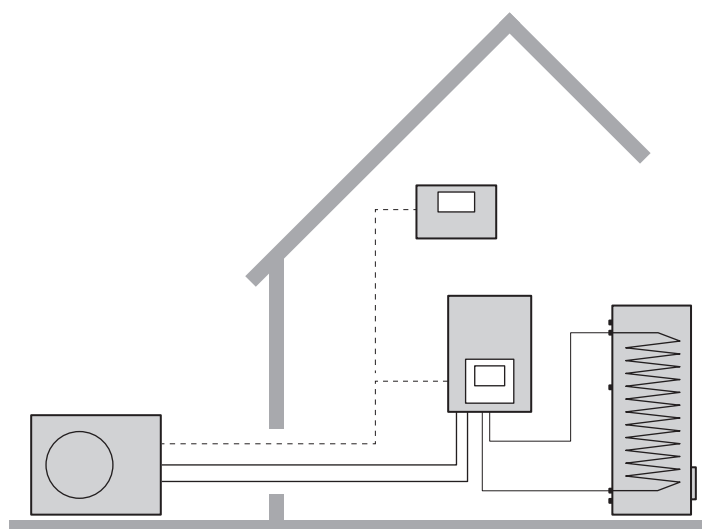


System assistant



Refrigerant-split heat pump system

aroTHERM VWL ... AS, VWL ... IS hydraulic station

AT, BE (de), CH (de), DE

Publisher/manufacture

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Contents

Contents

1	Safety	3
1.1	General safety information	3
2	Notes on the documentation	4
2.1	Observing other applicable documents	4
2.2	Working with the system assistant	4
2.3	Key for the symbols	4
2.4	Key for the basic system diagrams.....	4
2.5	Refrigerant-split heat pump systems	5
3	System without system control (0020253230)	6
3.1	Basic system diagram.....	6
3.2	Preparing for installation	8
3.3	Installing the refrigerant circuit.....	8
3.4	Heating circuit, connecting the domestic hot water and cold water pipe.....	9
3.5	Installing the electrical connections	10
3.6	Completing installation.....	10
3.7	Implementing settings on the indoor unit's control	11
4	System with system control (0020234148).....	12
4.1	Basic system diagram.....	12
4.2	Preparing for installation	14
4.3	Installing the refrigerant circuit.....	14
4.4	Heating circuit, connecting the domestic hot water and cold water pipe.....	15
4.5	Installing the electrical connections	16
4.6	Completing installation.....	16
4.7	Implementing settings on the indoor unit's control	17
4.8	Configuring the settings on the system control	18



1 Safety

1.1 General safety information

1.1.1 Risk of death due to lack of safety devices

The schematic drawings included in this document do not show all safety devices required for correct installation.

- ▶ Install the necessary safety devices in the system.
- ▶ Observe the applicable national and international laws, standards and guidelines.

1.1.2 Complying with the safety information

- ▶ Observe the safety information in the other applicable documents.

1.1.3 Using the system assistant

The system assistant does not replace the instructions that are enclosed with the installation's system components.

- ▶ Carry out a complete and proper installation and start-up, as described in detail in the instructions for the components.

1.1.4 Using the basic system diagrams

- ▶ The basic system diagrams are examples of how to set up systems.
- ▶ Choose the basic system diagram you want to use to set up your installation.
- ▶ Enter the number of the selected basic system diagram into the control's **Basic system diagram configuration** function (→ Installation instructions for the system control).

1.1.5 Using the wiring diagrams

Each basic system diagram has an associated wiring diagram that must be used.

- ▶ Only use the wiring diagram that is appropriate for the selected system.



2 Notes on the documentation

2 Notes on the documentation

2.1 Observing other applicable documents

- ▶ Always follow all the operating and installation instructions included with the system components.

2.2 Working with the system assistant

The system assistant is used to help with the system installation and start-up. The important steps are shown, depending on the selected basic system diagram. All other necessary instructions and information are described in the instructions for the system components.

- ▶ Use the references to the instructions.
- ▶ Follow the information, directions and instructions that are described here.

The settings on the control for the indoor unit and/or the system control refer to the basic system diagram that was shown before.

- ▶ Configure the system in accordance with the end user's requirements.
- ▶ Adjust the system settings to the local conditions.

2.3 Key for the symbols

Symbol	Meaning
	Cooling
	Air heat source

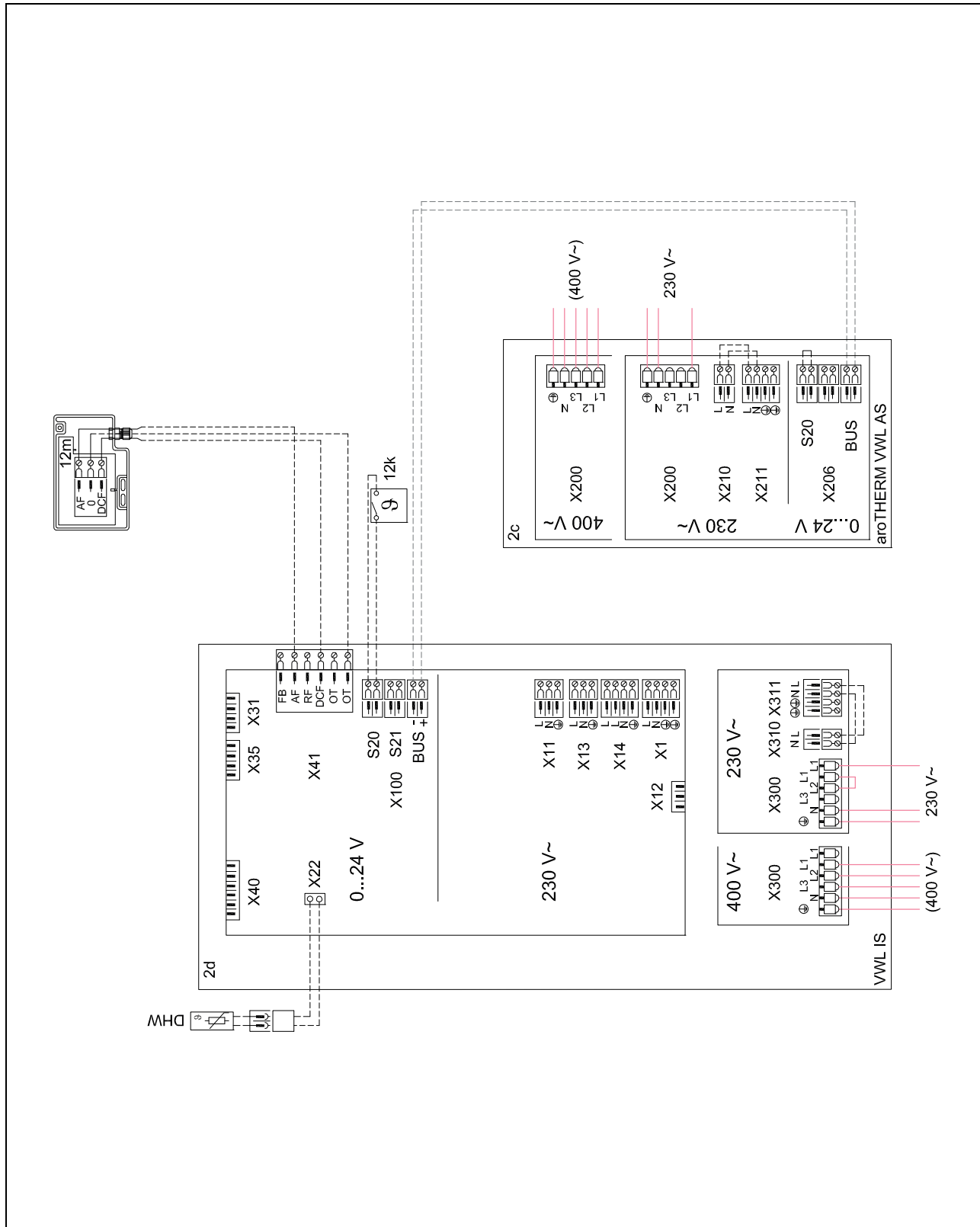
2.4 Key for the basic system diagrams

Component	Meaning
2c	outdoor unit refrigerant split
2d	indoor unit refrigerant split
3e	circulation pump DHW
5	monovalent DHW cylinder
7f	decoupler module
8b	expansion relief valve drinking water
8c	safety assembly drinking water connection
8f	expansion vessel drinking water
9a	single room temperature control valve (thermostatic, motorized)
9d	bypass valve
10c	non-return valve
12	system control
12k	overheat protection thermostat
12m	outdoor temperature sensor
12q	VR 920 communication unit

2.5 Refrigerant-split heat pump systems

Basic system diagram	Heat generator	Heat source	Heating circuits		Additional functions	System control	Special equipment
			Regulated	Non-regulated			
0020253230	aroTHERM VWL ... AS VWL ... IS hydraulic station	X	–	1	X	–	VWZ MPS 40 decoupler module uniSTOR VIH RW Outdoor temperature sensor
0020234148	aroTHERM VWL ... AS VWL ... IS hydraulic station	X	–	1	X	X	VWZ MPS 40 decoupler module uniSTOR VIH RW As of multiMATIC VRC 700/5 As of the VR 920 communication unit Circulation pump Outdoor temperature sensor

Wiring diagram



3 System without system control (0020253230)

3.2 Preparing for installation

- aroTHERM installation and maintenance instructions, from section 4.1 onwards
- Hydraulic station installation and maintenance instructions, from section 4.1 onwards
- uniSTOR installation and maintenance instructions, from section 4.1 onwards
- Decoupler module installation instructions, from section 4.1 onwards
- Accessory set-up instructions

	Work step	Selected information/measures
1	Building ► Establishing a wall duct	
2	Installation sites ► Defining the installation site	► Comply with the specific conditions for the installation site and the installation type. Important planning dimensions: – Maximum height difference between the outdoor unit and the indoor unit: 10 m – Basic length of the refrigerant pipes: Minimum 3 m, maximum 25 m – Outdoor unit pre-filled with R410A refrigerant; sufficient for refrigerant pipes up to 15 m. – Suitability of the installation site, minimum clearances and installation clearances: → aroTHERM installation and maintenance instructions, from section 4.5 onwards → Hydraulic station installation and maintenance instructions, from section 4.3 onwards → uniSTOR installation and maintenance instructions, from section 4.3 onwards → Decoupler module installation instructions, from section 4.1 onwards
3	Outdoor unit Condition: Depending on the installation type/condition ► Establishing the strip foundations ► Mounting the wall bracket ► Procuring and installing other accessories ► Setting up/installing the product	Validity: VWL 105/5 AS, VWL 125/5 AS outdoor unit ► If required, use the transport belts that are supplied. Condition: Establishing the strip foundations ► Ensure that the condensate discharge can be positioned in the centre above the downpipe.
4	Outdoor unit ► Installing the condensate discharge pipe	► Ensure that condensate does not reach paths (ice formation).
5	Indoor unit ► Installing the product	► Check the load-bearing capacity of the wall beforehand.
6	Domestic hot water cylinder ► Setting up the product	► Transport the cylinder on the pallet using a pallet truck. ► Tilt the cylinder to a maximum of 15°. ► Only remove the protective thread caps once at the installation site.
7	Decoupler module ► Installing the product	► Check the load-bearing capacity of the wall beforehand.

3.3 Installing the refrigerant circuit

- aroTHERM installation and maintenance instructions, from section 5.1 onwards
- Hydraulic station installation and maintenance instructions, from section 5.1 onwards

	Work step	Selected information/measures
8	Outdoor unit, indoor unit ► Preparing work on the refrigerant circuit	► Read all of the sections on working on the refrigerant circuit. ► Comply with the specified test pressures, waiting periods and instructions. Tools and units:→ aroTHERM installation and maintenance instructions, from section 5.1 onwards

	Work step	Selected information/measures
9	Outdoor unit, indoor unit ► Routing the refrigerant pipes	► Ensure that there is sufficient vibration decoupling. ► Use a bending wrench and flexible springs in order to prevent kinks in the pipeline. ► Keep the interior of the refrigerant pipes free from air humidity, dirt and residue. ► Use a pipe cutter to cut the pipe to length. ► Always hold the pipe downwards during lengthening and deburring. ► Do not blow into the pipe (air humidity).
10	Outdoor unit, indoor unit ► Connecting the refrigerant pipes	The outdoor unit is pre-filled with R410A refrigerant. ► Keep the isolation valves on the outdoor unit closed. The indoor unit is filled with nitrogen. ► When unscrewing the flare nut, check whether you can hear the nitrogen escaping.
11	Outdoor unit ► Checking the refrigerant circuit for tightness	► Only carry out the leak-tightness test on the refrigerant pipes using dry nitrogen. – Test pressure: 2.5 MPa (25 bar) – Waiting period: 10 mins ► Use a leak detection spray to check the connections.
12	Outdoor unit ► Evacuating the refrigerant circuit	► Drain the nitrogen that was poured in. ► Connect a vacuum pump. ► Drain the refrigerant circuit in two rounds of 30 minutes each. ► After each round, check whether the pressure is stable: – 0.1 kPa (1.0 mbar) absolute pressure
13	Outdoor unit ► Adding additional refrigerant	Condition: Basic length of the refrigerant pipe > 15 m ► For each additional metre (above 15 m), add additional refrigerant: – 30 g/m for an output of up to 5 kW – 70 g/m for an output of 7 kW or higher
14	Outdoor unit ► Releasing the refrigerant	► Turn the isolation valves as far as they will go.

3.4 Heating circuit, connecting the domestic hot water and cold water pipe

- aroTHERM installation and maintenance instructions, from section 5.1 onwards
- Hydraulic station installation and maintenance instructions, from section 5.1 onwards
- uniSTOR installation and maintenance instructions, section 5.2
- Decoupler module installation instructions, from section 4.3 onwards
- Accessory set-up instructions

	Work step	Selected information/measures
15	Indoor unit, domestic hot water cylinder ► Connecting the heating flow and return ► Connecting the domestic hot water and cold water pipe	► Install an expansion relief valve in the cold water pipe ► Observe the connection symbols. → Installation and maintenance instructions for the hydraulic station, section 3.8 Condition: Extremely calciferous water ► Install a water softener in the cold water pipe upstream of the cylinder.
16	Heating circuit ► Connecting the heating flow and return	► Observe the connection symbols. → Installation and maintenance instructions for the hydraulic station, section 3.8
17	Heating circuit ► Connecting the decoupler module ► Connecting the bypass valve	→ Decoupler module installation instructions, from section 4.3 onwards
18	Heating circuit ► Connecting the additional expansion vessel	Condition: The dimension of the installed expansion vessel is not sufficient
19	DHW circuit ► Connecting the expansion vessel	► Ensure that there is sufficient dimensioning. ► If required, adjust the pre-charge pressure.

3 System without system control (0020253230)

3.5 Installing the electrical connections

- aroTHERM installation and maintenance instructions, from section 6.1 onwards
- Hydraulic station installation and maintenance instructions, from section 6.1 onwards
- Accessory set-up instructions

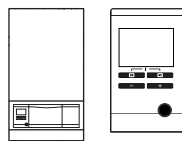
	Work step	Selected information/measures
20	Outdoor temperature sensor ► Connecting the outdoor temperature sensor	
21	Outdoor unit ► Establishing the power supply	► Select a correct cable cross-section. ► Comply with the connection conditions for the energy supply company. ► Determine whether an electrical connection 1~/230 V or 3~/400 V (→ data plate) is required. ► Determine whether the power supply should be set up using a single-tariff meter or a dual-tariff meter. Condition: Depending on the installation site ► Install one or two type-B residual-current circuit breakers for the outdoor unit, depending on the connection type.
22	Indoor unit ► Establishing the power supply	► Guide the power supply cable for the indoor unit through the central opening on the rear of the unit. ► Guide the power supply cable through the strain relief. → Installation and maintenance instructions for the hydraulic station, section 6.3 Condition: Depending on the installation site ► Install a type-A or type-B residual-current circuit breaker for the indoor unit.
23	Indoor unit, electrical house installation ► Installing components for the energy supply company lockout function	Condition: Power supply via a dual-tariff meter Option 1: Disconnect the power supply with contactor Option 2: Actuating the ESC contact → Installation and maintenance instructions for the hydraulic station, section 6.4
24	Indoor unit ► Connecting a limit thermostat	► Observe the wiring diagram. → Installation and maintenance instructions for the hydraulic station, appendix B
25	Indoor unit, domestic hot water cylinder ► Connecting the temperature sensor (domestic hot water cylinder)	→ uniSTOR installation and maintenance instructions, section 5.1
26	Outdoor unit, indoor unit ► Connecting the eBUS line	Condition: Refrigerant pipes with eBUS line ► Check whether the existing conductor cross-sections for the eBUS line are sufficient for the planned line length. Validity: Indoor unit ► Guide the eBUS line through the left-hand opening on the rear of the unit. ► Do not connect more than two eBUS lines to the plug on the control PCB.

3.6 Completing installation

- aroTHERM installation and maintenance instructions, from section 5.5 onwards
- Installation instructions for the accessory

	Work step	Selected information/measures
27	Safety devices ► Installing the safety devices	► Ensure that all of the required safety device have been installed in the system.
28	Building ► Sealing the wall duct	► Seal the wall duct using a suitable sealing compound.

3.7 Implementing settings on the indoor unit's control



Explanation of the control elements and concept: → Hydraulic station operating instructions, from section 3.4 onwards

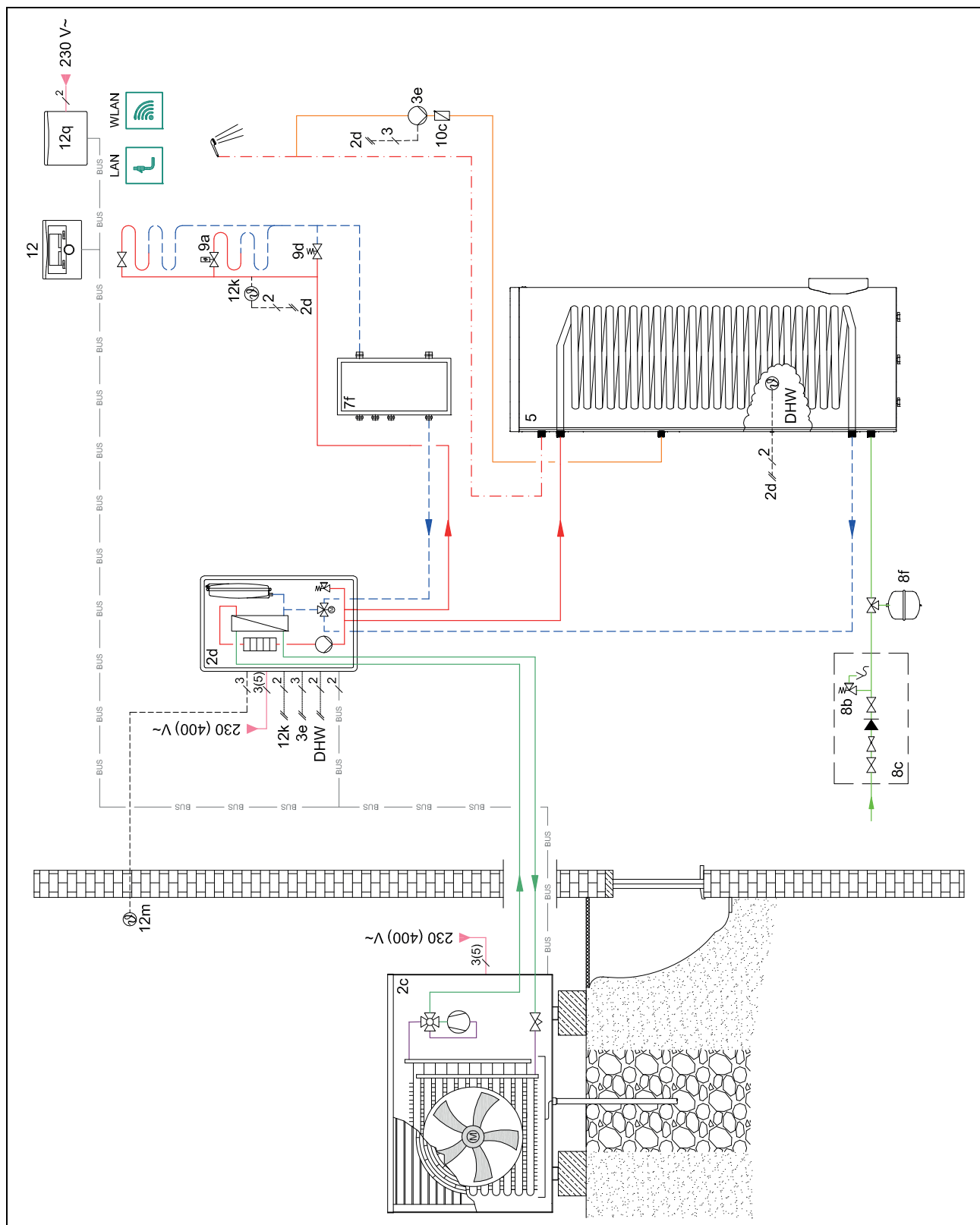
Setting options in the installer level: → Installation and maintenance instructions for the hydraulic station, appendix C

	Menu path/entry	Comment
– As soon as the indoor unit is supplied with power, the indoor unit's control starts up in the installation assistant. –		
4	To start the install. assistant, press OK	Condition: Installation assistant not started 1. Press and twice at the same time. 2. Enter the competent person code 17 . 3. Navigate to Start inst. assistant . 4. Press OK .
5	Language	► Set the required language.
6	Syst. control avail.	► No
7	Im. heater outp. range	► If required, reduce the output of the back-up heater.
8	Cooling technology	Condition: Product with cooling mode ► Active cooling
9	Limit. ODU current	Condition: Reduced electrical fuse protection ► Reduce the power supply accordingly. – Output 3.5–7 kW: 13–16 A – Output 10–12 kW: 20–25 A This reduction affects the output for the heating and domestic hot water at the same time.
10	Check program: Purge building circuit	► No
11	Contact details: Telephone number	► Enter your telephone number: – / : Insert numbers from 0 to 9 and blank spaces – / : Navigate to the next/previous digit
12	End the installation assistant?	► Yes
– The required system settings have been implemented. –		
13	Menu → Installer level → Fault list →	► Check the system for faults. Condition: Fault present ► Troubleshooting: → Hydraulic station installation and maintenance instructions, from section 10.3 onwards ► Carry out sensor/actuator tests: Menu → Installer level → Test menu → Sensor/actuator test →
– All displayed faults have been eliminated. The heating installation is adapted. –		
14	Menu → Installer level → Configuration	► Configure the system in accordance with the end user's requirements.
15	DHW mode	ECO: Compressor output control that is as efficient as possible (longer cylinder charging time) Normal: Balanced control (short cylinder charging time/maximum compressor output)
16	Heating curve	► 0.2–0.5: Underfloor heating
17	Summer cut-off temp.	► Setting in consultation with the end user
18	Bivalence point CH	► Setting in consultation with the end user
19	Bivalence point DHW	► Setting in consultation with the end user
20	Max flow temperature	► Max. 45 °C: Underfloor heating
21	Target flow temp.:	Recommendation: Min. 18 °C It was possible to fall below the dew point (mould formation).

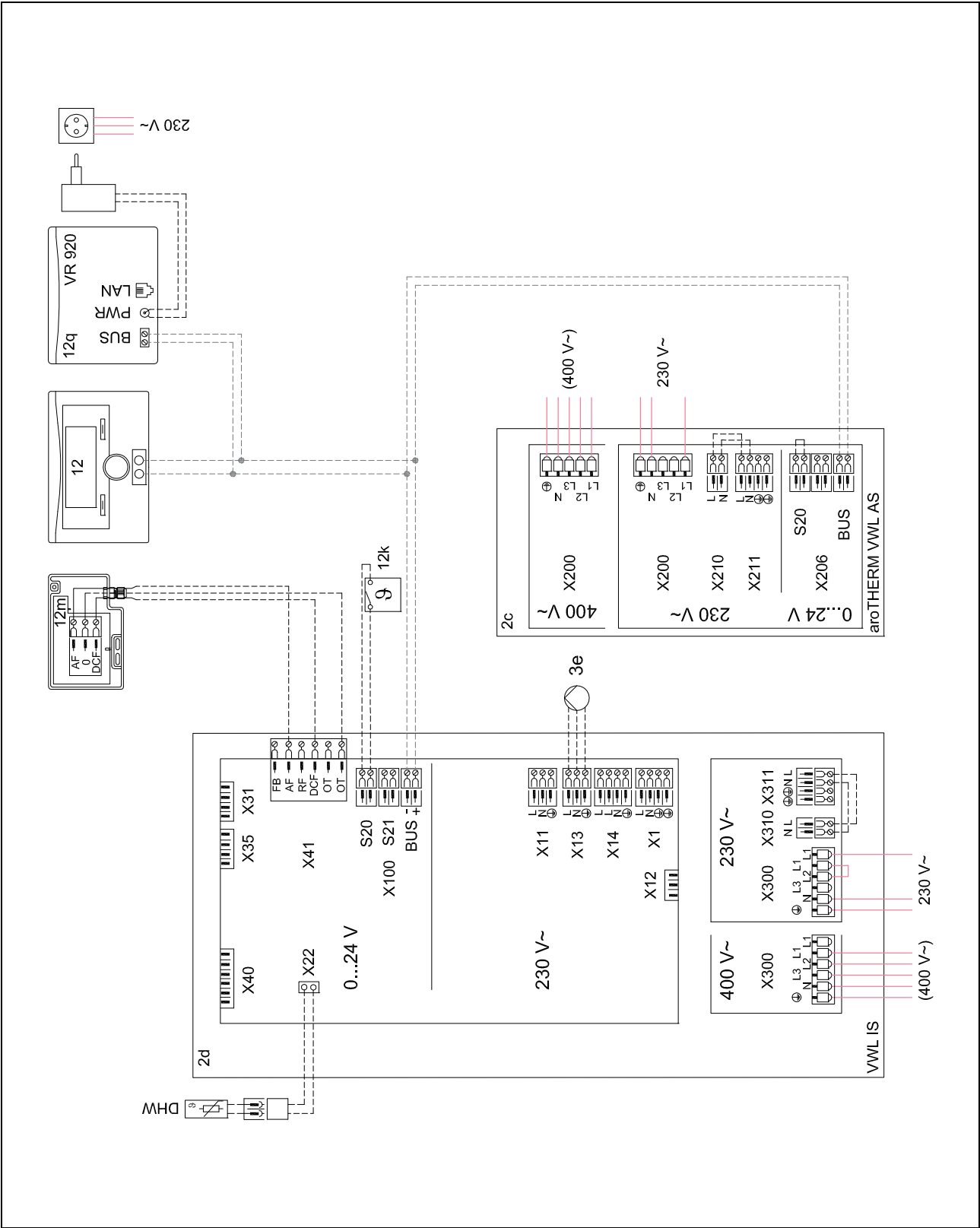
4 System with system control (0020234148)

4 System with system control (0020234148)

4.1 Basic system diagram



Wiring diagram



4 System with system control (0020234148)

4.2 Preparing for installation

- aroTHERM installation and maintenance instructions, from section 4.1 onwards
- Hydraulic station installation and maintenance instructions, from section 4.1 onwards
- uniSTOR installation and maintenance instructions, from section 4.1 onwards
- Decoupler module installation instructions, from section 4.1 onwards
- Accessory set-up instructions

	Work step	Selected information/measures
1	Building ► Establishing a wall duct	
2	Installation sites ► Defining the installation site	► Comply with the specific conditions for the installation site and the installation type. Important planning dimensions: – Maximum height difference between the outdoor unit and the indoor unit: 10 m – Basic length of the refrigerant pipes: Minimum 3 m, maximum 25 m – Outdoor unit pre-filled with R410A refrigerant; sufficient for refrigerant pipes up to 15 m. – Suitability of the installation site, minimum clearances and installation clearances: → aroTHERM installation and maintenance instructions, from section 4.5 onwards → Hydraulic station installation and maintenance instructions, from section 4.3 onwards → uniSTOR installation and maintenance instructions, from section 4.3 onwards → Decoupler module installation instructions, from section 4.1 onwards
3	Outdoor unit Condition: Depending on the installation type/condition ► Establishing the strip foundations ► Mounting the wall bracket ► Procuring and installing other accessories ► Setting up/installing the product	Validity: VWL 105/5 AS, VWL 125/5 AS outdoor unit ► If required, use the transport belts that are supplied. Condition: Establishing the strip foundations ► Ensure that the condensate discharge can be positioned in the centre above the downpipe.
4	Outdoor unit ► Installing the condensate discharge pipe	► Ensure that condensate does not reach paths (ice formation).
5	Indoor unit ► Installing the product	► Check the load-bearing capacity of the wall beforehand.
6	Domestic hot water cylinder ► Setting up the product	► Transport the cylinder on the pallet using a pallet truck. ► Tilt the cylinder to a maximum of 15°.
7	Decoupler module ► Installing the product	► Check the load-bearing capacity of the wall beforehand.

4.3 Installing the refrigerant circuit

- aroTHERM installation and maintenance instructions, from section 5.1 onwards
- Hydraulic station installation and maintenance instructions, from section 5.1 onwards

	Work step	Selected information/measures
8	Outdoor unit, indoor unit ► Preparing work on the refrigerant circuit	► Read all of the sections on working on the refrigerant circuit. ► Comply with the specified test pressures, waiting periods and instructions. Tools and units:→ aroTHERM installation and maintenance instructions, from section 5.1 onwards

	Work step	Selected information/measures
9	Outdoor unit, indoor unit ► Routing the refrigerant pipes	► Ensure that there is sufficient vibration decoupling. ► Use a bending wrench and flexible springs in order to prevent kinks in the pipeline. ► Keep the interior of the refrigerant pipes free from air humidity, dirt and residue. ► Use a pipe cutter to cut the pipe to length. ► Always hold the pipe downwards during lengthening and deburring. ► Do not blow into the pipe (air humidity).
10	Outdoor unit, indoor unit ► Connecting the refrigerant pipes	The outdoor unit is pre-filled with R410A refrigerant. ► Keep the isolation valves on the outdoor unit closed. The indoor unit is filled with nitrogen. ► When unscrewing the flare nut, check whether you can hear the nitrogen escaping.
11	Outdoor unit ► Checking the refrigerant circuit for tightness	► Only carry out the leak-tightness test on the refrigerant pipes using dry nitrogen. – Test pressure: 2.5 MPa (25 bar) – Waiting period: 10 mins ► Use a leak detection spray to check the connections.
12	Outdoor unit ► Evacuating the refrigerant circuit	► Drain the nitrogen that was poured in. ► Connect a vacuum pump. ► Drain the refrigerant circuit in two rounds of 30 minutes each. ► After each round, check whether the pressure is stable: – 0.1 kPa (1.0 mbar) absolute pressure
13	Outdoor unit ► Adding additional refrigerant	Condition: Basic length of the refrigerant pipe > 15 m ► For each additional metre (above 15 m), add additional refrigerant: – 30 g/m for an output of up to 5 kW – 70 g/m for an output of 7 kW or higher
14	Outdoor unit ► Releasing the refrigerant	► Turn the isolation valves as far as they will go.

4.4 Heating circuit, connecting the domestic hot water and cold water pipe

- aroTHERM installation and maintenance instructions, from section 5.1 onwards
- Hydraulic station installation and maintenance instructions, from section 5.1 onwards
- uniSTOR installation and maintenance instructions, section 5.2
- Decoupler module installation instructions, from section 4.3 onwards
- Accessory set-up instructions

	Work step	Selected information/measures
15	Indoor unit, domestic hot water cylinder ► Connecting the heating flow and return ► Connecting the domestic hot water and cold water pipe	► Install an expansion relief valve in the cold water pipe ► Observe the connection symbols. → Installation and maintenance instructions for the hydraulic station, section 3.8 Condition: Extremely calciferous water ► Install a water softener in the cold water pipe upstream of the cylinder.
16	Heating circuit ► Connecting the heating flow and return	► Observe the connection symbols. → Installation and maintenance instructions for the hydraulic station, section 3.8
17	Heating circuit ► Connecting the decoupler module ► Connecting the bypass valve	→ Decoupler module installation instructions, from section 4.3 onwards
18	Heating circuit ► Connecting the additional expansion vessel	Condition: The dimension of the installed expansion vessel is not sufficient
19	DHW circuit ► Connecting the expansion vessel	► Ensure that there is sufficient dimensioning. ► If required, adjust the pre-charge pressure.
20	DHW circuit ► Connecting the secondary return pipe ► Connecting a circulation pump	

4 System with system control (0020234148)

4.5 Installing the electrical connections

- aroTHERM installation and maintenance instructions, from section 6.1 onwards
- Hydraulic station installation and maintenance instructions, from section 6.1 onwards
- multiMATIC installation instructions, from section 4.1 onwards
- Accessory set-up instructions

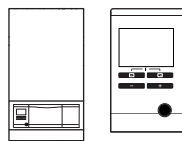
	Work step	Selected information/measures
21	System control ▶ Connecting the system control	▶ Ideally, install the system control in a living room. Conditions: Installation in the indoor unit's electronics box ▶ Install a separate humidity sensor.
22	Outdoor temperature sensor ▶ Connecting the outdoor temperature sensor	
23	Outdoor unit ▶ Establishing the power supply	▶ Select a correct cable cross-section. ▶ Comply with the connection conditions for the energy supply company. ▶ Determine whether an electrical connection 1~/230 V or 3~/400 V (→ data plate) is required. ▶ Determine whether the power supply should be set up using a single-tariff meter or a dual-tariff meter. Condition: Depending on the installation site ▶ Install one or two type-B residual-current circuit breakers for the outdoor unit, depending on the connection type.
24	Indoor unit ▶ Establishing the power supply	▶ Guide the power supply cable for the indoor unit through the central opening on the rear of the unit. ▶ Guide the power supply cable through the strain relief. → Installation and maintenance instructions for the hydraulic station, section 6.3 Condition: Depending on the installation site ▶ Install a type-A or type-B residual-current circuit breaker for the indoor unit.
25	Indoor unit, electrical house installation ▶ Installing components for the energy supply company lockout function	Condition: Power supply via a dual-tariff meter Option 1: Disconnect the power supply with contactor Option 2: Actuating the ESC contact → Installation and maintenance instructions for the hydraulic station, section 6.4
26	Indoor unit ▶ Connecting a limit thermostat	▶ Observe the wiring diagram. → Installation and maintenance instructions for the hydraulic station, appendix B
27	Indoor unit, domestic hot water cylinder ▶ Connecting a circulation pump ▶ Connecting the temperature sensor (domestic hot water cylinder)	→ uniSTOR installation and maintenance instructions, section 5.1
28	Outdoor unit, indoor unit, system control, communication unit ▶ Connecting the eBUS line	Condition: Refrigerant pipes with eBUS line ▶ Check whether the existing conductor cross-sections for the eBUS line are sufficient for the planned line length. Validity: Indoor unit ▶ Guide the eBUS line through the left-hand opening on the rear of the unit. ▶ Do not connect more than two eBUS lines to the plug on the control PCB.

4.6 Completing installation

- aroTHERM installation and maintenance instructions, from section 5.5 onwards
- Installation instructions for the accessory

	Work step	Selected information/measures
29	Safety devices ▶ Installing the safety devices	▶ Ensure that all of the required safety device have been installed in the system.
30	Building ▶ Sealing the wall duct	▶ Seal the wall duct using a suitable sealing compound.

4.7 Implementing settings on the indoor unit's control



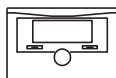
Explanation of the control elements and concept: → Hydraulic station operating instructions, from section 3.4 onwards

Setting options in the installer level: → Installation and maintenance instructions for the hydraulic station, appendix C

	Menu path/entry	Comment
– As soon as the indoor unit is supplied with power, the indoor unit's control starts up in the installation assistant. –		
4	To start the install. assistant, press OK	Condition: Installation assistant not started 1. Press and twice at the same time. 2. Enter the competent person code 17 . 3. Navigate to Start inst. assistant . 4. Press OK .
5	Language	► Set the required language.
6	Syst. control avail.	► Yes
7	Im. heater outp. range	► If required, reduce the output of the back-up heater.
8	Cooling technology	Condition: Product with cooling mode ► Active cooling
9	Limit. ODU current	Condition: Reduced electrical fuse protection ► Reduce the power supply accordingly. – Output 3.5–7 kW: 13–16 A – Output 10–12 kW: 20–25 A This reduction affects the output for the heating and domestic hot water at the same time.
10	Check program: Purge building circuit	► No
11	Contact details: Telephone number	► Enter your telephone number: – / : Insert numbers from 0 to 9 and blank spaces – / : Navigate to the next/previous digit
12	End the installation assistant?	► Yes
– The required system settings have been implemented. –		
13	Menu → Installer level → Fault list →	► Check the system for faults. Condition: Fault present ► Troubleshooting: → Hydraulic station installation and maintenance instructions, from section 10.3 onwards ► If required, carry out any relevant sensor/actuator tests: Menu → Installer level → Test menu → Sensor/actuator test →
– All displayed faults have been eliminated. The heating installation is adapted. –		
14	Menu → Installer level → Configuration	► Configure the system in accordance with the end user's requirements.
15	DHW mode	ECO: Compressor output control that is as efficient as possible (longer cylinder charging time) Normal: Balanced control (short cylinder charging time/maximum compressor output)
16	Noise reduction comp.	Condition: Time programmes for noise reduction mode planned ► 0: No reduction of the compressor output in noise reduction mode ► 1 to 60: Reduction of the compressor output in noise reduction mode by a set percentage value Recommendation: 30% Setting in the system control Noise reduction operation (→ Page 18).

4 System with system control (0020234148)

4.8 Configuring the settings on the system control



Explanation of the operating concept: → multiMATIC operating instructions, from section 4.1 onwards

Overview of the setting options in the installer level: → multiMATIC installation instructions, appendix B.1

Explanation of the operating and display functions: → multiMATIC installation instructions, from section 7.3 onwards

	Menu path/entry	Comment
– The system control starts the installation assistant in the query Language –		
17	Language	▶ Set the required language. Condition: Installation assistant (query Language) not started 1. Activate the system control using the rotary knob. 2. Press the two selection buttons at the same time for at least 10 seconds (Reset to default setting? appears). 3. Set Everything → Yes .
18	Date	▶ Set the current date.
19	Time	▶ Set the current time.
20	Have the installation assistants for all system components finished? Press OK to confirm	▶ OK
– A search for all active eBUS connections is started – – The installation assistant automatically configures the system to the Components found . – ▶ Confirm each of the following configurations using OK :		
21	Components found	Control: System control Heat pump 1: Outdoor unit Add. module heat pump: Indoor unit
22	System diagram	8: Heat pump
23	Heating circuits and zones	1 direct HC: 1 non-regulated heating circuit
24	Additional module: MA2 function	Circulation pump detected at multi-function output 2
– The required system settings have been implemented. – – The unit starts up –		
25	Inst.assist. finished. Continue with:	▶ System configuration
26	→ Fault status	▶ Check the system for faults. Condition: Fault present ▶ Troubleshooting: → multiMATIC installation instructions, appendix D.1
– All displayed faults have been eliminated. The heating installation is then adjusted. –		
27	Menu → Installer level → System configuration	▶ Configure the system in accordance with the end user's requirements.
System ----		
28	OT constant heating	Recommendation: -5 °C
29	Adaptive heat. curve	Condition: Control installed in the living room ▶ Yes
30	Automatic cooling	Condition: Product with cooling mode ▶ Yes
31	Start OT cooling	Condition: Product with cooling mode Recommendation: 24 °C.
32	Heat. bivalence point	▶ Setting in consultation with the end user
33	DHW bivalence point	▶ Setting in consultation with the end user
34	Energy supplier	▶ HP&BH off: Energy supply company lockout function for the heat pump and back-up heater enabled
35	Noise reduction operation →	Condition: Time programmes for noise reduction mode planned ▶ Set the desired time programmes. ▶ Ensure that the compressor output in noise reduction mode is reduced. Setting in the indoor unit control Noise reduction comp. (→ Page 17).
HEATING1 ----		

System with system control (0020234148) 4

	Menu path/entry	Comment
36	Max limit outs.temp.	Recommendation: 16 °C Condition: Product with cooling mode ► Maintain a hysteresis for the previously set limit temperature value for cooling mode (→ System ---- Start OT cooling). A hysteresis between two limit temperatures ensures that the installation does not switch from heating mode into cooling mode.
37	Min. cool. fl. tgt temp.	Recommendation: Min. 18 °C It was possible to fall below the dew point (mould formation).
38	Heating curve	► 0.2–0.5: Underfloor heating
ZONE1 ----		
39	Anti-legionella day	► Set the desired day of the week.
40	Ch. pump overrun time	Recommendation: 1 min



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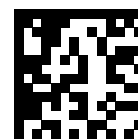
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