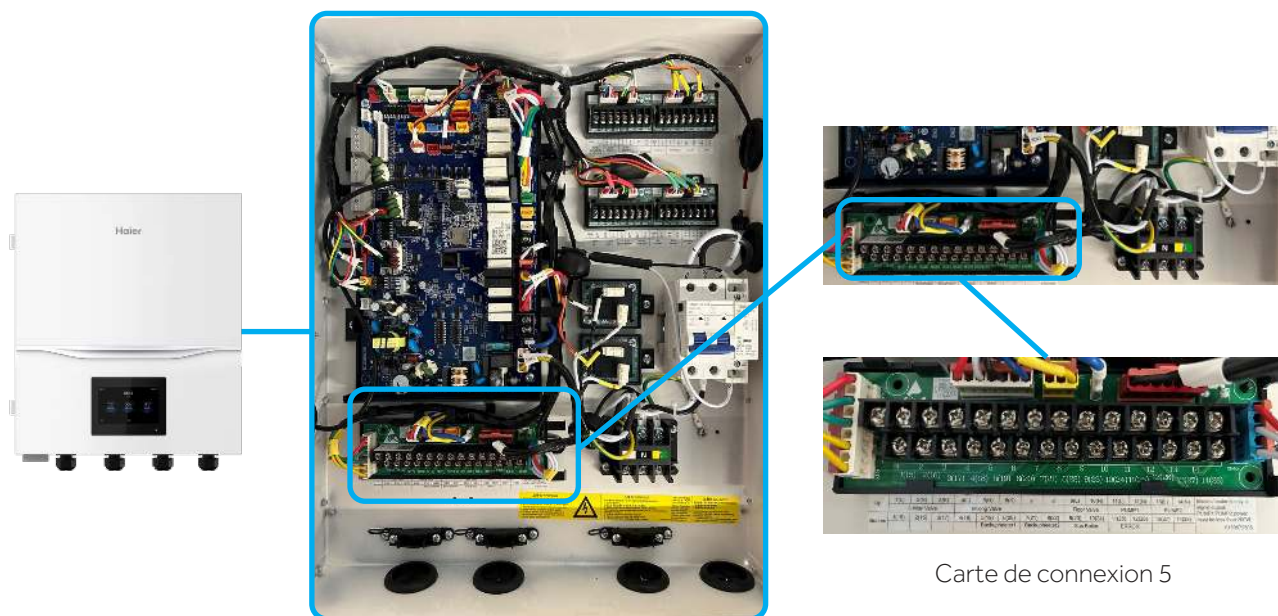
Carte de connexion 3



* Toutes les connexions sur la carte de connexion 1, 2, 3 et 4 sont des bornes à vis.



Carte de connexion 4

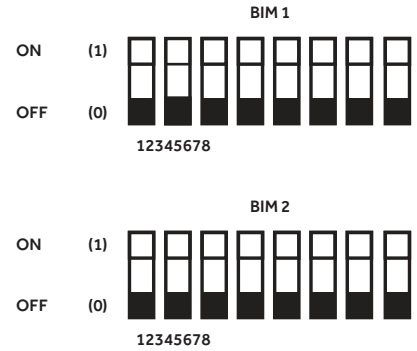
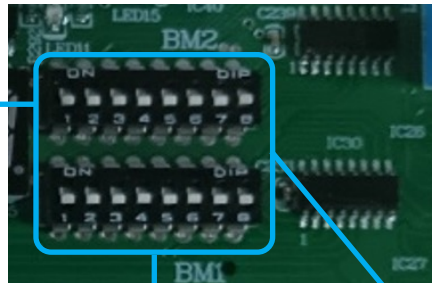


Carte de connexion 5

*** TOUTES LES CONNEXIONS DE LA CARTE DE CONNEXION 5 SONT DES BORNES À VIS.**

10.0. ANNEXES

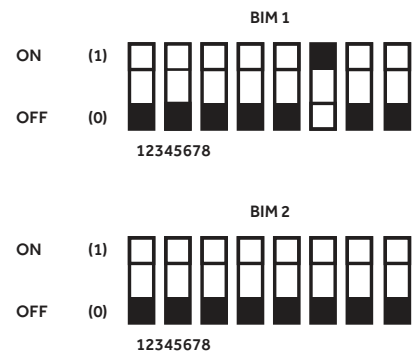
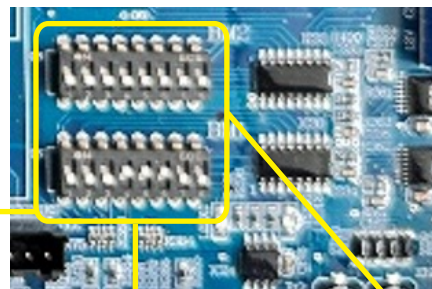
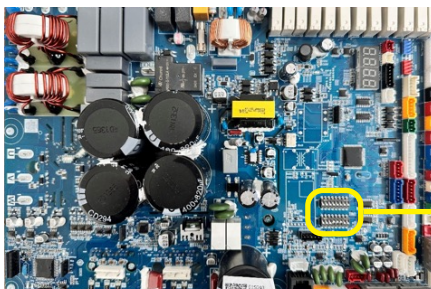
Réglage du commutateur DIP - Installation monophasée - 1 ph-ODU



BM1_1	Capacity control	[1]	Capacity control method	0	Normal control(default)			
		1	0~10V control(ATW-A02)					
BM1_2	Outdoor unit model	[2]	[3] [4] [5] Outdoor unit model	0	0	0	0	AW042MUGHA
BM1_3		0	0	0	1	AW062MUGHA		
BM1_4		0	0	1	0	AW082MUGHA		
BM1_5		0	0	1	1	AW102(N)MUGHA		
		1	0	0	0	AW122(N)MXGHA		
		1	0	0	1	AW142(N)MXGHA		
		1	0	1	0	AW162(N)MXGHA		
BM1_6	Power supply type	[6]	Power supply type	0	Single phase			
		1	Three phase					
BM1_7	Running mode	[7]	[8] Outdoor unit running mode	0	0	Normal mode(default)		
BM1_8		0	1	Turbo mode				
		1	0	Quiet mode				
		1	1	Test mode				

		[1]	[2]	[3]	Outdoor type selection	
		0	0	0	Monobloc(default)	
		0	0	1	Hydro split	
BM2_1	Out	0	1	0	Hydro all in one	
BM2_2	door	0	1	1	Split	
BM2_3	type	1	0	0	Split all in one	
		1	0	1	Reserved	
		1	1	0	Reserved	
		1	1	1	Reserved	
BM2_4	Refrigerant type selection	[4]				
	gera	0			R290(default)	
	nt	1			R32	
	type					
BM2_5	Reserved	[5]	[6]	[7]	[8]	Reserved
BM2_6		0	0	0	0	Reserved(default)
BM2_7		Reserved
BM2_8		Reserved

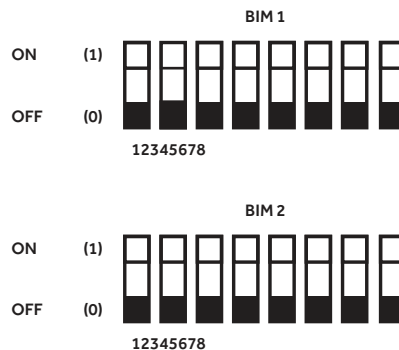
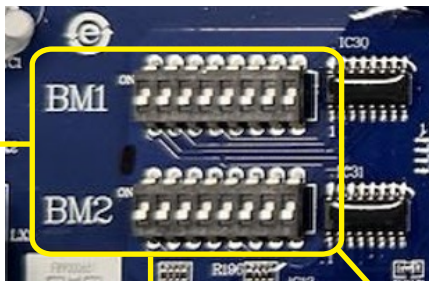
Réglage du commutateur DIP - Installation triphasée - 3 ph-ODU



BM1_1	Capacity control	[1]	Capacity control method	0	Normal control(default)			
		1	0~10V control(ATW-A02)					
BM1_2	Outdoor unit model	[2]	[3] [4] [5] Outdoor unit model	0	0	0	0	AW042MUGHA
BM1_3		0	0	0	1	AW062MUGHA		
BM1_4		0	0	1	0	AW082MUGHA		
BM1_5		0	0	1	1	AW102(N)MUGHA		
		1	0	0	0	AW122(N)MXGHA		
		1	0	0	1	AW142(N)MXGHA		
		1	0	1	0	AW162(N)MXGHA		
BM1_6	Power supply type	[6]	Power supply type	0	Single phase			
		1	Three phase					
BM1_7	Running mode	[7]	[8] Outdoor unit running mode	0	0	Normal mode(default)		
BM1_8		0	1	Turbo mode				
		1	0	Quiet mode				
		1	1	Test mode				

		[1]	[2]	[3]	Outdoor type selection	
		0	0	0	Monobloc(default)	
		0	0	1	Hydro split	
BM2_1	Out	0	1	0	Hydro all in one	
BM2_2	door	0	1	1	Split	
BM2_3	type	1	0	0	Split all in one	
		1	0	1	Reserved	
		1	1	0	Reserved	
		1	1	1	Reserved	
BM2_4	Refrigerant type selection	[4]				
	gera	0			R290(default)	
	nt	1			R32	
	type					
BM2_5	Reserved	[5]	[6]	[7]	[8]	Reserved
BM2_6		0	0	0	0	Reserved(default)
BM2_7		Reserved
BM2_8		Reserved

Réglage du commutateur DIP - ATW-A03 N



BM1_1	Indoor Type	[1]	Indoor Type			
		0	ATW-A03(Default)			
BM1_2 BM1_3 BM1_4	Cascade address	[2]	[3]	[4]	Cascade address	
		0	0	1	Main unit(Default)	
		0	0	1	Sub unit 1#	
		0	1	0	Sub unit 2#	
		0	1	1	Sub unit 3#	
		1	0	0	Sub unit 4#	
		1	0	1	Sub unit 5#	
		1	1	1	Sub unit 7#	
BM1_5 BM1_6 BM1_7 BM1_8	Capacity	[5]	[6]	[7]	[8]	ODU capacity selection
		0	0	0	0	AW042MUGHA
		0	0	0	1	AW062MUGHA
		0	0	1	0	AW082MUGHA
		0	0	1	1	AW102(N)MUGHA
		1	0	0	0	AW122(N)MXGHA
		1	0	0	1	AW142(N)MXGHA
		1	0	1	0	AW162(N)MXGHA

BM2_1	communication Address setting mode	[1]	Outdoor communication address setting mode					
		0	Automatic setting (default)					
BM2_2	Water tank sensor selection	[2]	Dip switch set address					
		0	Water tank sensor selection					
BM2_3 BM2_4 BM2_5 BM2_6 BM2_7 BM2_8	communication Address	[3]	[4]	[5]	[6]	[7]	[8]	Address
		0	0	0	0	0	0	0#(default)
		0	0	0	0	0	1	1#
		0	0	0	0	1	0	2#
	

11.0. APPENDICE

11.0. APPENDICE

Débits recommandés pour chaque système

Unité kW	delta T	débit l/min	débit m ³ / h	delta T	débit l/ min	débit m ³ / h
4	5	11,5	0,7	7	8,2	0,5
6	6	14,4	0,9	7	12,3	0,7
8	5	23,0	1,4	7	16,4	1,0
10	5	28,7	1,7	7	20,5	1,2
12	5	34,4	2,1	7	24,6	1,5
14	5	40,2	2,4	7	28,7	1,7
16	5	45,9	2,8	7	32,8	2,0

Capacité de la tuyauterie

Pour éviter le bruit, la capacité maximale recommandée pour chaque tuyau est indiquée ci-dessous.

À delta T 5 °C :

diamètre mm	vitesse m/s	delta t	débit m ³ / h	débit l/min	kWs
6	1,2	5	0,1	1,3	0,5
8	1,2	5	0,2	2,6	0,9
10	1,2	5	0,3	4,4	1,5
12	1,2	5	0,4	6,6	2,3
15	1,2	5	0,6	10,5	3,6
22	1,2	5	1,4	23,1	8,0
28	1,2	5	2,3	38,8	13,5
35	1,2	5	3,6	60,1	20,9

À delta T 7 °C :

diamètre mm	vitesse m/s	delta t	débit m ³ / h	débit l/min	kWs
6	1,2	7	0,1	1,3	0,6
8	1,2	7	0,2	2,6	1,3
10	1,2	7	0,3	4,4	2,1
12	1,2	7	0,4	6,6	3,2
15	1,2	7	0,6	10,5	5,1
22	1,2	7	1,4	23,1	11,2
28	1,2	7	2,3	38,8	18,9
35	1,2	7	3,6	60,1	29,3

Volume minimal du système Litres

Pompe à chaleur Haier	Numéro de modèle	Volume minimal du système Litres
4 kW	AW042MUGHA	28,7
6 kW	AW062MUGHA	43,1
8 kW	AW082MUGHA	57,4
10 kW	AW102MUGHA	71,8
12 kW	AW122MX	86,1
14 kW	AW142MX	100,5
16 kW	AW162MX	114,8

Taille des fusibles

Pompe à chaleur monophasée Haier	Numéro de modèle	Fusible
4 kW	AW042M/HUGHA	16 A
6 kW	AW062M/HUGHA	16 A
8 kW	AW082M/HUGHA	20 A
10 kW	AW102M/HUGHA	20 A
12 kW	AW122MXGHA	32 A
14 kW	AW142MXGHA	32 A
16 kW	AW162MXGHA	32 A
Pompe à chaleur triphasée Haier		
10 kW	AW10NMUGHA - AW102HUGHA	16 A
12 kW	AW12NMUGHA - AW122HVGHA	16 A
14 kW	AW14NMUGHA - AW142HVGHA	16 A
16 kW	AW16NMUGHA - AW162HVGHA	16 A
Unité intérieure monophasée ATW-A03 N		
Toutes les unités	ATW-A03 N	13 A

Haier
HVAC Solutions



Haier HVAC
haierhvac.eu

Haier

More Creation, More Possibilities

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A2W

Priručnik za instalaciju

2025/26.



SADRŽAJ

1.0

1.0. Povezivanje spoljne jedinice i ATW-A03 N	/02
1.1. Električno ožičenje / priključci	/03
1.1.1. Jednofazna instalacija – 1 F spoljna jedinica	/03
1.1.2. Trofazna instalacija - 3F spoljna jedinica	/03
1.1.3. Električni priključak za ATW-A03 N	/03
1.1.4. Povezivanje žičnog kontrolera	/04
1.2. Povezivanje između spoljne jedinice i ATW-A03N	/05

2.0

2.0. Zona 1	/07
2.1. Zona 1 bez akumulacionog rezervoara	/09
2.1.1. Pojednostavljena hidraulička šema	/11
2.1.2. Postavke kontrolera	/11
2.2. Zona 1 sa akumulacionim rezervoarom	/15
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10.0

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11.0

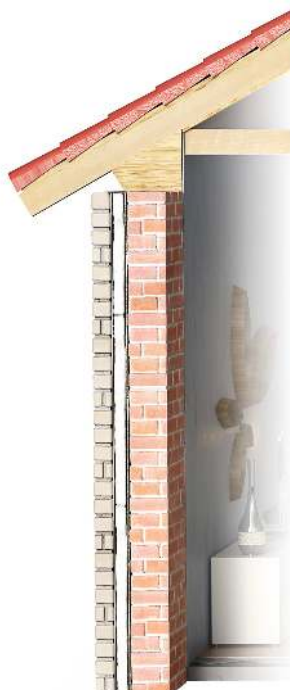
11.0. Prilog	/117
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1.0. POVEZIVANJE SPOLJNE JEDINICE I ATW-A03 N

Spoljna instalacija



Unutrašnja instalacija

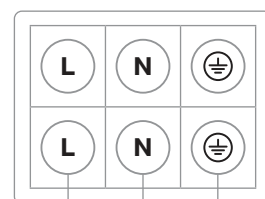
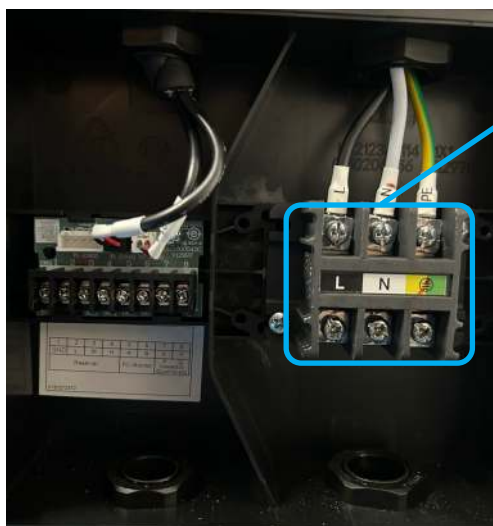


ATW-A03 N



1.1. ELEKTRIČNO OŽIČENJE / PRIKLJUČCI

1.1.1. Jednofazna instalacija - 1F spoljna jedinica



L = Faza
N = Nula
⊕ = Uzemljenje

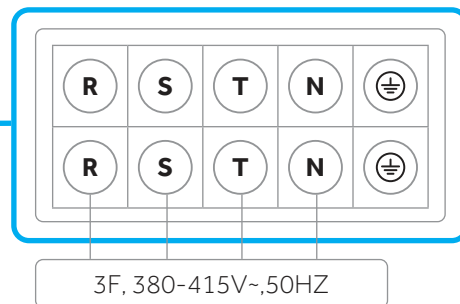
1F, 220-240V~, 50HZ

MONOBLOK SPOLJNA JEDINICA:

AW042MUGHA AW062MUGHA
AW082MUGHA AW102MUGHA
AW122MXGHA AW142MXGHA
AW162MXGHA

1.1. ELEKTRIČNO OŽIČENJE / PRIKLJUČCI

1.1.2 Trofazna instalacija - 3F spoljna jedinica



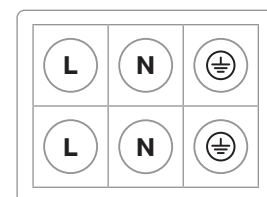
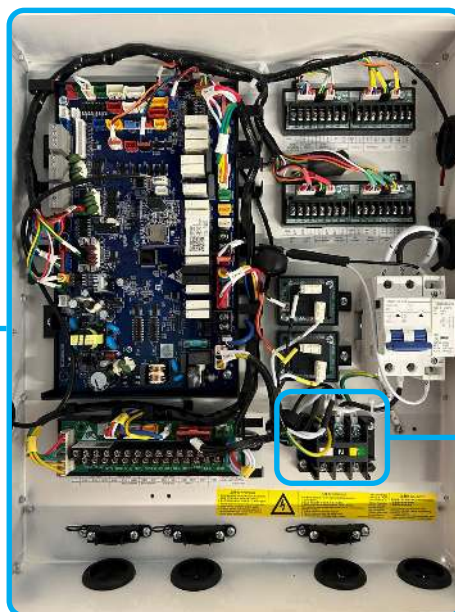
R = Linija 1
 S = Linija 2
 T = Linija 3
 N = Nula
 ⊕ = Uzemljenje

MONOBLOK SPOLJNA JEDINICA:
 AW10NMUGHA AW12NMUGHA
 AW14NMUGHA AW16NMUGHA

1.1.3. Električni priključak za ATW-A03 N – uvek jednofazni, 240 V



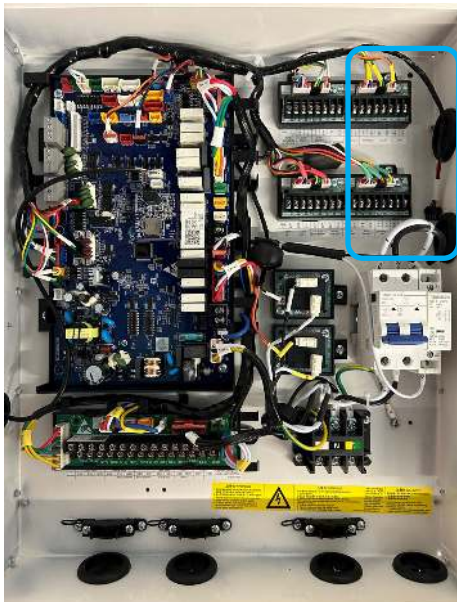
Unutrašnjost



L = Faza
 N = Nula
 ⊕ = Uzemljenje

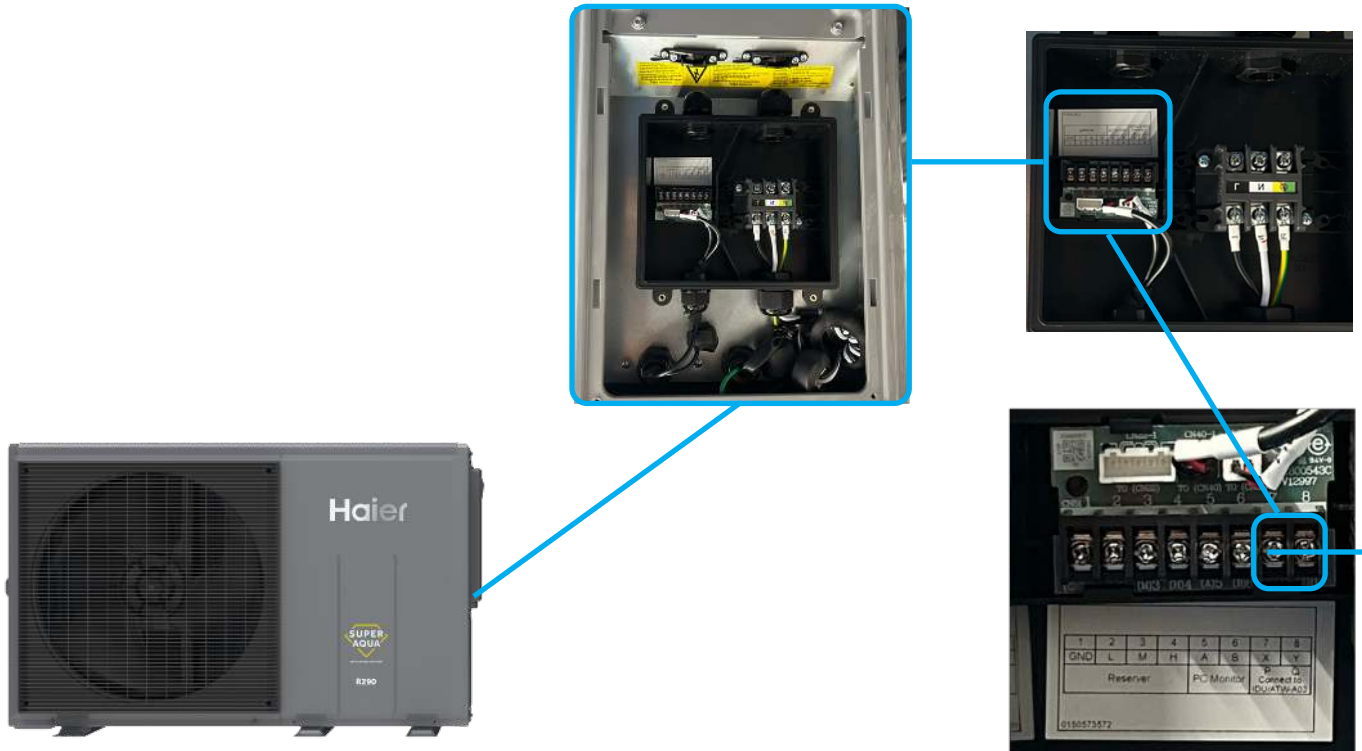


1.1.4 Povezivanje žičnog kontrolera

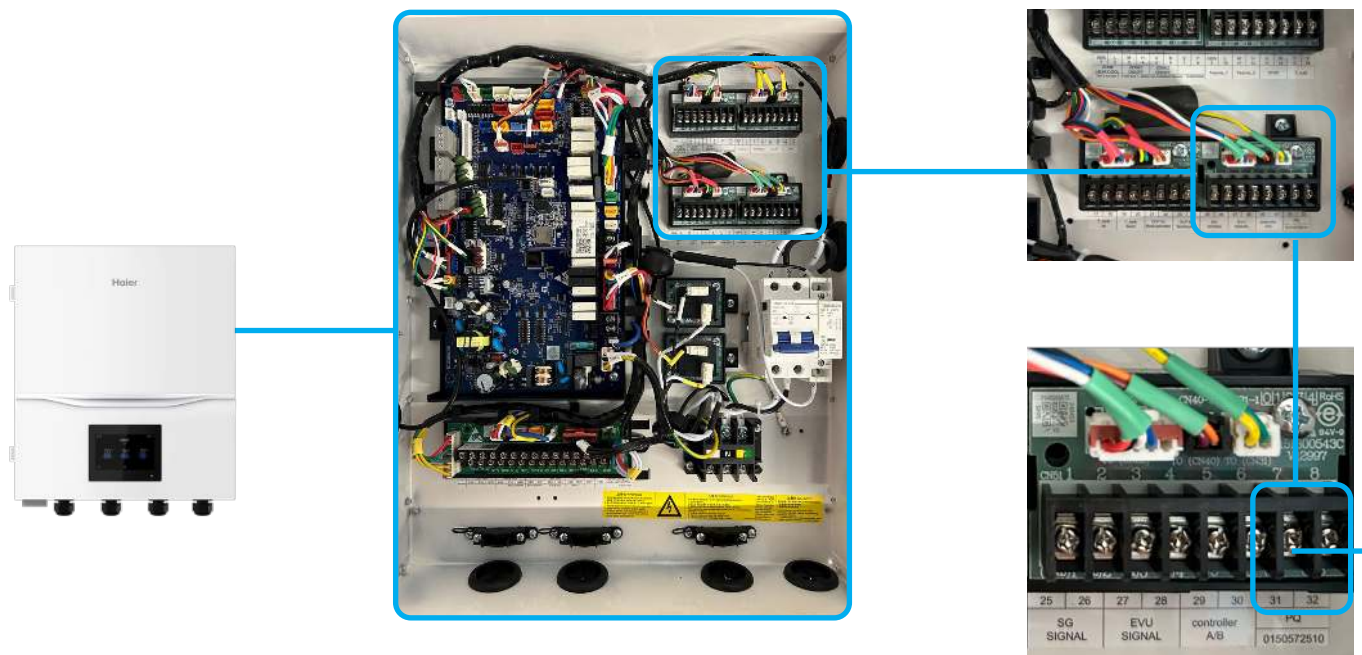


1.2. POVEZIVANJE IZMEĐU SPOLJNE JEDINICE I ATW-A03 N

Spoljna jedinica



Unutrašnja jedinica ATW-A03



Priključna ploča

Priključna ploča 1 - spoljna jedinica

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Rezervisano				Nadzor putem PC-ja		Kvalitet el. energije	

Priključna ploča 4 – unutrašnja jedinica ATW-A03

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG signal		EVU signal		Kontroler A/B		Kvalitet el. energije	

Povežite 2-žilni komunikacioni kabl sa priključka 7(X) i 8(Y) na ploči 1 spoljne jedinice do priključka 31 (X) i 32 (Y) na ploči 4 unutrašnje jedinice ATW-A03

Povezivanje između spoljne jedinice i ATW-A03N mora se izvršiti oklopljenim kablom dimenzija 2x0,75 mm.

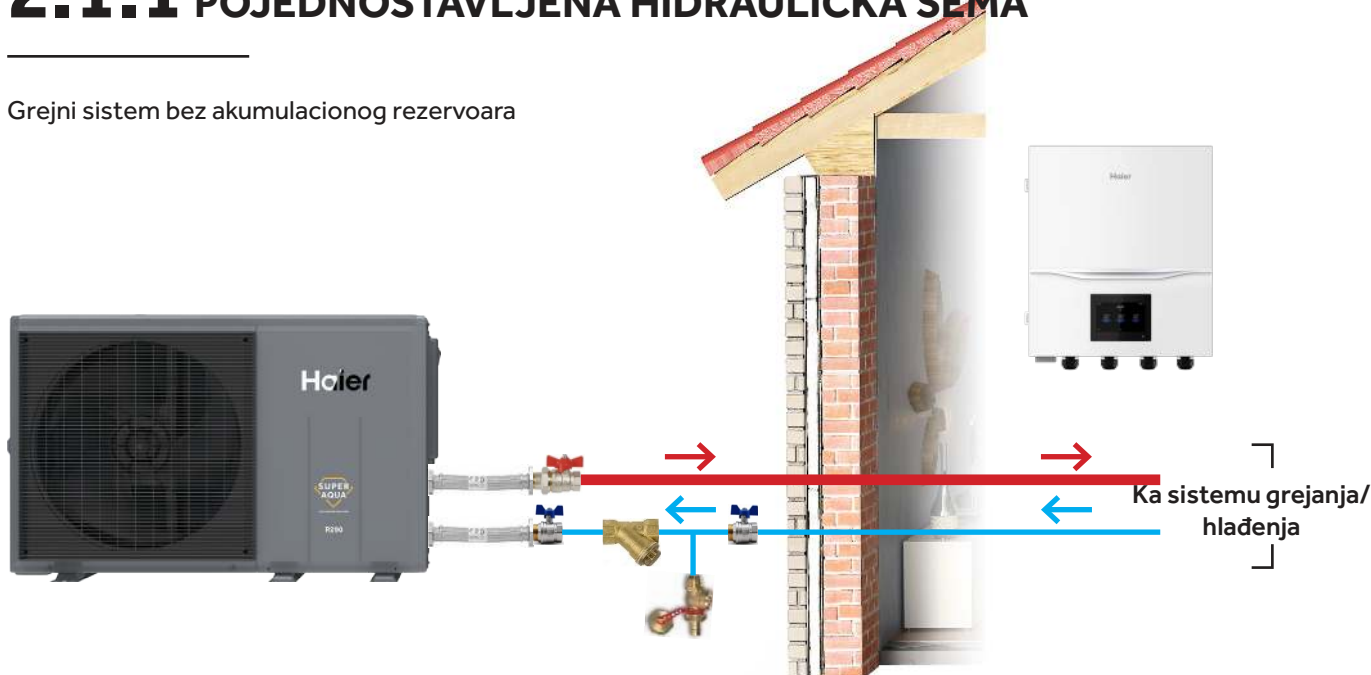
Napomena: u sredini plave štampane ploče nalazi se crveno i zeleno svetlo koje trepće ako je povezivanje ispravno. Ako LED lampica prestane da trepće, spoljna jedinica je isključena.

2.0. ZONA 01

2.1. ZONA 1 BEZ AKUMULACIONOG REZERVOARA

2.1.1 POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

Grejni sistem bez akumulacionog rezervoara



	Fleksibilno crevo		Odlazni vod
	Kuglasti ventil		Povratni vod
	Kuglasti ventil		
	Filter za vodu		
	Ispusni ventil		

SVE ŠEME I SVA DODATNA OPREMA Prikazani su samo kao primer instalacije i moraju se izvoditi u skladu sa lokalnim propisima.

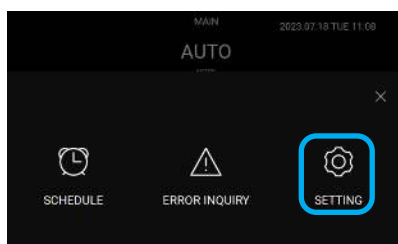
ZA ELEKTRIČNO POVEZIVANJE, POGLEDajte TAČKU 1.0.

2.1.2. Postavka kontrolera

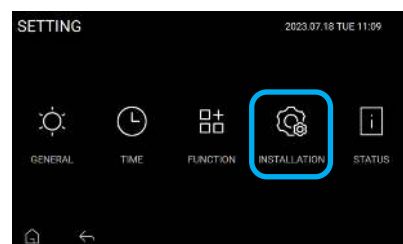
Glavne postavke instalacije opreme



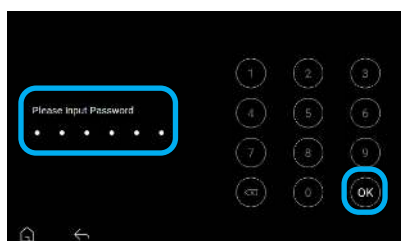
1



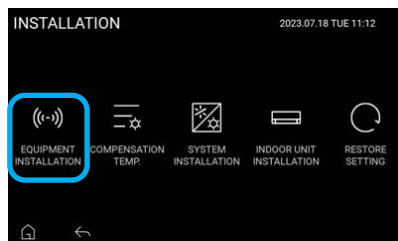
2



3



4 * Lozinka „841226“ OK



5



← UKLJUČENO

← ISKLJUČENO

← ISKLJUČENO

← ISKLJUČENO

*** IZABERITE UKLJUČENO DA AKTIVIRATE ZONU 1**

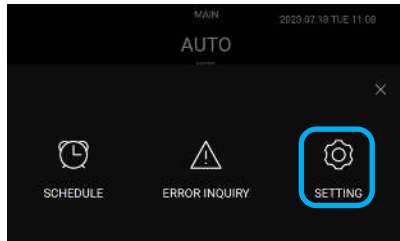
Funkcija	Granice parametra	Postavke
Zona 1	UKLJUČENO/ISKLJUČENO	UKLJUČENO

2.1.2. POSTAVKA KONTROLERA

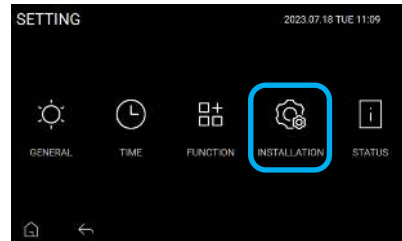
Glavne postavke instalacije sistema



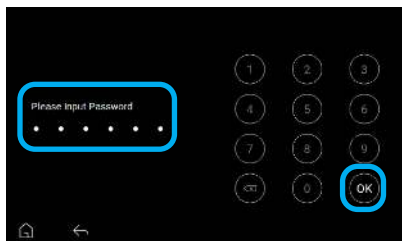
1



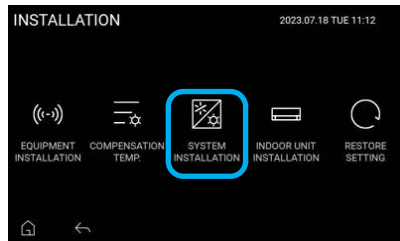
2



3



4 * Lozinka „841226“ OK



5

Glavne postavke instalacije opreme



← Glavni kontroler

* IZABERITE REŽIM KONTROLE ZA ZONU 1

Funkcija	Granice parametra	Postavke
Režim kontrole zone 1	Glavni kontroler, kontroler treće strane	Glavni kontroler

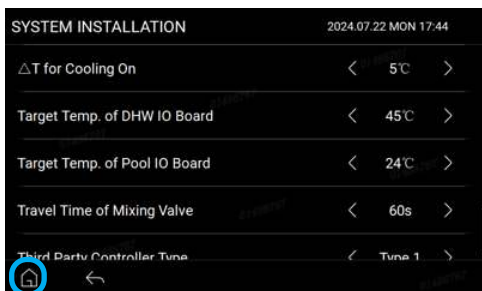


← 27°C

← 6°C

*UNESITE DELTA T° ZA UKLJUČENO GREJANJE

Funkcija	Granice parametra	Postavke
ΔT za uključivanje grejanja	0 - 15 °C	6 °C



← 5°C

*UNESITE DELTA T° ZA UKLJUČENO HLAĐENJE

Pritisnite ikonicu kuće za povratak u glavni meni

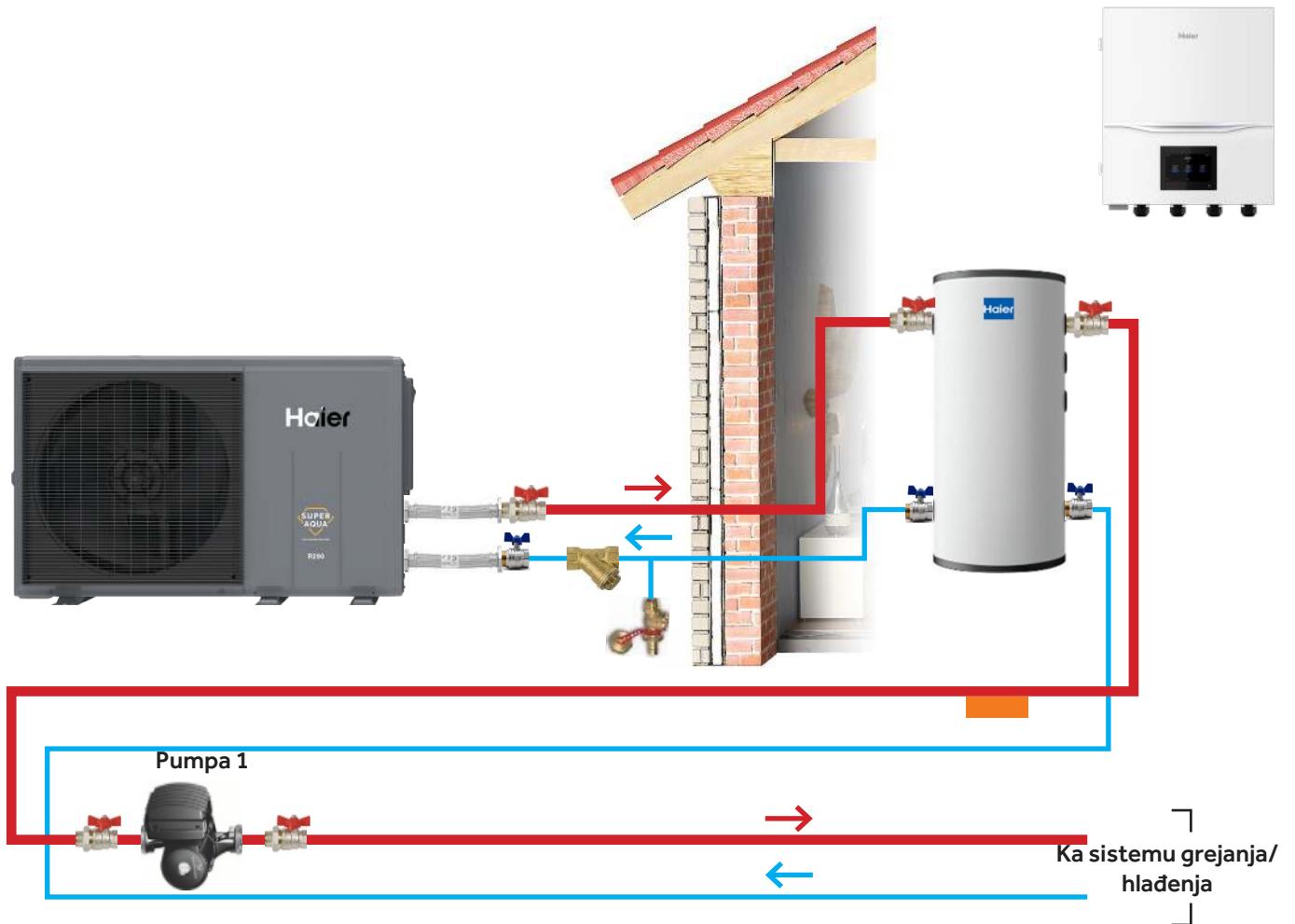
Funkcija	Granice parametra	Postavke
ΔT za uključivanje hlađenja	0 - 15 °C	5 °C

*PARAMETRI KOJE TREBA PROMENITI OBELEŽENI SU PLAVOM BOJOM.

2.2. ZONA 1 SA AKUMULACIONIM REZERVOAROM

2.2.1. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

2.2.1. Samo grejanje, sa akumulacionim rezervoarom i hidrauličkim razdvajanjem



	Fleksibilno crevo		Akumulacioni rezervoar
	Kuglasti ventil		Pumpa za vodu
	Kuglasti ventil		Odlazni vod
	Filter za vodu		Povratni vod
	Ispusni ventil		

**SVE ŠEME I SVA DODATNA OPREMA
PRIKAZANI SU SAMO KAO PRIMER
INSTALACIJE I MORAJU SE IZVODITI U
SKLADU SA LOKALNIM PROPISIMA.**

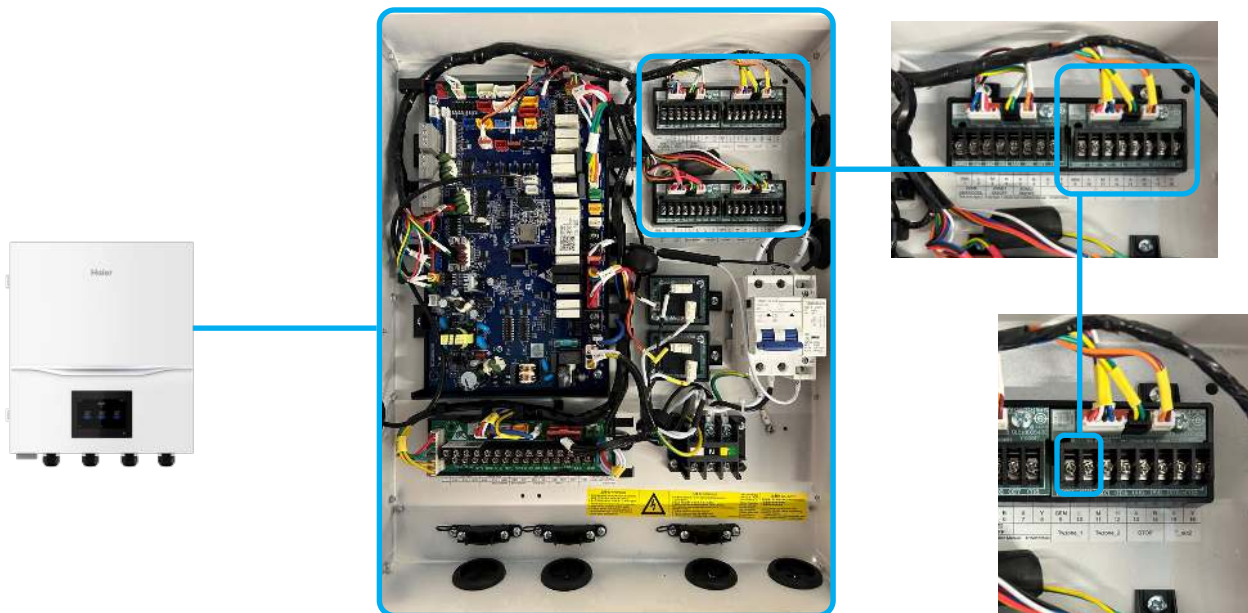
**ZA ELEKTRIČNO POVEZIVANJE,
POGLEDAJTE TAČKU 1.0.**

Napomena: Minimalna zapremina sistema je obavezna za rad jedinice, pogledajte dodatak na kraju priručnika.

2.2.2. POVEZIVANJE

Senzor temperature vode (TW) za zonu 1

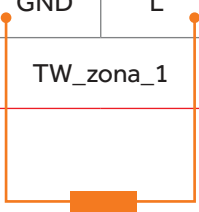
Svi priključci na priključnim pločama 1, 2, 3 i 4 izvedeni su pomoću vijčanih stezaljki.



Priključna ploča
2

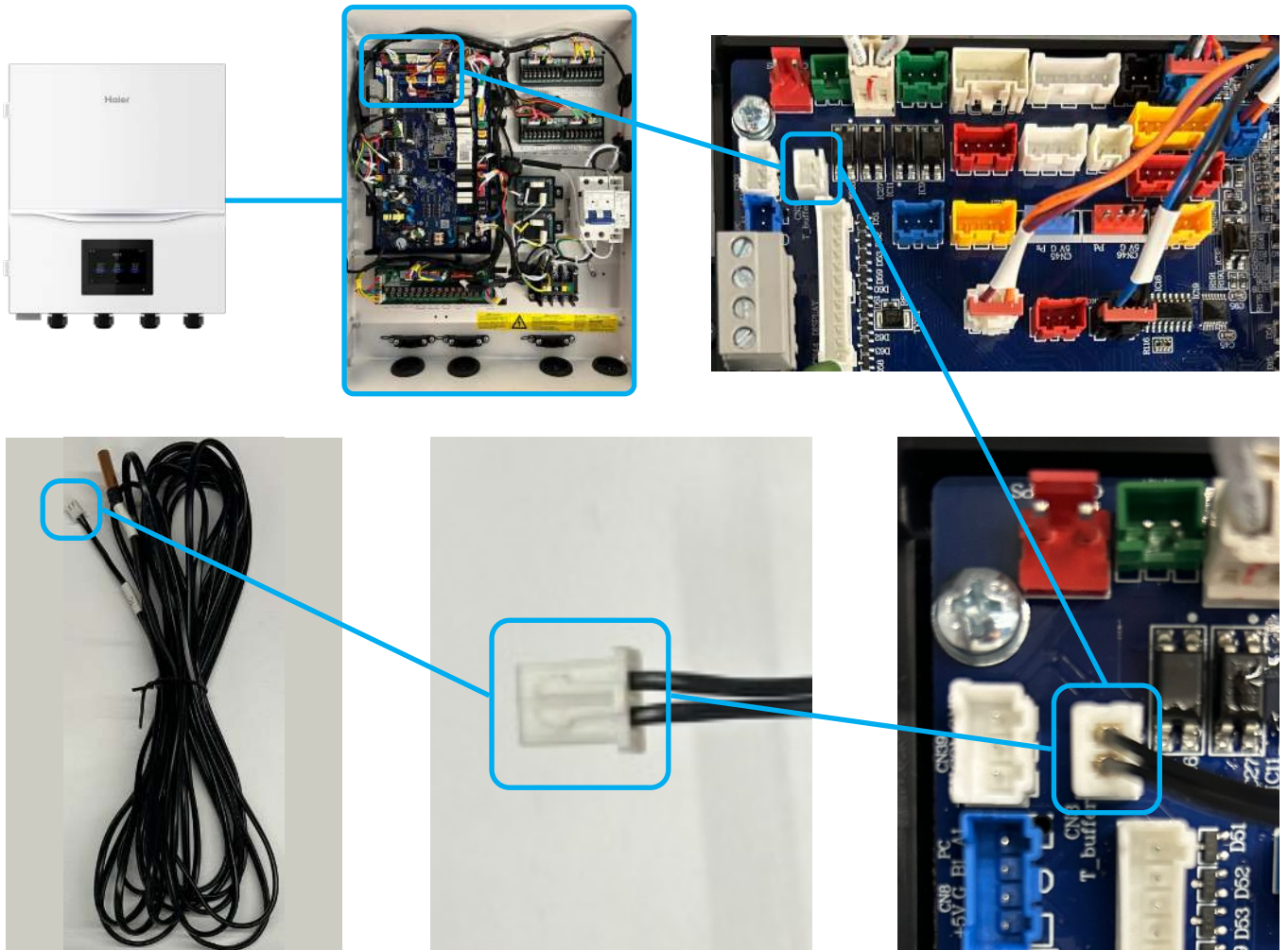
Priključna ploča

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zona_1		TW_zona_2		STOP		T_out2	



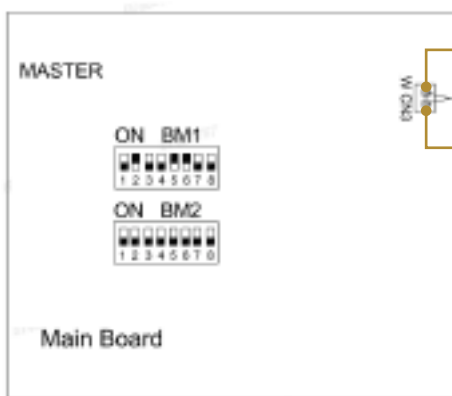
NAPOMENA: MOŽETE KORISTITI ILI SENZOR ZONE 1 (TW_ZONA 1) ILI SENZORE ZA VODU U SPOLJNJOJ JEDINICI ZA KONTROLU TOPLOTNE PUMPE.

2.2.2. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA



* Morate koristiti senzor s belim konektorom.

*** SENZOR TEMPERATURE ZA AKUMULACIONI REZERVOAR NIJE OBAVEZAN**



Na glavnoj štampanoj ploči, u konektor CN3 može se povezati senzor temperature vode za akumulacioni rezervoar.

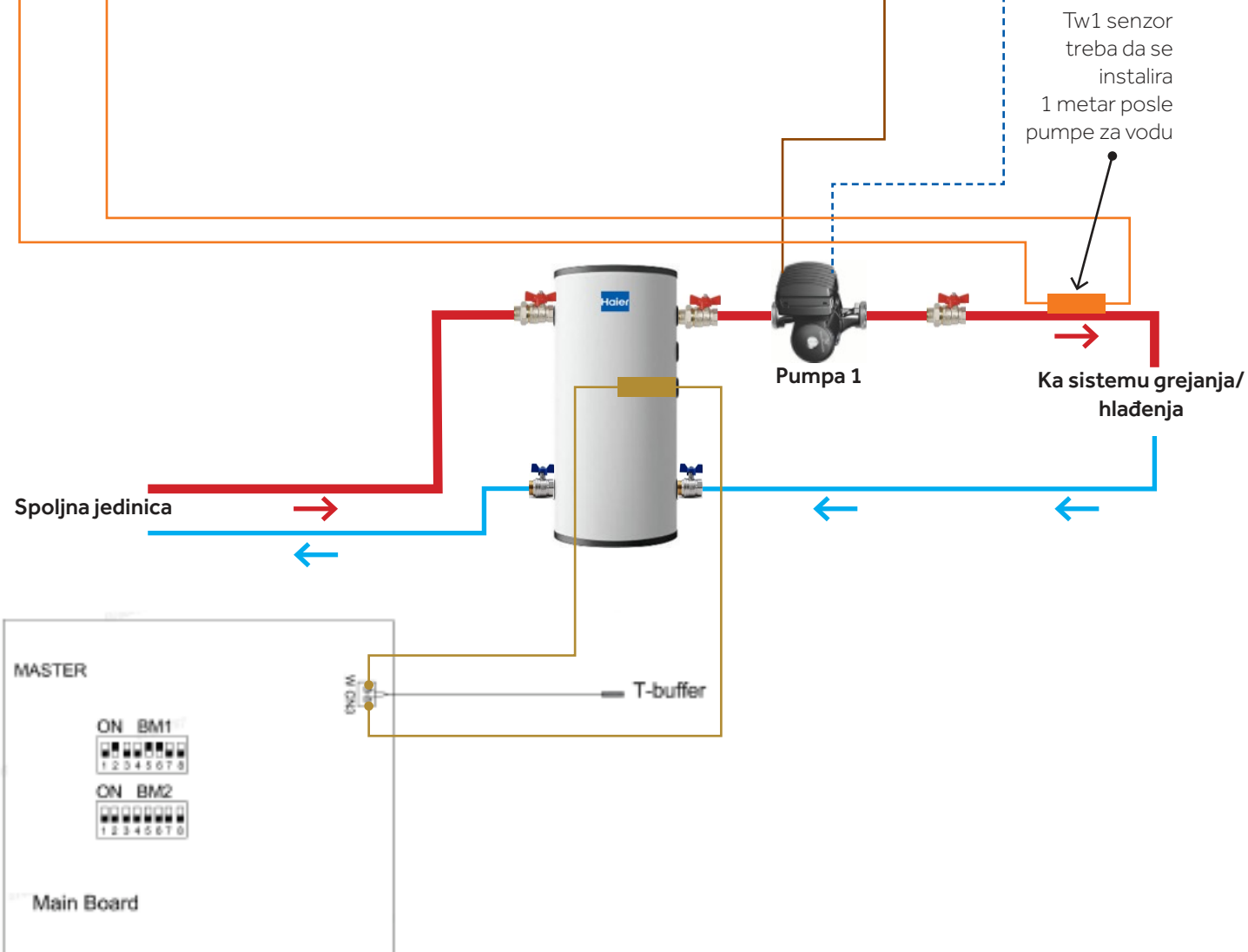


JEDINICU JE MOGUĆE PODESITI DA REGULIŠE SAMO TEMPERATURU AKUMULACIONOG REZERVOARA. AKO TO ŽELITE, MOŽETE INSTALIRATI SENZOR ZA KONTROLU AKUMULACIONOG REZERVOARA.

2.2.3. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1	Tw zone_2	STOP			T_out2		

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N						
				Heater 1		Heater 2		Boiler		Error			



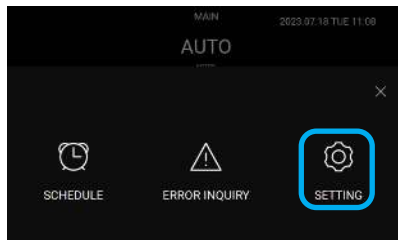
	Akumulacioni rezervoar		Senzor temp. vode u rezervoaru
	Kuglasti ventil		Senzor temp. vode u Tw zona 1
	Kuglasti ventil		Odlazni vod
	Pumpa za vodu		Povratni vod
	Nula		Faza

2.2.4. POSTAVKE KONTROLERA

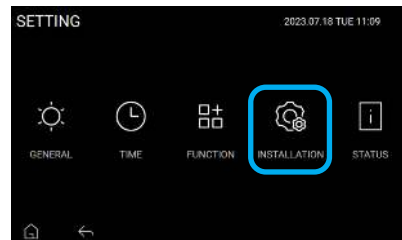
Glavne postavke instalacije opreme



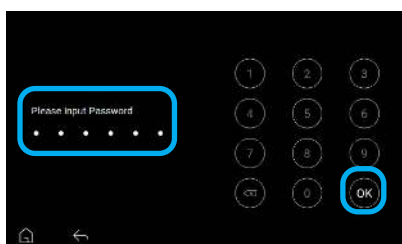
1



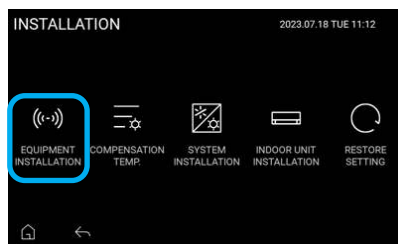
2



3



4 * Lozinka „841226“ OK



5



← UKLJUČENO

← ISKLJUČENO

← ISKLJUČENO

← UKLJUČENO

* IZABERITE UKLJUČENO DA AKTIVIRATE ZONU 1

* IZABERITE UKLJUČENO DA AKTIVIRATE AKUMULACIONI REZERVOAR

Pritisnite ikonicu kuće za povratak u glavni meni

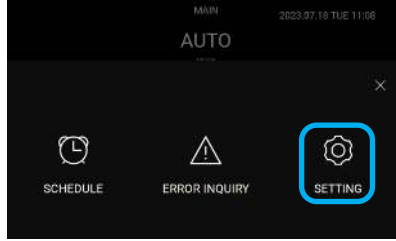
Funkcija	Granice parametra	Postavke
Zona 1	UKLJUČENO/ISKLJUČENO	UKLJUČENO
Akumulacioni rezervoar	UKLJUČENO/ISKLJUČENO	UKLJUČENO

2.2.4. POSTAVKE KONTROLERA

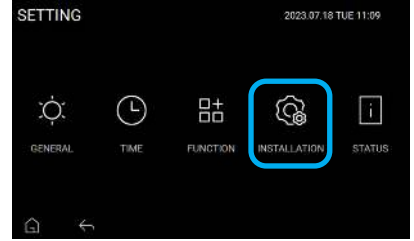
Glavne postavke instalacije sistema



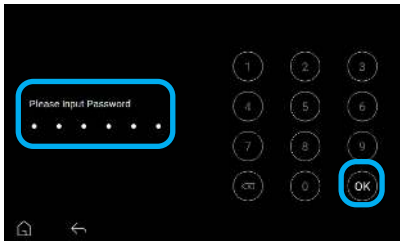
1



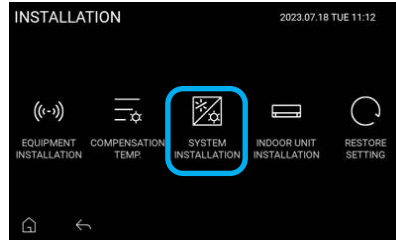
2



3



4 * Lozinka „841226“ OK



5



← Glavni kontroler

* IZABERITE REŽIM KONTROLE ZA ZONU 1

← Glavni kontroler

← Glavni kontroler

← Glavni kontroler

Funkcija	Granice parametra	Postavke
Režim kontrole zone 1	Glavni kontroler, kontroler treće strane	Glavni kontroler



← 45°C

← 27°C

← 6°C

← 0°C

*UNESITE DELTA T° ZA UKLJUČENO GREJANJE

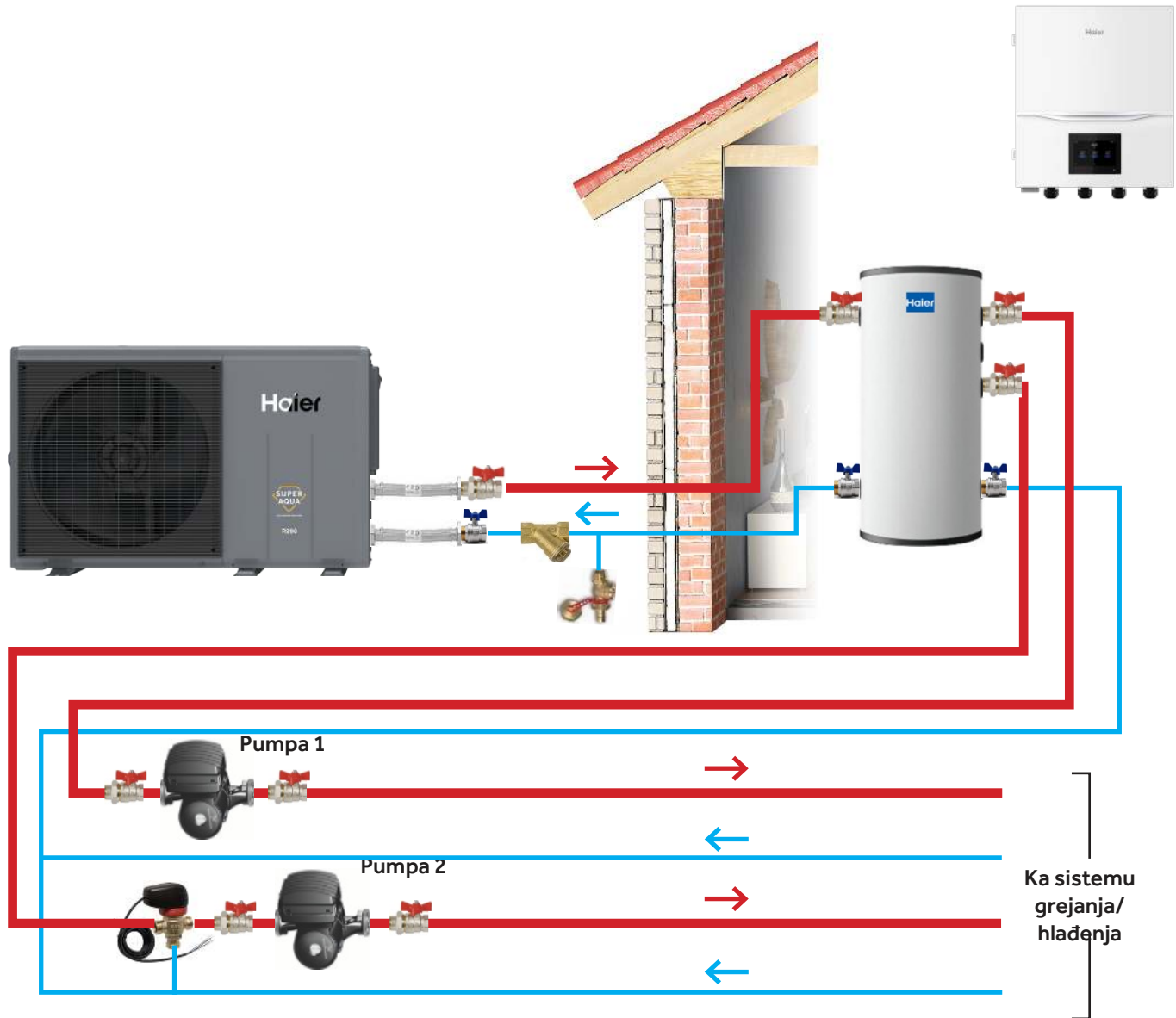
Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
ΔT za uključivanje grejanja	0 - 15°C	6°C

3.0. ZONA 2 - VIŠE ZONA

3.1. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

Samo grejanje više zona



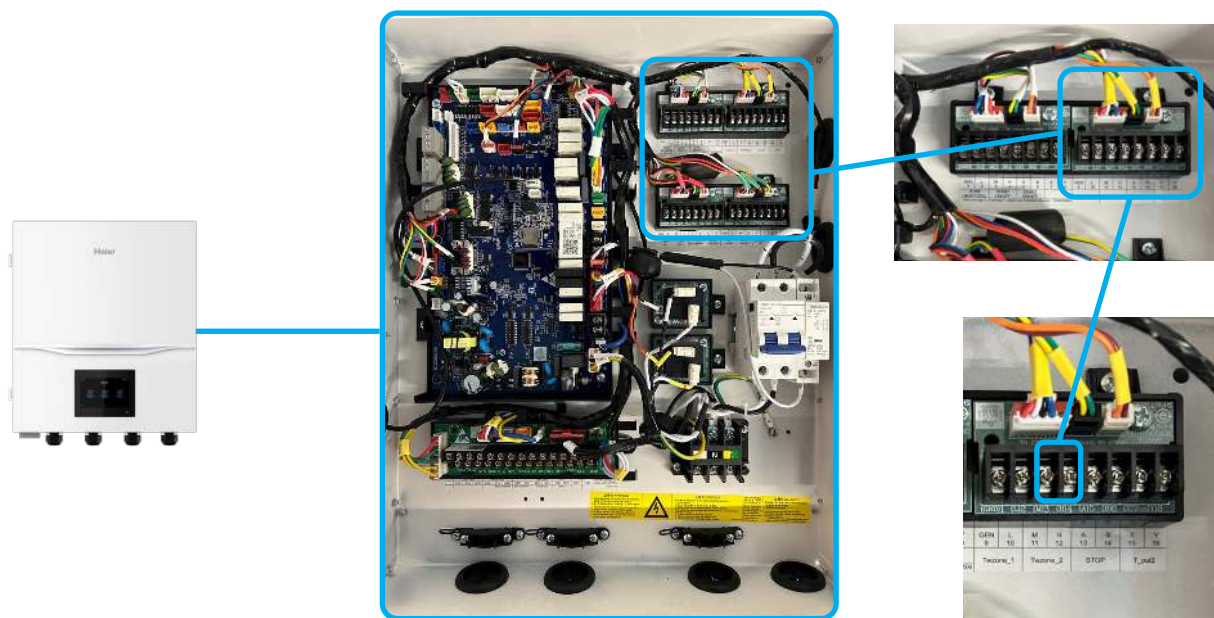
	Fleksibilno crevo		Akumulacioni rezervoar
	Kuglasti ventil		Pumpa za vodu
	Kuglasti ventil		Ventil za mešanje
	Filter za vodu		Odlazni vod
	Ispusni ventil		Povratni vod

SVE ŠEME I SVA DODATNA OPREMA Prikazani su samo kao primer instalacije i moraju se izvoditi u skladu sa lokalnim propisima.

ZA ELEKTRIČNO POVEZIVANJE, POGLEDAJTE TAČKU 1.0.

RAD PUMPI 1, 2 ITD. AKTIVIRA SE SPOLJNIM SIGNALIMA. TOPLOTNA PUMPA ZAGREVA AKUMULACIONI REZERVOAR. VENTILI I PUMPE IZA REZERVOARA KONTROLIŠU SE SPOLJNIM TERMOSTATIMA PUTEM KOMANDNIH SIGNALA.

3.2. SENZOR TEMPERATURE VODE (TW) ZA ZONU 2



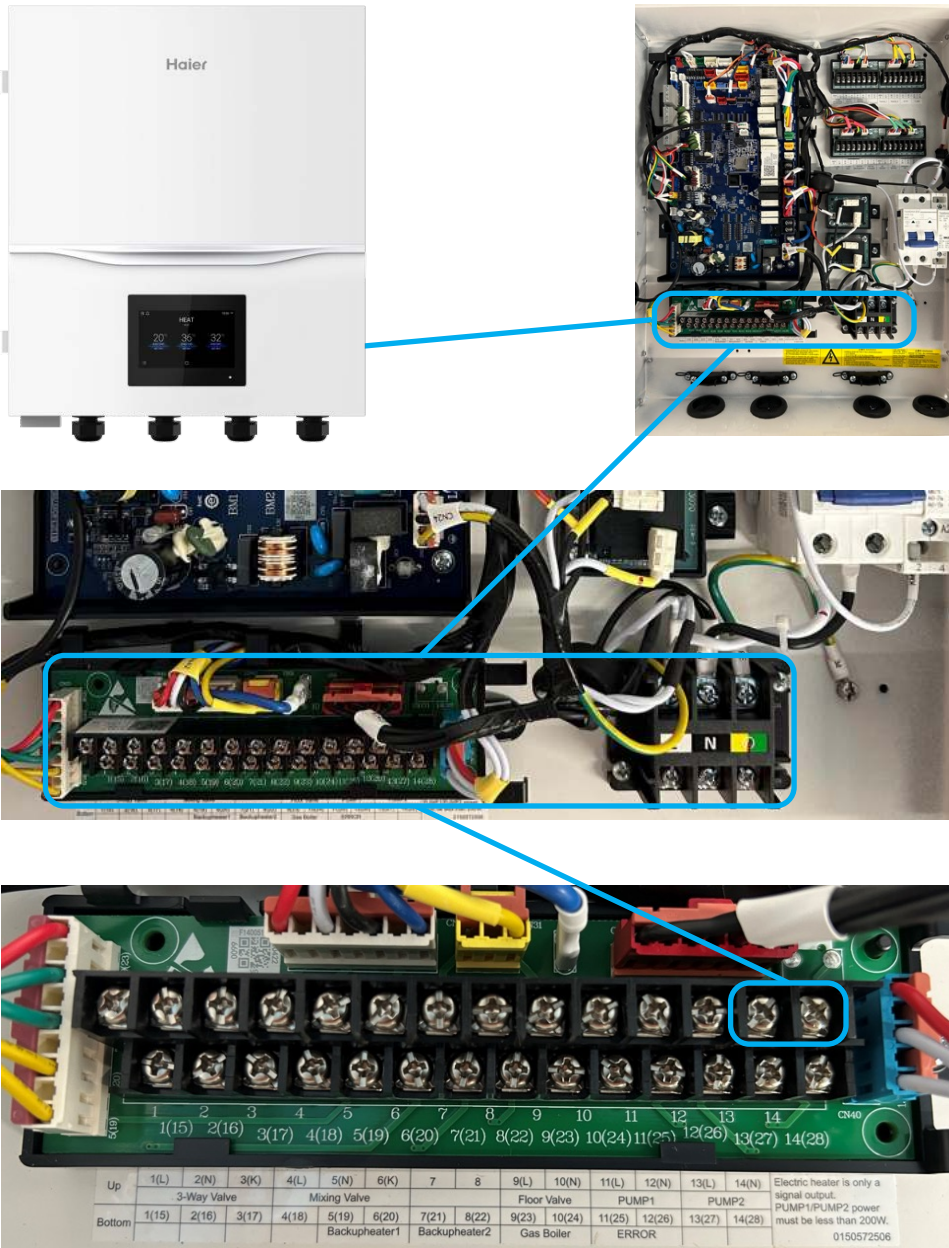
Priključna ploča
2

Priključna ploča

9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
TW_zona_1		TW_zona_2		STOP		T_out2	

Na priključnoj ploči broj 2, između priključaka 11 (M) i 12 (H), možemo povezati senzor temperature vode za zonu 2.

Vodena pumpa za zonu 2



Priključna ploča 5

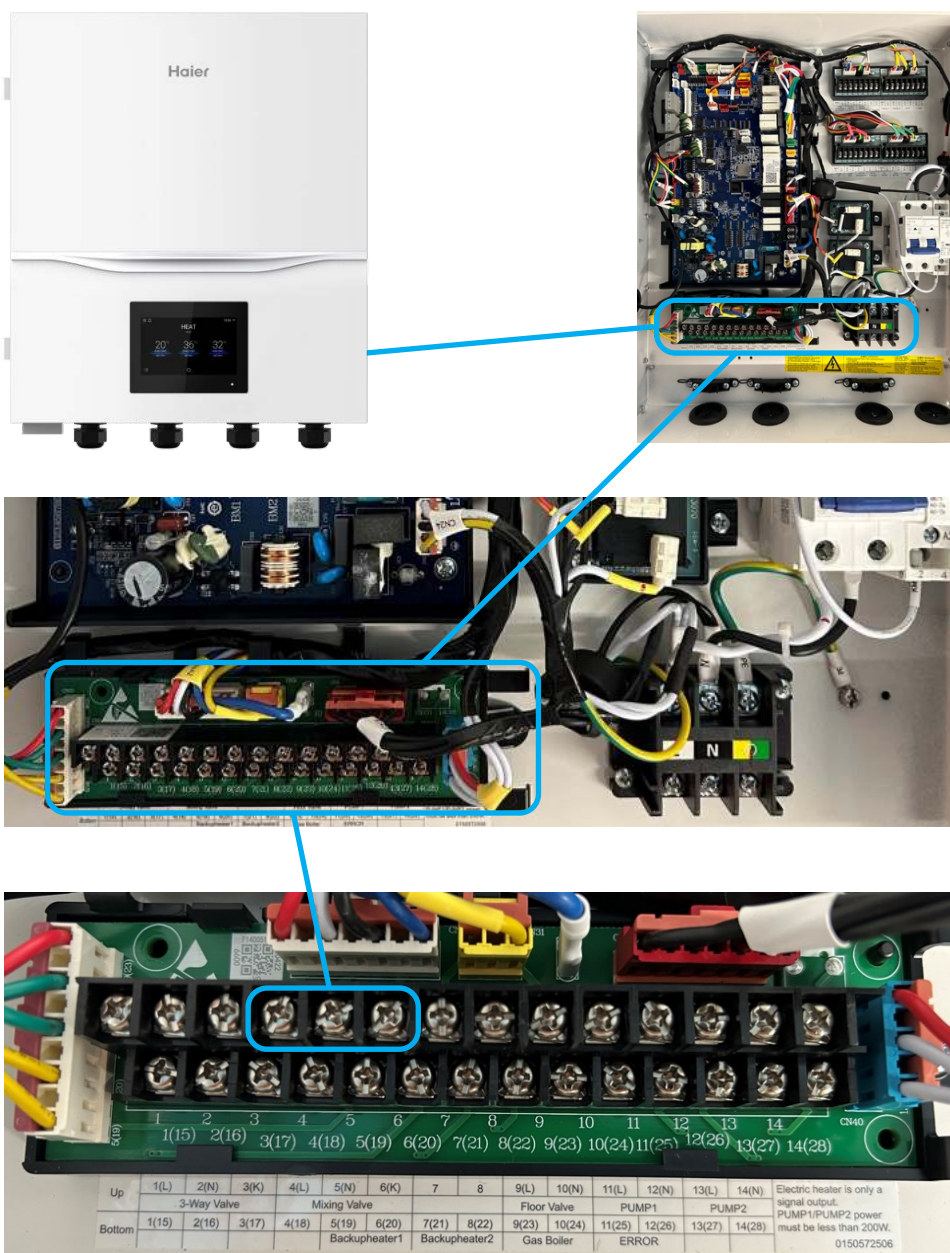
* Svi priključci na priključnoj ploči 5 izvedeni su pomoću vijčanih stezaljki.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N			Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

Na priključnoj ploči broj 5, između priključaka 13 (faza) i 14 (nula), možemo povezati vodenu pumpu za zonu 1. Na ovom priključku imamo izlazni napon od 230 V AC. Maksimalna električna snaga koju ovaj kontakt može da podnese iznosi 200 W.



Ventil za mešanje za zonu 2



Priključna ploča 5

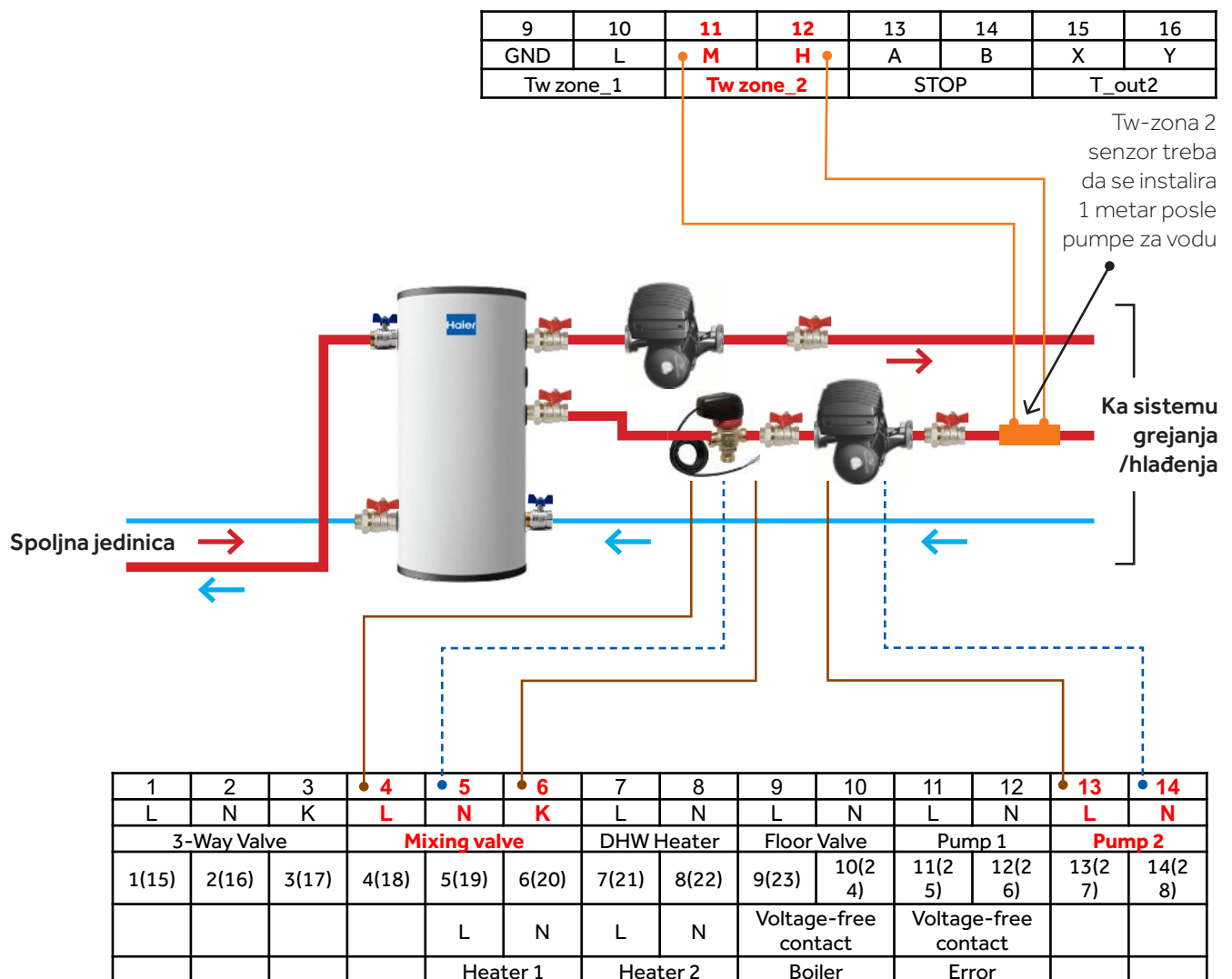
* Svi priključci na priključnoj ploči 5 izvedeni su pomoću vijčanih stezaljki.

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			Floor Valve		Pump 1		Pump 2			
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact		Voltage-free contact			
			Heater 1			Heater 2		Boiler		Error			



Na priključnoj ploči broj 5, između priključaka 4 (L), 5 (N) i 6 (K), možemo povezati ventil za mešanje za zonu 2. Na ovom priključku imamo izlazni napon od 230 V AC između 4 (L – faza) i 5 (N – nula) za zatvaranje ventila; 230 V AC između 6 (K – faza) i 5 (N – nula) za otvaranje ventila.

3.3. POJEDNOSTAVLJENA ŠEMA POVEZIVANJA



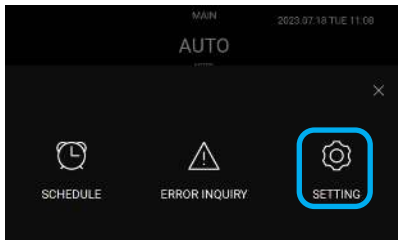
	Akumulacioni rezervoar		Senzor temp. vode u Tw zona 2
	Kuglasti ventil		Odlazni vod
	Kuglasti ventil		Povratni vod
	Pumpa za vodu		Faza
	Ventil za mešanje		Nula

3.4. POSTAVKE KONTROLERA

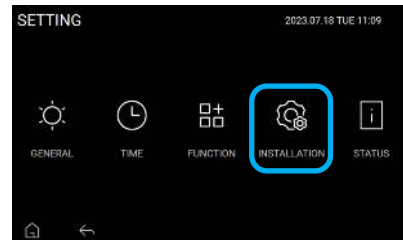
Glavne postavke instalacije opreme



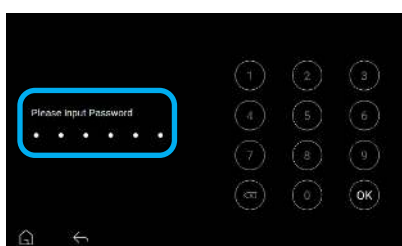
1



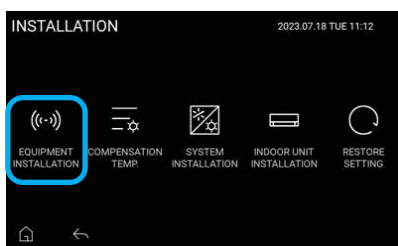
2



3



4 * Lozinka „841226”



5



← UKLJUČENO

* IZABERITE REŽIM KONTROLE ZA ZONU 1

← UKLJUČENO

* IZABERITE REŽIM KONTROLE ZA ZONU 2

← ISKLJUČENO

← ISKLJUČENO

Funkcija	Granice parametra	Postavke
Zona 1	UKLJUČENO/ISKLJUČENO	UKLJUČENO
Zona 2	UKLJUČENO/ISKLJUČENO	UKLJUČENO



← UKLJUČENO

* IZABERITE UKLJUČENO DA AKUMULACIONI REZERVOAR BUDE OBUHVAĆEN

← ISKLJUČENO

← UKLJUČENO

* IZABERITE UKLJUČENO DA DOZVOLITE REŽIM HLAĐENJA

← ISKLJUČENO

* IZABERITE UKLJUČENO DA DOZVOLITE REŽIM HLAĐENJA ZONE 2

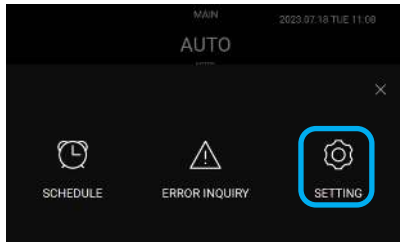
Funkcija	Granice parametra	Postavke
Akumulacioni rezervoar	UKLJUČENO/ISKLJUČENO	UKLJUČENO
Dozvoli režim hlađenja	UKLJUČENO/ISKLJUČENO	UKLJUČENO
Dozvoli režim hlađenja zona 2	UKLJUČENO/ISKLJUČENO	ISKLJUČENO

* PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.

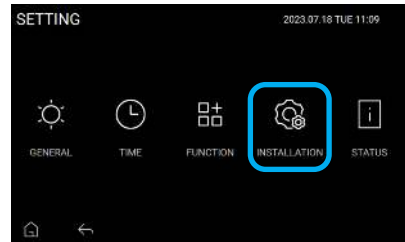
Glavne postavke instalacije sistema



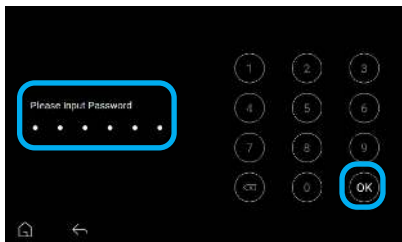
1



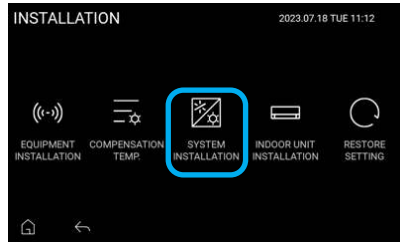
2



3



4 * Lozinka „841226“ OK



5



← Glavni kontroler

* IZABERITE REŽIM KONTROLE ZA ZONU 1

← Glavni kontroler

* IZABERITE REŽIM KONTROLE ZA ZONU 2

← Glavni kontroler

← Glavni kontroler

Funkcija	Granice parametra	Postavke
Režim kontrole zone 1	Glavni kontroler, kontroler treće strane, senzor sobne temp. unutrašnje jedinice	Glavni kontroler
Kontrolni režim zone 2	Glavni kontroler, kontroler treće strane	Glavni kontroler



← 45°C

← 27°C

← 6°C

← 0°C

*UNESITE DELTA T° ZA UKLJUČENO GREJANJE

Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
ΔT za uključivanje grejanja	0 - 15°C	6°C

OVE POSTAVKE SE NALAZE DVE STRANICE NIŽE.



***UNESITE TEMPERATURU SANITARNE TOPLE VODE**



Funkcija	Granice parametra	Postavke
Vreme hoda ventila za mešanje	30–240 s	60 s

*** PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.**

4.0. SANITARNA TOPLA VODA

4.1. INSTALACIJA DHW (SANITARNA TOPLA VODA)

4.1.1. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

Samo sanitarna topla voda (DHW)



	Fleksibilno crevo		Rezervoar DHW
	Kuglasti ventil		Električni grejač DHW
	Kuglasti ventil		Odlazni vod
	Filter za vodu		Povratni vod
	Ispusni ventil		

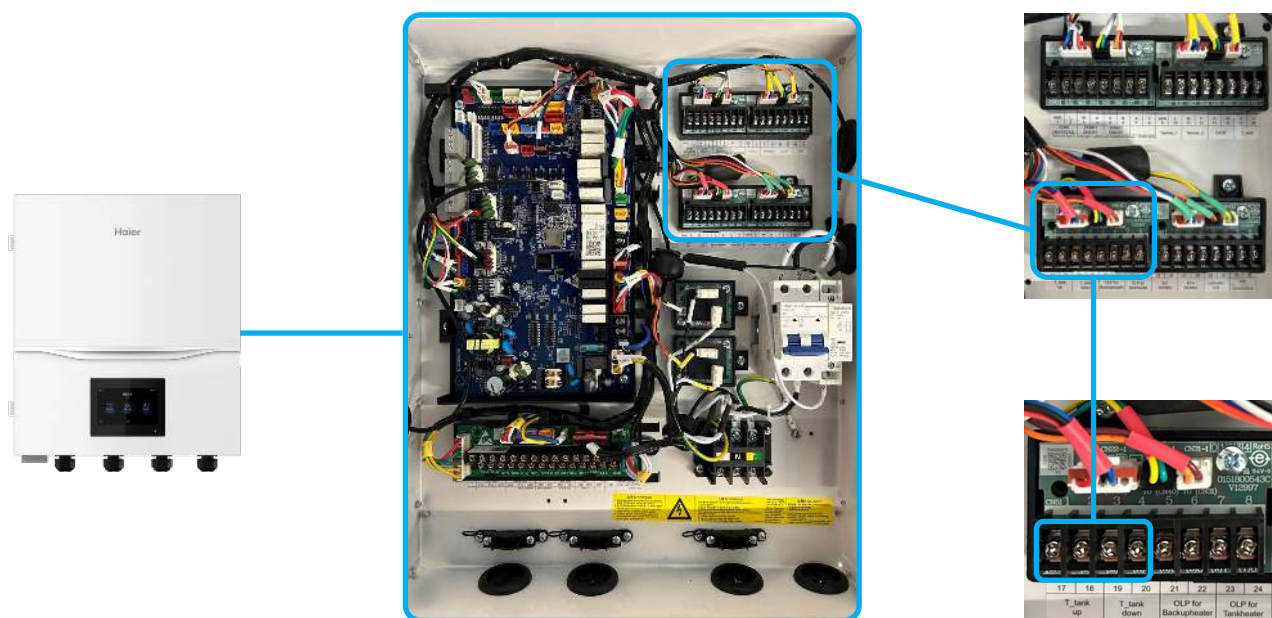
SVE ŠEME I SVA DODATNA OPREMA PRIKAZANI SU SAMO KAO PRIMER INSTALACIJE I MORAJU SE IZVODITI U SKLADU SA LOKALNIM PROPISIMA.

ZA ELEKTRIČNO POVEZIVANJE, POGLEDAJTE TAČKU 1.0.

Pojavljuje se greška E10 ako senzor bojlera nije priključen u sistem.

4.1.2. POVEZIVANJE

Povezivanje senzora temperature vode



Priključna ploča
3

Priključna ploča

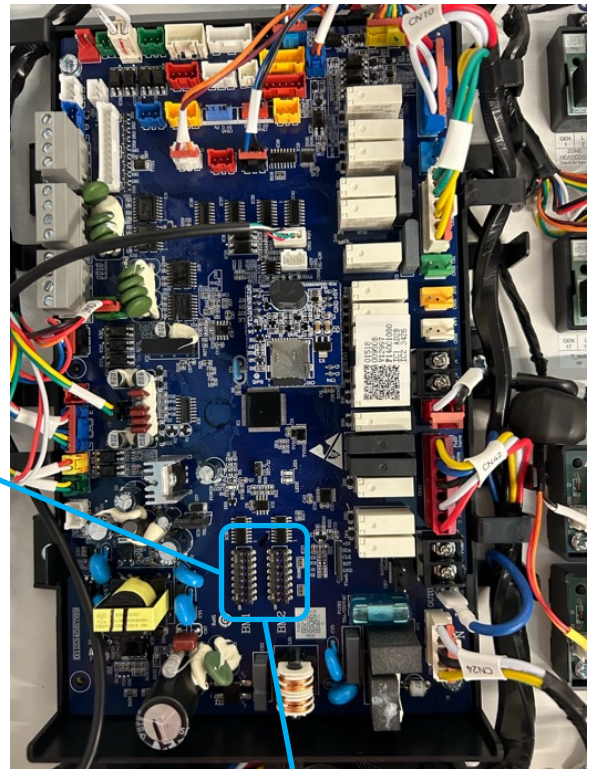
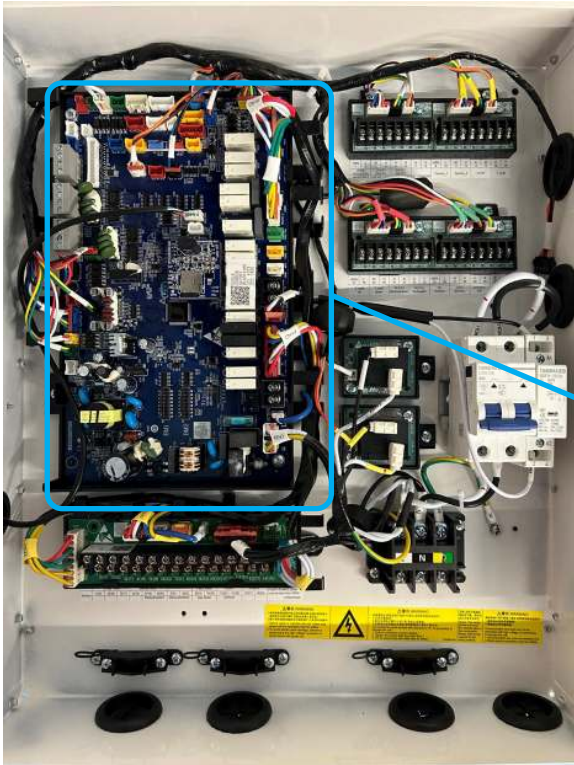
17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_tank up		T_tank down		Pomoćni OLP Grejač		OLP za grejač rezervoara	

Na priključnoj ploči broj 3, između priključaka 17 (GND) i 18 (L), moramo povezati senzor temperature vode T_tank up za rezervoar sanitarne tople vode, koji treba da bude instaliran u gornjem delu rezervoara.

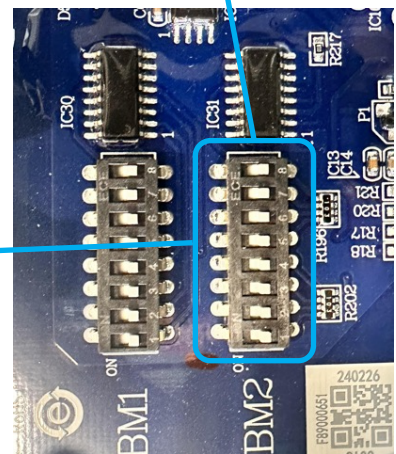
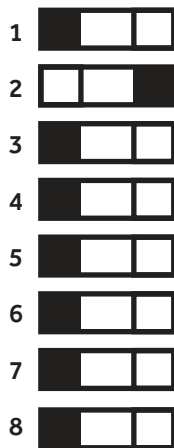
Na priključnoj ploči broj 3, između priključaka 19 (M) i 20 (H), moramo povezati senzor temperature vode T_tank down za rezervoar sanitarne tople vode, koji treba da bude instaliran u donjem delu rezervoara.

* Ako rezervoar sanitarne tople vode ima samo jedan džep za merenje temperature vode, koristite samo T-tank up. Potrebno je promeniti položaj prekidača BM2 na ATW-A03 N kako bi se izbegla greška E10 – nedostaje senzor temperature.

Postavka prekidača - 1 senzor za DHW



BIM 2
 ISKLJUČENO (0) UKLJUČENO (1)

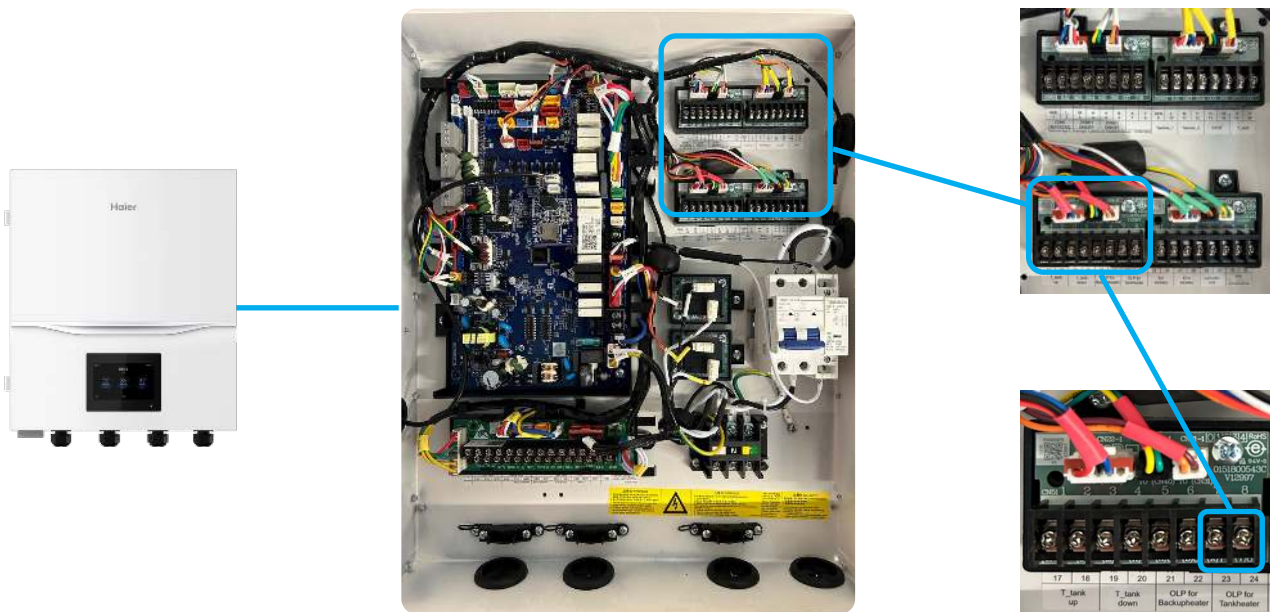


BM2	Rezervoar za vodu Senzor izbor	(2)	Izbor senzora rezervoara za vodu
		UKLJUČENO (1)	Samo 1 senzor, T_tank up
		ISKLJUČENO (0)	2 senzora, T_tank up i T_tank down (podrazumevano)

Ako se u instalaciji koristi jedan senzor za DHW, podesite prekidač 2 na BM2 u položaj UKLJUČENO.

Napomena: Morate isključiti uređaj na 60 sekundi pre nego što pomerite DIP prekidače, jer promena neće biti prepoznata ako je uređaj pod naponom.

Priključak za povratni zaštitni signal električnog grejača rezervoara (OLP)



Priključna ploča
3

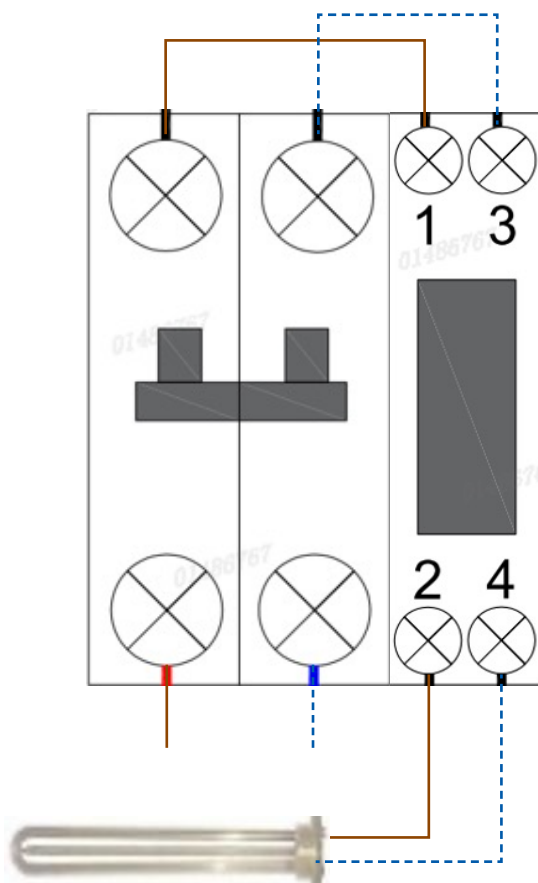
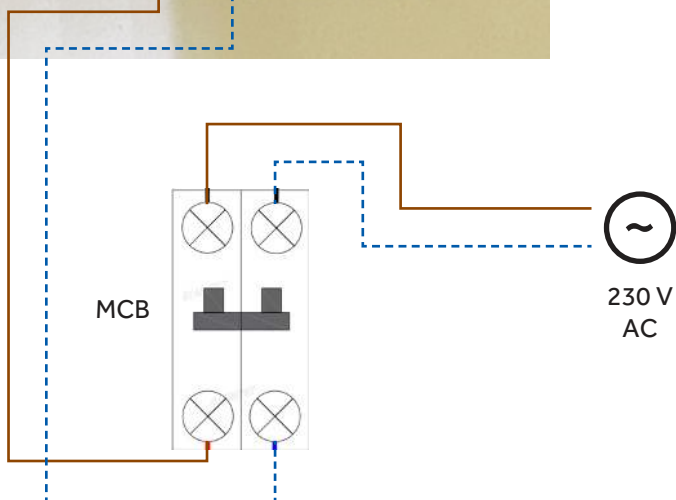
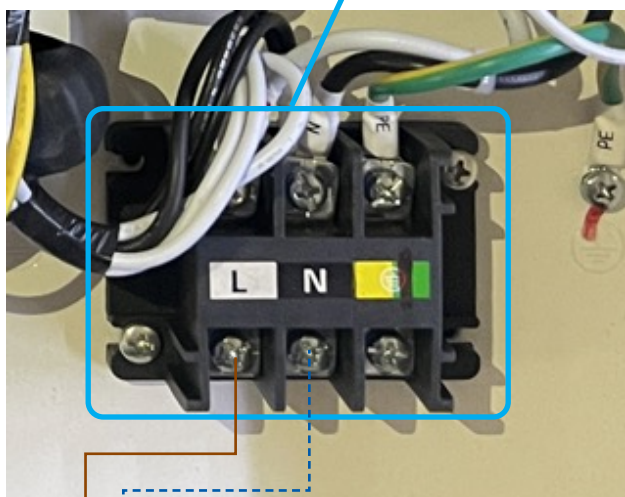
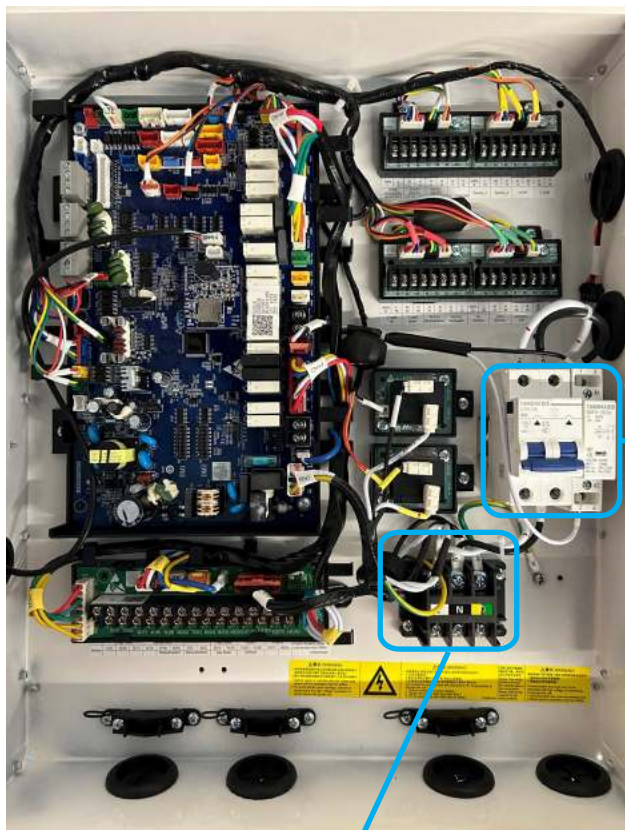
Priključna ploča

17	18	19	20	21	22	23	24
GND	L	M	H	A		X	Y
T_tank up		T_tank down		Pomoćni OLP Grejač		OLP za grejač rezervoara	

Na priključnoj ploči broj 3, između priključaka 23 (X) i 24 (Y), povezati OLP za grejač rezervoara.

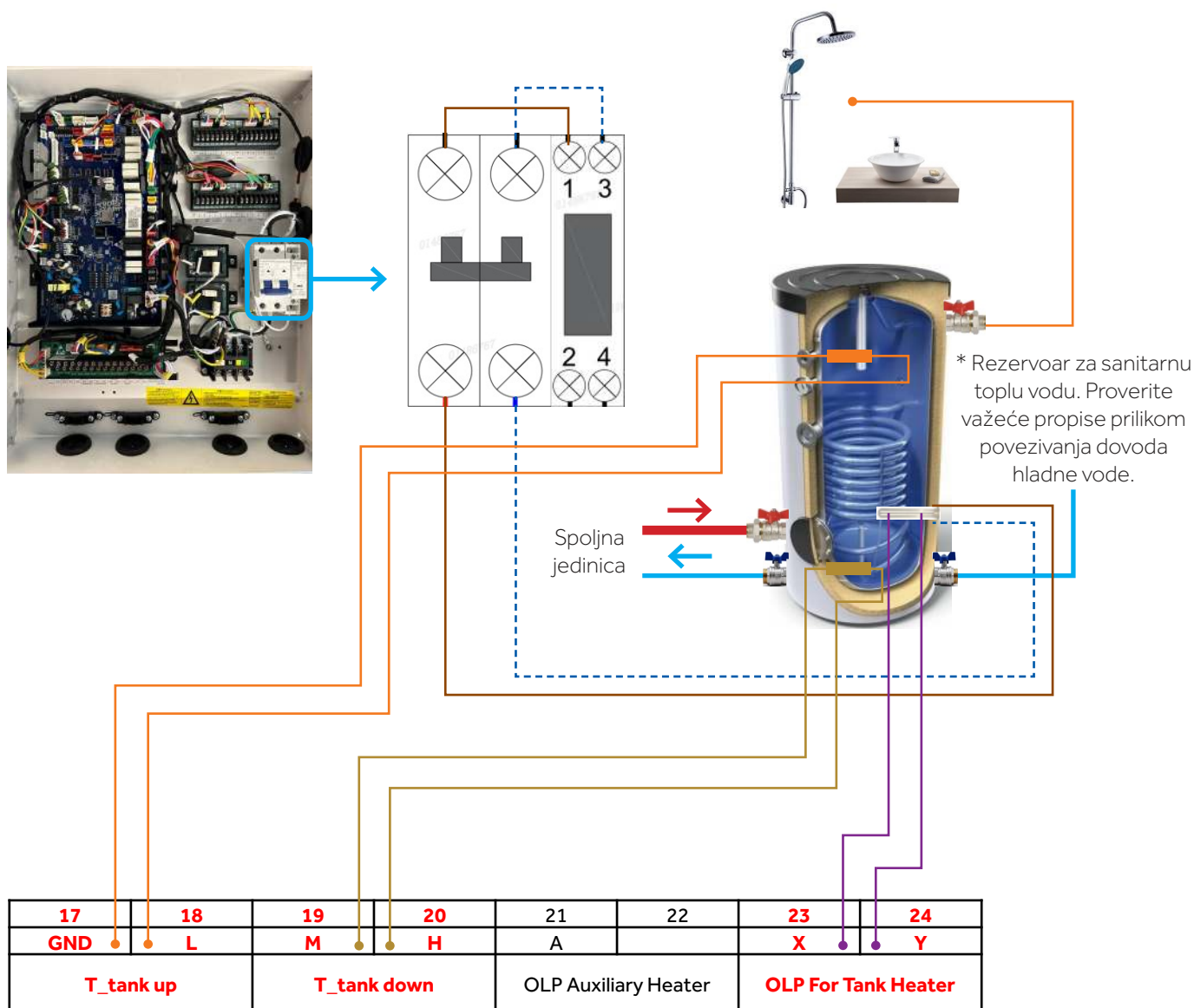
Na priključnoj ploči broj 3, između priključaka 23 (X) i 24 (Y), moramo povezati zaštitu električnog grejača za rezervoar DHW. Ovo je zatvoren kontakt bez napona u normalnom stanju, što znači da kada je kontakt zatvoren – nema greške; kada je otvoren – dolazi do greške.

Električni grejač



4.1.3. POJEDNOSTAVLJENA ŠEMA POVEZIVANJA

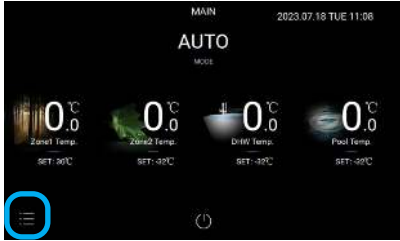
Glavne postavke instalacije opreme



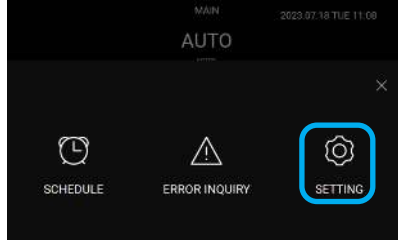
	Rezervoar DHW		Senzor temperature vode T_tank up:
	Kuglasti ventil		Senzor temperature vode T_tank down:
	Kuglasti ventil		OLP za grejač rezervoara
	Odlazni vod		Linija
	Povratni vod		Nula
	Električni grejač DHW		

4.1.4. POSTAVKE KONTROLERA

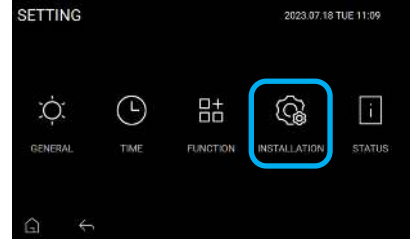
Glavne postavke instalacije sistema



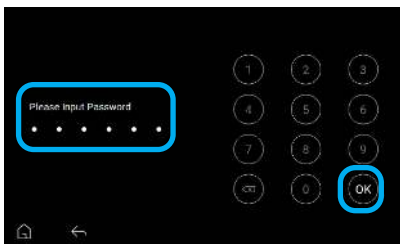
1



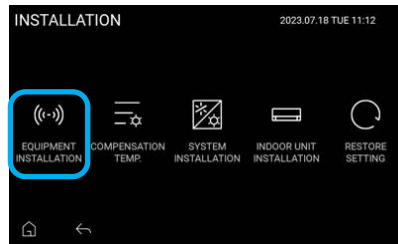
2



3



4 * Lozinka „841226“ OK



5



← ISKLJUČENO
← **UKLJUČENO**
← ISKLJUČENO

* IZABERITE UKLJUČENO ZA DHW

Funkcija	Granice parametra	Postavke
DHW	UKLJUČENO/ISKLJUČENO	UKLJUČENO



← 0°C
← 10min.
← **UKLJUČENO**
← **3,0 kW**

* IZABERITE UKLJUČENO DA DOZVOLITE GREJAČ REZERVOARA
* UNESITE SNAGU GREJAČA REZERVOARA

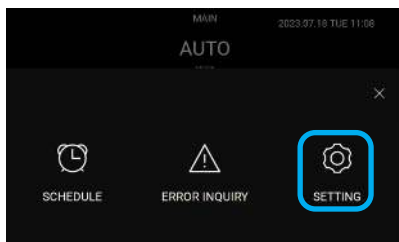
Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
Dozvoli grejač rezervoara	UKLJUČENO/ISKLJUČENO	UKLJUČENO
Snaga grejača rezervoara	0,0–9,0 kW	3,0 kW

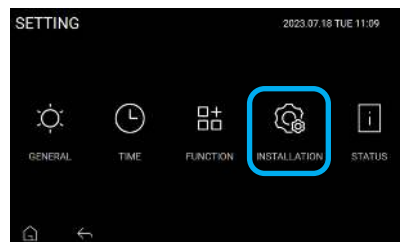
* PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.



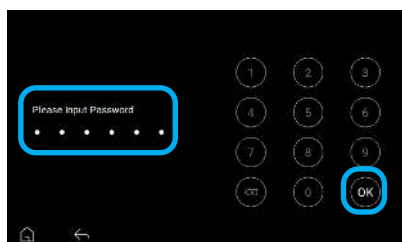
1



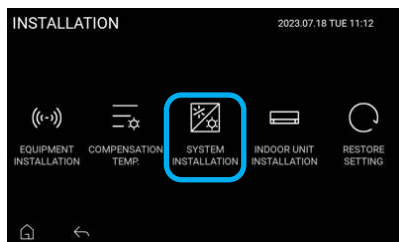
2



3



4 * Lozinka „841226“ OK



5



- ← Glavni kontroler
- ← Glavni kontroler
- ← **Glavni kontroler**
- ← Glavni kontroler

*** IZABERITE REŽIM KONTROLE ZA DHW**

Funkcija	Granice parametra	Postavke
Režim kontrole DHW	Glavni kontroler, kontroler treće strane	Glavni kontroler



- ← **45°C**
- ← 27°C
- ← 6°C
- ← 0°C

*** IZABERITE TEMPERATURU ZA UKLJUČIVANJE DHW**

OVA POSTAVKA ODREĐUJE TEMPERATURU NA KOJU VODA MORA DA PADNE PRE NEGO ŠTO JEDINICA ZAPOČNE ZAGREVANJE REZERVOARA SANITARNE TOPLE VODE.

Funkcija	Granice parametra	Postavke
Temp. za uključivanje DHW	30–75°C	45°C



***UNESITE TEMPERATURU PONOVRNOG ZAGREVANJA REZERVOARA**

Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
*Temp. ponovnog zagrevanja rezervoara	-12 - 2°C	-3°C

*** PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.**

4.2. DHW + TROSMERNI VENTIL ZA INSTALACIJU GREJANJA I HLAĐENJA

4.2.1. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

Sistem za grejanje i toplu vodu

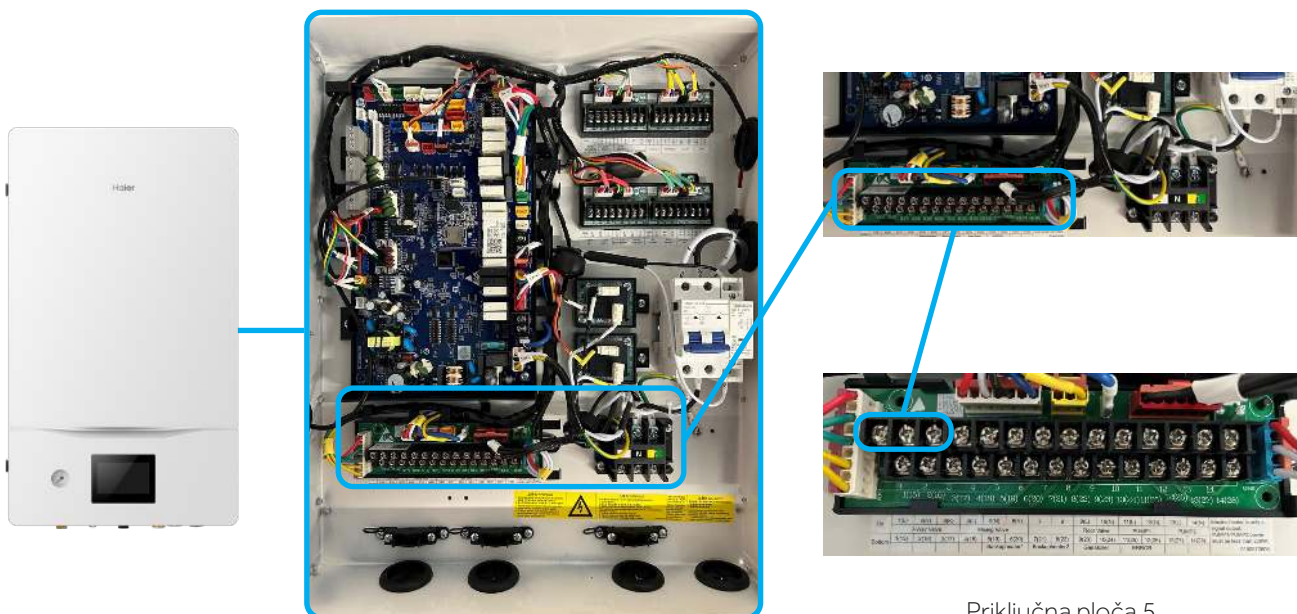


SVE ŠEME I SVA DODATNA OPREMA PRIKAZANI SU SAMO KAO PRIMER INSTALACIJE I MORAJU SE IZVODITI U SKLADU SA LOKALNIM PROPISIMA.

	Fleksibilno crevo		Odlazni vod
	Kuglasti ventil		Povratni vod
	Kuglasti ventil		Rezervoar DHW
	Filter za vodu		Električni grejač DHW
	Ispusni ventil		
	Trosmerni ventil		

ZA ELEKTRIČNO POVEZIVANJE, POGLEDAJTE TAČKU 1.0.

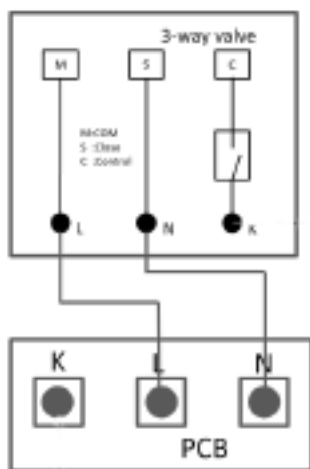
Trosmerni ventil



Prijlučna ploča 5

Priključna ploča

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				

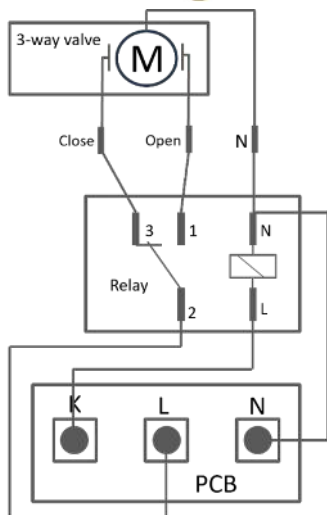


SPST

Ako koristite trosmerni ventil s povratnom oprugom.

Ventil zahteva napon od 230 V između K (faza) i N (nula) da bi se prebacio u režim za toplu vodu (DHW). U odsustvu zahteva za sanitarnom toplom vodom, ventil ostaje bez napona i vraća se u položaj za grejanje zahvaljujući povratnoj opruzi.

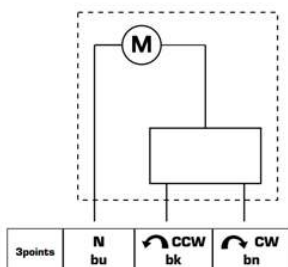
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



SPDT

Ako koristite trosmerni ventil bez povratne opruge, potrebno je dodati relej koji se ugrađuje na terenu. Štampana ploča ima samo jedan izlaz i ne može istovremeno otvarati i zatvarati ventil.

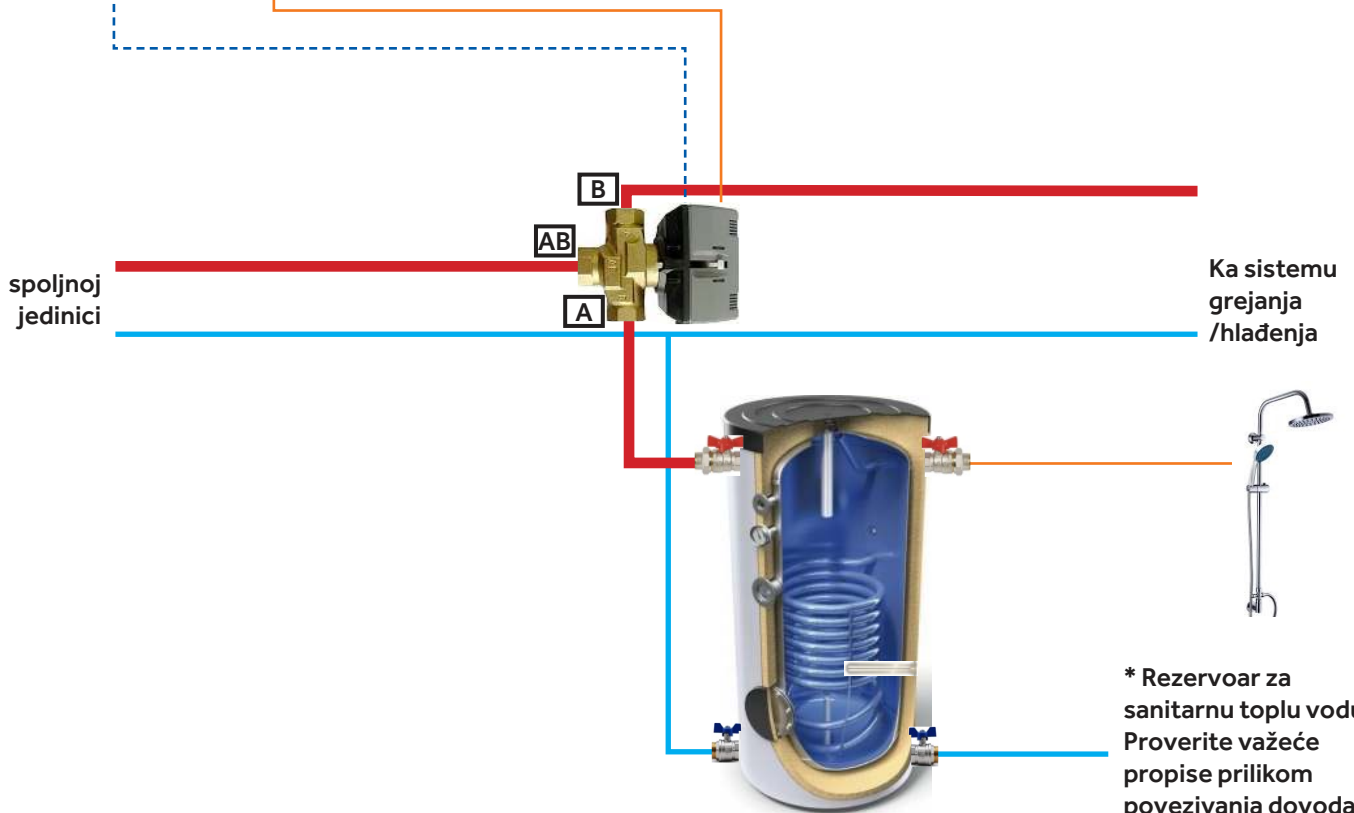
Za napajanje zavojnice releja koristite L i N sa ploče, a ventil povežite s relejem u skladu sa šemom.



4.2.2. POJEDNOSTAVLJENA ŠEMA POVEZIVANJA

Priključna ploča

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve		Pump 1		Pump 2		
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
			Heater 1		Heater 2		Boiler		Error				



* POVEZIVANJE ZA ZONU 1 I 2,
POGLEDAJTE POGLAVLJE 2.0 I 3.0

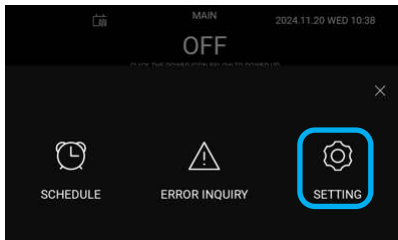
* Rezervoar za sanitarnu toplu vodu. Proverite važeće propise prilikom povezivanja dovoda hladne vode.

4.2.3. POSTAVKE KONTROLERA

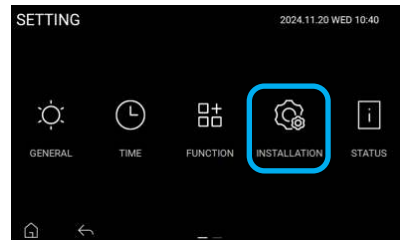
Glavne postavke instalacije sistema



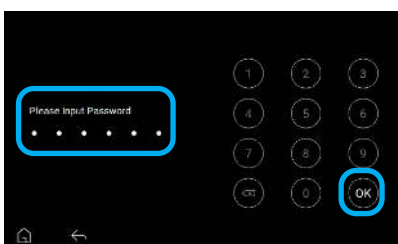
1



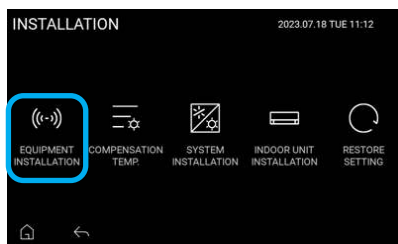
2



3



4 * Lozinka „841226“ OK



5



← UKLJUČENO

* IZABERITE UKLJUČENO DA AKTIVIRATE ZONU 1

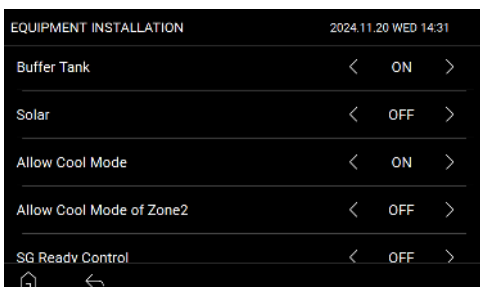
← ISKLJUČENO

← ISKLJUČENO

← UKLJUČENO

* IZABERITE UKLJUČENO DA AKUMULACIONI REZERVOAR BUDE OBUHVAĆEN

Funkcija	Granice parametra	Postavke
Zona 1	UKLJUČENO/ISKLJUČENO	UKLJUČENO
DHW	UKLJUČENO/ISKLJUČENO	UKLJUČENO



← ISKLJUČENO

← ISKLJUČENO

← UKLJUČENO/ISKLJUČENO

← ISKLJUČENO

* IZABERITE UKLJUČENO DA DOZVOLITE GREJAČ REZERVOARA

Funkcija	Granice parametra	Postavke
Dozvoli režim hlađenja	UKLJUČENO/ISKLJUČENO	UKLJUČENO

* PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.



- ← 0°C
- ← 10 min.
- ← UKLJUČENO
- ← 3,0 kW

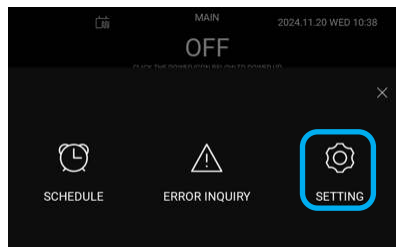
*** UNESITE SNAGU GREJAČA REZERVOARA**

Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
Dozvoli grejač rezervoara	UKLJUČENO/ISKLJUČENO	UKLJUČENO
Snaga grejača rezervoara	0,0–9,0 kW	3,0 kW



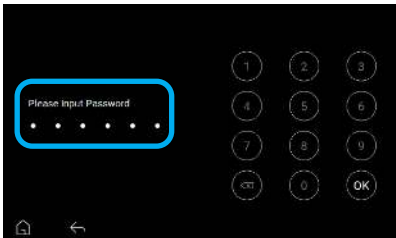
1



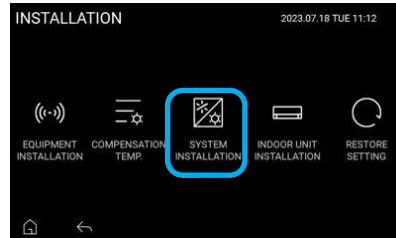
2



3



4 * Lozinka „841226”



5



- ← Glavni kontroler
- ← Glavni kontroler
- ← Glavni kontroler
- ← Glavni kontroler

*** IZABERITE REŽIM KONTROLE ZA ZONU 1**

*** IZABERITE REŽIM KONTROLE ZA DHW**

Funkcija	Granice parametra	Postavke
Režim kontrole zone 1	Glavni kontroler, kontroler treće strane, senzor sobne temp. unutrašnje jedinice	Glavni kontroler
Režim kontrole DHW	Glavni kontroler, kontroler treće strane, senzor sobne temp. unutrašnje jedinice	Glavni kontroler



*** IZABERITE TEMPERATURU ZA UKLJUČIVANJE DHW**

***IZABERITE DELTA T° ZA UKLJUČENO GREJANJE**

OVA POSTAVKA ODREĐUJE TEMPERATURU NA KOJU VODA MORA DA PADNE PRE NEGO ŠTO JEDINICA ZAPOČNE ZAGREVANJE REZERVOARA SANITARNE TOPLE VODE.

Funkcija	Granice parametra	Postavke
Temp. za uključivanje DHW	30–75°C	45°C
ΔT za uključivanje grejanja	0 - 15°C	6°C



***PODESITE TEMPERATURU PONOVOG ZAGREVANJA REZERVOARA**

Funkcija	Granice parametra	Postavke
*Temp. ponovnog zagrevanja rezervoara	-12 - 2°C	-3°C



Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
ΔT za uključivanje hlađenja	0 - 15°C	5°C

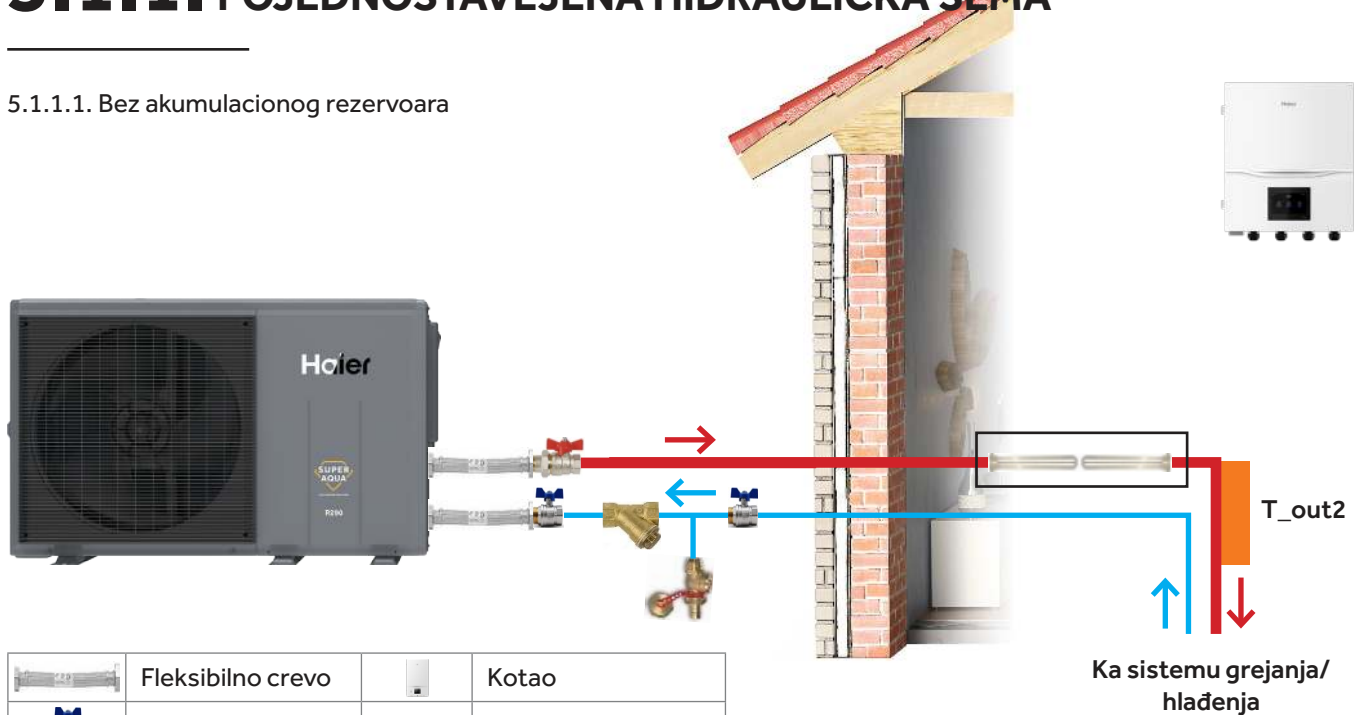
*** PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.**










5.0. POVEZIVANJE POMOĆNOG IZVORA TOPLOTE

5.1. ELEKTRIČNI GREJAČ

5.1.1. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

5.1.1.1. Bez akumulacionog rezervoara

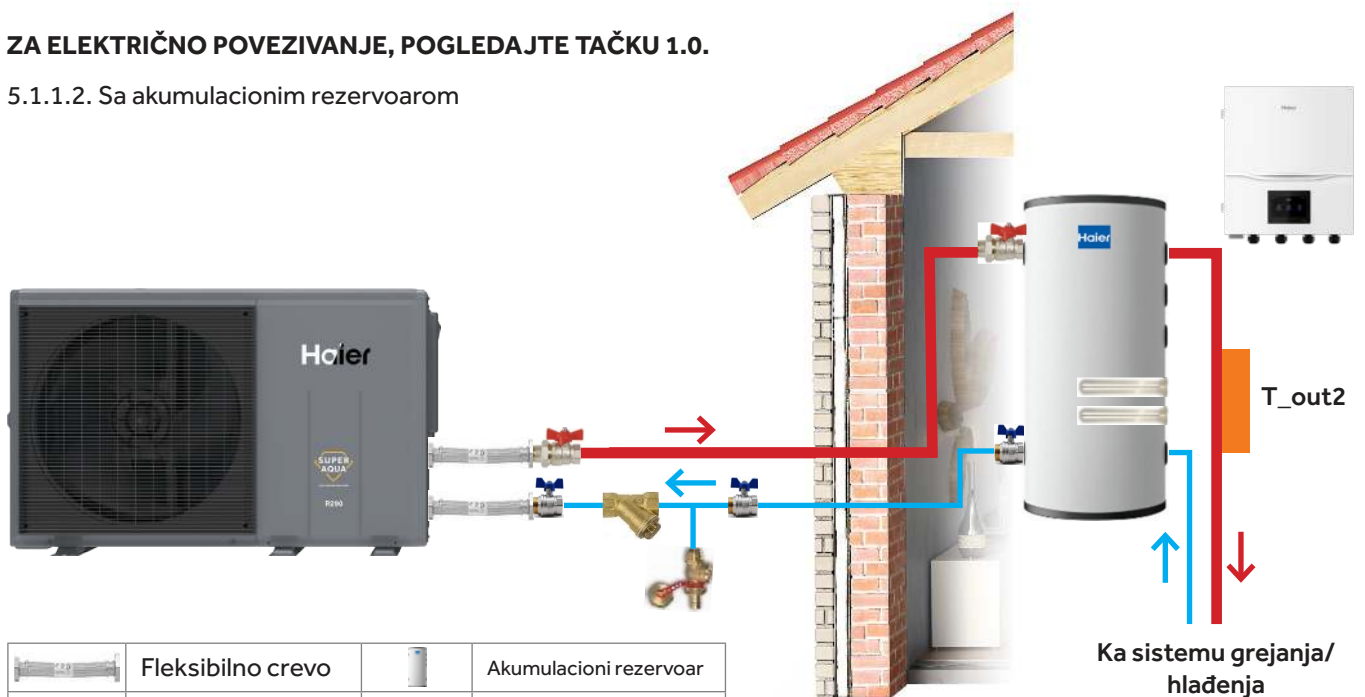


	Fleksibilno crevo		Kotao
	Kuglasti ventil		Odlazni vod
	Kuglasti ventil		Povratni vod
	Filter za vodu		Električni grejač
	Ispusni ventil		

SVE ŠEME I SVA DODATNA OPREMA PRIKAZANI SU SAMO KAO PRIMER INSTALACIJE I MORAJU SE IZVODITI U SKLADU SA LOKALNIM PROPISIMA.

ZA ELEKTRIČNO POVEZIVANJE, POGLEDAJTE TAČKU 1.0.

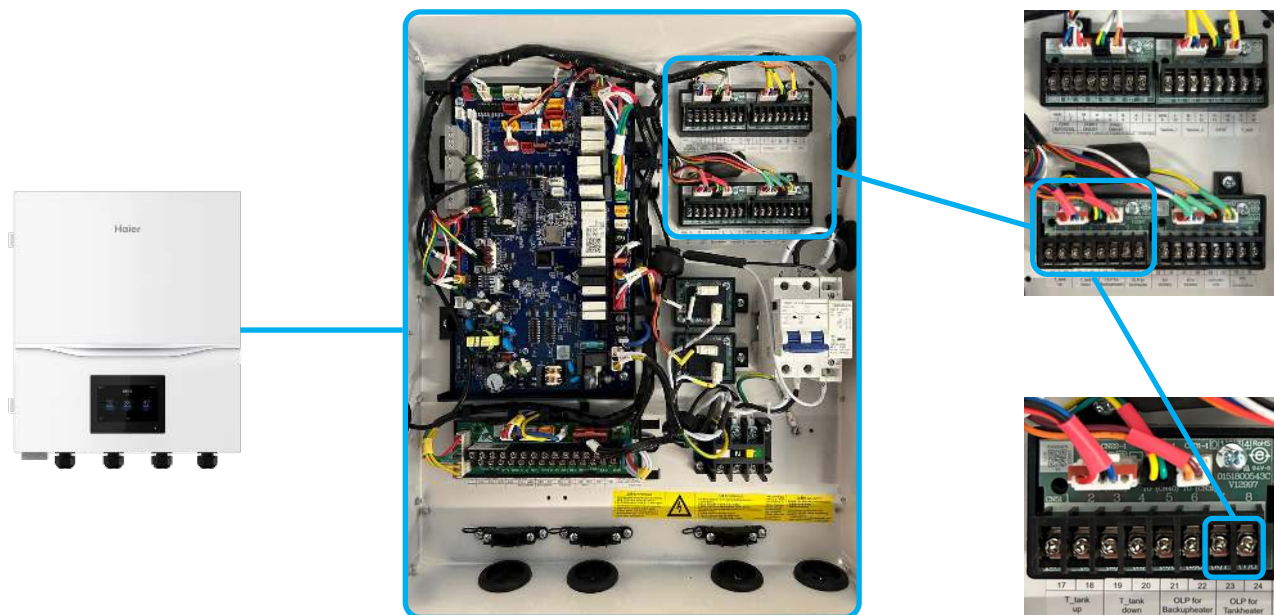
5.1.1.2. Sa akumulacionim rezervoarom



	Fleksibilno crevo		Akumulacioni rezervoar
	Kuglasti ventil		Odlazni vod
	Kuglasti ventil		Povratni vod
	Filter za vodu		Električni grejač
	Ispusni ventil		

5.1.2. POVEZIVANJE

Senzor temperature za pomočni izvor toplote



Priključna ploča 2

Priključna ploča

9	10	11	12	13	14	15	16
GND	L	M	H	A		X	Y
Tw zona_1		Tw zona_2		STOP		T_out2	

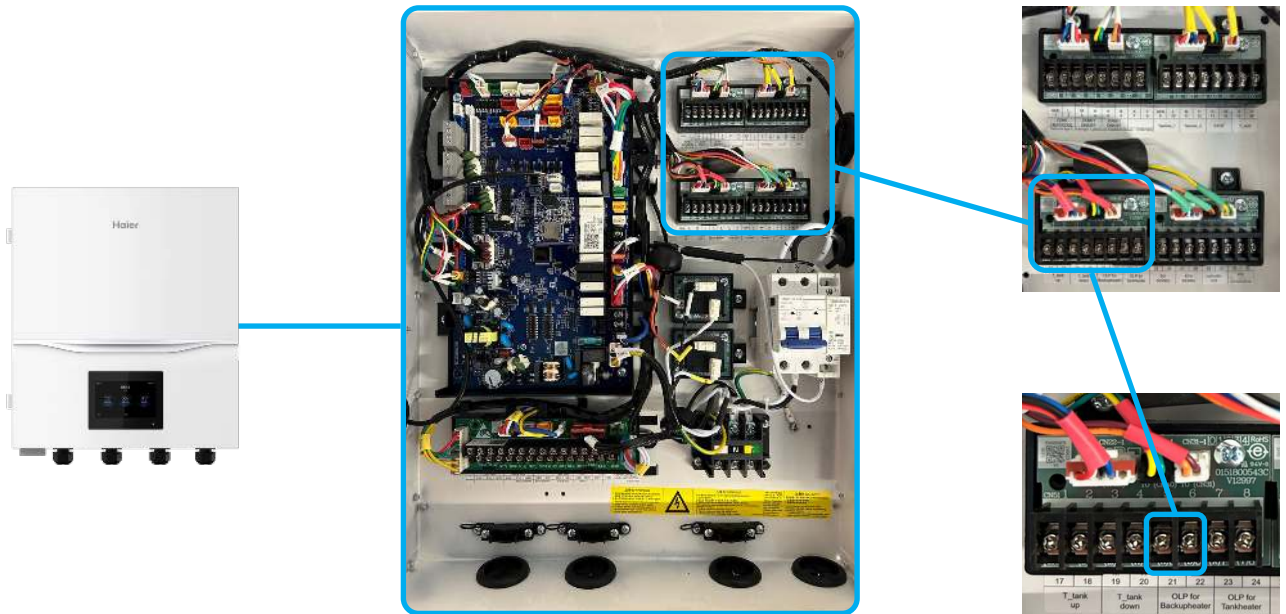
Na priključnoj ploči broj 2, između priključaka 15 (X) i 16 (Y), možemo povezati senzor temperature vode za T_out2.

*Ako aktiviramo pomoćni grejač, obavezno je da se priključi T_out2 senzor posle pomoćnog izvora toplote.

Greška E02 javlja se ako T_out 2 nije povezano.

5.1.2. POVEZIVANJE

Zaštita električnog grejača za pomoćni izvor toplote



Priključna ploča 3

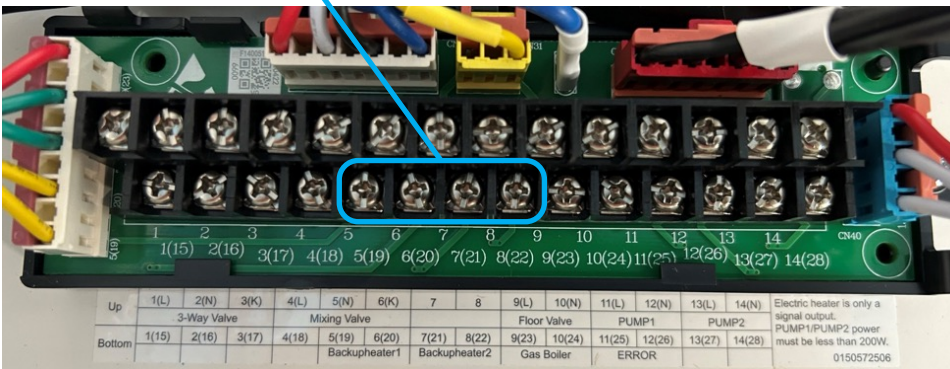
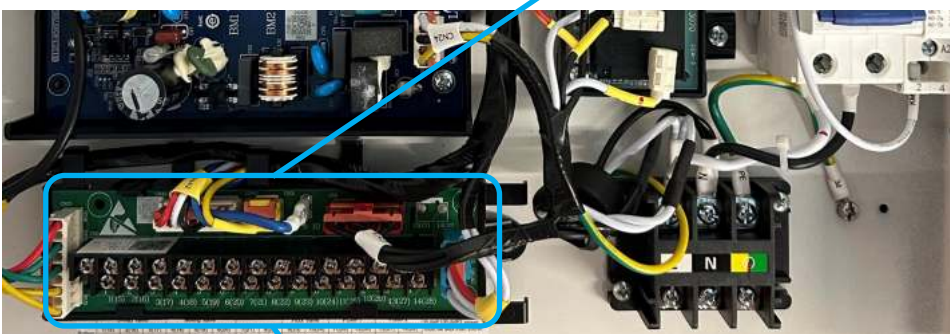
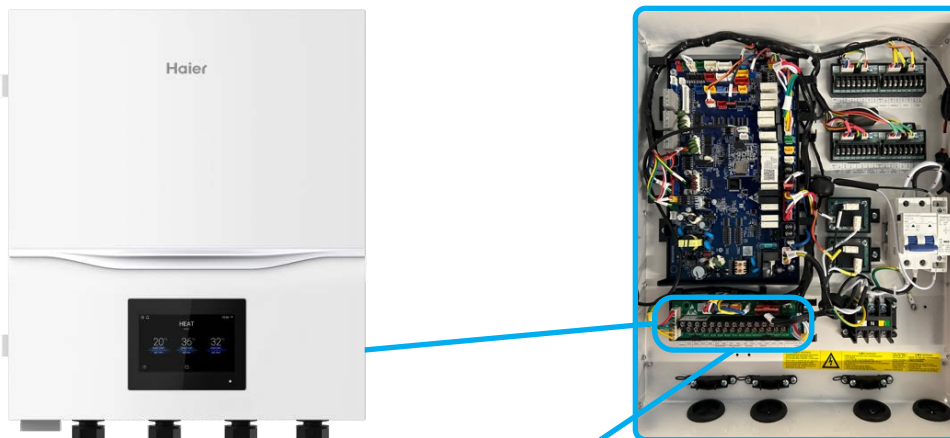
Priključna ploča

17	18	19	20	21	22	23	24
GND	L	M	H	A	B	X	Y
T_tank up		T_tank down		Pomoćni OLP Grejač		OLP za grejač rezervoara	

Na priključnoj ploči broj 3, između priključaka 21 (A) i 22 (B), povezati zaštitu električnog grejača pomoćnog izvora toplote. Radi se o digitalnom ulaznom signalu sa bežnaponskim, normalno zatvorenim kontaktom: zatvoren kontakt znači da nema greške, otvoren kontakt označava grešku.

Ako pomoćni grejač ima ugrađen sopstveni OLP, ovde možete postaviti džemper.

Kontrolni signal za pomoćni izvor toplote



Priključna ploča 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	
L	N	K	L	N	K	L	N	L	N	L	N	L	N	
3-Way Valve			Mixing valve						Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)	
				L	N	L	N	Voltage-free contact		Voltage-free contact				
				Heater 1		Heater 2		Boiler		Error				



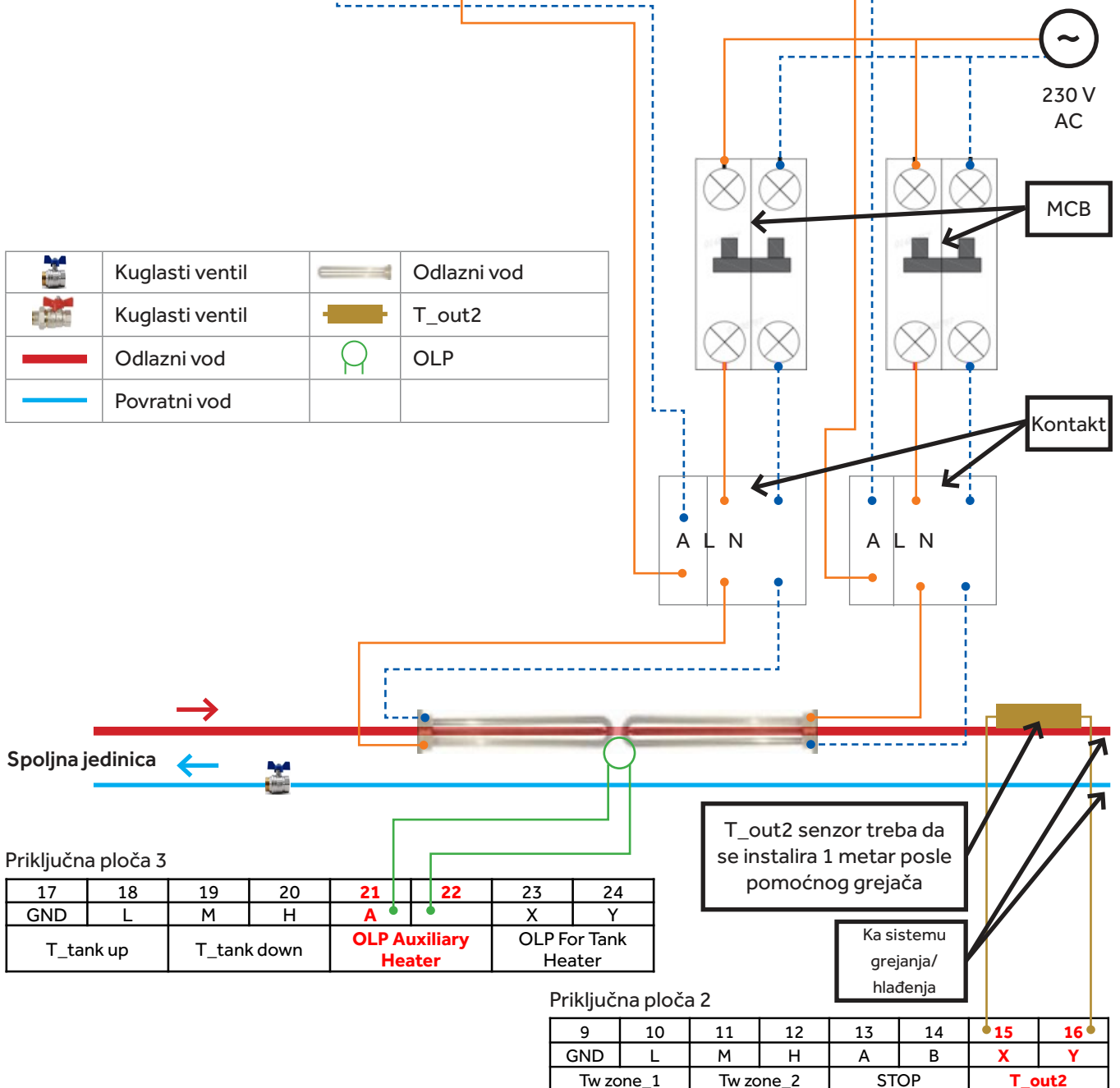
Na priključnoj ploči broj 5, između priključaka 5(19) i 6(20), možemo povezati signal za relej za grejač 1 i između priključaka 5(19) i 6(20), možemo povezati signal za relej za grejač 2. Oba ova priključka imaju izlazni napon od 230 V AC za aktiviranje releja.

*Ovo povezivanje se mora izvesti preko releja.

5.1.3. POJEDNOSTAVLJENA ŠEMA POVEZIVANJA

5.1.3.1. Bez akumulacionog rezervoara

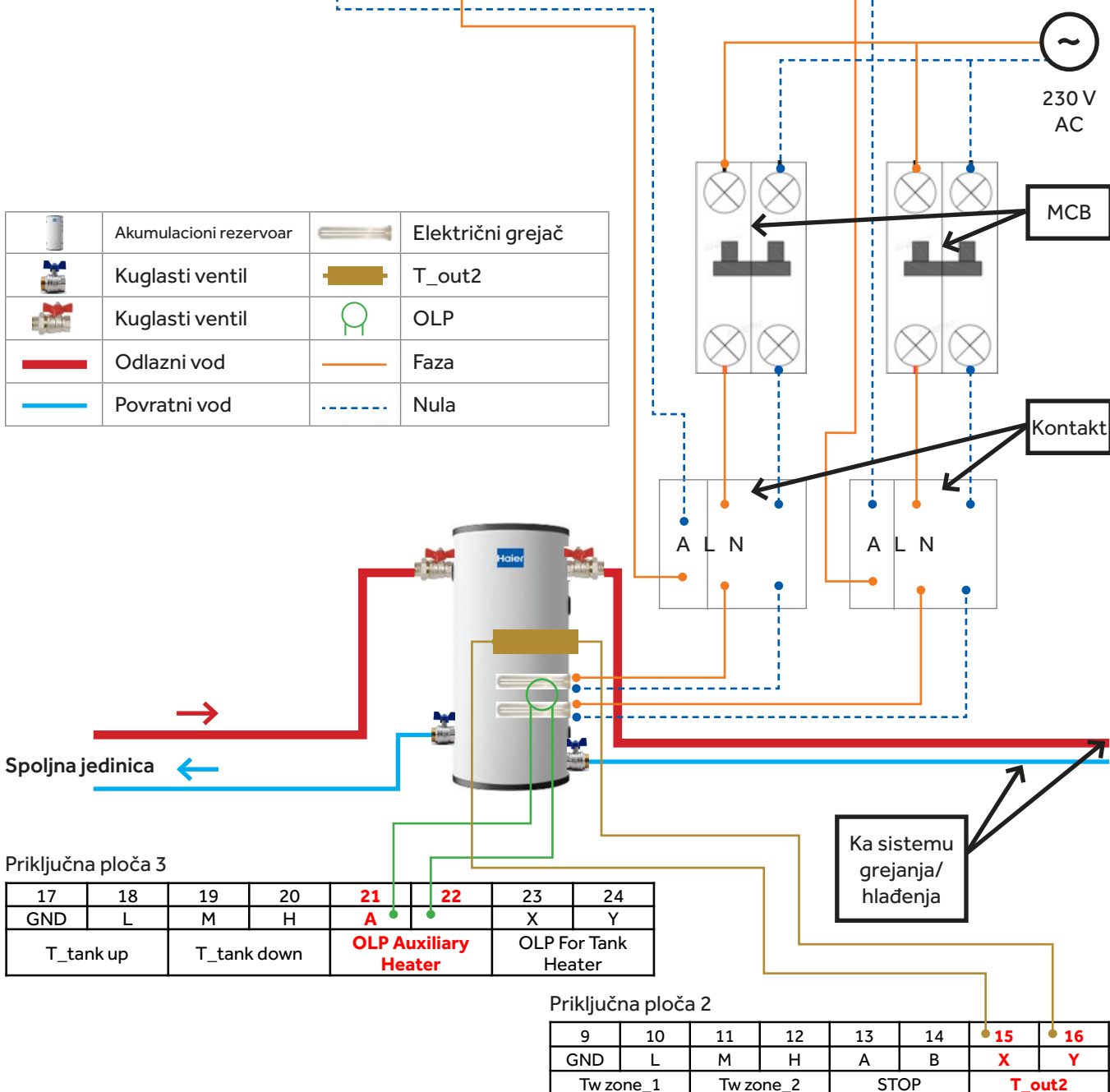
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			



5.1.3. SA AKUMULACIONIM REZERVOAROM

5.1.3.2. Sa akumulacionim rezervoarom

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

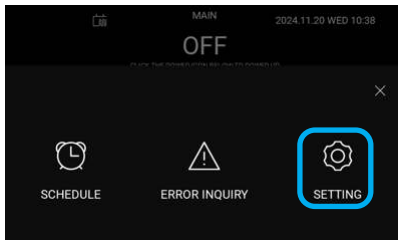


5.1.4. POSTAVKE KONTROLERA

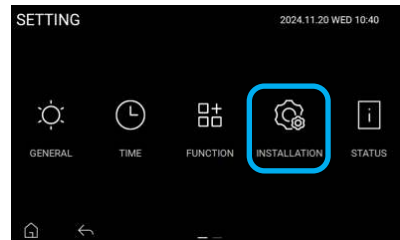
Glavne postavke instalacije opreme



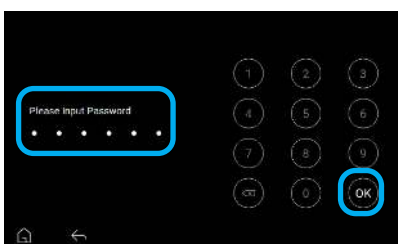
1



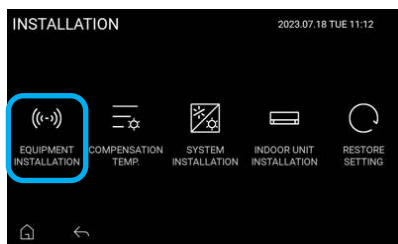
2



3



4 * Lozinka „841226“ OK



5



← UKLJUČENO

← ISKLJUČENO

← ISKLJUČENO

← ISKLJUČENO

* IZABERITE UKLJUČENO DA AKTIVIRATE ZONU 1

Pritisnite ikonicu kuće za povratak u glavni meni

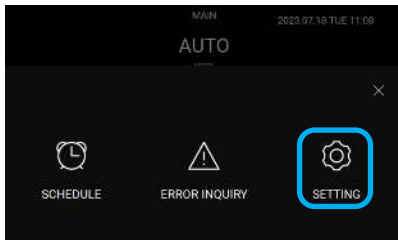
Funkcija	Granice parametra	Postavke
Zona 1	UKLJUČENO/ISKLJUČENO	UKLJUČENO

* PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.

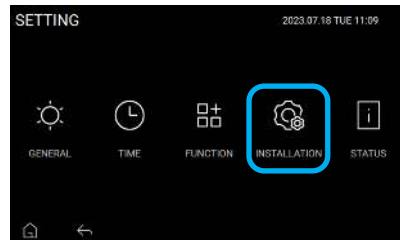
Glavne postavke instalacije sistema



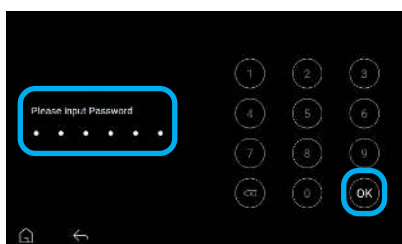
1



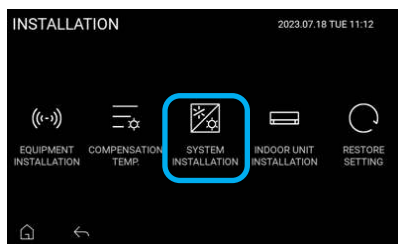
2



3



4 * Lozinka „841226“ OK



5



← Glavni kontroler

* IZABERITE REŽIM KONTROLE ZA ZONU 1

← Glavni kontroler

← Glavni kontroler

← Glavni kontroler

Funkcija	Granice parametra	Postavke
Režim kontrole zone 1	Glavni kontroler, kontroler treće strane	Glavni kontroler



← Električni grejač i kotao

* IZABERITE POMOĆNI IZVOR TOPLOTE

← 15 °C

← 10 °C

Funkcija	Granice parametra	Postavke
Pomoćni izvor toplote	Električni grejač i kotao Električni grejač, kotao	Električni grejač i kotao

* PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.

Glavne postavke instalacije sistema



← 45 °C
 ← 27 °C
 ← 6 °C
 ← 0 °C

***PODESITE SOBNU TEMP. ZA ISKLJUČENO GREJANJE**
***PODESITE DT° ZA UKLJUČIVANJE GREJANJA**

Funkcija	Granice parametra	Postavke
Sobna temp. za isključeno grejanje	5–35 °C	27 °C
ΔT za uključivanje grejanja	0 - 15 °C	6 °C



← 60 min.
 ← -3 °C
 ← -1 °C
 ← -3 °C

***PODESITE KAŠNJENJE UKLJUČIVANJA GREJAČA NAKON POKRETANJA KOMPRESORA**

Pritisnite ikonicu kuća za povratak u glavni meni

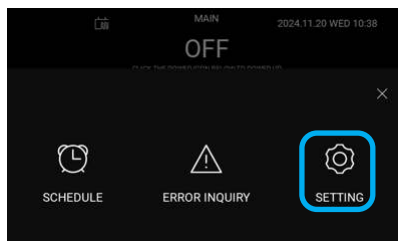
Funkcija	Granice parametra	Postavke
Kašnjenje uključivanja grejača	0–120 min.	60 min.
Uključivanje grejača pri ΔT od ciljne temp.	-10 – -2°C	-3 °C
Isključivanje grejača pri ΔT od ciljne temp.	-8 - 0 °C	-1 °C

*** PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.**

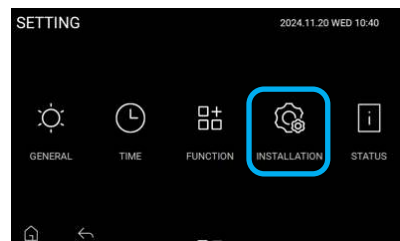
Glavne postavke instalacije unutrašnje jedinice



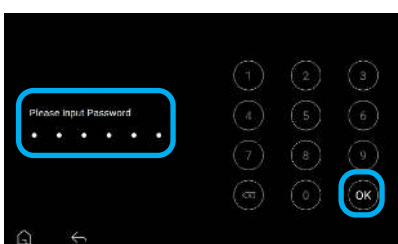
1



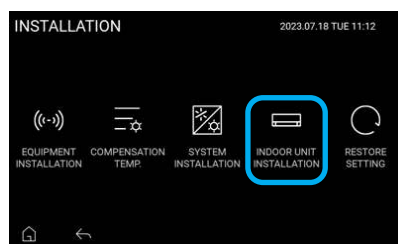
2



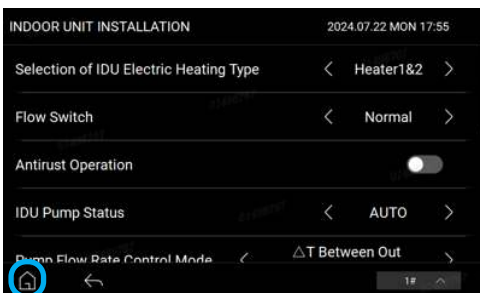
3



4 * Lozinka „841226“ OK



5



- ← Grejač 1 i 2
- ← Normalno
- ← ISKLJUČENO
- ← Automatski

* IZABERITE GREJANJE PUTEM GREJAČA 1, 2 ILI 1 I 2

Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
Izbor tipa električnog grejača unutrašnje jedinice	Nijedan, Grejač 1, Grejač 2, Grejač 1 i 2	Grejač 1 i 2

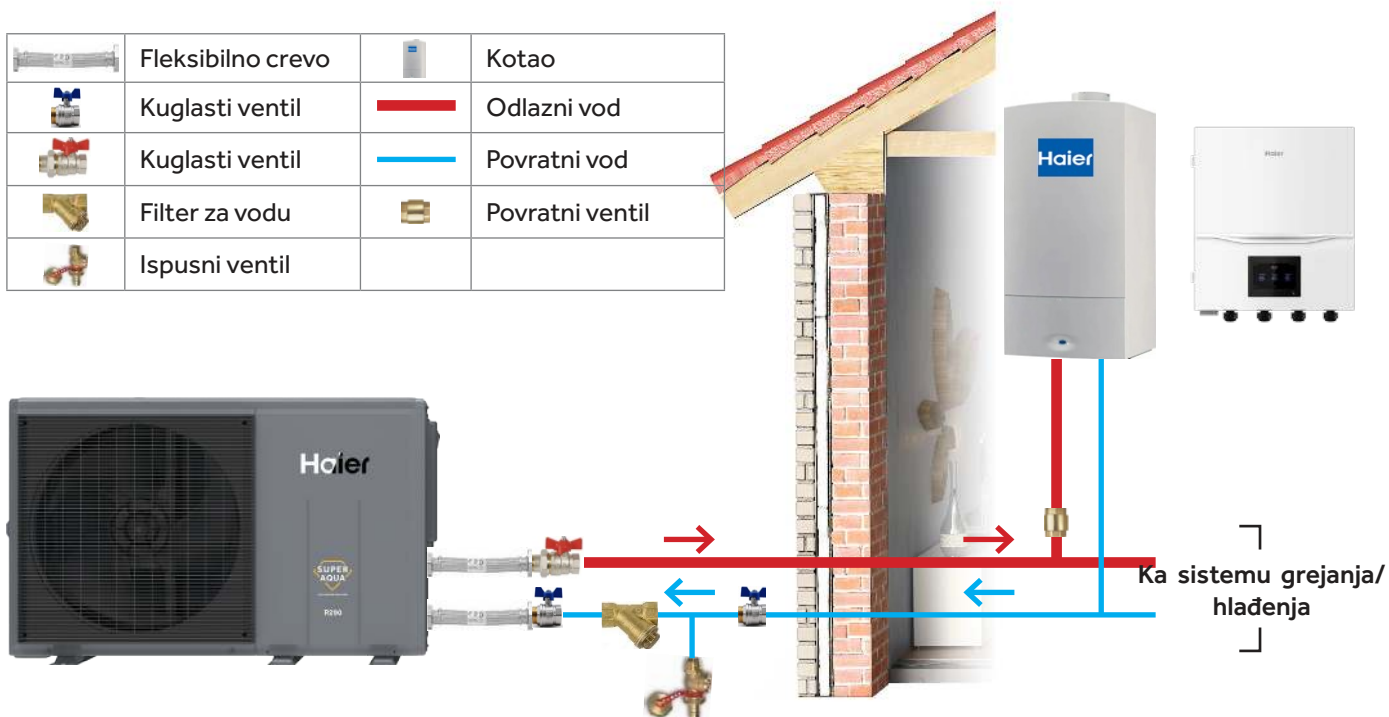
* PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.

5.2. KOTAO

5.2.1. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

5.2.1.1. Bez akumulacionog rezervoara

	Fleksibilno crevo		Kotao
	Kuglasti ventil		Odlazni vod
	Kuglasti ventil		Povratni vod
	Filter za vodu		Povratni ventil
	Ispusni ventil		

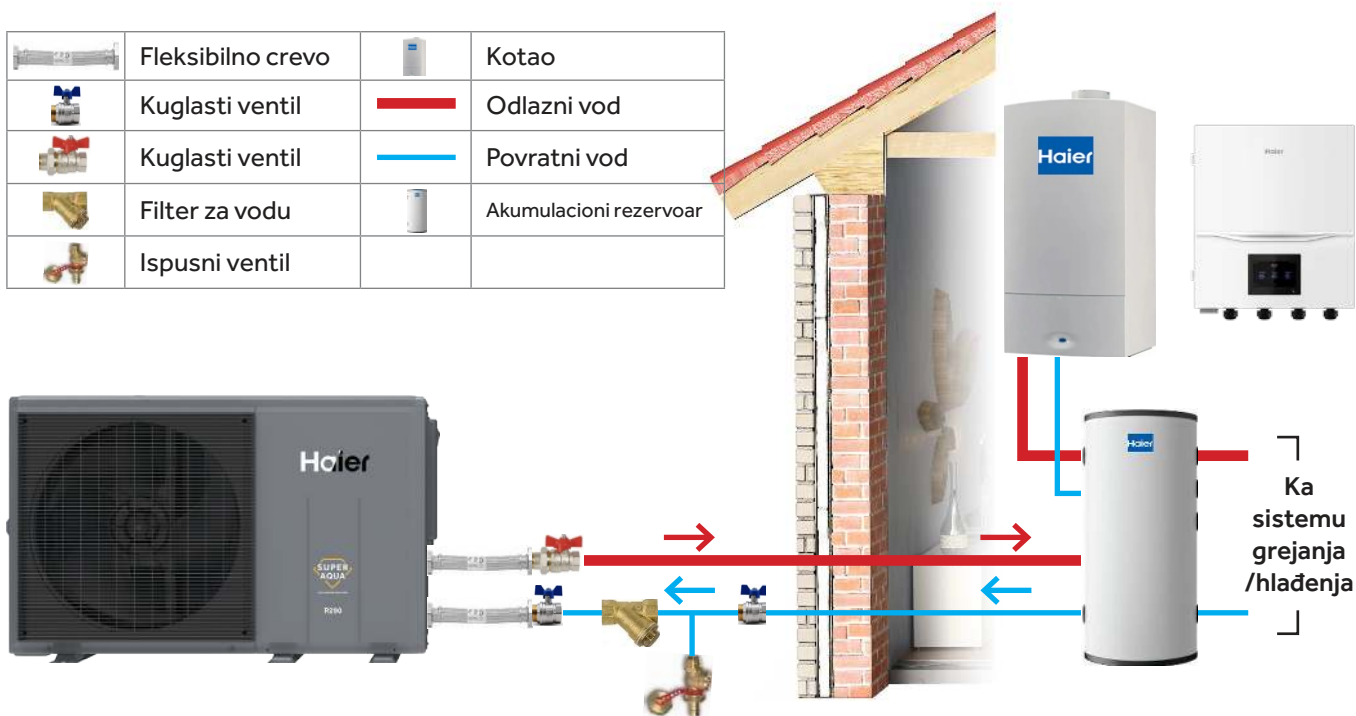


ZA ELEKTRIČNO POVEZIVANJE, POGLEDAJTE TAČKU 1.0.

SVE ŠEME I SVA DODATNA OPREMA PRIKAZANI SU SAMO KAO PRIMER INSTALACIJE I MORAJU SE IZVODITI U SKLADU SA LOKALNIM PROPISIMA.

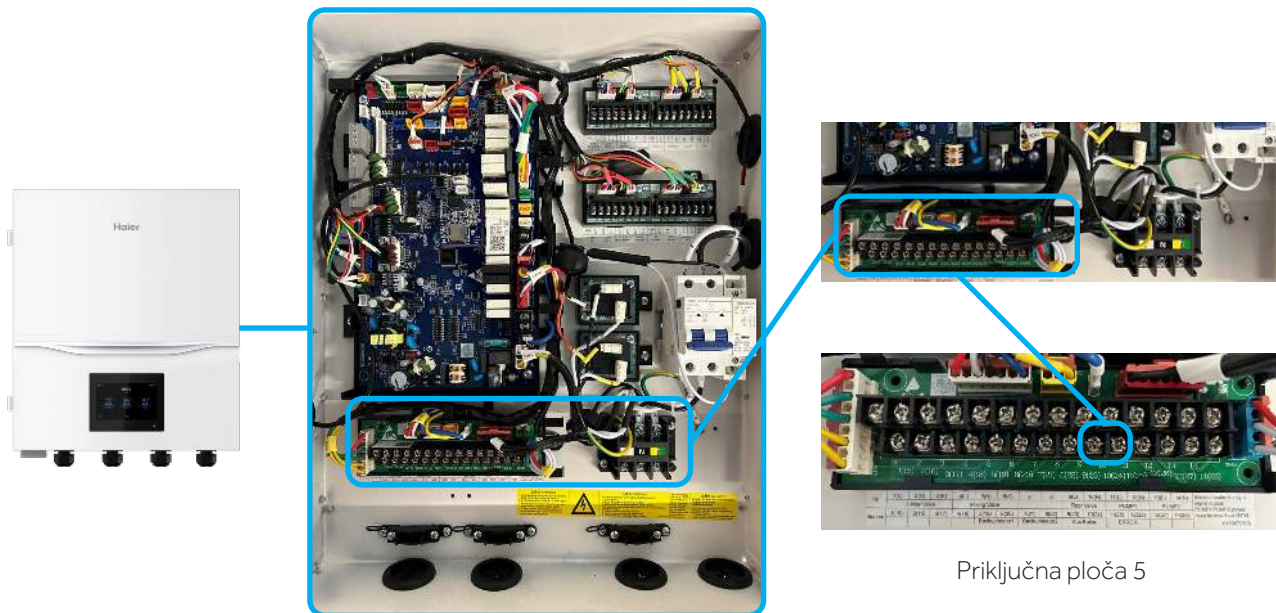
5.2.1.2. Sa akumulacionim rezervoarom

	Fleksibilno crevo		Kotao
	Kuglasti ventil		Odlazni vod
	Kuglasti ventil		Povratni vod
	Filter za vodu		Akumulacioni rezervoar
	Ispusni ventil		



5.2.2. POVEZIVANJE

Izlazni kontrolni signal za gasni kotao kao pomoćni izvor grejanja



1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Volt-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							

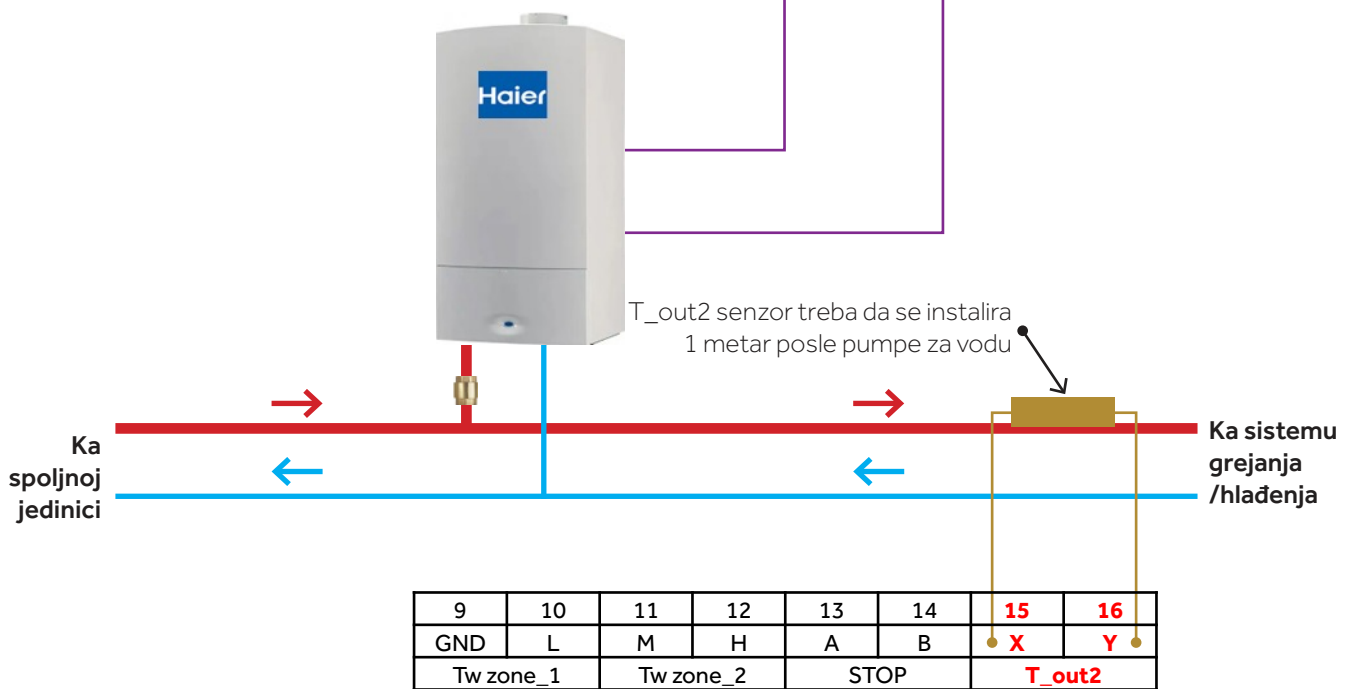


Na priključnoj ploči broj 5, između priključaka 9(23) i 10(24), moramo povezati signal za aktiviranje kotla. Ovo je digitalni izlazni signal, što znači da kada je kontakt zatvoren – kotao je uključen; kada je otvoren – kotao je isključen.

5.2.3. POJEDNOSTAVLJENA ŠEMA POVEZIVANJA

5.2.3.1. Bez akumulacionog rezervoara

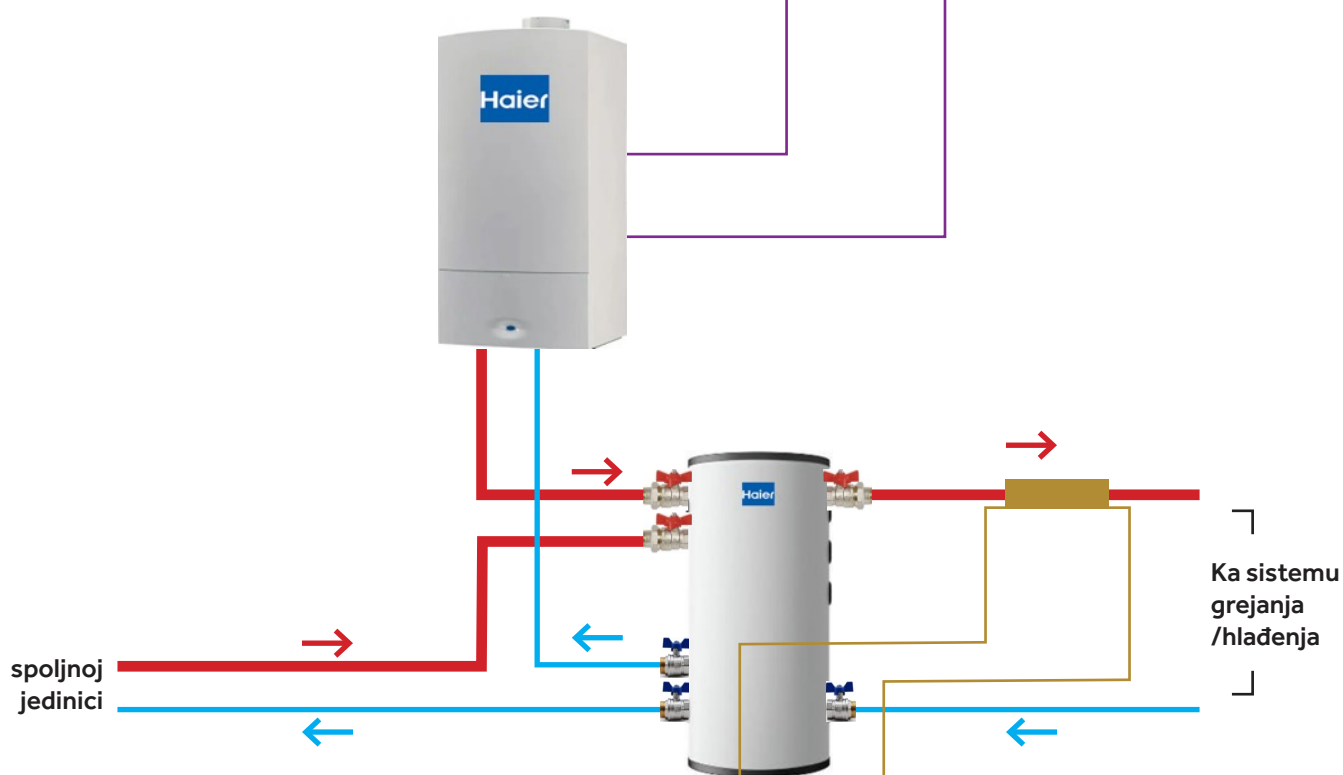
1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			



	Kotao		Povratni ventil
	Kuglasti ventil		T _{out2}
	Kuglasti ventil		
	Odlazni vod		
	Povratni vod		

5.2.3.2. Sa akumulacionim rezervoarom

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact Error			
				Heater 1		Heater 2							



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

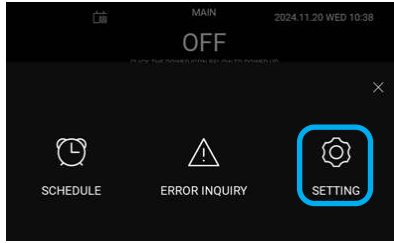
	Kotao		Akumulacioni rezervoar
	Kuglasti ventil		T_out2
	Kuglasti ventil		
	Odlazni vod		
	Povratni vod		

5.2.4. POSTAVKE KONTROLERA

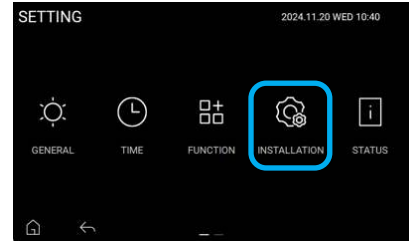
Glavne postavke instalacije opreme



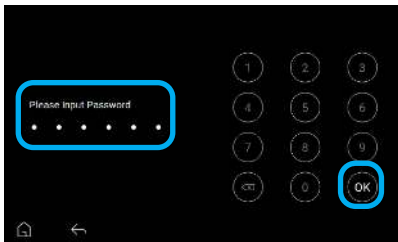
1



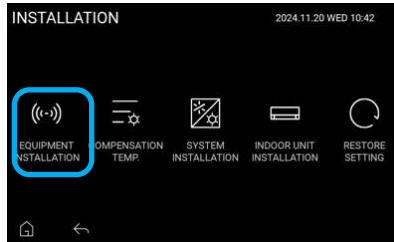
2



3







4 * Lozinka „841226“ OK



5



-  **Uključeno**
-  Isključeno
-  Isključeno
-  Isključeno

***IZABERITE UKLJUČENO DA AKTIVIRATE ZONU 1**

Pritisnite ikoniku kuće za povratak u glavni meni

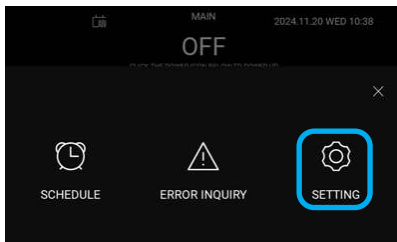
Funkcija	Granice parametra	Postavke
Zona 1	UKLJUČENO/ISKLJUČENO	UKLJUČENO

*** PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.**

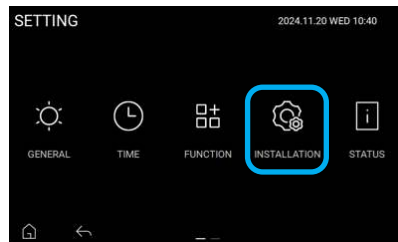
Glavne postavke instalacije sistema



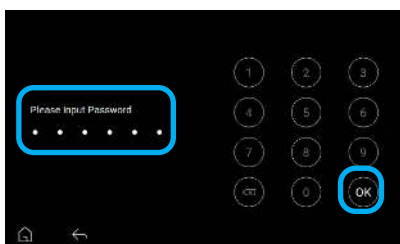
1



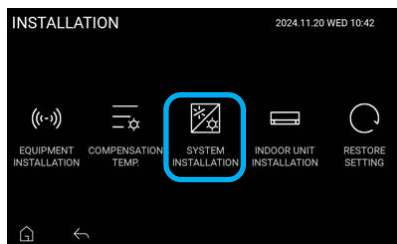
2



3



4 * Lozinka „841226“ OK



5



← Glavni kontroler

* IZABERITE REŽIM KONTROLE ZA ZONU 1

← Glavni kontroler

← Glavni kontroler

← Glavni kontroler

Funkcija	Granice parametra	Postavke
Režim kontrole zone 1	Glavni kontroler, kontroler treće strane	Glavni kontroler



← Električni grejač i kotao

← 15 °C

← 10 °C

Funkcija	Granice parametra	Postavke
Pomoćni izvor toplote	Električni grejač i kotao Električni grejač, kotao	Električni grejač i kotao

* PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.

Glavne postavke instalacije sistema



← 45 °C

← 27 °C

← 6 °C

← 0 °C

*** IZABERITE SOBNU TEMP. ZA ISKLJUČENO GREJANJE**

*** IZABERITE DT° ZA UKLJUČENO GREJANJE**

Funkcija	Granice parametra	Postavke
Sobna temp. za isključeno grejanje	5–35 °C	27 °C
ΔT za uključivanje grejanja	0 - 15 °C	6 °C



← 60 min.

← -3 °C

← -1 °C

← -3 °C

*** PODESITE KAŠNJENJE UKLJUČIVANJA GREJAČA NAKON POKRETANJA KOMPRESORA**

Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
Kašnjenje uključivanja grejača	0–120 min.	60 min.
Uključivanje grejača pri ΔT od ciljne temp.	-10 – -2 °C	-3 °C
Isključivanje grejača pri ΔT od ciljne temp. -8 - 0°C -1°C	-8 - 0 °C	-1 °C

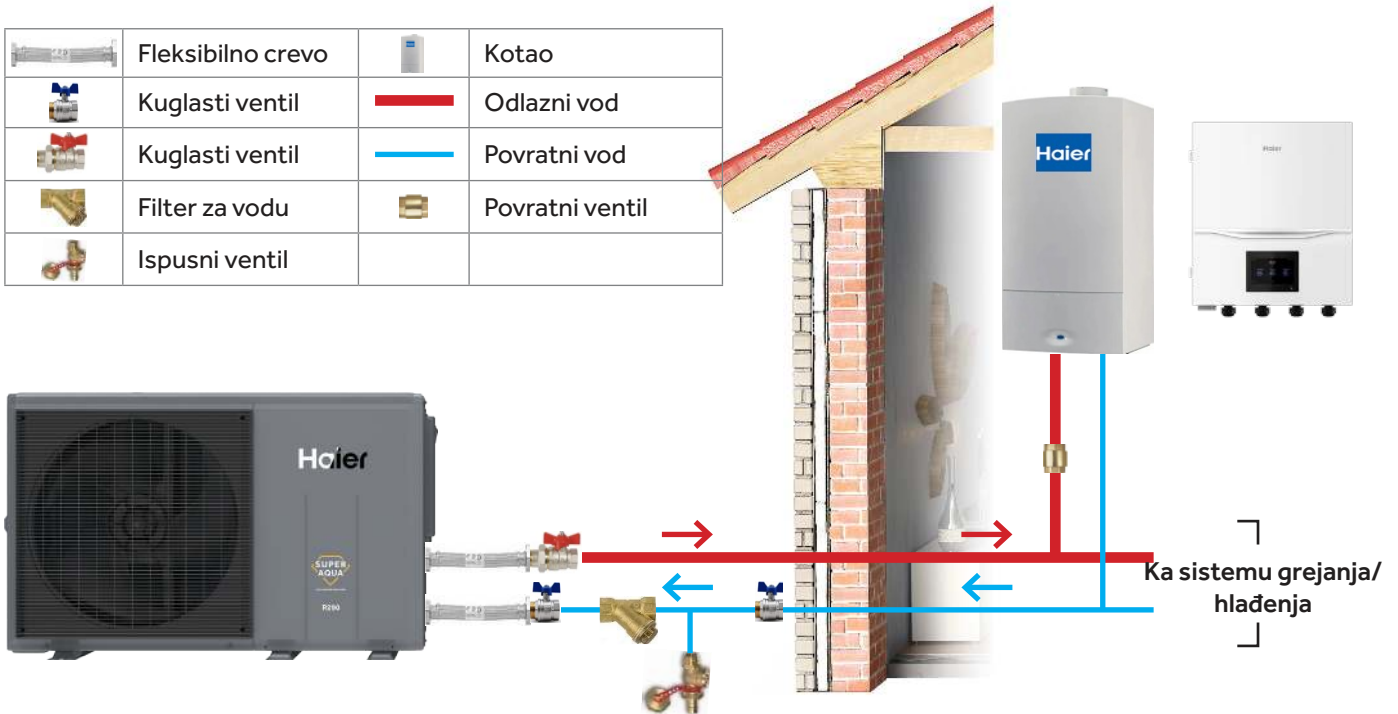
*** PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.**

5.3. BIVALENTNI REŽIM

5.3.1. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

5.3.1.1. Bez akumulacionog rezervoara

	Fleksibilno crevo		Kotao
	Kuglasti ventil		Odlazni vod
	Kuglasti ventil		Povratni vod
	Filter za vodu		Povratni ventil
	Ispusni ventil		

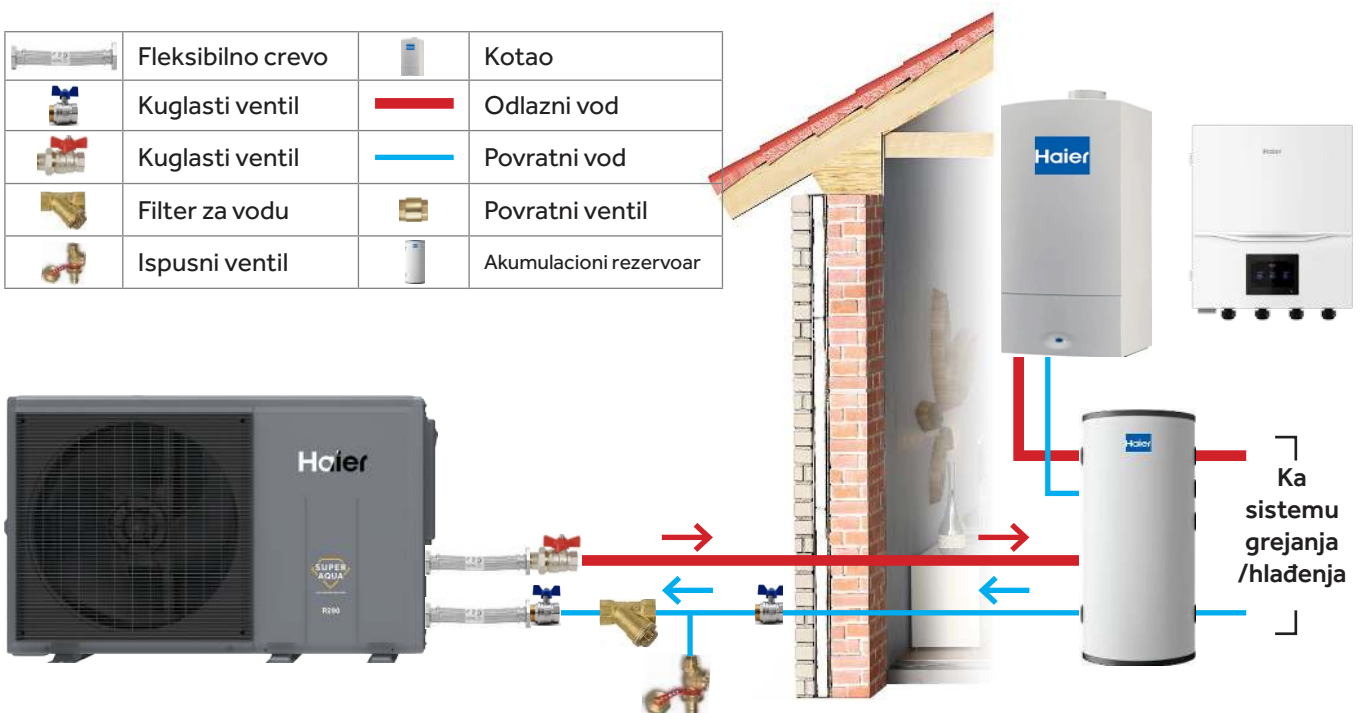


ZA ELEKTRIČNO POVEZIVANJE, POGLEDAJTE TAČKU 1.0.

SVE ŠEME I SVA DODATNA OPREMA
PRIKAZANI SU SAMO KAO PRIMER
INSTALACIJE I MORAJU SE IZVODITI U
SKLADU SA LOKALNIM PROPISIMA.

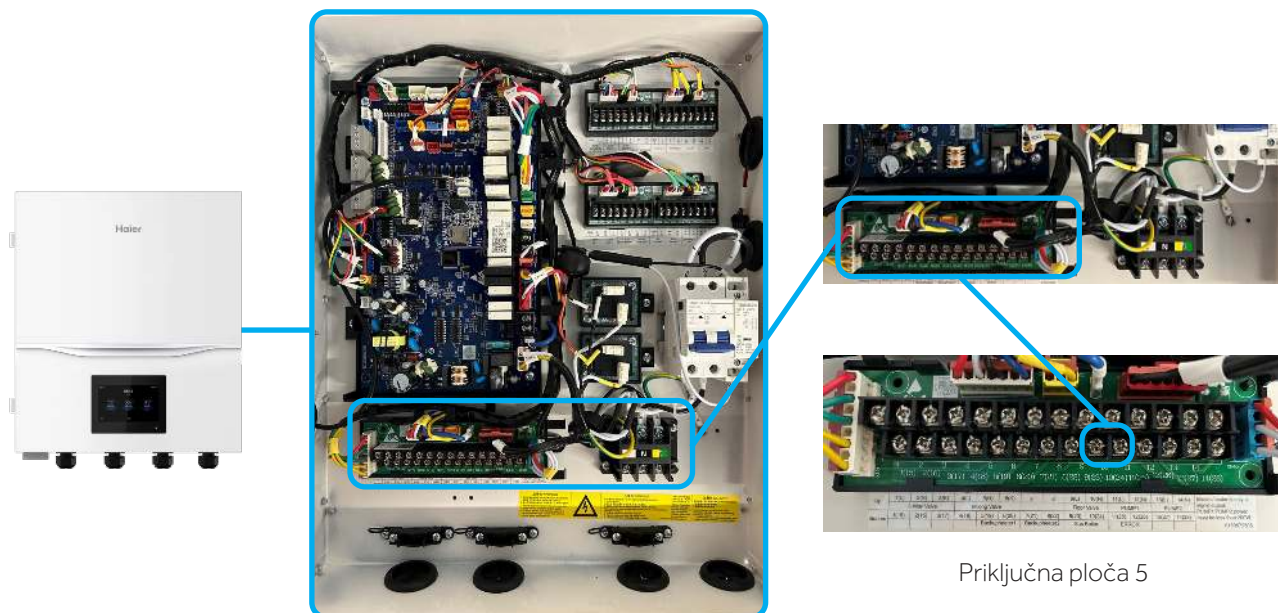
5.3.1.2. Sa akumulacionim rezervoarom

	Fleksibilno crevo		Kotao
	Kuglasti ventil		Odlazni vod
	Kuglasti ventil		Povratni vod
	Filter za vodu		Povratni ventil
	Ispusni ventil		Akumulacioni rezervoar



5.3.2. POVEZIVANJE

Izlazni kontrolni signal za gasni kotao kao pomoćni izvor grejanja



1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve				Floor Valve			Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	L	N	Voltage-free contact			
				Heater 1		Heater 2		Boiler		Error			

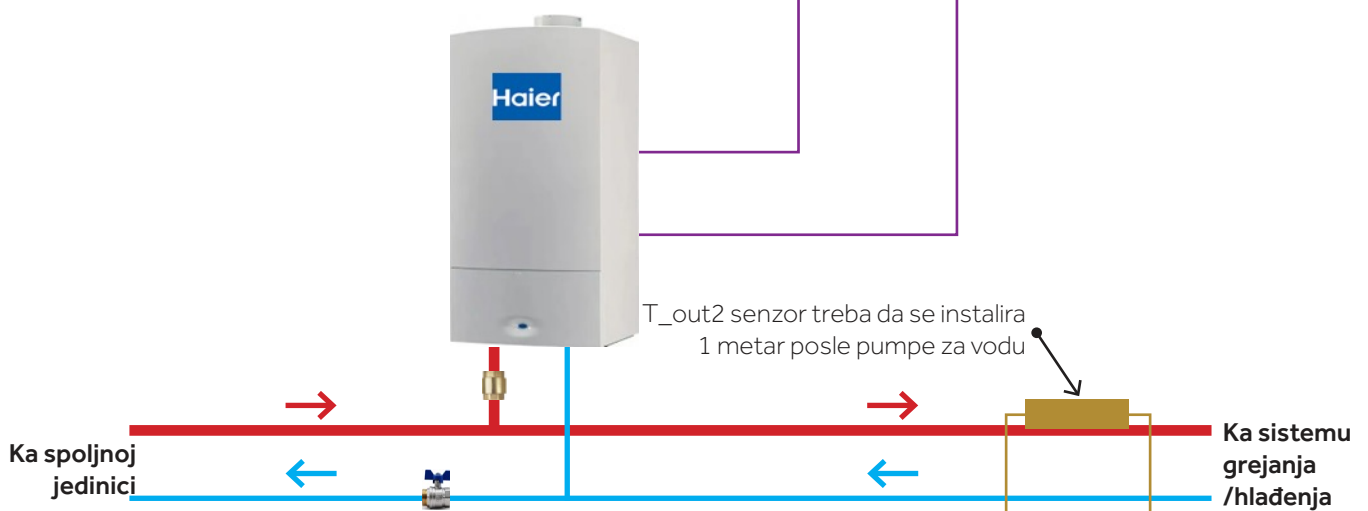


Na priključnoj ploči broj 5, između priključaka 9(23) i 10(24), moramo povezati signal za aktiviranje kotla. Ovo je digitalni izlazni signal, što znači da kada je kontakt zatvoren – kotao je uključen; kada je otvoren – kotao je isključen.

5.3.3. POJEDNOSTAVLJENA ŠEMA POVEZIVANJA

5.3.3.1. Bez akumulacionog rezervoara

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			

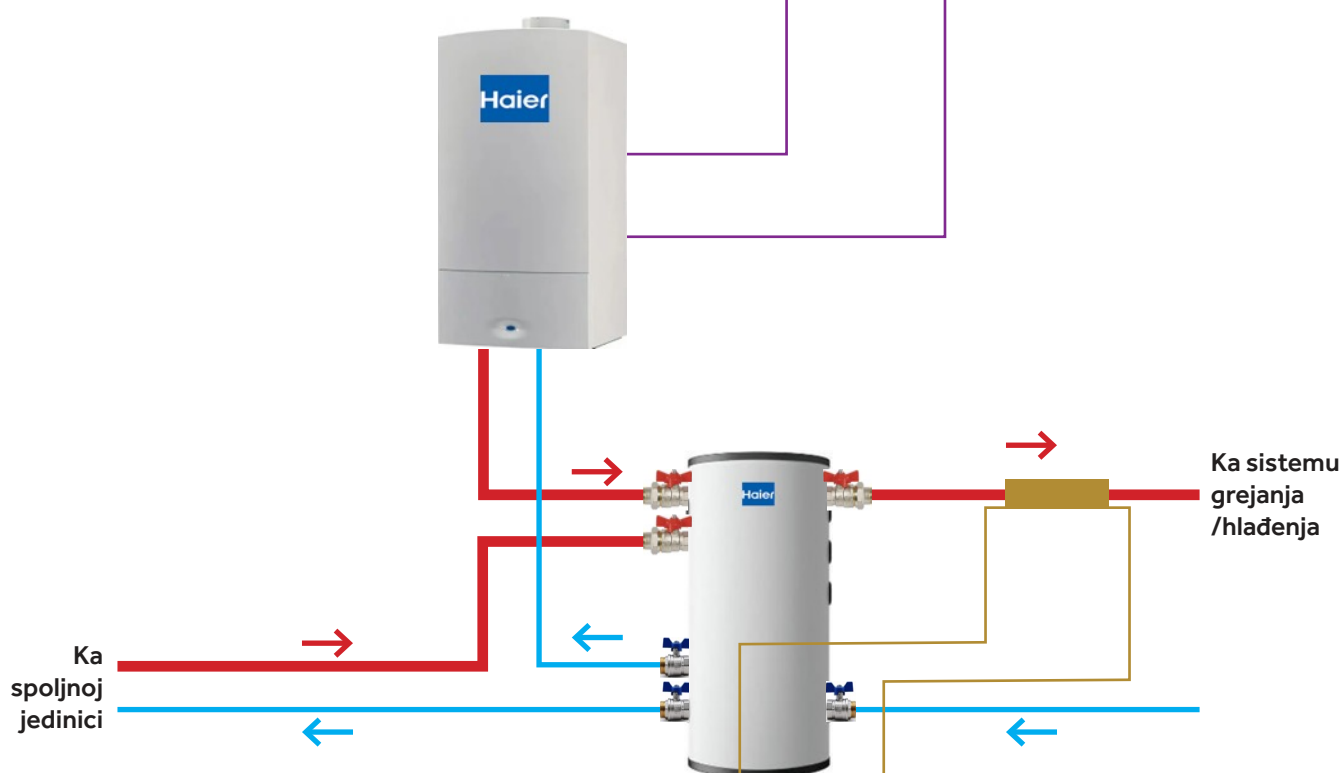


9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T _{out2}	

	Kotao		Povratni ventil
	Kuglasti ventil		T _{out2}
	Kuglasti ventil		
	Odlazni vod		
	Povratni vod		

5.3.3.2. Sa akumulacionim rezervoarom

1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	N	K	L	N	K	L	N	L	N	L	N	L	N
3-Way Valve			Mixing valve			DHW Heater		Floor Valve		Pump 1		Pump 2	
1(15)	2(16)	3(17)	4(18)	5(19)	6(20)	7(21)	8(22)	9(23)	10(24)	11(25)	12(26)	13(27)	14(28)
				L	N	L	N	Voltage-free contact Boiler		Voltage-free contact			
				Heater 1		Heater 2				Error			



9	10	11	12	13	14	15	16
GND	L	M	H	A	B	X	Y
Tw zone_1		Tw zone_2		STOP		T_out2	

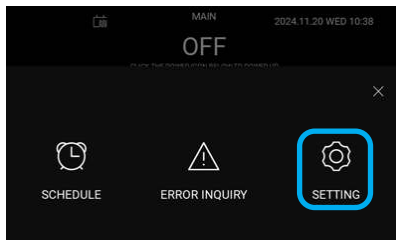
	Kotao		Akumulacioni rezervoar
	Kuglasti ventil		Povratni ventil
	Kuglasti ventil		T_out2
	Odlazni vod		
	Povratni vod		

5.3.4. POSTAVKE KONTROLERA

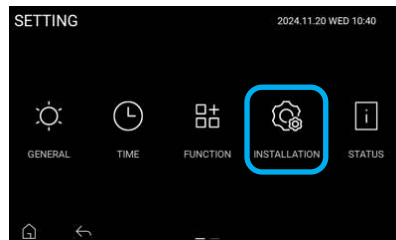
Glavne postavke instalacije opreme



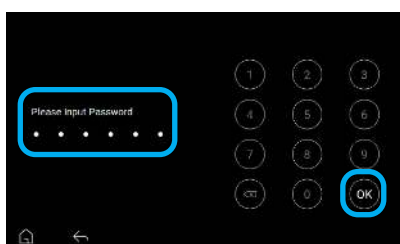
1



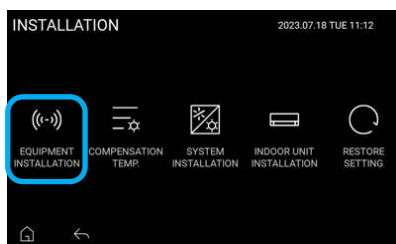
2



3



4 * Lozinka „841226“ OK



5



← Uključeno
← Isključeno
← Isključeno
← Isključeno

* IZABERITE UKLJUČENO DA AKTIVIRATE ZONU 1

Funkcija	Granice parametra	Postavke
Zona 1	UKLJUČENO/ISKLJUČENO	UKLJUČENO



← 26°C
← 20°C
← Uključeno
← 0°C

* IZABERITE UKLJUČENO DA AKTIVIRATE BIVALENTNU VEZU
* PODESITE BIVALENTNU TEMPERATURU

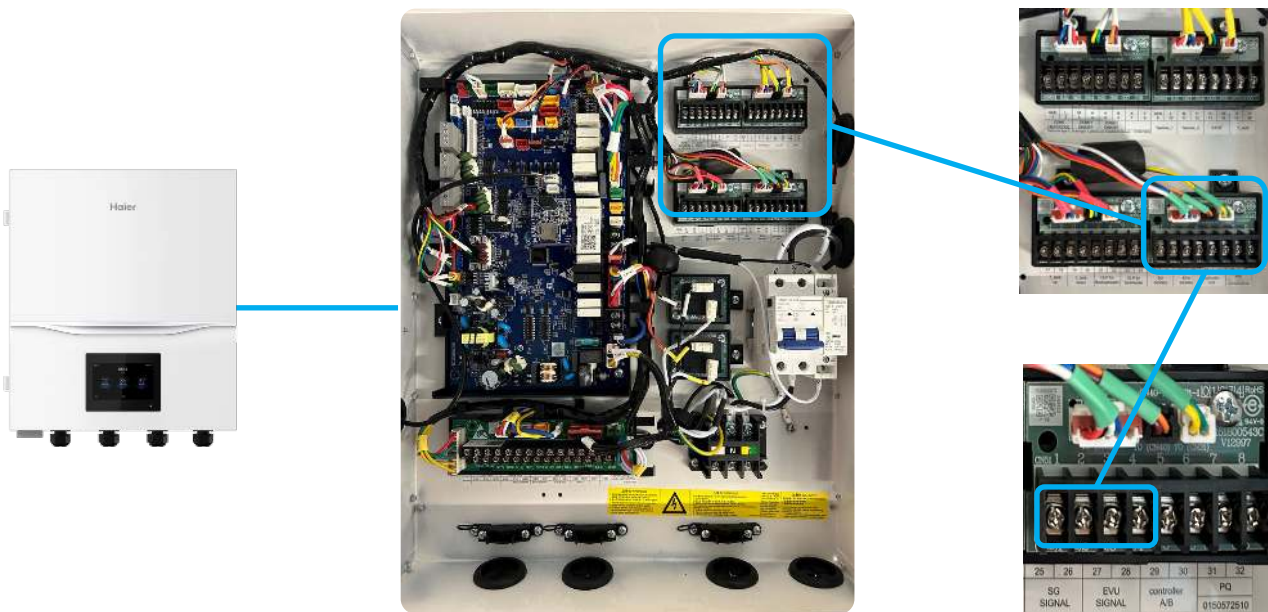
Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
Bivalentna veza	UKLJUČENO/ISKLJUČENO	UKLJUČENO
Bivalentna temp.	-20 – 20°C	0°C

* PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.

6.0. SG READY - SPREMNO ZA PAMETNU MREŽU

6.1. POVEZIVANJE



Prikjučna ploča
4

Priključna ploča

25	26	27	28	29	30	31	32
GND	L	M	H	A		X	Y
SG signal		EVU signal		Kontroler A/B		Kvalitet el. energije	
SG1		SG2					

Na priključnoj ploči broj 4, između priključaka 25 (GND) i 26 (L), imamo signal bez napona za pametnu mrežu SG. Takođe, na priključnoj ploči broj 4, između priključaka 27 (M) i 28 (H), imamo signal bez napona za EVU signal.

Imajte u vidu da postoji kašnjenje od 10 sekundi od prijema SG signala do njegovog prikazivanja na ekranu.

Logička kontrola

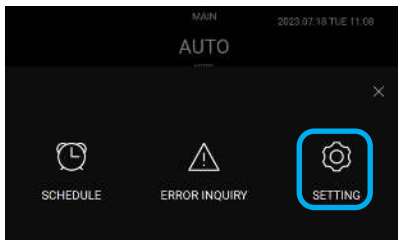
Prikaz statusa na kontroleru	Ulazni signal		Radnja		
	SG signal	EVU signal	Grejanje	Hlađenje	DHW
	Otvoren	Otvoren	Zadržava trenutni režim rada	Zadržava trenutni režim rada	Zadržava trenutni režim rada
SG1	Zatvori	Otvoren	Toplotna pumpa nije dostupna	Režim hlađenja nije dostupan	Toplotna pumpa nije dostupna
SG2	Otvoren	Zatvori	+A°C na trenutno podešenu temp. Napomena A: Od 2 do 6 °C se može podesiti na kontroleru, podrazumevano je 4 °C	+D°C na trenutno podešenu temp. Napomena D: Od -2 do 6 °C se može podesiti na kontroleru, podrazumevano je 4 °C	+B°C na trenutno podešenu temp. Napomena B: Od 4 do 8 °C se može podesiti na kontroleru, podrazumevano je 4 °C
Sg3	Zatvori	Zatvori	Regulacija po temp. vode: promena na maks. grejanje (osim kod kontrole 3. strane). Regulacija po sobnoj temp.: promena podešavanja na 26 °C	Regulacija po temp. vode: promena na maks. hlađenje (osim kod kontrole 3. strane). Regulacija po sobnoj temp.: promena podešavanja na 20 °C	Promena temp. na maks. DHW podešavanje

6.2. POSTAVKE KONTROLERA

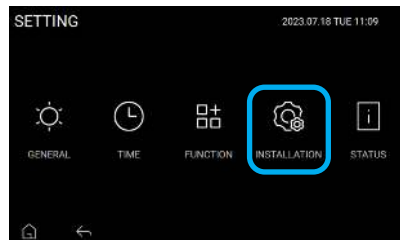
Glavne postavke instalacije opreme



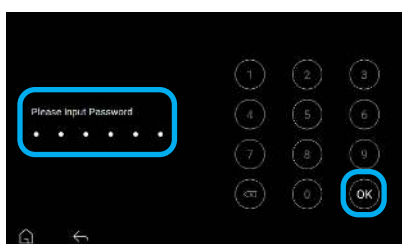
1



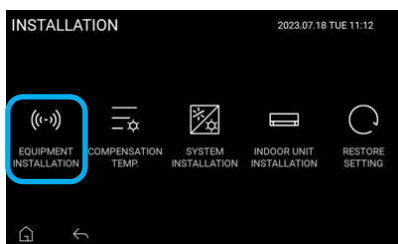
2



3



4 * Lozinka „841226“ OK



5



← UKLJUČENO

← 4 °C

← 6 °C

← -4 °C

* IZABERITE UKLJUČENO DA AKTIVIRATE PAMETNU MREŽU (SG)

OVDE PODESITE TEMPERATURU NA KOJOJ ŽELITE DA JEDINICA RADI U REŽIMU PAMETNE MREŽE (SG)

Funkcija	Granice parametra	Postavke
SG Ready kontrola	UKLJUČENO/ISKLJUČENO	UKLJUČENO
SG2 kompenzaciona temp. grejanja	2–6 °C	4 °C
SG2 kompenzaciona temp. DHW	4–8 °C	6 °C
SG2 kompenzaciona temp. hlađenja	-2 – -6 °C	-4 °C



← 26 °C

← 20 °C

← Uključeno

← 0 °C

Pritisnite ikonicu kuće za povratak u glavni meni

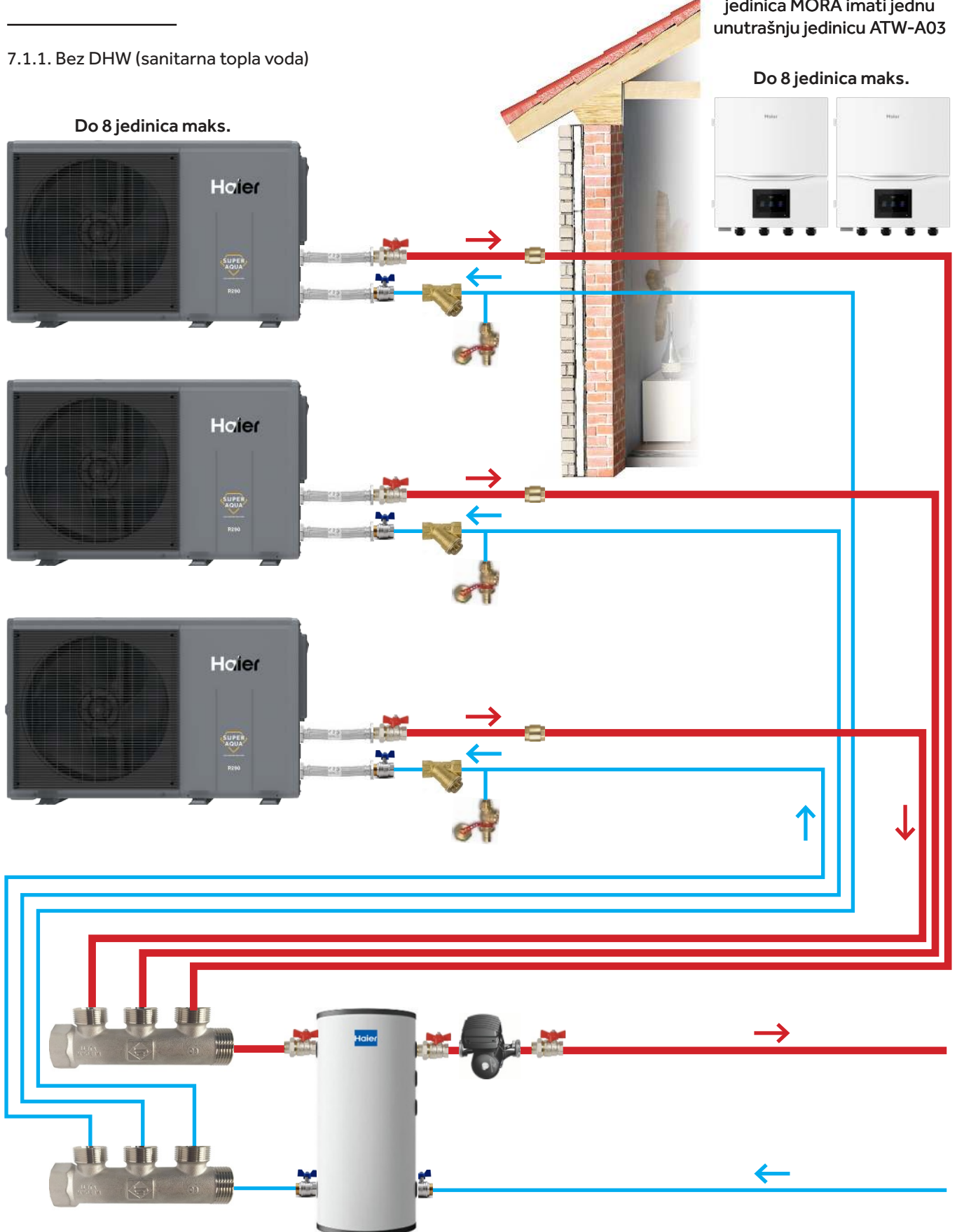
Funkcija	Granice parametra	Postavke
SG3 temp. grejanja	16–30 °C	26 °C
SG3 temp. hlađenja	16–30 °C	20 °C

7.0. KASKADA

7.1. POJEDNOSTAVLJENA HIDRAULIČKA ŠEMA

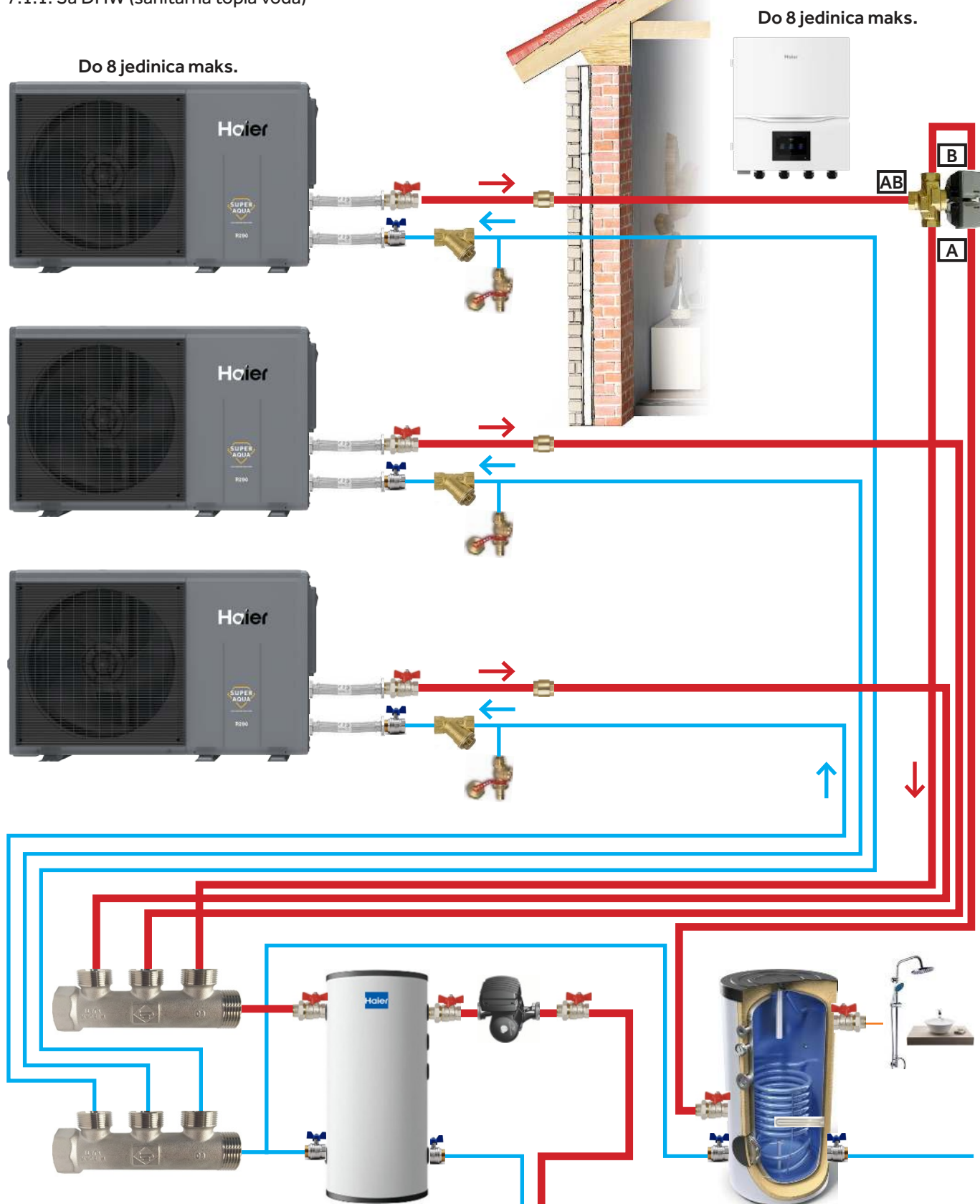
7.1.1. Bez DHW (sanitarna topla voda)

imajte u vidu da svaka spoljna jedinica MORA imati jednu unutrašnju jedinicu ATW-A03



7.1.1. Sa DHW (sanitarna topla voda)

imajte u vidu da svaka spoljna jedinica MORA imati jednu unutrašnju jedinicu ATW-A03



Važno: svi elementi instalacije moraju biti odgovarajuće veličine u odnosu na kapacitet sistema grejanja.

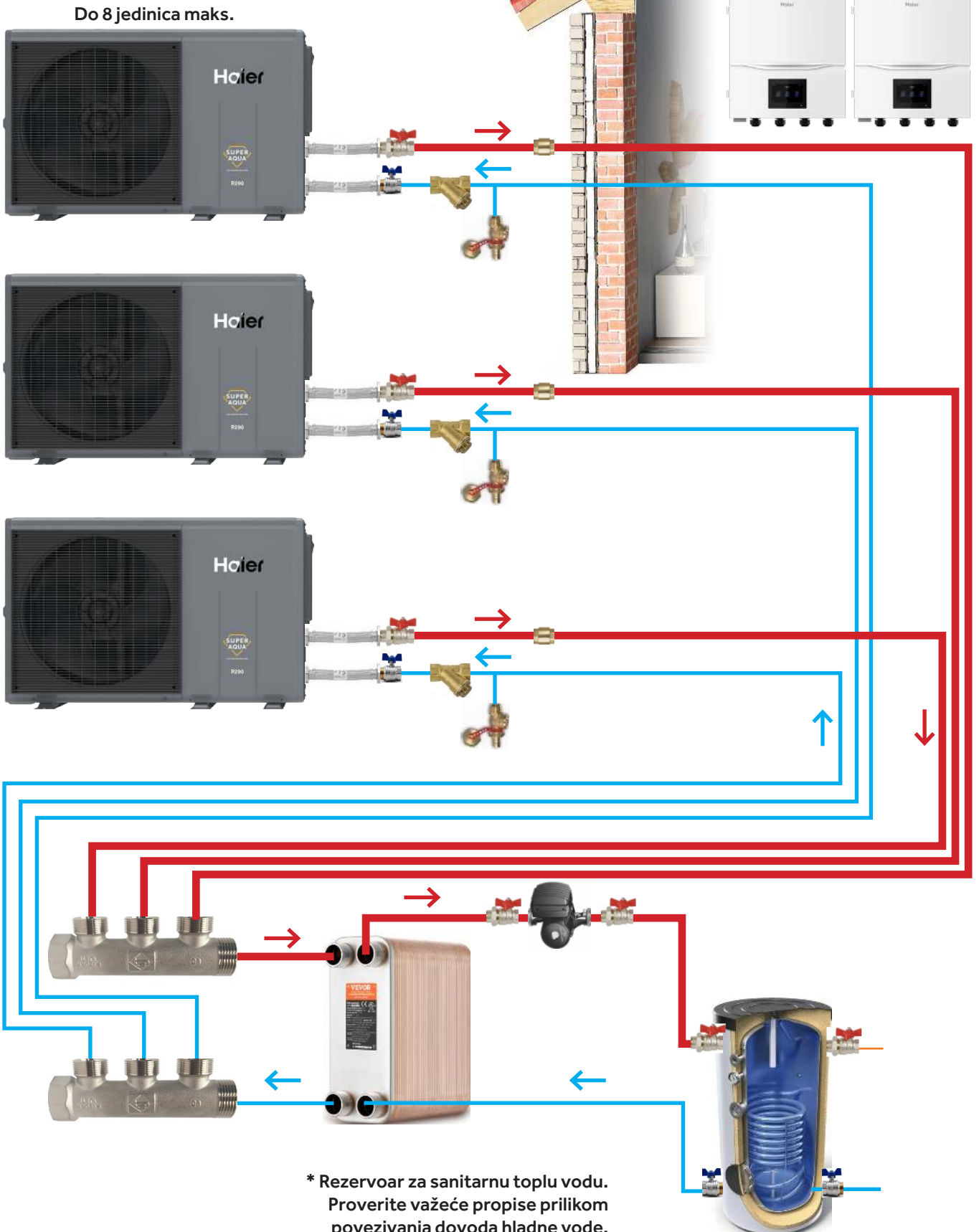
* Rezervoar za sanitarnu toplu vodu. Proverite važeće propise prilikom povezivanja dovoda hladne vode.

SVE ŠEME I SVA DODATNA OPREMA PRIKAZANI SU SAMO KAO PRIMER
INSTALACIJE I MORAJU SE IZVODITI U SKLADU
SA VAŽEĆIM STANDARDIMA.

7.1.1. Samo DHW (sanitarna topla voda)

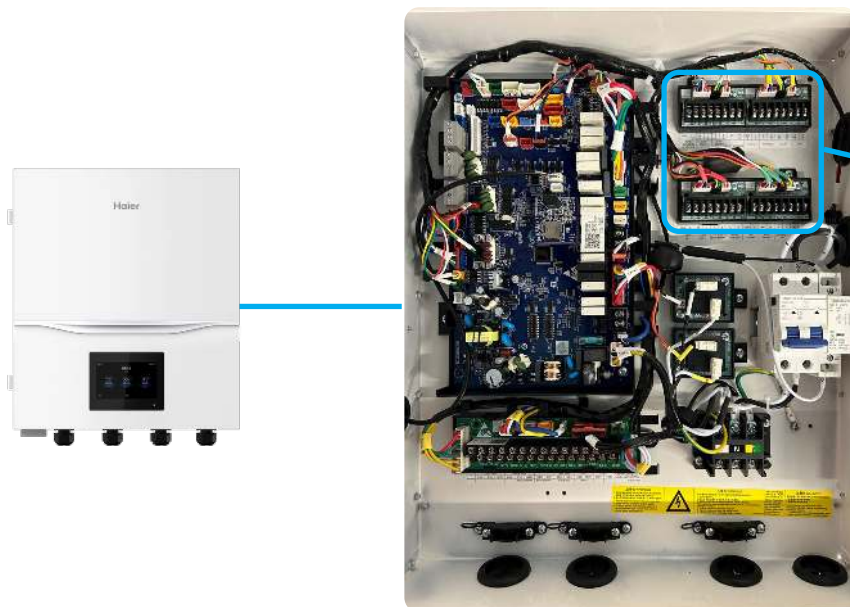
imajte u vidu da svaka spoljna
jedinica MORA imati jednu
unutrašnju jedinicu ATW-A03

Do 8 jedinica maks.



7.2. POVEZIVANJE

Ožičenje glavne i sporedne jedinice



Priključna ploča 4

Priključna ploča 4 - glavna

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG signal		EVU signal		Kontroler A/B		Kvalitet el. energije	

Na priključnoj ploči 4 glavne jedinice, između priključaka 29 (A) i 30 (B), povezujemo sabirni komunikacioni vod sa sporednim jedinicama.

Priključna ploča 4 - sporedna 1

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG signal		EVU signal		Kontroler A/B		Kvalitet el. energije	

Na priključnoj ploči 4 sporedne jedinice 1, između priključaka 29 (A) i 30 (B), povezujemo sabirni komunikacioni vod sa glavnom i sporednim jedinicama.

Priključna ploča 4 - sporedna 2

25	26	27	28	29	30	31	32
GND	L	M	H	A	B	X	Y
SG signal		EVU signal		Kontroler A/B		Kvalitet el. energije	

Na priključnoj ploči 4 sporedne jedinice 2, između priključaka 29 (A) i 30 (B), povezujemo sabirni komunikacioni vod sa glavnom i sporednim jedinicama.

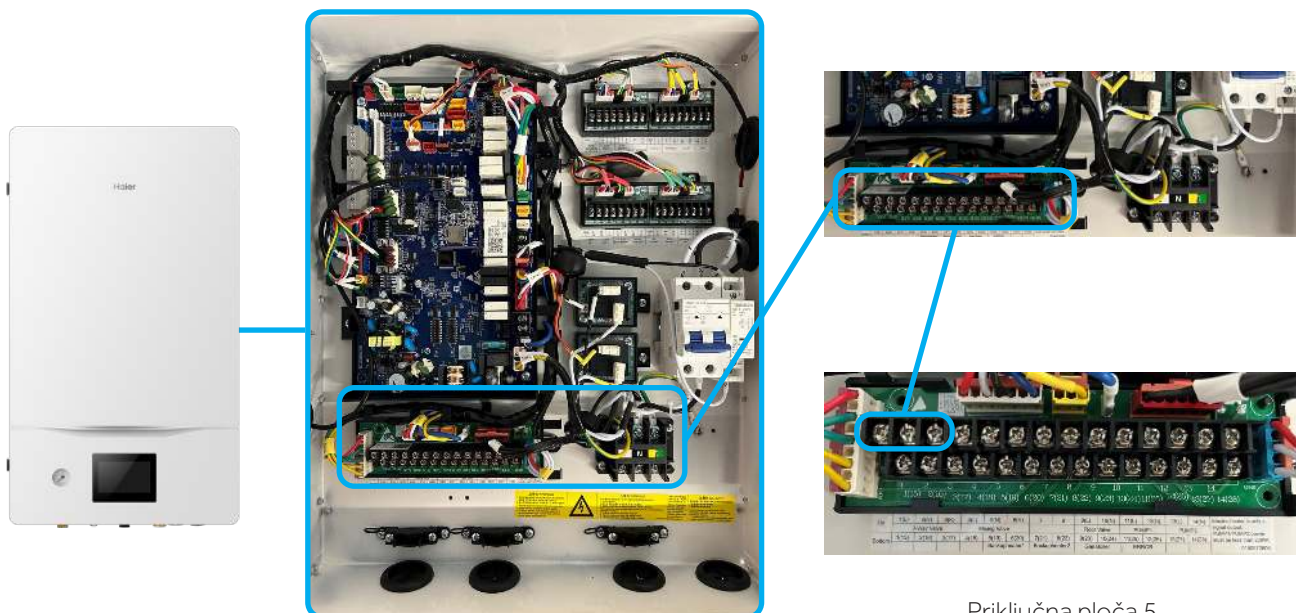
Do 8 jedinica maks.

* Povezivanje između ATW-A03N i ATW-A03N mora se izvršiti oklopljenim kablom dimenzija 2x0,75 mm.

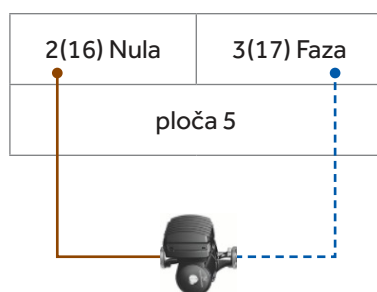
* Povezivanje mora biti izvedeno kao serijska veza. Zvezdasto povezivanje je zabranjeno.

7.2. POVEZIVANJE

Samo DHW – Vodena pumpa za sekundarni krug



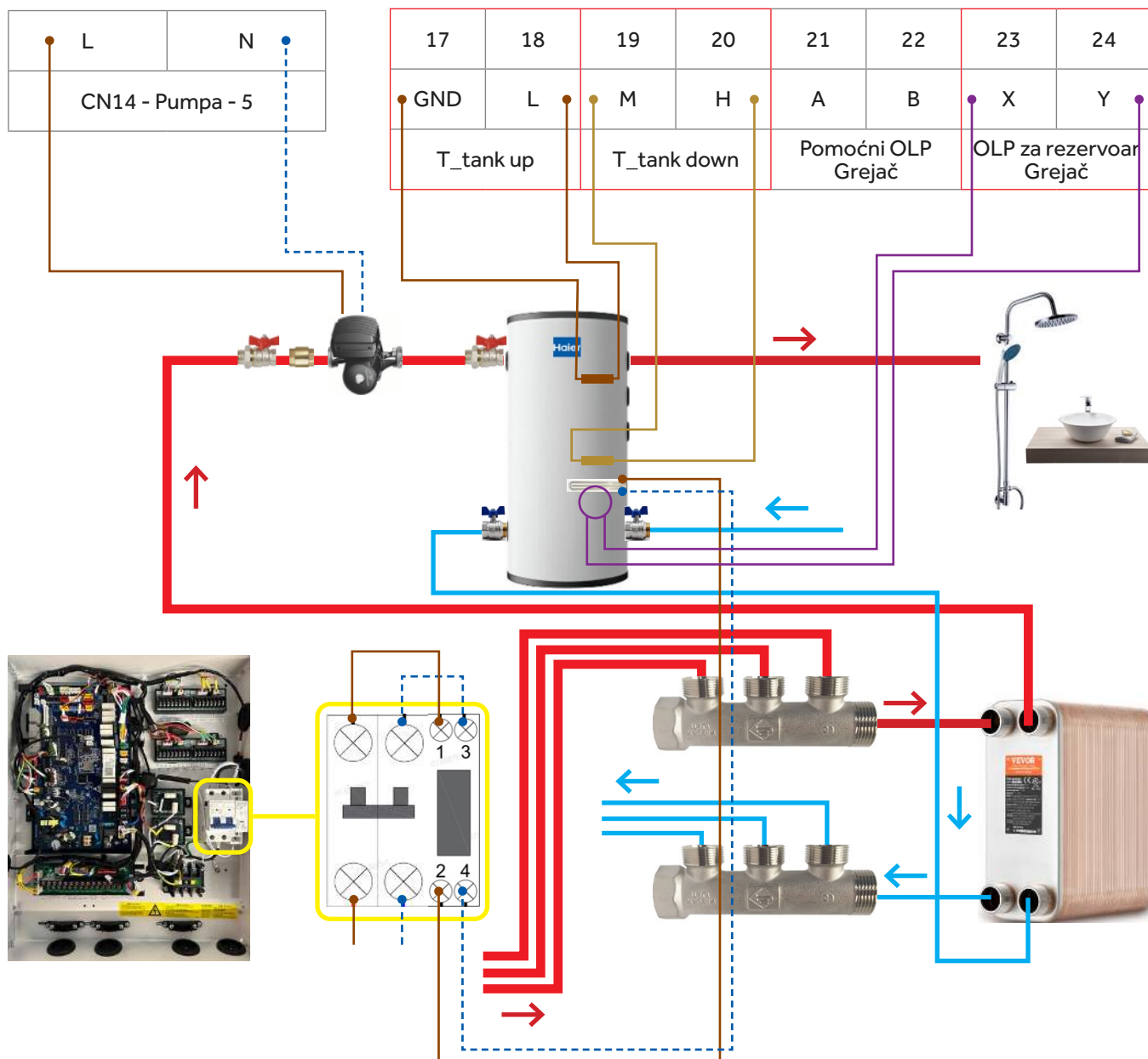
Priključna ploča 5



Na priključnoj ploči broj 5, između priključaka 2(16) N i 3(17)L, možemo povezati vodenu pumpu za sekundarni krug, posle izmenjivača toplote. Na ovom priključku imamo izlazni napon od 230 V AC. Maksimalna električna snaga koju ovaj kontakt može da podnese iznosi 200 W.

7.3. POJEDNOSTAVLJENA ŠEMA POVEZIVANJA

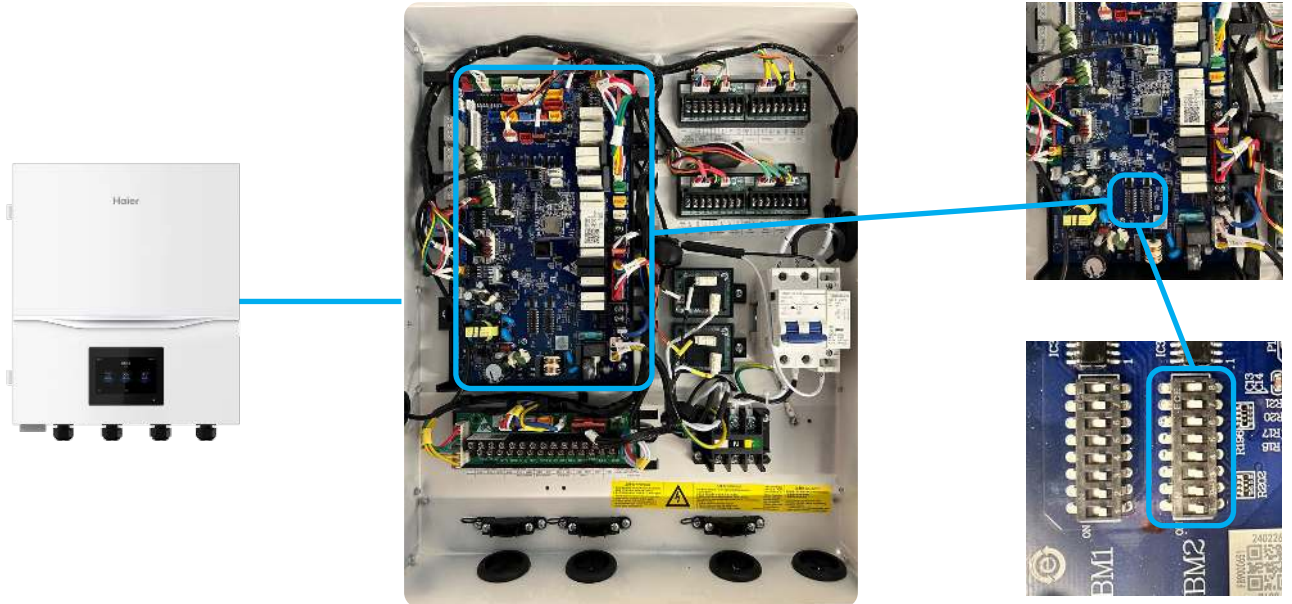
Samo DHW – Vodena pumpa za sekundarni krug



	Kuglasti ventil		Povratni ventil		Senzor temp. T_tank up
	Kuglasti ventil		OLP		Linija
	Odlazni vod		Rezervoar DHW		Nula
	Povratni vod		Pločasti izmenjivač toplote		Električni grejač
	Pumpa za vodu		Senzor temp. T_tank up		

7.4. POVEZIVANJE

Postavke DIP prekidača



		[2]	[3]	[4]	Cascade address
		0	0	0	Main unit(Default)
		0	0	1	Sub unit 1#
BM1_2	Cascade address	0	1	0	Sub unit 2#
BM1_3		0	1	1	Sub unit 3#
BM1_4		1	0	0	Sub unit 4#
		1	0	1	Sub unit 5#
		1	1	0	Sub unit 6#
		1	1	1	Sub unit 7#

*** DIP PREKIDAČEM BM1
PODESITE GLAVNU
JEDINICU I ADRESNI
BROJ.**

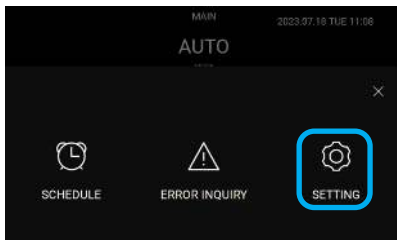
Promenite BM1, prekidače broj 2 do 4, da biste adresirali jedinicu kao gore navedeno.

7.5. POSTAVKE KONTROLERA

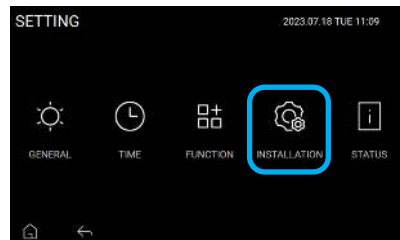
Glavne postavke instalacije sistema



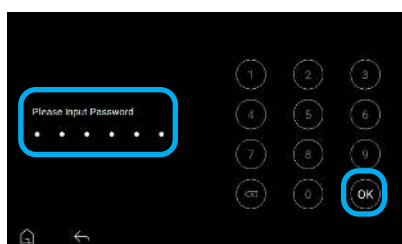
1



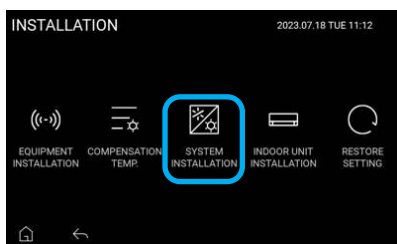
2



3



4 * Lozinka „841226“ OK



5



← Ništa

← 5 °C

← 6 °C

← **Uključeno**

*** IZABERITE UKLJUČENO DA AKTIVIRATE DHW**

Pritisnite ikonicu kuće za povratak u glavni meni

Funkcija	Granice parametra	Postavke
Funkcija DHW	UKLJUČENO/ISKLJUČENO	UKLJUČENO

*** PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.**

8.0. POSTAVKE KONTROLERA

9.0. SIGNAL PREKIDAČA KONTROLERA TREĆE STRANE

9.1. SIGNAL PREKIDAČA KONTROLERA TREĆE STRANE

Jedinicom se može upravljati na dva načina: pomoću prekidača za promenu režima hlađenje/grejanje ili pomoću odvojenih termostata. Moguće je podesiti kao tip 1 ili tip 2.

Tip 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Zahtev za grejanje (UKLJUČENO/ ISKLJUČENO) - ZONA1		Zahtev za hlađenje (UKLJUČENO/ ISKLJUČENO) - ZONA1		Zahtev za grejanje (UKLJUČENO/ ISKLJUČENO) - ZONA2		Zahtev za hlađenje (UKLJUČENO/ ISKLJUČENO) - ZONA2	

Tip 1 koristi odvojene termostate za hlađenje i grejanje.

Tip 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Grejanje / Hlađenje		Zona 1 UKLJUČENO/ ISKLJUČENO		Zona 2 UKLJUČENO/ ISKLJUČENO			

Kod tipa 2 koristi se prekidač za promenu režima hlađenje/grejanje.

9.1.1. TP 1 - NAJČEŠĆE KORIŠĆEN SISTEM



* Svi priključci na priključnim pločama 1, 2, 3 i 4 izvedeni su pomoću vijčanih stezaljki.



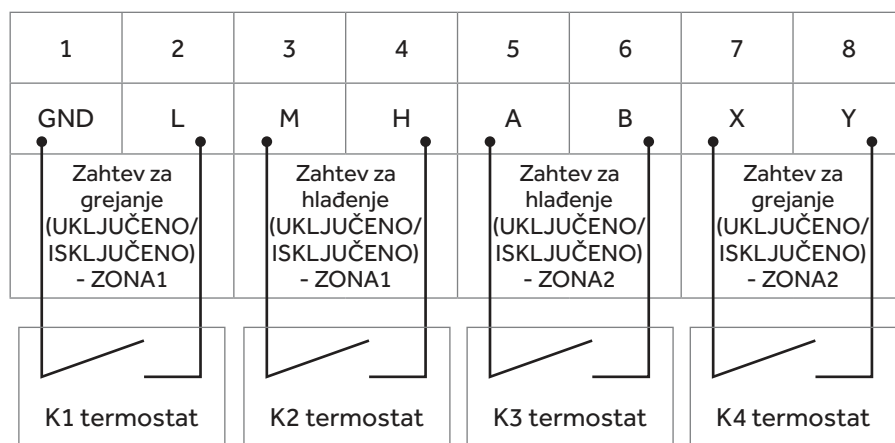
Priključna ploča 1

9.1.1. SIGNAL PREKIDAČA KONTROLERA TREĆE STRANE – TIP 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Zahtev za grejanje (UKLJUČENO/ ISKLUČENO) - ZONA1		Zahtev za hlađenje (UKLJUČENO/ ISKLUČENO) - ZONA1		Zahtev za grejanje (UKLJUČENO/ ISKLUČENO) - ZONA2		Zahtev za hlađenje (UKLJUČENO/ ISKLUČENO) - ZONA2	

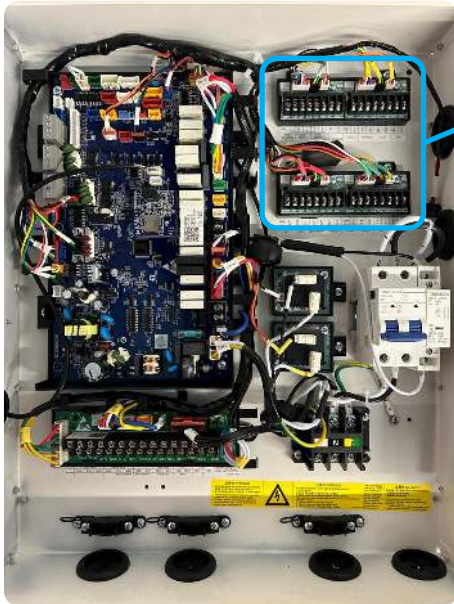
- 1) Svi kontakti su bez napona.
- 2) Ovo podešavanje se koristi kad postoje odvojeni termostati za hlađenje i grejanje.
- 3) Kada su 1 i 2 povezani, jedinica će započeti u režimu grejanja, a kada su povezani 3 i 4, jedinica će se pokrenuti u režimu hlađenja.
- 4) Kada su 5 i 6 povezani, jedinica će započeti u režimu grejanja zone 2, a kada su povezani 7 i 8, jedinica će se pokrenuti u režimu hlađenja zone 2.
- 5) Ne smete istovremeno poslati komandni signal za grejanje i hlađenje.

Pojednostavljena šema povezivanja



- 1) Svi kontakti su bez napona.
- 2) Ovo podešavanje se koristi kad postoje odvojeni termostati za hlađenje i grejanje.
- 3) Kada su 1 i 2 iz zone 1 povezani, jedinica će započeti u režimu grejanja zone 1, a kada su povezani 3 i 4, jedinica će se pokrenuti u režimu hlađenja.
- 4) Kada su 5 i 6 povezani, jedinica će započeti u režimu hlađenja zone 2, a kada su povezani 7 i 8, jedinica će se pokrenuti u režimu grejanja zone 2.
- 5) Ne smete istovremeno poslati komandni signal za grejanje i hlađenje.

9.1.2. SIGNAL PREKIDAČA KONTROLERA TREĆE STRANE – TIP 2 REĐE KORIŠĆEN



* Svi priključci na priključnim pločama 1, 2, 3 i 4 izvedeni su pomoću vijčanih stezaljki.



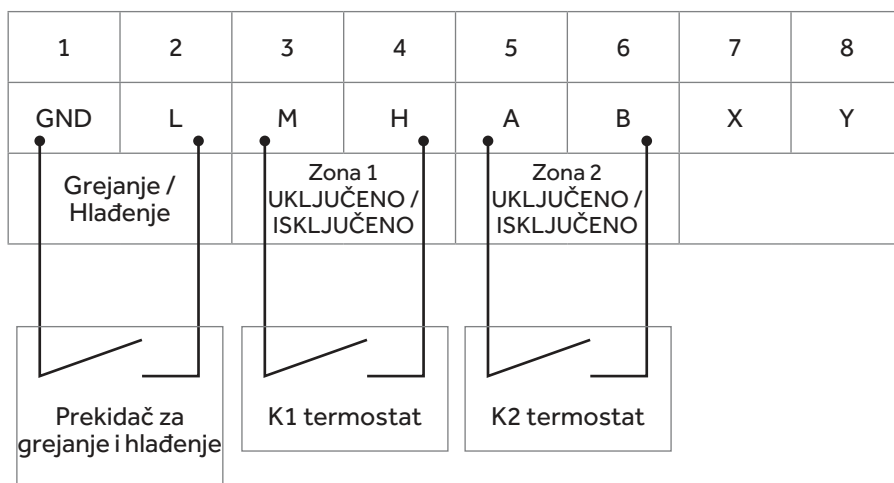
Priključna ploča 1

1	2	3	4	5	6	7	8
GND	L	M	H	A	B	X	Y
Grejanje / Hlađenje		Zona 1 UKLJUČENO/ ISKLUČENO		Zona 2 UKLJUČENO/ ISKLUČENO			

- 1) Svi kontakti su bez napona.
- 2) Ovo podešavanje se koristi kad upotrebljavate kombinovani termostat za hlađenje i grejanje.
- 3) Kada su 1 i 2 povezani, jedinica je u režimu hlađenja. Kada se prekine kontakt između 1 i 2, jedinica je u režimu grejanja.
- 4) Kada su 3 i 4 povezani, jedinica će se pokrenuti u režimu hlađenja ili grejanja.
- 5) Kada su 5 i 6 povezani, jedinica će se pokrenuti u režimu hlađenja ili grejanja. Zona 2
- 6) Ako nema komandnog signala od zahteva ni iz zone 1 ni iz zone 2, jedinica pre prestati da greje i hladi. Nastaviće se režim DHW.

Tip 2

Pojednostavljena šema povezivanja



Prekidač za grejanje i hlađenje: uključen za režim hlađenja, isključen za režim grejanja

K1: uključen za aktiviranje grejanja / hlađenja zone 1; isključen za prestanak.

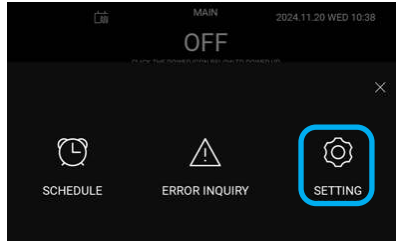
K3: uključen za aktiviranje grejanja / hlađenja zone 2; isključen za prestanak.

9.1.3. POSTAVKE KONTROLERA

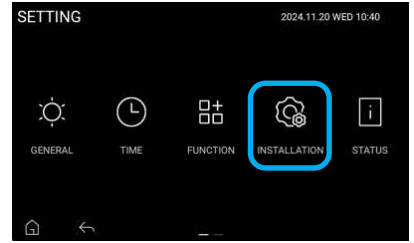
Glavne postavke instalacije sistema



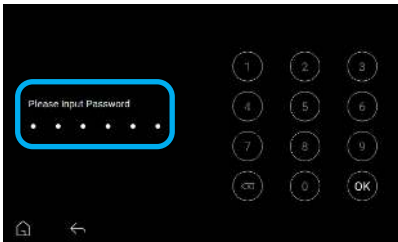
1



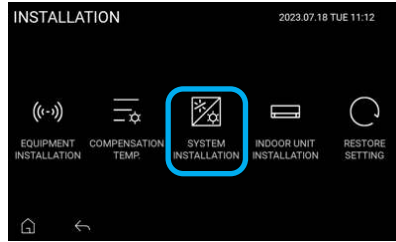
2



3



4 * Lozinka „841226“



5



← Kontroler treće strane * IZABERITE REŽIM KONTROLE ZA ZONU 1

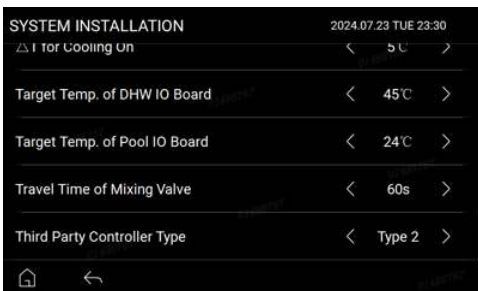
← Kontroler treće strane * IZABERITE REŽIM KONTROLE ZA ZONU 2

← Glavni kontroler

← Glavni kontroler

Funkcija	Granice parametra	Postavke
Režim kontrole zone 1	Glavni kontroler, kontroler treće strane	Kontroler treće strane
Kontrolni režim zone 2	Glavni kontroler, kontroler treće strane	Kontroler treće strane

OVAJ MENI SE NALAZI 2 STRANICE NIŽE



← 60s

← Tip 1

* PAŽNJA! IZABERITE U SKLADU SA SVOJOM INSTALACIJOM: TIP 1 ILI TIP 2

IZABERITE TIP KONTROLERA TREĆE STRANE

Funkcija	Granice parametra	Postavke
Tip kontrolera treće strane	Tip 1 / Tip 2	Tip 1

* PARAMETRI KOJE TREBA PROMENITI, OZNAČENI SU PLAVOM BOJOM.

10.0. DODACI

10.0. DODACI

Pregled ATW-A03N



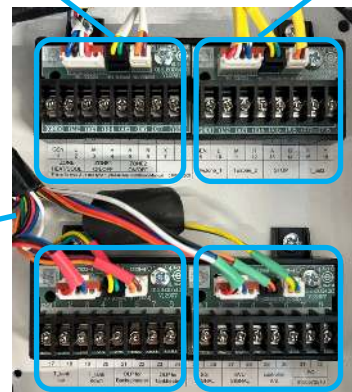
Priključna ploča 1



Priključna ploča 2



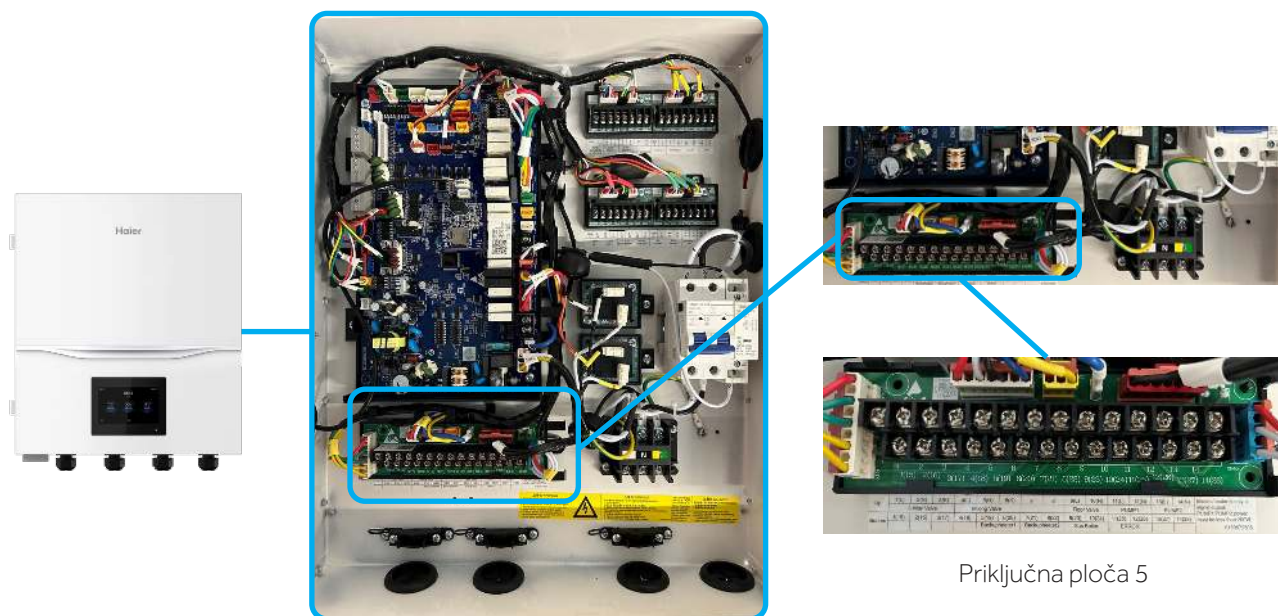
Priključna ploča 3



* Svi priključci na priključnim pločama 1, 2, 3 i 4 izvedeni su pomoću vijčanih stezaljki.



Priključna ploča 4

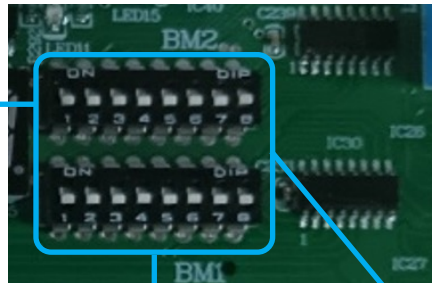


Prijlučna ploča 5

*** SVI PRIKLJUČCI NA PRIKLJUČNOJ PLOČI 5 IZVEDENI SU POMOĆU VIJČANIH STEZALJKI.**

10.0. DODACI

Postavke DIP prekidača - Jednofazna instalacija - 1F spoljna jedinica

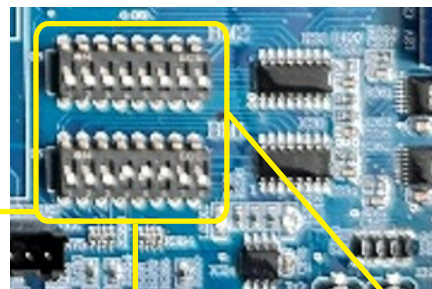
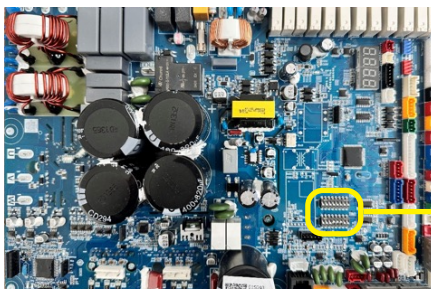


BM1_1	Capacity control	[1]	Capacity control method
		0	Normal control(default)
BM1_2 BM1_3 BM1_4 BM1_5	Outdoor unit model	[2]	0~10V control(ATW-A02)
		[2] [3] [4] [5]	Outdoor unit model
		0 0 0 0	AW042MUGHA
		0 0 0 1	AW062MUGHA
		0 0 1 0	AW082MUGHA
		0 0 1 1	AW102(N)MUGHA
BM1_6	Power supply type	[6]	Power supply type
		0	Single phase
		1	Three phase
		[7] [8]	Outdoor unit running mode
BM1_7 BM1_8	Running mode	0 0	Normal mode(default)
		0 1	Turbo mode
		1 0	Quiet mode
		1 1	Test mode



BM2_1 BM2_2 BM2_3	type	[1] [2] [3]	Outdoor type selection
		0 0 0	Monobloc(default)
		0 0 1	Hydro split
		0 1 0	Hydro all in one
BM2_4	Refrigerant type	door0	1 1 Split
		type1	0 0 Split all in one
			1 0 1 Reserved
			1 1 0 Reserved
BM2_5 BM2_6 BM2_7 BM2_8	Reserved	[4]	Refrigerant type selection
		gera0	R290(default)
		nt type1	R32
		[5] [6] [7] [8]	Reserved
		0 0 0 0	Reserved(default)

Postavke DIP prekidača - Trofazna instalacija - 1F spoljna jedinica

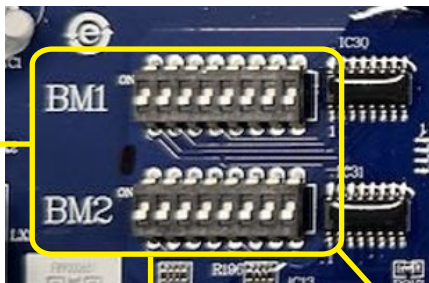


BM1_1	Capacity control	[1]	Capacity control method
		0	Normal control(default)
BM1_2 BM1_3 BM1_4 BM1_5	Outdoor unit model	[2]	0~10V control(ATW-A02)
		[2] [3] [4] [5]	Outdoor unit model
		0 0 0 0	AW042MUGHA
		0 0 0 1	AW062MUGHA
		0 0 1 0	AW082MUGHA
		0 0 1 1	AW102(N)MUGHA
BM1_6	Power supply type	[6]	Power supply type
		0	Single phase
		1	Three phase
		[7] [8]	Outdoor unit running mode
BM1_7 BM1_8	Running mode	0 0	Normal mode(default)
		0 1	Turbo mode
		1 0	Quiet mode
		1 1	Test mode



BM2_1 BM2_2 BM2_3	type	[1] [2] [3]	Outdoor type selection
		0 0 0	Monobloc(default)
		0 0 1	Hydro split
		0 1 0	Hydro all in one
BM2_4	Refrigerant type	door0	1 1 Split
		type1	0 0 Split all in one
			1 0 1 Reserved
			1 1 0 Reserved
BM2_5 BM2_6 BM2_7 BM2_8	Reserved	[4]	Refrigerant type selection
		gera0	R290(default)
		nt type1	R32
		[5] [6] [7] [8]	Reserved
		0 0 0 0	Reserved(default)

Postavke DIP prekidača - ATW-A03



BM1_1	Indoor Type	[1]	Indoor Type			
		0	ATW-A03(Default)			
BM1_2 BM1_3 BM1_4	Cascade address	1	/			
		[2]	[3]	[4]	Cascade address	
		0	0	0	Main unit(Default)	
		0	0	1	Sub unit 1#	
		0	1	0	Sub unit 2#	
		0	1	1	Sub unit 3#	
		1	0	0	Sub unit 4#	
		1	0	1	Sub unit 5#	
BM1_5 BM1_6 BM1_7 BM1_8	Capacity	[5]	[6]	[7]	[8]	ODU capacity selection
		0	0	0	0	AW042MUGHA
		0	0	0	1	AW062MUGHA
		0	0	1	0	AW082MUGHA
		0	0	1	1	AW102(N)MUGHA
		1	0	0	0	AW122(N)MXGHA
1	0	0	1	AW142(N)MXGHA		
1	0	1	0	AW162(N)MXGHA		

BM2_1	communication Address setting mode	[1]	Outdoor communication address setting mode					
		0	Automatic setting (default)					
BM2_2	Water tank sensor selection	1	Dip switch set address					
		[2]	Water tank sensor selection					
BM2_3 BM2_4 BM2_5 BM2_6 BM2_7 BM2_8	Address	0	2 sensors, T_tank up and T_tank down (default)					
		1	Only 1 sensor, T_tank up					
BM2_3 BM2_4 BM2_5 BM2_6 BM2_7 BM2_8	Address	[3]	[4]	[5]	[6]	[7]	[8]	Address
		0	0	0	0	0	0	0#(default)
		0	0	0	0	0	1	1#
		0	0	0	0	1	0	2#
...	

11.0. PRILOG

11.0. PRILOG

Preporučene brzine protoka za svaki sistem

Jedinica kW	delta T	protok l/min	protok m ³ /h	delta T	protok l/min	protok m ³ /h
4	5	11,5	0,7	7	8,2	0,5
6	6	14,4	0,9	7	12,3	0,7
8	5	23,0	1,4	7	16,4	1,0
10	5	28,7	1,7	7	20,5	1,2
12	5	34,4	2,1	7	24,6	1,5
14	5	40,2	2,4	7	28,7	1,7
16	5	45,9	2,8	7	32,8	2,0

Kapacitet cevovoda

U cilju sprečavanja buke, maksimalni preporučeni kapaciteti po cevima su sledeći

Pri delta T od 5 °C:

prečnik mm	brzina m/s	delta t	protok m ³ /h	protok l/min	kWs
6	1,2	5	0,1	1,3	0,5
8	1,2	5	0,2	2,6	0,9
10	1,2	5	0,3	4,4	1,5
12	1,2	5	0,4	6,6	2,3
15	1,2	5	0,6	10,5	3,6
22	1,2	5	1,4	23,1	8,0
28	1,2	5	2,3	38,8	13,5
35	1,2	5	3,6	60,1	20,9

Pri delta T od 7 °C:

prečnik mm	brzina m/s	delta t	protok m ³ /h	protok l/min	kWs
6	1,2	7	0,1	1,3	0,6
8	1,2	7	0,2	2,6	1,3
10	1,2	7	0,3	4,4	2,1
12	1,2	7	0,4	6,6	3,2
15	1,2	7	0,6	10,5	5,1
22	1,2	7	1,4	23,1	11,2
28	1,2	7	2,3	38,8	18,9
35	1,2	7	3,6	60,1	29,3

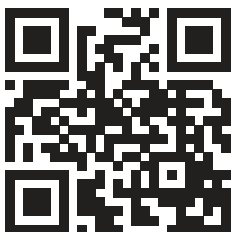
Minimalna zapremina sistema u litrima

Haier pumpa za vodu	Broj modela	Minimalna zapremina sistema u litrima
4 kW	AW042MUGHA	28,7
6 kW	AW062MUGHA	43,1
8 kW	AW082MUGHA	57,4
10 kW	AW102MUGHA	71,8
12 kW	AW122MX	86,1
14 kW	AW142MX	100,5
16 kW	AW162MX	114,8

Veličine osigurača

Haier jednofazna toplotna pumpa	Broj modela	Osigurač
4 kW	AW042M/HUGHA	16 A
6 kW	AW062M/HUGHA	16 A
8 kW	AW082M/HUGHA	20 A
10 kW	AW102M/HUGHA	20 A
12 kW	AW122MXGHA	32 A
14 kW	AW142MXGHA	32 A
16 kW	AW162MXGHA	32 A
Haier trofazna toplotna pumpa		
10 kW	AW10NMUGHA - AW102HUGHA	16 A
12 kW	AW12NMUGHA - AW122HVGHA	16 A
14 kW	AW14NMUGHA - AW142HVGHA	16 A
16 kW	AW16NMUGHA - AW162HVGHA	16 A
ATW-A03 N jednofazna unutrašnja jedinica		
Sve jedinice	ATW-A03 N	13 A

Haier
HVAC Solutions



Haier HVAC
haierhvac.eu