

Chiller and Heat pumps



UNICA R2 200/260

Heat pump for DHW with 200/260 liter storage tank

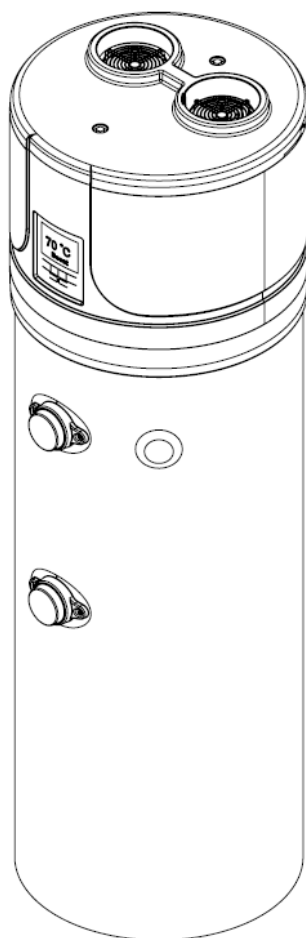


USER MANUAL

UNICA R2 200/260 STANDARD

UNICA R2 200/260 S1

DOMESTIC HOT WATER HEAT PUMP



Dear Customer,

Thank you for choosing this product!

RDZ S.P.A., has always paid a great deal of attention to environmental problems, therefore, we have used technologies and materials with a low environmental impact to manufacture products in conformity with RAEE – ROHS (2002/95/CE and 2003/108/CE) community standards.

IMPORTANT RULES AND SAFETY INSTRUCTIONS

IMPORTANT! Non observance of below described rules leads to warranty fault and the RDZ S.p.A. bear no more responsibilities for your appliance!



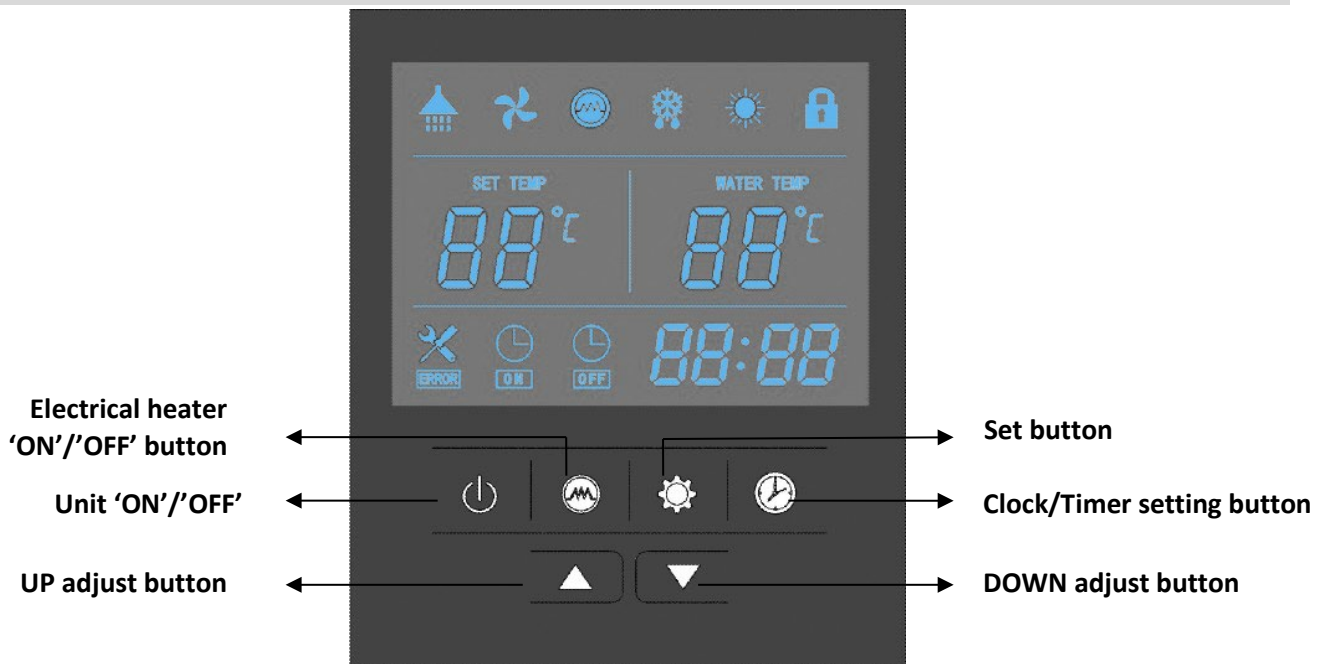
- ***This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.***
- ***Children should be supervised to ensure that they do not play with the appliance.***
- ***Children must not play with the equipment. Cleaning and maintenance intended to be carried out by the user must not be performed by unsupervised children.***
- ***The use of the appliance for any purpose other than that it is intended is prohibited***
- ***Do not use the storage tank if it is not filled with water.***
- ***Installation, commissioning and maintenance of the device must be performed by qualified and authorized personnel. Do not attempt to install the device yourself.***
- ***The appliance must only be installed in premises with normal fire resistance.***
- ***Usage of this device at temperature and pressure level above prescribed leads to warranty violation!***
- ***This device is intended for heating of potable water in liquid state. using different fluids in different states leads to warranty violation!***
- ***Device's heat exchangers are intended for use with circulating clean water and mixture of it and Propylene GLYCOL at liquid state. The presence of anticorrosion additives is obligatory. Using different fluids in different states leads to warranty violation!***

BEFORE STARTING THE UNIT!



- ***Read carefully the “Installation and maintenance manual”, that is an integral part of your appliance!***
- ***Check if the unit is installed and connected according to the “Installation and maintenance manual”, that is an integral part of your appliance!***
- ***Check if the tank is full with water!***
- ***Check if the electric main supply is present and it is with accordance to the local regulations!***
- ***Check that the air ducts or air inlet/outlet are not blocked!***

OPERATING MODES. USER INTERFACE



- Display Symbol



- Button symbol



Press ▲ and ▼ buttons at the same time and hold for 5 seconds, the buttons are locked.
Press ▲ and ▼ buttons at the same time and hold for 5 seconds again, the buttons are unlocked

3 EASY STEPS TO START USING YOUR APPLIANCE

1. Switching 'ON'




When connecting the appliance to the main power supply, all icons are displayed on the controller screen for 3 seconds. After that an initial check is undergoing. If everything is ok, the unit enters into a standby mode:

standby mode:




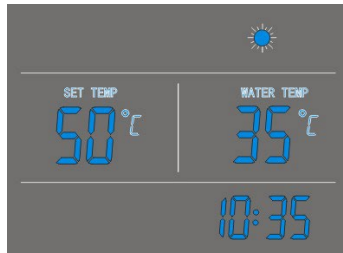
2. Clock setting



Clock setting:

- After switching the appliance on, press  button to entry the clock setting interface, hour and minute icons "88:88" flash together;
- Press  button to switch hour/minute setting, press the ▲ and ▼ buttons to set the exact hour(s) and minute(s);
- Press  button again to confirm and exit.

3. Heating mode

Press and hold the button  for 2 seconds when the unit is in standby. The “Heating mode” will start. The display will look like:



The left side of the temperature display  shows the set water temperature. The right side of the temperature display  shows the current temperature of the water tank.

The heat pump will start working continuously in order to reach the set temperature. If the set temperature is adjusted to above 65°C, E-Heater will start working to continue heating the water to the set temperature.

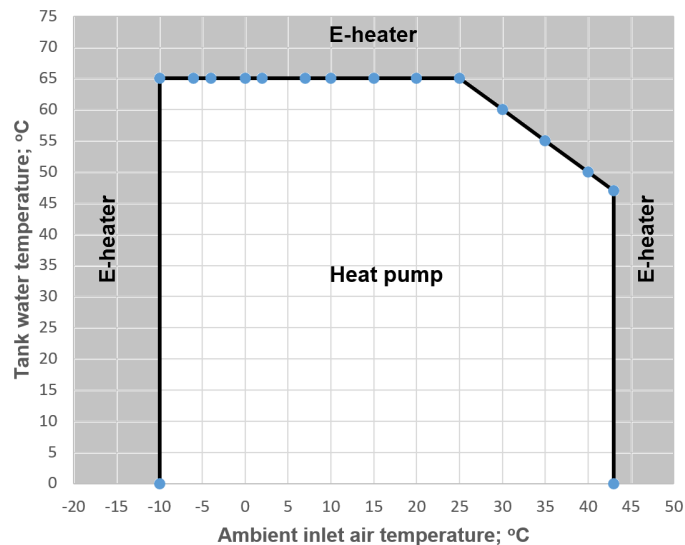
If the outside air temperature is less than -10°C or above 44°C, the E-Heater will work only!

While the heat pump is working at a low outside air temperature, defrosting mode could be activated automatically in order to melt the ice collected on the evaporator. This is a normal situation.

4. Setting desired water temperature

During running status, press ▲ or ▼ button to adjust the set temperature of water tank directly.

The maximum achievable water temperature by heat pump only, depends on outside air inlet temperature and could be seen on picture:




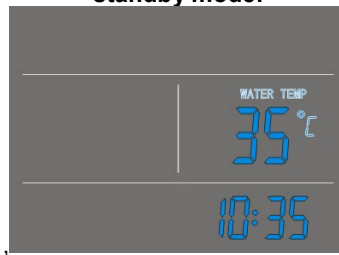
If the set temperature (via control display) is more than achievable one as per picture, the E-heater will be switch ON automatically to reach it.



In order to save energy, avoid setting the temperature above 55°C if not necessary! This way the heat pump will work without the help of the E-Heater!



5. Switching the unit OFF

To switch the unit OFF press  button and hold it for 2 seconds while the unit is running. The display will look like:
standby mode:


















URGENT NEED OF HOT WATER!

6. “Boost mode”

While the heat pump is running, press this button  to turn ‘ON’ “Boost mode”. The heater icon  will be shown, and the electrical heater will work according to the control program together with the compressor until the set temperature is reached.

FLEXIBLE USAGE OF YOUR APPLIANCE!

7. Timer setting

- After switching the appliance on, press and hold  button for 5 seconds to enter the timer setting interface, the timer on icon  and hour icon “88:” will flash together;
- Press the  and  buttons to set the exact hour(s).
- Press  button to transfer to minute setting, minute icon “:88” will flash, press the  and  buttons to set the exact minute(s).
- Press  button again to transfer to timer off setting, the timer off icon  and hour icon “88:” will flash together.
- Press the  and  buttons to set the exact hour(s).
- Press  button to transfer to minute setting, minute icon “:88” will flash, press the  and  buttons to set the exact minute(s).
- Press  button again to save and exit the timer setting interface.

Press  button to cancel the timer, while the “timer setting” mode is active!!!

NOTE:

- 1) The timer ‘ON’ and timer ‘OFF’ functions can be set at the same time.
- 2) The timer settings are repeating.
- 3) The timer settings are still valid after a sudden power cut.

WITH CARE FOR YOUR HEALTH!

Disinfection weekly cycle

The E-heater will start each week at the setting time automatically, regardless if the machine is on or in standby mode. E-heater will stop working, when the tank temperature reaches 70°C (disinfection against legionella bacteria)


IF SOMETHING LOOKS & SOUNDS STRANGE!

Other functionalities available on the unit

1. “Antifreeze mode”

When the unit is in standby mode, if the water temperature in the tank is below 5°C (tank water frozen protection), only the E-heater will work, until tank temperature increases above 10°C or the unit is turned on.


2. “Defrosting”

The icon  indicates that the defrosting function is enabled. This is an automatic function, the system will enter or exit the defrosting function according to the inner control program.

3. Pump anti-block function:

When the external pump (if any) stops for 12 hours, it will be forced to run for 2 minutes.

4. Fan ventilation

The icon indicates that the fan ventilation function is enabled. When the heat pump is ON, press this button  and hold for 5 seconds to enable or disable the fan ventilation function. If this function is enabled the fan will continue working to ventilate the air, even when the water temperature reaches the set point and the unit is in standby mode. On the contrary If this function is disabled the fan will stop, when the water temperature reaches the set point and the unit is in standby mode.

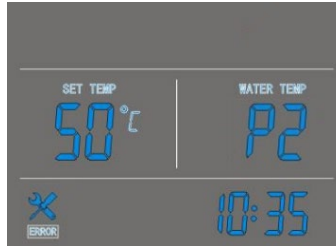
IF SOMETHING GOES WRONG!



- **Switch off the unit! Disconnect it the from main power supply!**
- **Call to the service and inform them about the error code or describe all abnormalities and strange behavior or noise of your appliance!**


1. Error codes

During standby or running status, if there is a malfunction, the unit will stop automatically and show the error code on the left screen of the controller. See the installation and maintenance manual















Error	Code	LED indicator
Stand by		Dark
Normal running		Bright
Lower tank water temp sensor failure	P1	☆●(1 flash 1 dark)
Upper tank water temp sensor failure	P2	☆☆●(2 flash 1 dark)
Coil temp sensor failure	P3	☆☆☆●(3 flash 1 dark)
Air return temp sensor failure	P4	☆☆☆☆●(4 flash 1 dark)
Ambient temp sensor failure	P5	☆☆☆☆☆●(5 flash 1 dark)
High pressure protection	E1	☆☆☆☆☆☆●(6 flash 1 dark)
Low pressure protection	E2	☆☆☆☆☆☆☆●(7 flash 1 dark)
Over heat protection	E3	☆☆☆☆☆☆☆☆●(8 flash 1 dark)
Defrosting		☆☆☆☆☆☆☆☆.....(long flash)
Communication failure	E8	Bright

2. “E heater only”

If the E-heater button  on the control panel has been turned on manually when the unit is in standby mode, the E-heater will work only, until the temperature of the upper tank (5) reaches the set temperature TS2;

MEANING OF LED ICONS!

LED icons description

	Hot water available	The icon indicates that the domestic hot water temperature reaches the set point. The hot water is available for use. Heat pump is standby
	Fan ventilation	The icon indicates that the fan ventilation function is enabled.
	Electrical heating	The icon indicates that the electrical heating function is enabled. The electrical heater will work according to the control program.
	Defrosting	The icon indicates that the defrosting function is enabled. This is an automatic function, the system will enter or exit the defrosting according to the inner control program
	Heating	The icon indicates that the current operation mode is Heating.
	Key lock	The icon indicates the key lock function is enabled. The keys cannot be operated until this function is disabled
	Left temperature display	The display shows the set water temperature. In case any malfunction occurs, this section will display the related error code.
	Right temperature display	When checking or adjusting the parameters, this section will display the related parameter value
	Time display	The display shows the clock time or timer time.
	Timer 'ON'	The icon indicates that the timer 'ON' function is enabled.
	Timer 'OFF'	The icon indicates that the timer 'OFF' function is enabled.
	Error	The icon indicates there is malfunction.

Environmental Guidelines



According to the provisions of the following European directives 2011/65/EU, 2012/19/EU, and 2003/108/CE, concerning the restriction of the use of certain hazardous substances in electrical and electronic equipment, as well as waste disposal.

The crossed out wheelie bins symbol on the equipment indicates that, at the end of its useful life, the product must be collected separately from general waste.

The refrigerating gas contained within it must be recovered separately by specialised personnel and sent to collection centres; the lubrication oil for the compressors must also be recovered and sent to collection centres; The structure and the various components, if they can no longer be used, must be demolished and divided up according to the type of product: this is particularly important for the copper and aluminium components, which are included in the machine in moderate quantities.

Therefore, at the end of its useful life, the user must take the equipment to a designated electrical and electronic waste collection point, or return it to the dealer that, against the purchase of an equivalent appliance, it is obliged to collect the product for disposal free of charge.

Appropriate differentiated waste collection for subsequent recycling, treatment and environment-friendly disposal of the discarded equipment helps preventing possible negative environmental and health effects and encourages recycling of the component materials of the equipment.

Illegal disposal of the product by the user entails the application of sanctions provided by the regulations in force.

CLICK | SCAN



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10/2023



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