ES ENERGY SAVE

User Guide

Air/Water Heat Pump R290 Series

ES 100L ST / ES 100L ST UK
ES 250L ST / ES 250L ST UK
ES MCB
ES MHB
ES M8 R290
ES M12 R290
ES M15 R290 1 PH
ES M15 R290 3 PH

v3.0 2025-05-22

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1 Document History

Version	Release date	Version information
1.0	October 3, 2024	First release
2.3	December 13, 2024	New order of content Section 1.1 "Abbreviation List", page 3 added Section 2.2 "Disclaimer", page 5 added Section 2.3 "Conformity to safety regulations", page 5 added Section 3 "Safety", page 5 updated Section 4 "System description", page 9 updated Section 5 "Product overview", page 11 added Section 6 "Energy Save App", page 19 updated
3.0	May 22, 2025	General improvements and updated information in the entire manual

1.1 Abbreviation List

Abbreviation	Definition	Description
ATEX	ATmosphères EXplosibles	ATEX 2014/34/EU Directive policies on the sale and use of equipment and protective systems for the use in potentially explosive atmospheres
DHW	Domestic Hot Water	Hot water for use in the household
EEV	Electronic Expansion Valve	A valve that controls the flow of refrigerant into the evaporator
ErP	Energy related Products	Performance test
ES	Energy Save	
ESD	ElectroStatic Discharge	The transfer of an electrical charge between two electrically charged objects
GFCI	Ground Fault Circuit Interrupter	A safety device that shuts the electrical power off when ground faults are detected
GWP	Global Warming Potential	A system to compare environmental impact by converting to units of CO2 equivalents
Hz	Hertz	Unit for frequency; cycles per second
IEC	International Electrotechnical Commission	A global organization responsible for preparing and publishing international standards for all electrical, electronic, and related technologies
kW	kiloWatt	Unit for effect
kWh	kiloWatt-hour	Unit for energy
MCB	Monobloc Control Box	Indoor unit with no water connections

Abbreviation	Definition	Description
MHB	Monobloc HydroBox	Indoor unit with no tank, but including diverter valve for hotwater, electric heater, flowmeter, and expansion tank
PWM	Pulse Width Modulation	Speed control signal to the circulation pump
RCD	Residual-Current Device	A life-saving device which is designed to prevent you from getting a fatal electric shock if you touch something live
rpm	revolutions per minute	Unit for speed in rotating devices (e.g. pumps)
SG-Ready	Smart Grid Ready	A label certifying that a heat pump can respond to specific external control signals
ST	Storage Tank	A tank that stores the hot water produced
THC	Temperature Heating Cooling	Heating/cooling temperature sensor
TDW	Temperature Domestic Hot Water	Domestic hot water temperature sensor
TPRV	Temperature and Pressure Relief Valve	Mechanical safety valve that triggers on both temperature and pressure
TR1/TR2		Room temperature sensors
TV1/TV2		Mixing circuit temperature sensors

2 Introduction

2.1 About this manual

This comprehensive guide describes the ES R290 series air/water heat pumps, including an overview of the system with its components and functions, how to set up and manage settings on the heat pump control panel as well as in the dedicated Energy Save App, how to get information about alerts and notifications, and how to request support and maintenance.

The guide is intended for the owner and user of the heat pump as well as for personnel involved in the installation of the heat pump.

The ES R290 series consists of the following heat pump models:

Indoor units	Outdoor units
ES MCB	ES M8 R290
ES MHB	ES M12 R290
ES 100L ST	ES M15 R290, 1 PH
ES 100L ST UK	ES M15 R290, 3 PH
ES 250L ST	
ES 250L ST UK	

We ask that you carefully read the manual and take into account all of the instructions regarding operation of the device, in order to prevent possible damage to the device or people.

Before use, read and understand this manual.

Technical data can be changed without notice because of product upgrades. Please look at the rating label on the device for latest technical specifications.

2.2 Disclaimer

Proper adherence to the directions provided herein is vital for both the smooth operation of this system, as well as for your safety and the safety of those around you. Energy Save is not responsible or liable for any losses incurred due to misuse or mishandling of this product, which includes, but is not limited to:

- Purchasing, installing, and/or operating this product with the intention of using it outside of its established, technical purpose.
- Carrying out improper work upon the unit, or any of its components, which has not been given explicit, prior consent in the form of writing.
- Installation attempts of this system by anyone other than a properly trained and licensed professional.
- Negligence of properly worn personal protection (safety glasses, gloves etc.) while performing installation, maintenance, or servicing of this product.
- The operation of this system during ambient temperatures which are below or beyond the temperature range intended.

2.3 Conformity to safety regulations

If unsure of what installation procedures to use, please contact your local distributor for information and/or advise. Any electrical work must be carried out by certified electricians only. The manufacturer is not responsible for any alterations or modifications that are made without explicit, written approval. The design of this unit complies and conforms to all necessary and relevant safety regulations and is otherwise safe to operate for its intended use.

3 Safety

Safety precautions must meet the requirements that apply to this type of equipment. The following recommendations should be observed in addition to the standard safety regulations that apply to the workplace.

The safety precautions stated in this manual address the most important topics for proper and safe installation and operation of the heat pump. For this reason, follow them carefully.

For further questions contact your installer or technical support from Energy Save. Contact details can be found on the last page of this document, or on the Energy Save website: energysave.se/contact/

3.1 Symbols used in this document

The following attention symbols are used throughout this document.

DANGER

Risk of serious and potentially life-threatening personal injury and/or severe damage to property if the instructions are not followed.

WARNING

Risk of personal injury and/or damage to equipment if the instructions are not followed.

CAUTION

Risk of minor or moderate personal injury. Risk of equipment damage, loss of data, extra work, or unexpected results, if the instructions are not followed.

NOTE

Facts and conditions to be considered.

3.2 Safety precautions

DANGER

- The outdoor unit contains R290 refrigerant, an extremely flammable gas that may explode if heated.
- Work on the refrigerant system must only be carried out by authorised installation personnel which has completed adequate training for the use of flammable refrigerant (EN 378, Part 4 or IEC 60335-2-40, Annex HH).
- Transportation and storage of components that contain refrigerant must be done according to applicable safety regulations.
- A check valve must be installed with the installation on the return line. The check valve is included in the outdoor unit package.

WARNING

- Inspect the refrigerant circuit for leaks before starting work, as electrostatic discharge and sparks may cause an explosion.
- Ensure that there is sufficient air flow in the work area around the outdoor unit for the duration of the work.
- Smoking next to the outdoor unit is prohibited.
- Do not touch the grill in front of the fan when the motor is running.
- Be aware that the fan blade edges are sharp and can cause damage to fingers when touched carelessly and without the right safety protective gear.
- Water or other form of liquid is strictly forbidden to be poured on or into the equipment. This may cause electric shock or destruction of the unit.
- Appropriate personal protective gear (PPE) and tools must be used for transportation, installation, service, and repairs.
- There is a tip-over risk during transportation and storage before the products are properly mounted and secured. Use appropriate measures to prevent tipping accidents as it can harm people, property and damage the products.
- Contact your local distributor if any products or components show damage or have been tipped over or dropped.
- Do not pierce or burn any components in the system.
- This unit is not allowed to be used by children younger than 8 years old.

  Children aged from 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge can update the heating settings if they have been given supervision or instruction concerning use of the heat pump system in a safe way and understand the hazards involved.
- To avoid electrical shock, disconnect the power supply 1 minute or more before servicing the electrical parts. Even after 1 minute, always measure the voltage at the terminals of the main circuit capacitors or electrical parts before touching to make sure that those voltages are lower than the safety voltage.
- Do not touch any components if a power cord, outlet, or other electrical connection is loose or broken and immediately contact your local distributor.
- Carefully remove the protective covers of the indoor and outdoor unit and take safety measures to prevent burning accidents from hot surfaces as some components store energy.
- The outdoor units must be stored in a well-ventilated area.
- Bear in mind that the refrigerant in the outdoor unit is clear and odourless making leak detection difficult.
- The indoor and outdoor units are heavy (indoor 9-127 kg, outdoor 123-187 kg) and require appropriate lifting and transportation support to avoid injury or damage.
- The installation place must not have any fire risk.
- The available indoor units with storage tanks include a safety cutoff on all live conductors, including phase(s) and neutral if temperature becomes too high. If installer uses external heat sources connected to the system water, it is mandatory to have a safety function to simultaneously cut off all live conductors, including phase(s) and neutral if the temperature reaches above 80 °C.

CAUTION

- Installation, service, repairs and disposal must comply with all applicable national and international laws and standards.
- The complete installation manual must be read before installation, service or repairs to be followed.
- Installation, service, and repairs must be performed by properly trained and licensed professionals that is well-acquainted with the equipment.
- All electrical connections must be done by a professional and accordance with electrical standards.
- Do not use means to accelerate the defrosting process or clean other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- The power supply to the device must be earthed.
- Avoid stacking items against or on top of the outdoor unit, as this can restrict air intake or cause damage to the unit.
- Do not build a cover around the outdoor unit that may restrict airflow, as it will reduce system efficiency.
- Outdoor units must be stored and transported in an upright position.
- Ensure all products are protected from weather conditions during transportation and storage.
- Check all products for transportation damage and contact your local distributor if any damage is discovered.

Emergency procedures

WARNING

In case of fire

Do not attempt to put out a fire yourself. Always prioritize personal safety and immediately contact local emergency services. The outdoor unit contains a high-pressure, flammable refrigerant that can explode if exposed to flames. If there is a risk of the outdoor unit catching fire, keep a safe distance and wait for emergency personnel to handle it.

CAUTION

In case of water leakage

If a leak is detected, promptly shut off the water supply, protect any surrounding areas that could be affected, and contact customer support right away.

CAUTION

Power shut down in sub-zero temperatures

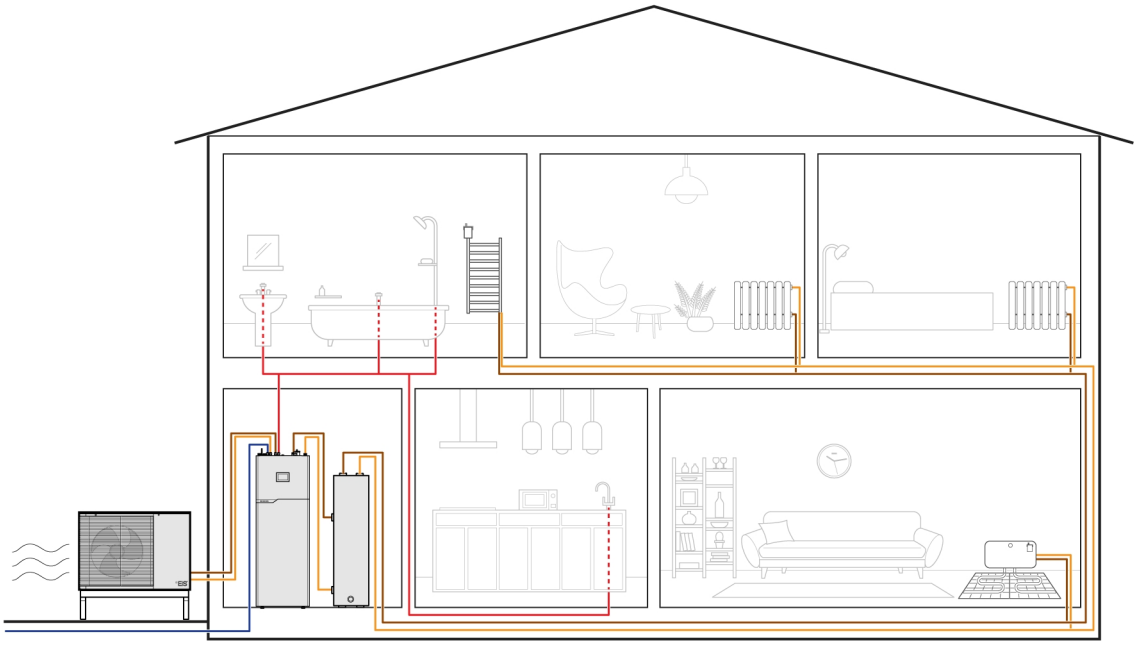
In cold weather, extended power outages increase the risk of water in the system freezing, potentially causing permanent damage to the indoor unit, outdoor unit, and heating system.

If the system will be without power for an extended period, ensure all components exposed to sub-zero temperatures are drained of water. The risk of freezing depends primarily on factors like temperature, duration, water volume relative to surface area, and insulation. If you're unsure, please contact your local installer for support for guidance.

3.3 Regulations to be observed

Note that national and regional regulations should be observed. Statutory regulations for accident prevention and environmental protection along with specific trade norms should also be assessed prior to installation.

4 System description



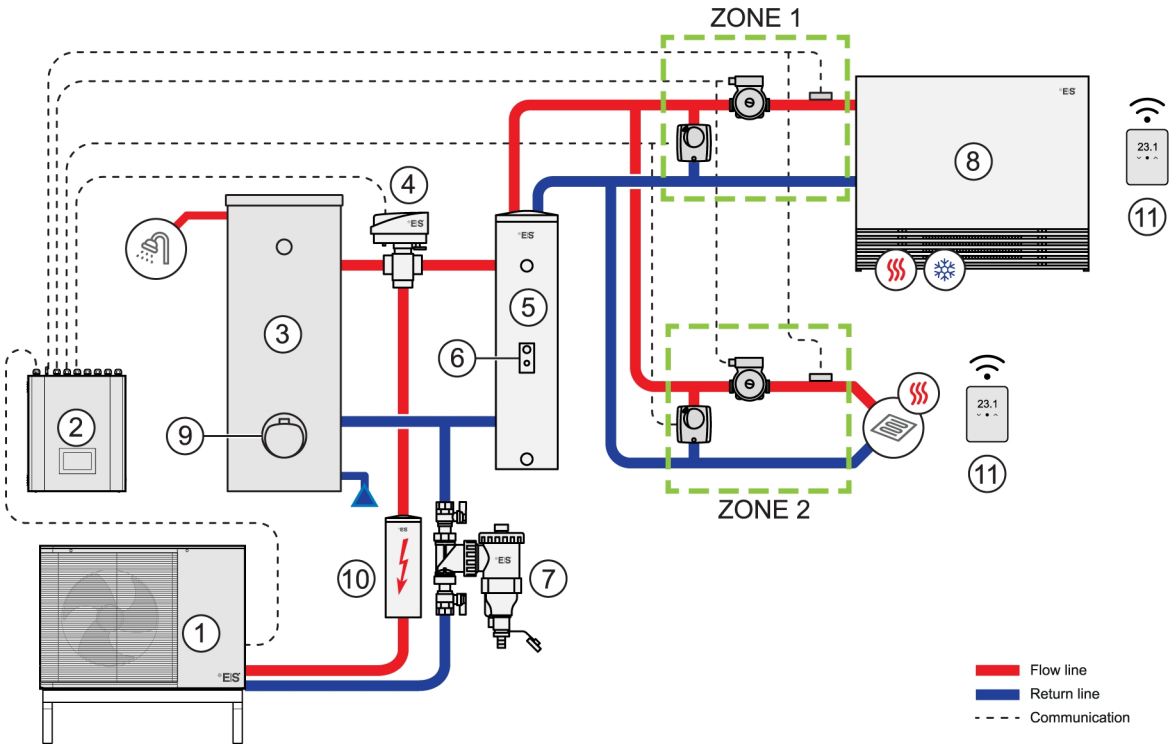
An air-to-water heat pump takes advantage of the energy in the outdoor air, using it to heat water for use in the household and for different types of space heating.

1. A compressor compresses refrigerant gas, which generates heat.
2. A heat exchanging process transfers the heat to the water system.
3. In this process the refrigerant changes state from gas to liquid form.

4. The liquid refrigerant enters an evaporator, where heat from the outdoor air is used to transform the liquid refrigerant into gas.
5. The refrigerant gas is returned to the compressor and the cycle repeats.

The electrical energy used for running the equipment is considerably lower than the energy extracted and used in the building.

4.1 Generic flow diagram

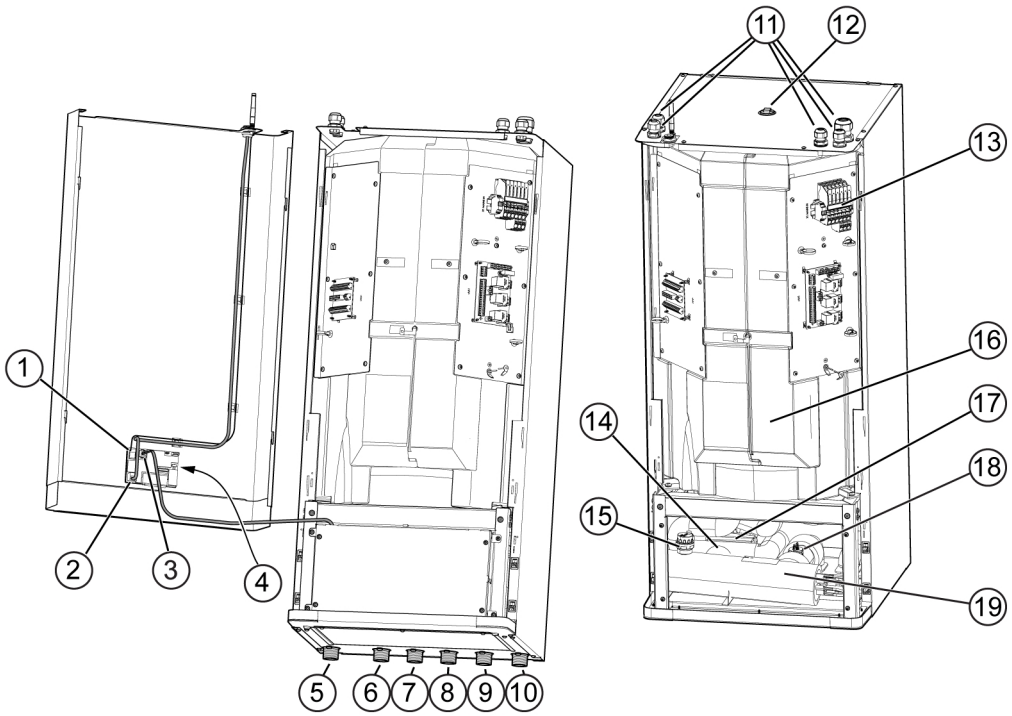


1 Outdoor unit
2 Indoor unit
3 DHW tank
4 Diverting valve
5 Buffer tank
6 Additional heating source for the buffer tank
7 Dirt and magnetic filter
8 Distribution heating/cooling circuit
9 Additional heating source for the DHW tank
10 Additional inline heating source
11 Wireless room thermostats

5 Product overview

5.1 Indoor units product overview

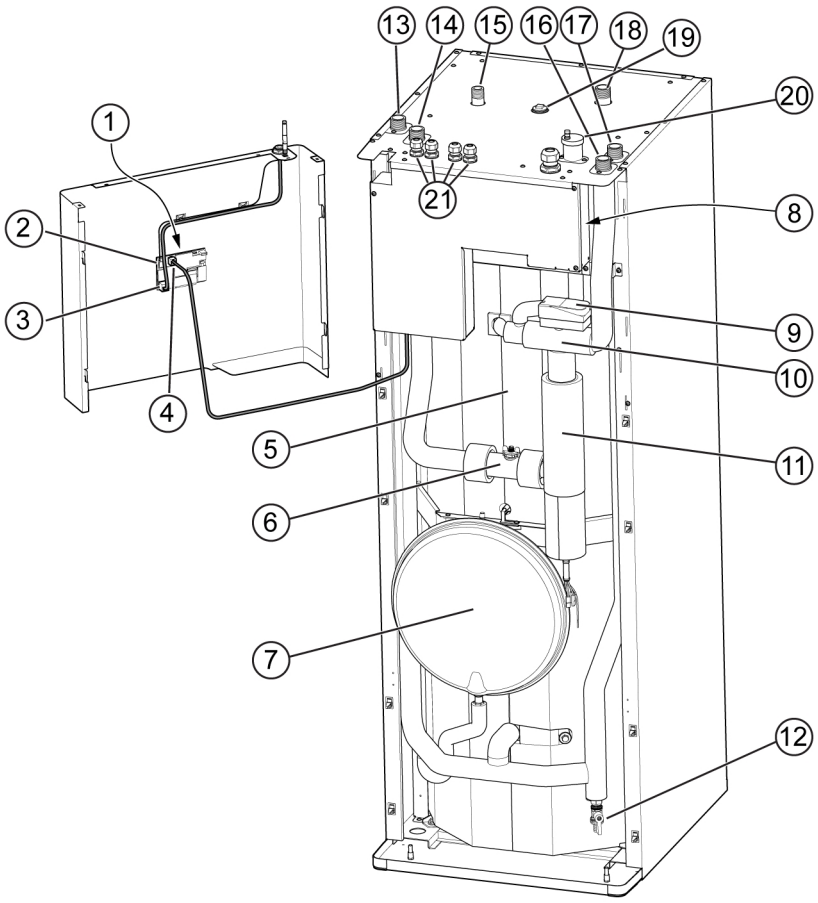
ES 100L ST and ES 100L ST UK



1 Antenna cable
2 Ethernet/LAN cable
3 RJ11 cable (communication display – controller)
4 Display
5 Cold domestic water inlet (G1" male)
6 Hot domestic water outlet (G1" male)
7 Flow line heating system (G1" male)
8 Water inlet from outdoor unit (G1" male)
9 Return line heating system (G1" male)
10 Water outlet from outdoor unit (G1" male)
11 Cable glands
12 Connector for temperature and pressure relief valve [1]
13 Electrical box
14 Diverting valve (3-way valve)
15 Automatic air purging valve
16 DHW storage tank 100L
17 Diverting valve (3-way valve) actuator
18 Flow sensor
19 Additional inline heating source

1) Valve preinstalled for UK only

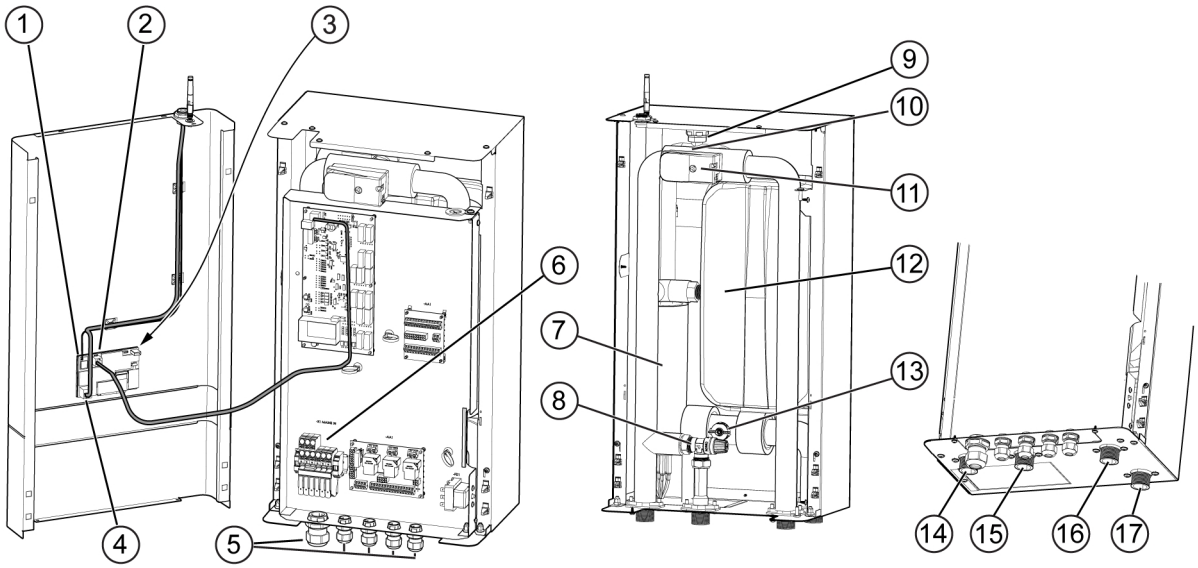
ES 250L ST and ES 250L ST UK



1 Display
2 Antenna cable
3 Ethernet/LAN cable
4 RJ11 cable (communication display – controller)
5 DHW storage tank 250L
6 Flow sensor
7 Expansion vessel (10L)
8 Electric box
9 Diverting valve (3-way valve) actuator
10 Diverting valve (3-way valve)
11 Additional inline heating source
12 Drainage valve
13 Water outlet to outdoor unit (G1" male)
14 Water inlet from outdoor unit (G1" male)
15 Cold domestic water inlet (G¾" male)
16 Flow line heating system (G1" male)
17 Return line heating system (G1" male)
18 Hot domestic water outlet (G1" male)
19 Connector for temperature and pressure relief valve [1]
20 Automatic air purging valve
21 Cable glands

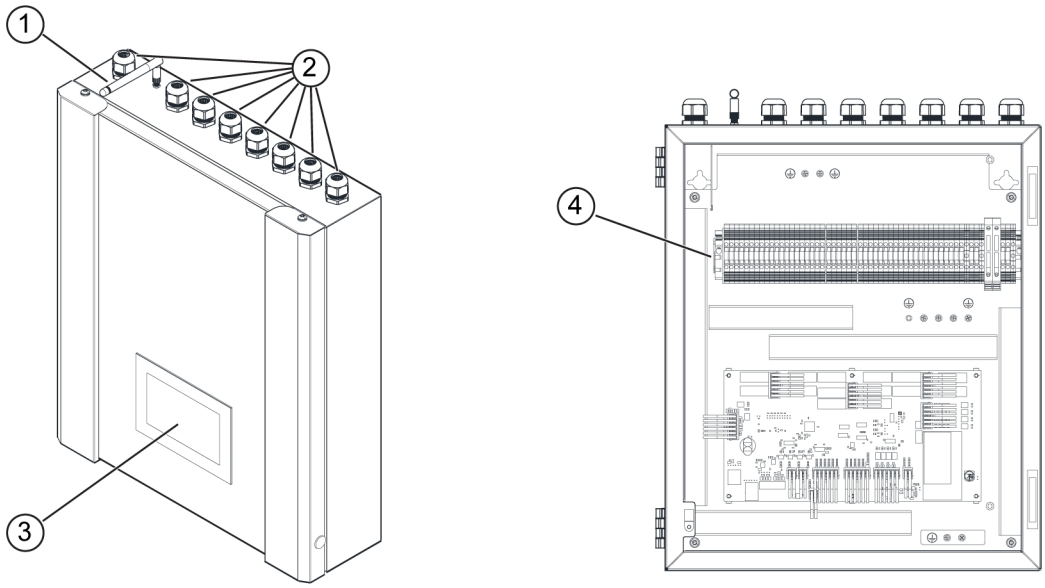
1) Valve preinstalled for UK only

ES MHB



1 Antenna cable
2 Ethernet/LAN cable
3 Display
4 RJ11 cable (communication display – controller)
5 Cable glands
6 Electrical box
7 Additional inline heating source
8 Pressure relief valve
9 Automatic air purging valve
10 Diverting valve (3-way valve)
11 Diverting valve (3-way valve) actuator
12 Expansion vessel (14L)
13 Flow sensor
14 Flow line heating system (G1" male)
15 Drain from pressure relief valve (G1" male)
16 Flow line to DHW tank (G1" male)
17 Water inlet from outdoor unit (G1" male)

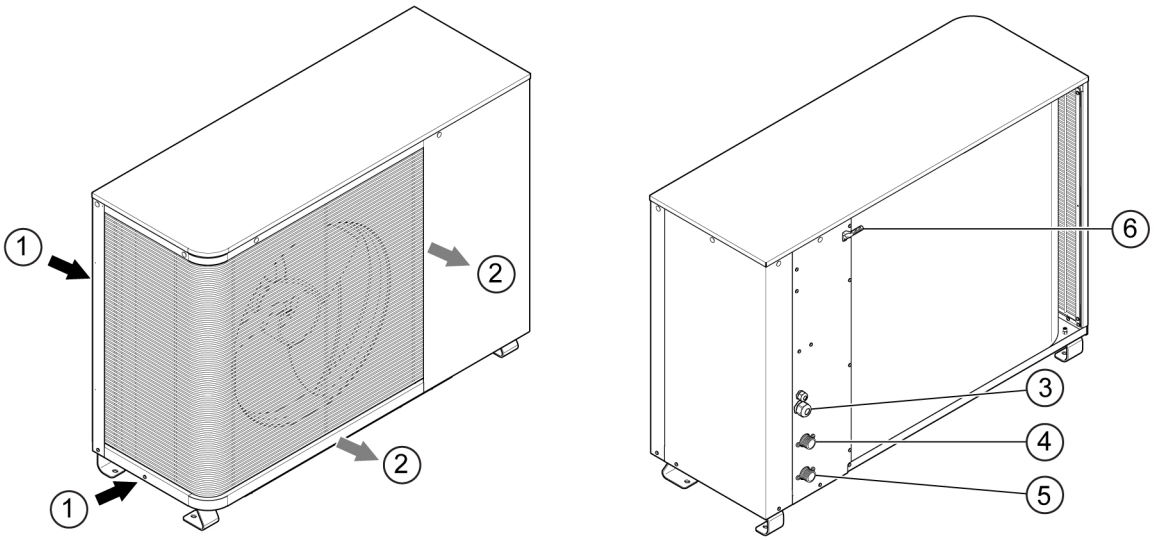
ES MCB



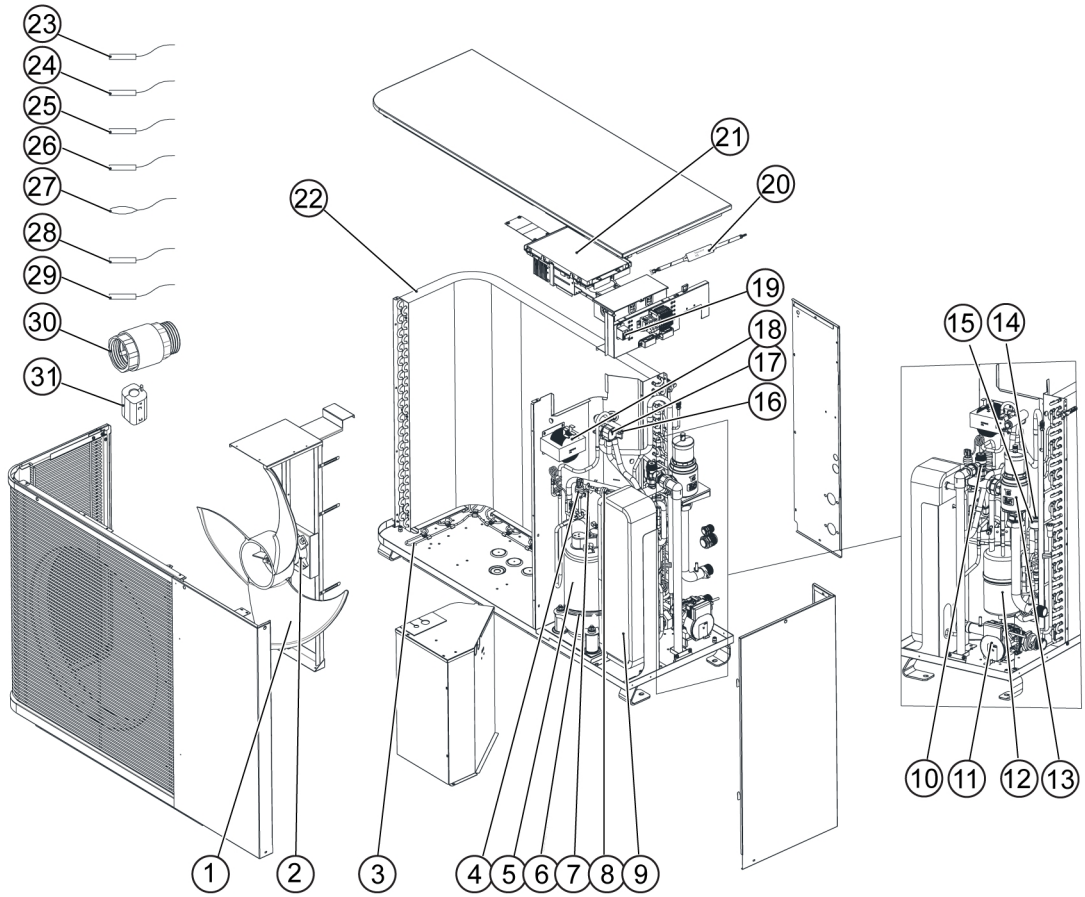
1 Antenna
2 Cable glands
3 Display
4 Electrical box

5.2 Outdoor units product overview

ES M8 R290



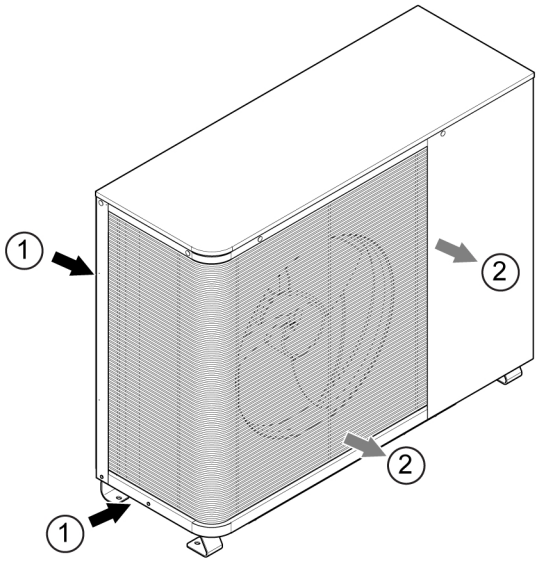
1 Air inlet
2 Air outlet
3 Cable gland
4 Water outlet (G1" male)
5 Water inlet (G1" male)
6 Outdoor temperature sensor

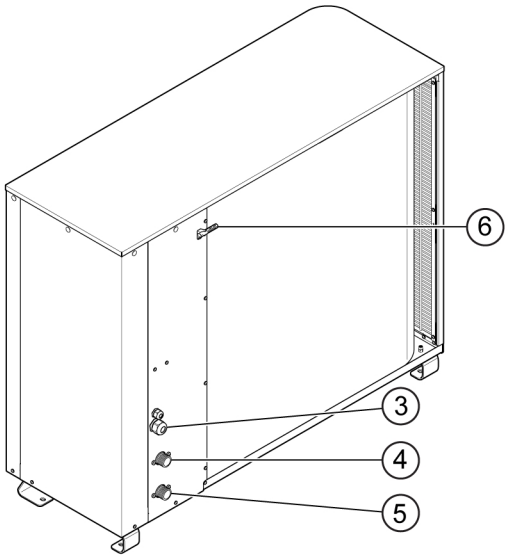


1 Fan blade
2 DC motor
3 Bottom plate heater
17 Four-way valve coil
18 Reactor
19 Relay

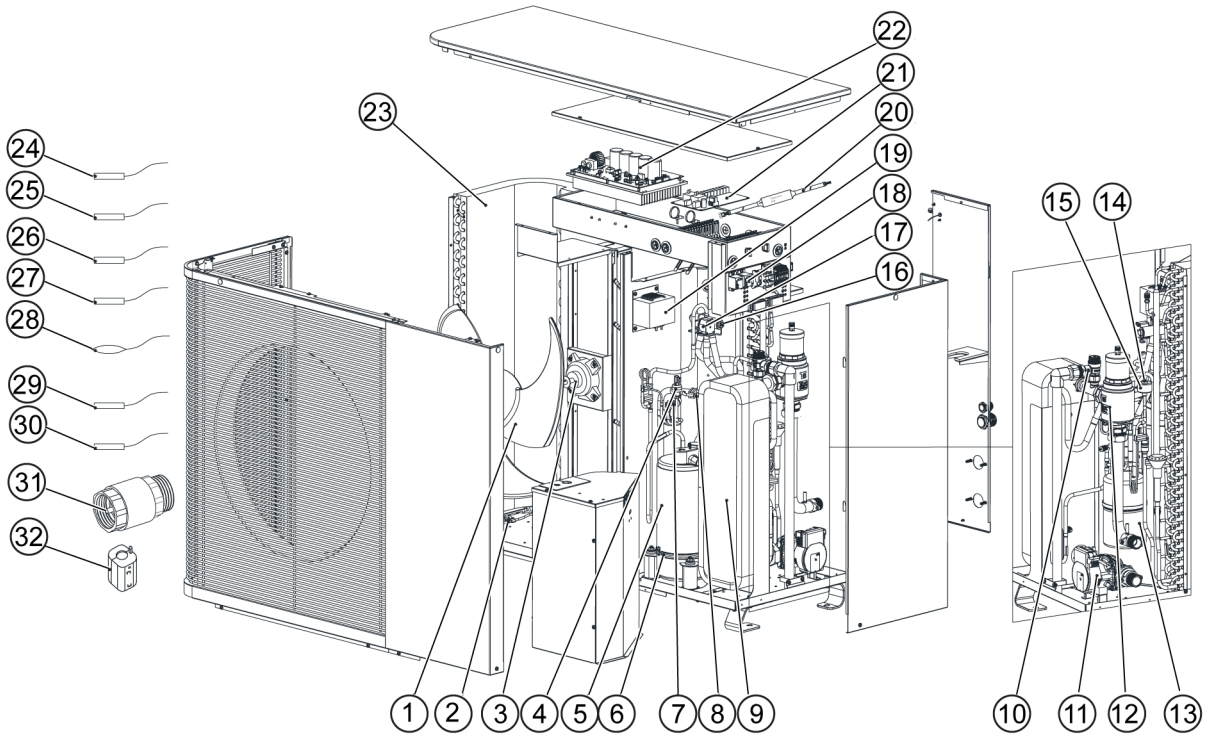
4 High pressure sensor
5 Compressor
6 Crankcase heater
7 High pressure switch
8 Low pressure sensor
9 Plate heat exchanger
10 Safety valve
11 Water pump
12 Liquid separator
13 Gas separator
14 EEV
15 EEV coil
16 Four-way valve
20 Isolator PCB
21 Outdoor main PCB
22 Evaporator
23 Discharge temp. sensor
24 Suction temp. sensor
25 Outdoor coil temp. sensor
26 Indoor coil temp. sensor
27 Ambient temp.sensor
28 Water inlet temp.sensor
29 Water outlet temp. sensor
30 Check valve
31 Magnetic ring

ES M12 R290



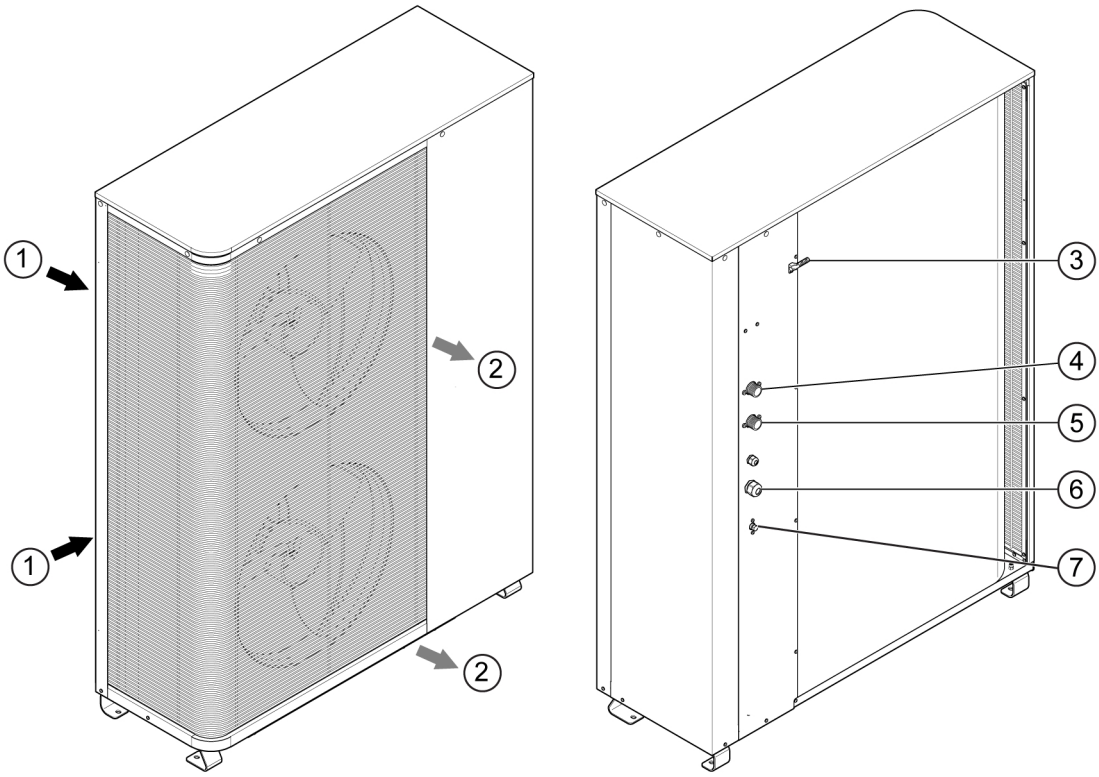


1 Air inlet
2 Air outlet
3 Cable gland
4 Water outlet (G1" male)
5 Water inlet (G1" male)
6 Outdoor temperature sensor



1 Fan blade
2 Bottom plate heater
3 DC motor
4 High pressure sensor
5 Compressor
6 Crankcase heater
7 High pressure switch
8 Low pressure sensor
9 Plate heat exchanger
10 Safety valve
11 Water pump
12 Gas separator
13 Liquid separator
14 EEV
15 EEV coil
16 Four-way valve
17 Four-way valve coil
18 Relay
19 Reactor
20 Isolator PCB
21 Outdoor main PCB
22 Compressor driver PCB
23 Evaporator
24 Discharge temp. sensor
25 Suction temp. sensor
26 Outdoor coil temp. sensor
27 Indoor coil temp. sensor
28 Ambient temp.sensor
29 Water inlet temp.sensor
30 Water outlet temp. sensor
31 Check valve
32 Magnetic ring

ES M15 R290 1 PH and ES M15 R290 3 PH



1 Air inlet
2 Air outlet
3 Outdoor temperature sensor
4 Water outlet (G1¾" male)
5 Water inlet (G1¾" male)
6 Cable gland
7 Water drainage

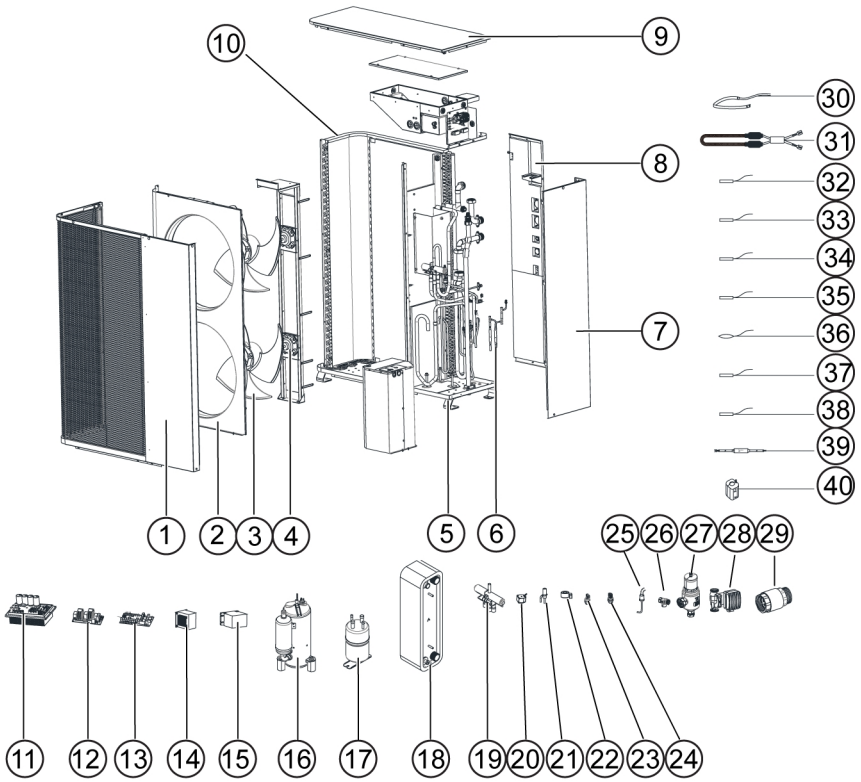


Figure 1: 1 PH

1 Front panel component
2 Air guide components
3 Fan blade
4 DC motor
5 Feet
6 Check valve (Refrigerant system)
7 Right side panel component
8 Left side panel component
9 Top panel component
10 Evaporator
11 Compressor driver board
12 Filter PCB
13 Main PCB
14 Reactor
15 AC contactor
16 Compressor
17 Liquid separator
18 Plate heat exchanger
19 Four-way valve
20 Four-way valve coil
21 EEV
22 EEV coil
23 Low pressure sensor
24 High pressor sensor
25 High pressure switch
26 Safety valve
27 Exhaust valve
28 Water pump component
29 Check valve (Water system)
30 Crankcase heater
31 Bottom plate heater
32 Discharge temp. sensor
33 Suction temp. sensor
34 Evaporating temp. sensor
35 Condensing temp. sensor
36 Ambient temp. sensor
37 Water inlet temp. sensor
38 Water outlet temp. sensor
39 Isolator PCB
40 Magnetic ring

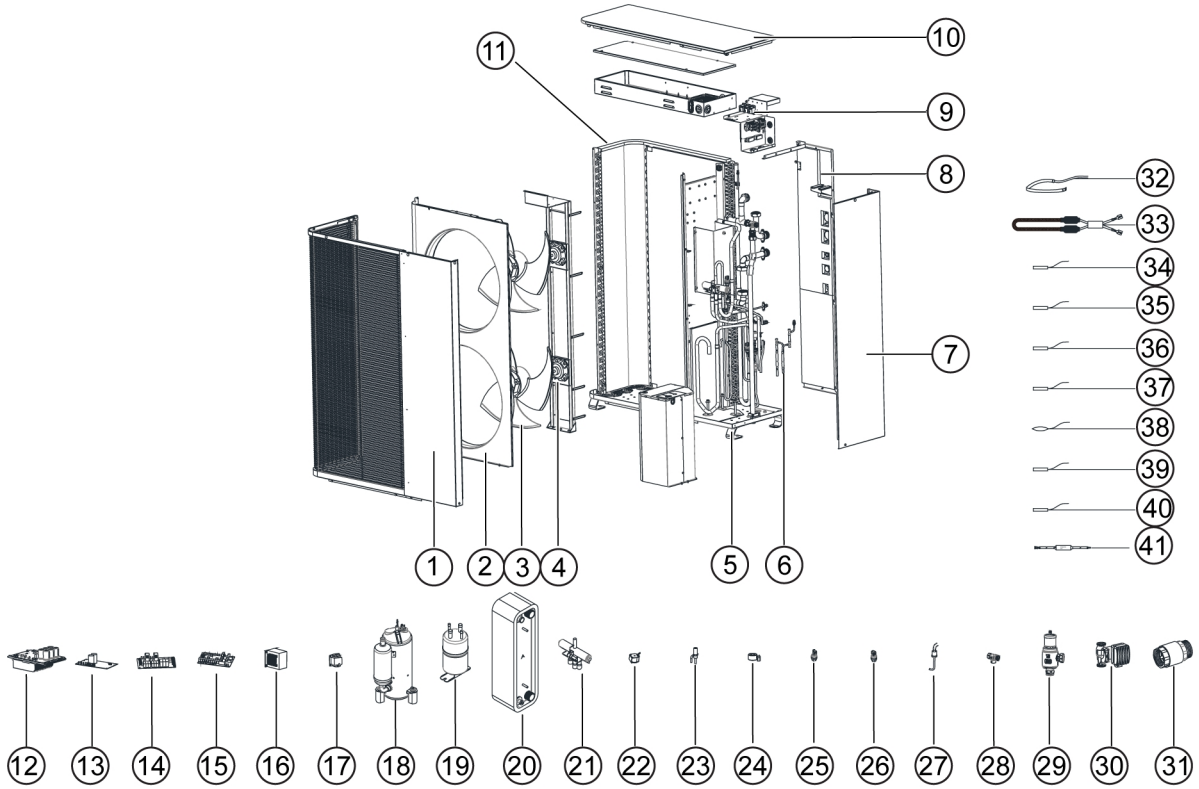


Figure 2: 3 PH

1 Front panel component
2 Air guide components
3 Fan blade
4 DC motor
5 Feet
6 Check valve (Refrigerant system)
7 Right side panel component
8 Left side panel component
9 Relay
10 Top panel component
11 Evaporator
12 Compressor driver board
13 Fan motor PCB
14 Filter PCB
15 Outdoor main PCB
16 Reactor 1
17 Reactor 2
18 Compressor
19 Liquid separator
20 Plate heat exchanger
21 Four-way valve
22 Four-way valve coil
23 EEV
24 EEV coil
25 Low pressure sensor
26 High pressor sensor
27 High pressure switch
28 Safety valve
29 Exhaust valve
30 Water pump component
31 Check valve (Water system)
32 Crankcase heater
33 Bottom plate heater
34 Discharge temp. sensor
35 Suction temp. sensor
36 Evaporating temp. sensor
37 Condensing temp. sensor
38 Ambient temp. sensor
39 Water inlet temp. sensor
40 Water outlet temp. sensor
41 Outdoor main PCB

6 Energy Save App

The **Energy Save App** allows you to easily control and monitor your heat pump system. With it, you will be able to set up your heat pump, manage settings, receive alerts, and access support - everything you need to manage your heat pump efficiently.

Key features

- **Monitoring**
  Real-time tracking of all your heat pump installations.
- **Management**
  Operation and configuration of all your heat pump installations.
- **Support**
  Easy identification of alerts and support contact.

The **Energy Save App** can be downloaded from the Apple App store or Google Play. Minimum requirements: iOS 13.4 or Android 6.

The app is updated with new features frequently, and depending on your phone settings, the app may update automatically.

6.1 Connecting to the internet

There are two alternatives of connecting to the internet:

- Via Wi-Fi
- Via Ethernet

Refer to the following sections for descriptions of how to connect to the internet via these alternatives.

6.1.1 Connecting to Wi-Fi

1 Go to ***User settings*** » ***Wi-Fi***.

2 Tap to set the switch symbol to ON  in order to enable the connection.

3 – For an open network, select the network in the list that appears and tap ***Join this network***. Enter the password.

Once entered, the connection details will be remembered next time you switch on the Wi-Fi.

A connected network will be indicated by a check mark in front of the network name.

6.1.2 Connecting to the internet via Ethernet

1 Use an Ethernet cable to connect to the internet as an alternative to connect via Wi-Fi.

7 Information shown on the display

The top bar of the display shows general information about the system.

1 Menu icon
2 Current date and time
3 Energy Save Cloud connection status
4 Internet connection status
5 Current outdoor temperature

When an alert or a special function is active in the system, this is presented on the main screen with a symbol.

Symbol	Description
	Space heating is in progress.
	An additional heating source is activated.
	Space cooling is in progress.
	Domestic hot water production is in progress.
	The defrosting function is activated.
	The compressor is running.
	The anti-legionella function is activated.
	Reduced mode is activated.
	Quiet mode is activated.
	Vacation mode is activated.
	Electric grid protection is activated.
SG	SG ready encouraged mode
SG	SG ready forced mode
SG	SG ready blocked mode

Alert symbols

Symbol	Description	Action
	**ALARM**	Tap to view information.
	**WARNING**	Tap to view information.
	**INFORMATION**	Tap to view information.

7.1 Alarms and warnings

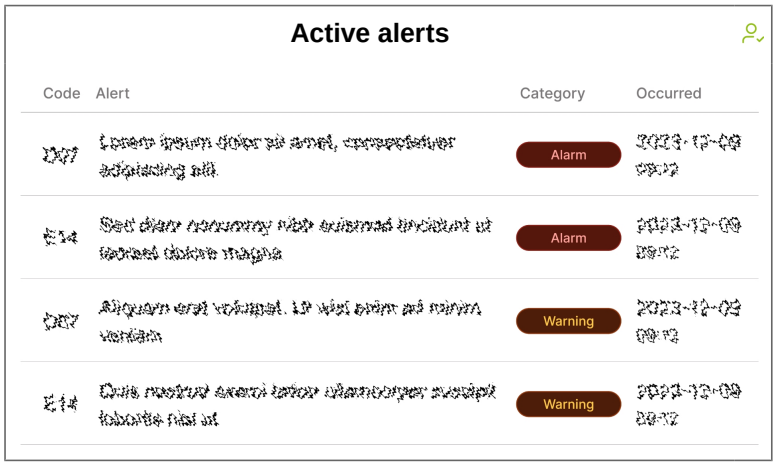
If there is an active alert an icon is displayed in the lower left of the main screen.

Example:

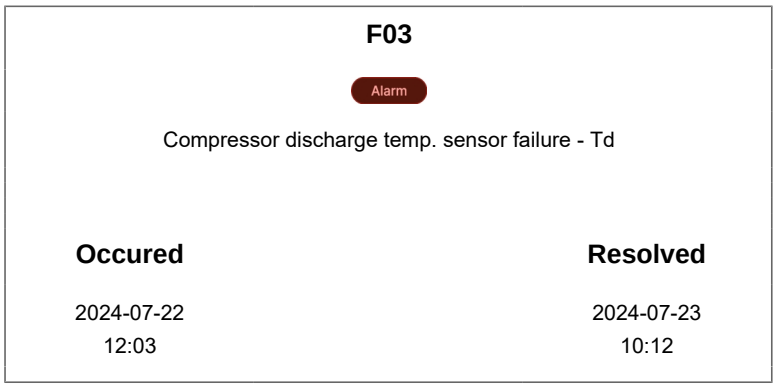
Tapping the icon opens the ***Active alerts*** list.

The alerts list can also be reached by selecting ***Alerts*** in the main menu.

The list is filtered for the end user. Installers can reach a complete list of all active alerts under ***Installer settings » Active alerts***.



Tapping the alert symbol for the specific alert opens up detailed information about the alert.



Some alarms and warnings require confirmation, which is done by tapping in the upper right of the alerts list.

7.1.1 Alert categories

Symbol	Description
Alarm	Stopping alarm. Energy production is lower than normal or stopped. Depending on the severity of the problem the alarm may need to be acknowledged by the user, or it may reset itself when the cause of the alarm is fixed.
Warning	Warning that may need to be acknowledged by the user, or that may reset itself when the cause of the problem is no longer present.
Information	Information that does not require any actions.

8 Temperature settings

Depending on the setup of your heat pump system, there are different methods of achieving the desired indoor temperature.

– ***Room temperature*** refers to the temperature in a system that has a room temperature sensor installed. The indoor temperature is measured and the heat pump adjusts it to the desired temperature.

- ***Curve flow temperature*** refers to the temperature in a system without room temperature sensor, but where the indoor temperature is adjusted according to a heating curve. A point on the curve will be adjusted to change the temperature, but always based on the current outdoor temperature. For other outdoor temperatures, the heat pump operates according to previous settings.
  The purpose of the heating curve is to provide an even indoor temperature, regardless of the outdoor temperature, thereby providing an energy-efficient operation. The heat pump uses the heating curve to determine the temperature of the water to the heating system and thereby the indoor temperature. Factors that affect the heating curve are: insulation of the house, weather conditions, type of heating system, and desired indoor temperature. The optimal heating curve is therefore set when your heat pump is installed but may need to be adjusted.
- ***Fixed flow temperature*** refers to the temperature in a system without a room temperature sensor. This is a fixed setting of the flow temperature; no heating curve is applied. The indoor temperature may vary depending on the outdoor temperature.

8.1 Changing the room temperature in systems with room temperature sensors

1. On the heat pump main screen, tap the ***Room temperature*** box for the zone where you want to change the temperature.
2. Change the temperature setting by tapping the **+** (plus) and **-** (minus) buttons on the temperature selector that appears.

> **NOTE**
>
> It will take some time before the system has processed the setting.

8.2 Changing the room temperature in systems without room temperature sensors

1. On the heat pump main screen, tap the ***Flow temperature*** box for the zone where you want to change the temperature.
2. Change the temperature setting by tapping the **+** (plus) and **-** (minus) buttons on the temperature selector that appears.

> **NOTE**
>
> It will take some time before the system has processed the setting.

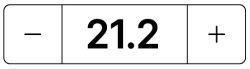
8.3 Changing the domestic hot water temperature

1. On the heat pump main screen, tap the ***DHW*** box.

2 Change the temperature setting by tapping the **+** (plus) and **-** (minus) buttons on the temperature selector that appears.

9 Navigating the user menu

The main navigation tools used to access parameters and information in the menu are:

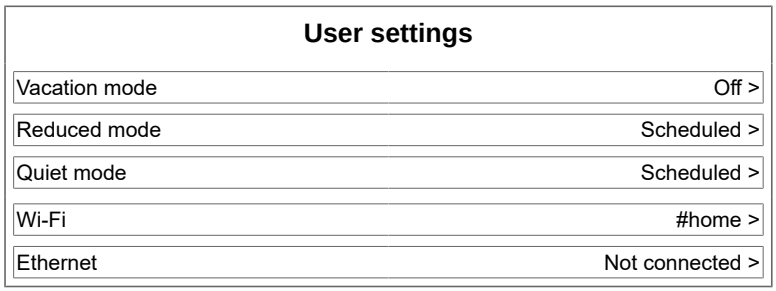
Symbol		Function
	**Menu** icon	Tap to access the menu system.
	**Back** icon	Tap to exit the current screen or menu.
>	(symbol after a value)	Tap to enter a submenu.
	**Selector**	Tap the **+** (plus) or **-** (minus) buttons to increase or decrease the value. Tap the middle button to enter the value with a keypad.
	**Next** button	Tap to go to the next data point on a heating/cooling curve.
	**Previous** button	Tap to go to the previous data point on a heating/cooling curve.
 	**On/Off** icon	Tap to activate or deactivate a specific function.
	**Reset** icon	Tap to reset to the default setting.
	**Switch** icon	Tap to switch between two different setting modes.
	**Edit** icon	Tap to edit a setting.
	**Add** icon	Tap to add a setting.
	**Apply to all** icon	Tap to apply a changed setting to all instances.
	**Bin** icon	Tap to remove a setting.

NOTE

A green icon means the function is enabled. A grey icon means the function is disabled, or that you need to tap the icon to enable it.

9.1 Available user settings

The ***User settings*** menu is intended for both installers and users, however some parameter settings require installer level access. For those parameters the user can view the settings but is not allowed to change anything.



Scroll down to reach the below parameters.

User menu settings

Parameter	Description
Vacation mode	Scheduling of periods of absence when space heating and/or hot water temperatures should be reduced. Status indications: – **Off** - no schedule – **Scheduled** - scheduled but not active – **On** - scheduled and active Active status is also indicated with the symbol on the display. See Section 11 "Setting up the vacation mode schedule", page 28 for scheduling.
Reduced mode	Scheduling of recurring periods when space heating and/or hot water temperatures should be reduced, at night for example. Status indications: – **Off** - no schedule – **Scheduled** - scheduled but not active – **On** - scheduled and active Active status is also indicated with the symbol on the display. See Section 12 "Setting up the reduced mode schedule", page 29 for scheduling.

Parameter	Description
Quiet mode	Scheduling of recurring periods when the heat pump should operate extra silently (the compressor and the fan motor will run with limited speed, to reduce the sound power of the heat pump). **NOTE** By using this function, the heat pump might not be able to produce sufficient heat to heat the space to the desired temperatures! Status indications: – **Off** - no schedule – **Scheduled** - scheduled but not active – **On** - scheduled and active See Section 13 "Setting up the quiet mode schedule", page 30 for scheduling.
Wi-Fi	Connection to a wireless network. Tap to set the switch symbol to ON  in order to enable the connection. See Section 6.1.1 "Connecting to Wi-Fi", page 20 for connection information.
Ethernet	Connection status for connection via Ethernet. Tap to view connection details.
Software & Updates	Information on software versions and available updates.
Pair with user app	Pairing with the dedicated user app. Tap to request a verification code for pairing, then enter the code in the user app. For detailed information, see the **Energy Save App** instructions.
Season start/stop conditions:	
Heating season start/stop	Setting of the desired outdoor temperature for system to go in and out of, hence start and stop, heating season. Tap to open the temperature selector. Select temperature by tapping the **+** (plus) and **-** (minus) buttons.
Cooling season start/stop	Setting of the desired outdoor temperature for system to go in and out of, hence start and stop, cooling season. Tap to open the temperature selector. Select temperature by tapping the **+** (plus) and **-** (minus) buttons.
General:	
Language	Selection of menu language.
Date & Time	Current date and time.

Parameter	Description
Information:	
About	System information such as serial numbers and software and hardware versions.
Dealer information	Contact details for the dealer of the equipment.

10 Changing the heating or cooling mode

1 On the heat pump main screen, tap ***Menu***, then go to ***Operation*** » ***Space heating/cooling***.

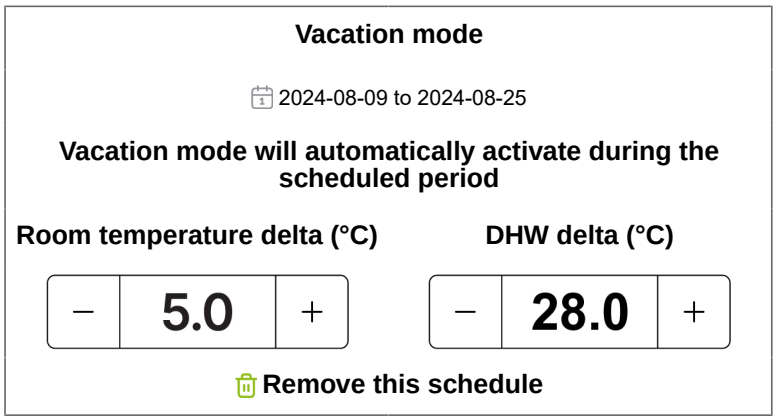
2 Tap to select the desired mode:

- ***Automatic heating & cooling***: The heat pump system will automatically start heating or cooling based on season conditions.
- ***Automatic heating***: The heat pump system will automatically start heating. Cooling is off.
- ***Automatic cooling***: The heat pump system will automatically start cooling. Heating is off.
- ***Off***: Both cooling and heating are off.

A checkmark is added for the selected mode, and on the main screen the set mode is viewed in the ***Operation*** box.

11 Activating the vacation mode

To set the schedule when the vacation mode should be active:



1 Go to ***User settings*** » ***Vacation mode***. Tap to change the setting.

2 Tap ***Add vacation schedule*** to open a date selector for the vacation. Scroll to select a start date and an end date, then tap ***Save***.

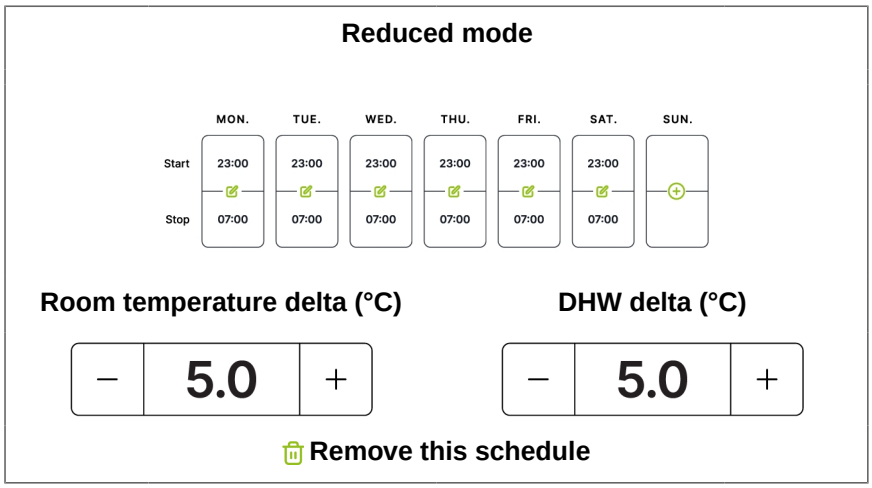
3 In the screen that opens, select the temperature drop in the temperature selectors for ***Room temperature delta (°C)*** and ***DHW delta (°C)*** by tapping the **+** (plus) and **-** (minus) buttons or by tapping the temperature value and changing it with the keypad that appears.

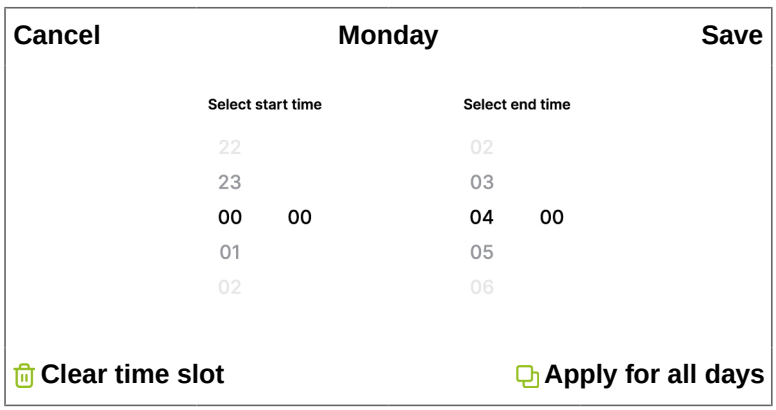
> **NOTE**
>
> The temperature drop for ***Room temperature delta (°C)*** refers to the room temperature, not to be confused with the flow temperature.

To remove the entire schedule, tap ***Remove this schedule***.

12 Activating the reduced mode

To set the schedule for the reduced mode (night setback function):





1 Go to ***User settings*** » ***Reduced mode***. Tap to change the setting.

2 Tap ***Add reduced mode schedule*** to open a screen with time slot settings for each day (night) of the week.

3 To edit the time settings, tap the edit icon to open a time selector for the selected day. Scroll to select a start time and an end time.

4 Tap ***Save*** to save the setting for the selected day, or tap ***Apply for all days*** to save the same setting for all days of the week.

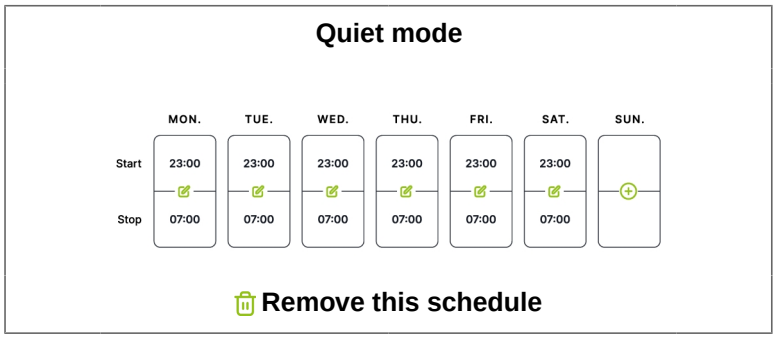
To remove the reduced mode for the selected day, tap ***Clear time slot***.

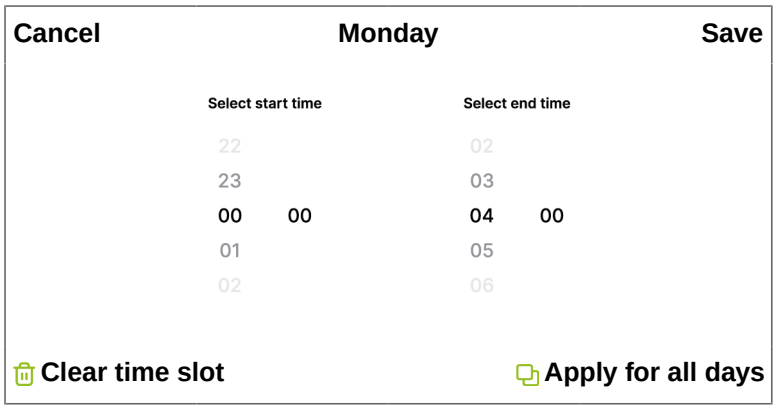
5 Back in the reduced mode schedule, select the temperature drop in the temperature selectors for ***Room temperature delta (°C)*** and ***DHW delta (°C)*** by tapping the **+** (plus) and **-** (minus) buttons.

To remove the entire schedule, tap ***Remove this schedule***.

13 Activating the quiet mode

To set the schedule for the quiet mode:





1 Go to ***User settings*** » ***Quiet mode***. Tap to change the setting.

2 Tap ***Add quiet mode schedule*** to open a screen with settings, where the time slot for the function is preset to 23:00 to 07:00 for each day (night) of the week.

To remove the entire schedule, tap ***Remove this schedule***.

3 To change the time settings, tap the edit icon to open a time selector for the selected day. Scroll to select a start time and an end time.

4 Tap ***Save*** to save the setting for the selected day, or tap ***Apply for all days*** to save the same setting for all days of the week.

To remove the quiet mode for the selected day, tap ***Clear time slot***.

14 Support

14.1 Dealer information

For support, contact your dealer through the provided contact information, reached from the heat pump display.

1 Tap ☰ ***Menu***, then select ***User settings***

2 Scroll down to the bottom of the list and tap ***Dealer information***.

3 Be ready to provide details about your heat pump, such as model, serial number, and software/hardware versions. This data can be found under ***User settings*** » ***About***.

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