

HPI EVOLUTION

Air / water heat pump

AWHP-2 MIT-IN-2 iSystem



User Guide

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1 Introduction

1.1 Symbols used

1.1.1. Symbols used in the manual

In these instructions, various danger levels are employed to draw the user's attention to particular information. In so doing, we wish to safeguard the user's safety, highlight hazards and guarantee correct operation of the appliance.



DANGER

Risk of a dangerous situation causing serious physical injury.



WARNING

Risk of a dangerous situation causing slight physical injury.



CAUTION

Risk of material damage.



Signals important information.



Signals a referral to other instructions or other pages in the instructions.

1.1.2. Symbols used on the equipment



Protective earthing



Alternating current



Before installing and commissioning the device, read carefully the instruction manuals provided.



Dispose of the used products in an appropriate recovery and recycling structure.



M002628-A

Caution: danger, live parts.
Disconnect the mains power prior to any operations.

1.2 Abbreviations

- ▶ **DHW:** Domestic hot water
- ▶ **PPS:** Polypropylene hardly inflammable
- ▶ **PCU:** Primary Control Unit - PCB controller for heat pump operation
- ▶ **PSU:** Parameter Storage Unit - Parameter storage for PCBs PCU and SU
- ▶ **SCU:** Secondary Control Unit - DIEMATIC iSystem control panel PCB
- ▶ **SU:** Safety Unit - Safety PCB
- ▶ **3WV:** 3-way valve
- ▶ **EVU:** Power supply company
- ▶ **AWHP:** Outdoor module connected by connection cable to the indoor module
- ▶ **MIT-2:** Indoor module fitted with a DIEMATIC iSystem control panel
- ▶ **HP:** Heat pump
- ▶ **EER:** Frigorific efficiency ratio
- ▶ **COP:** Performance coefficient

- ▶ **EER:** Frigorific efficiency ratio

- ▶ Flow temperature: Temperature of the water circulating in the radiators or in the underfloor heating.
- ▶ Ambient temperature: Temperature inside the house or in a room.
- ▶ Room temperature setpoint: Temperature programmed in the control system that must be reached by the heat pump.

1.3 Liabilities

1.3.1. Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various applicable European Directives. They are therefore delivered with **CE** marking and all relevant documentation.

In the interest of customers, we are continuously endeavouring to make improvements in product quality. All the specifications stated in this document are therefore subject to change without notice.

Our liability as the manufacturer may not be invoked in the following cases:

- ▶ Failure to abide by the instructions on using the appliance.
- ▶ Faulty or insufficient maintenance of the appliance.
- ▶ Failure to abide by the instructions on installing the appliance.

1.3.2. Installer's liability

The installer is responsible for the installation and commissioning of the appliance. The installer must respect the following instructions:

- ▶ Read and follow the instructions given in the manuals provided with the appliance.
- ▶ Carry out installation in compliance with the prevailing legislation and standards.
- ▶ Perform the initial start up and carry out any checks necessary.
- ▶ Explain the installation to the user.
- ▶ If a maintenance is necessary, warn the user of the obligation to check the appliance and maintain it in good working order.
- ▶ Give all the instruction manuals to the user.

1.3.3. User's liability

To guarantee optimum operation of the appliance, the user must respect the following instructions:

- ▶ Read and follow the instructions given in the manuals provided with the appliance.
- ▶ Call on qualified professionals to carry out installation and initial start up.
- ▶ Get your installer to explain your installation to you.
- ▶ Ensure the Appliance is serviced in accordance with the manufacturer's instructions by a suitable qualified person.
- ▶ Keep the instruction manuals in good condition close to the appliance.

This appliance is not intended to be used by persons (including children) whose physical, sensory or mental capacity is impaired or persons with no experience or knowledge, unless they have the benefit, through the intermediary of a person responsible for their safety, of supervision or prior instructions regarding use of the appliance. Care should be taken to ensure that children do not play with the appliance.

If the mains power lead is damaged it must be replaced by the original manufacturer, the manufacturer's dealer or another competent person to prevent hazardous situations.

1.4 Homologations

1.4.1. Certifications

This product complies to the requirements to the european directives and following standards:

- ▶ 2006/95/EC Low Voltage Directive. Reference Standards: EN60335-1 / EN60335-2-40.

- ▶ 2004/108/EC Electromagnetic Compatibility Directive. Generic standards: EN1000-6-3 , EN 61000-6-1.

2 Safety instructions and recommendations

2.1 Safety instructions



DANGER

If smoke is released or in case of refrigerant leak:

1. Switch the appliance off.
2. Open the windows.
3. Evacuate the premises.
4. Contact a qualified professional.



WARNING

Depending on the settings of the appliance:

- ▶ The temperature of the radiators may reach 80°C.
- ▶ Do not touch the refrigeration connection pipes with your bare hands while the appliance is running. Danger of burns or frost injury.



CAUTION

Do not neglect to service the appliance. Contact a qualified professional or take out a maintenance contract for the annual servicing of the appliance.

2.2 Recommendations



WARNING

Only qualified professionals are authorised to work on the appliance and the installation.

- ▶ Regularly check that the water pressure in the installation is between 1,5 and 2 bar.
- ▶ Ensure that the appliance is accessible at all times for maintenance purposes.
- ▶ Avoid draining the installation.
- ▶ Use only original spare parts.
- ▶ Never remove or cover labels and rating plates affixed to the appliance. Labels and rating plates must be legible throughout the entire lifetime of the appliance.

3 Description

3.1 General description

The AWHP-2 MIT-IN-2 iSystem heat pump is composed of two elements:

- ▶ The outside unit handles energy production in hot or cold mode.
- ▶ The inside module handles thermal exchange between the R410A fluid and the hydraulic circuit.

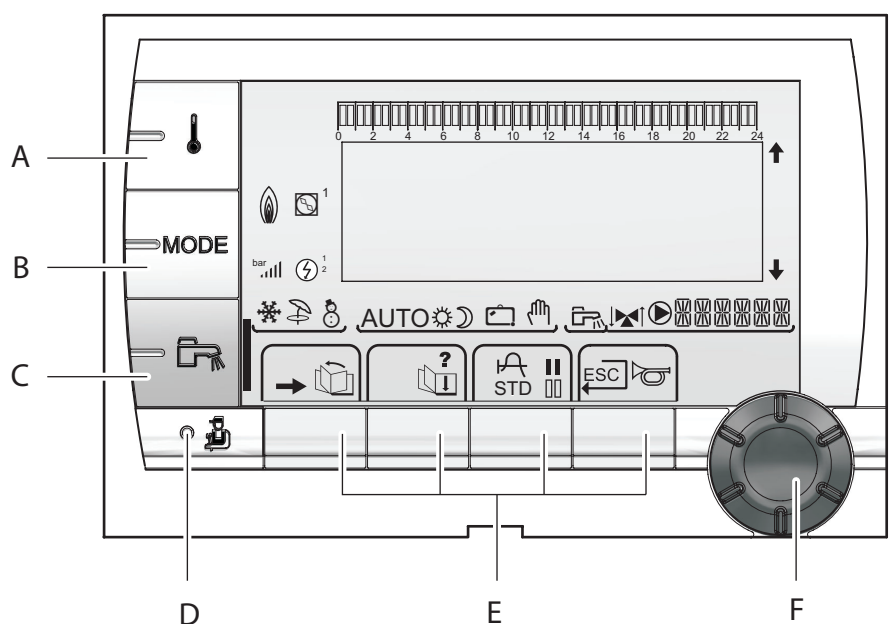
The two units are connected by means of refrigeration and electrical connections.


The system offers the following advantages:

- ▶ The heating circuit is housed in the insulated volume within the home. There is no danger of the pipes freezing.
- ▶ Thanks to the DC inverter system, the heat pump modulates its output to adapt to the needs of the home.
- ▶ The control panel uses the outside temperature sensor to adjust the temperature of the heating circuit according to the outside temperature.

3.2 Control panel

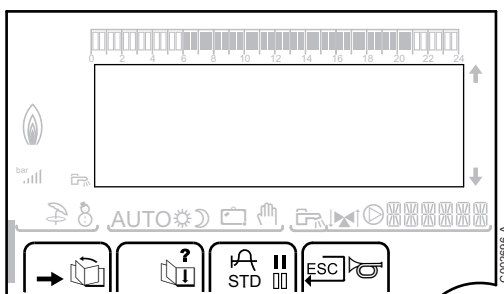
3.2.1. Description of the keys












- A** Temperature setting key (heating, DHW, swimming pool)
- B** Operating mode selection key
- C** DHW override key
- D** Key to access the parameters reserved for the installer
- E** Keys on which the function varies as and when selections are made
 See: "Key functions", page 10
- F** Rotary setting button:
 - ▶ Turn the rotary button to scroll through the menus or modify a value
 - ▶ Press the rotary button to access the selected menu or confirm a value modification

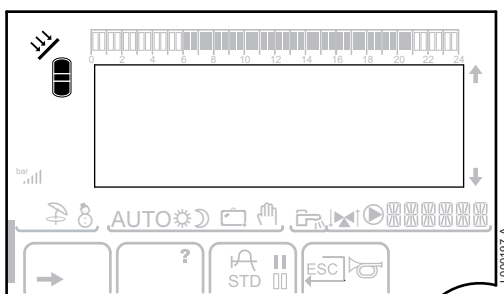
3.2.2. Description of the display





■ Key functions



-  Access to the various menus
-  Used to scroll through the menu
-  Used to scroll through the parameters
-  The symbol is displayed when help is available
-  Used to display the curve of the parameter selected
- STD** Reset of the time programmes
-  Selection of comfort mode or selection of the days to be programmed
-  Selection of reduced mode or deselection of the days to be programmed
-  Back to the previous level
- ESC** Back to the previous level without saving the modifications made
-  Manual reset

■ Solar (If connected)

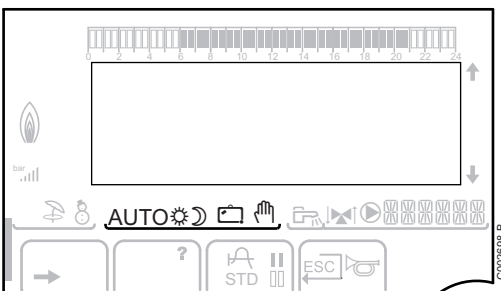
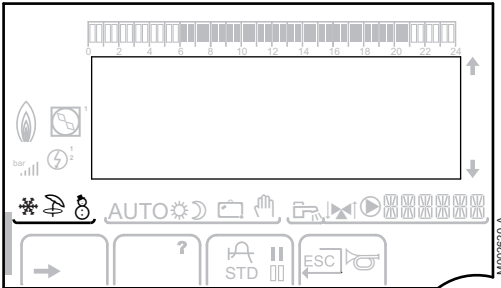


-  The solar load pump is running
-  The top part of the tank is reheated to the tank set point
-  The entire tank is reheated to the tank set point
-  The entire tank is reheated to the solar tank set point



The tank is not loaded - Presence of the solar control system

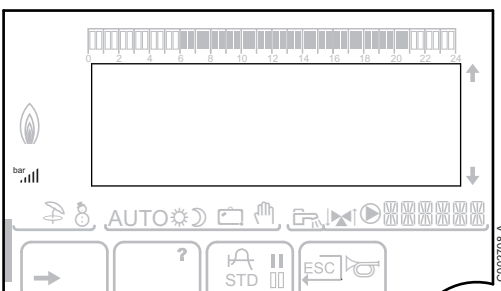
■ Operating modes



- Summer mode: Cooling is possible. Domestic hot water continues to be produced.
- WINTER mode: Heating and domestic hot water working.
- Forced cooling mode.
- Cooling mode: Heating according to the time programme.

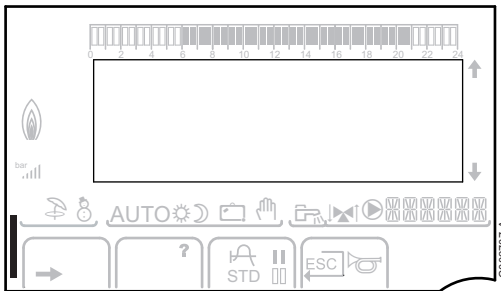
- AUTO** Operation in automatic mode according to the timer programme.
- Comfort mode: The symbol is displayed when a DAY override (comfort) is activated.
 - ▶ Flashing symbol: Temporary override
 - ▶ Steady symbol: Permanent override
- Reduced mode: The symbol is displayed when a NIGHT override (reduced) is activated.
 - ▶ Flashing symbol: Temporary override
 - ▶ Steady symbol: Permanent override
- Holiday mode: The symbol is displayed when a HOLIDAY override (antifreeze) is activated.
 - ▶ Flashing symbol: Holiday mode programmed
 - ▶ Steady symbol: Holiday mode active
- Manual mode

■ System pressure



- bar** Pressure indicator: The symbol is displayed when a water pressure sensor is connected.
 - ▶ Flashing symbol: The water pressure is insufficient.
 - ▶ Steady symbol: The water pressure is sufficient.
- Water pressure level
 - ▶ : 0,9 to 1,1 bar
 - ▶ : 1,2 to 1,5 bar
 - ▶ : 1,6 to 1,9 bar
 - ▶ : 2,0 to 2,3 bar
 - ▶ : > 2,4 bar

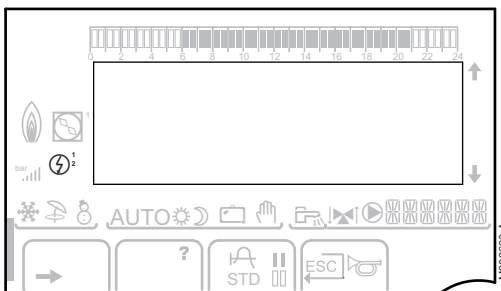
■ Domestic Hot Water override



A bar is displayed when a DHW override is activated:

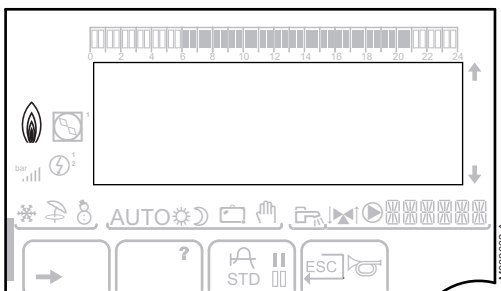
- ▶ Flashing bar: Temporary override
- ▶ Steady bar: Permanent override

■ Electrical back-up



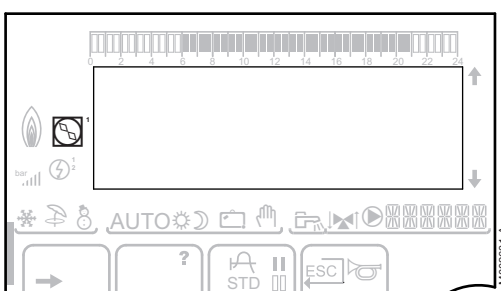
The symbol 1 or 2 lights up, depending on whether stage 1 or 2 on the electrical back-up is commanded.

■ Hydraulic additional heating

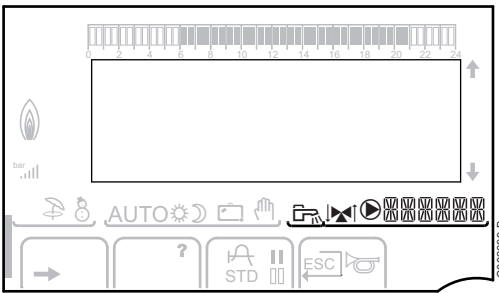


- ▶ Steady symbol: The burner and the heating pump on the back-up boiler are commanded.
- ▶ Flashing symbol: The heating pump on the back-up boiler is commanded.

■ Status of the compressor



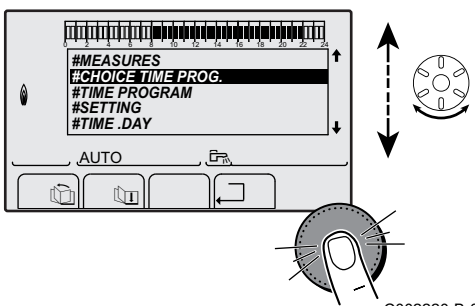
- ▶ Steady symbol: The compressor is running.
- ▶ Flashing symbol: The heat pump is required but the compressor is off.



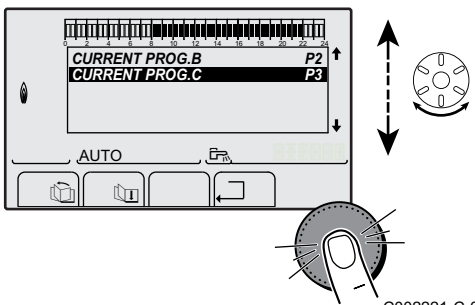
■ Other information

- The symbol is displayed when domestic hot water production is running.
- Valve indicator: The symbol is displayed when a 3-way valve is connected.
 - ▶ : 3-way valve opens
 - ▶ : 3-way valve closes
- The symbol is displayed when the pump is operating.
- Name of the circuit for which the parameters are displayed.

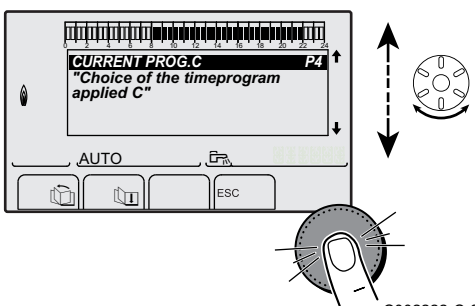
3.2.3. Browsing in the menus



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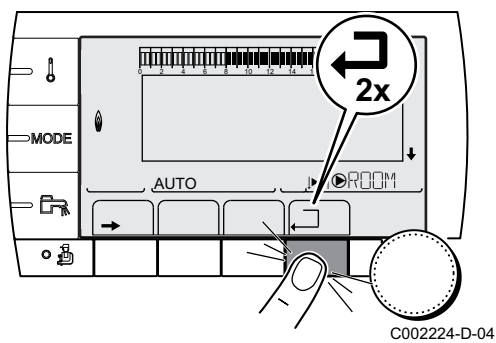



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C002222-C-04

1. To select the desired menu, turn the rotary button.
 2. To access the menu, press the rotary button.
To go back to the previous display, press the key .
 3. To select the desired parameter, turn the rotary button.
 4. To modify the parameter, press the rotary button.
To go back to the previous display, press the key .
 5. To modify the parameter, turn the rotary button.
 6. To confirm, press the rotary button.
- To cancel, press key **ESC**.



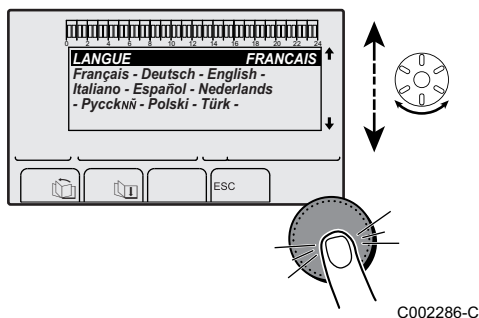
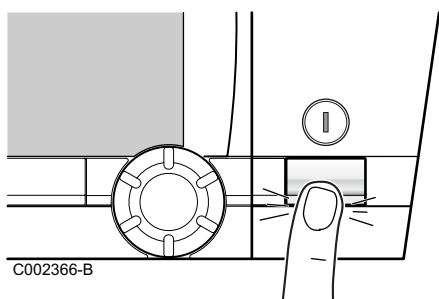
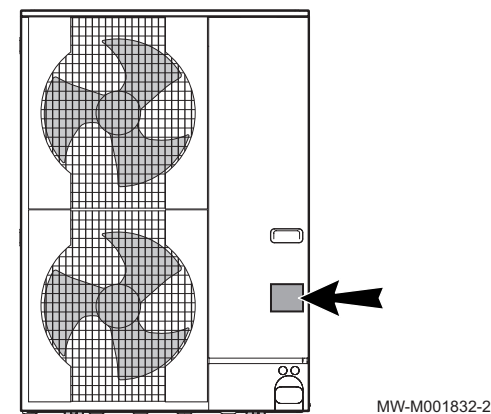
7. To go back to the main display, press key  2 times.



It is possible to use the  and  keys instead of the rotary button.

4 Operating the appliance

4.1 Putting the appliance into operation



1. Make a note of the output and type shown on the outside module's nameplate.

2. Switch on the power by throwing the on/off switch on the inside module.

3. The first time the boiler is powered up, the **LANGUAGE** menu is displayed. Select the desired language by turning the rotary button.

4. To confirm, press the rotary button.

5. The parameter **TYPE** displays. According to the values noted on the outside module's nameplate, select the type of thermodynamic unit by turning the rotary button.

Outside module output	Indoor module	TYPE
From 4 to 16 kW	MIT-IN-2/E	MIT AWHP E HT FR
	MIT-IN-2/H	MIT AWHP H HT FR
22 and 27 kW	MIT-IN-2/E	MIT AWHP E FR
	MIT-IN-2/H	MIT AWHP H FR

Error during the start-up procedure:

- ▶ No information is shown on the display:
Contact the professional who takes care of maintenance of the appliance.
- ▶ If there is a problem, the error is displayed on the screen.
👉 See chapter: "Messages", page 24.

4.2 Reading out measured values

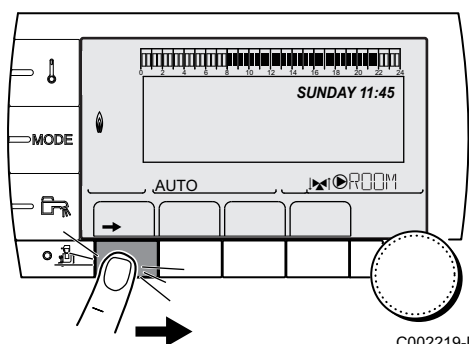
The various values measured by the appliance are displayed in the **#MEASURES** menu.

1. To access user level: Press the → key.
2. Select the menu **#MEASURES**.



- ▶ Turn the rotary button to scroll through the menus or modify a value.
- ▶ Press the rotary button to access the selected menu or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 13.



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User level - Menu #MEASURES		
Parameter	Description	Unit
OUTSIDE TEMP.	Outside temperature	°C
ROOMTEMP.A ⁽¹⁾	Room temperature of circuit A	°C
ROOMTEMP.B ⁽¹⁾	Room temperature of circuit B	°C
ROOMTEMP.C ⁽¹⁾	Room temperature of circuit C	°C
MIT TEMP.	Inside module flow sensor measurement	°C
PRESSURE	Water pressure in the installation	bar (MPa)
WATER TEMP. ⁽¹⁾	Water temperature in the DHW tank	°C
STOR.TANK.TEMP ⁽¹⁾	Water temperature in the storage tank	°C
SWIMMING P.T.B ⁽¹⁾	Water temperature of the swimming pool on circuit B	°C
SWIMMING P.T.C ⁽¹⁾	Water temperature of the swimming pool on circuit C	°C
OUTLET TEMP.B ⁽¹⁾	Temperature of the flow water in circuit B	°C
OUTLET TEMP.C ⁽¹⁾	Temperature of the flow water in circuit C	°C
TEMP.SYSTEM ⁽¹⁾	Temperature of the system flow water if multi-generator	°C
T.DHW BOTTOM ⁽¹⁾	Water temperature in the bottom of the DHW tank	°C
TEMP.TANK AUX ⁽¹⁾	Water temperature in the second DHW tank connected to the AUX circuit	°C
DHW A TEMP. ⁽¹⁾	Water temperature in the second DHW tank connected to circuit A	°C
TEMP.SOL.TANK ⁽¹⁾	Temperature of the hot water produced by solar power (TS)	°C
SOLAR.COLL.T. ⁽¹⁾	Solar panel temperature (TC)	°C
SOLA.ENERGY ⁽¹⁾	Solar energy accumulated in the tank	kWh
FLOWMETER	Plate exchanger flow rate	l/min
NB IMPULS.COMP	Number of heat pump start-ups	
RUNTIME HP	Number of hours' operation of the heat pump compressor	h
IN 0-10V ⁽¹⁾	Voltage at input 0-10 V	V
SEQUENCE	Control system sequence	
CTRL	Software control number (SCU)	

⁽¹⁾ The parameter is only displayed for the options, circuits or sensors actually connected.

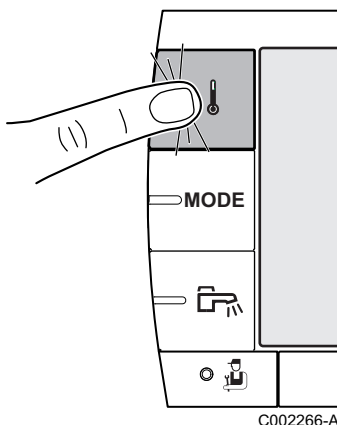
User level - Menu #MEASURES		
Parameter	Description	Unit
DT INSTALLATION	Installation temperature delta	K
ELEC.ENERGY ⁽¹⁾	Total electrical energy consumed	kWh
ELEC.ENERG.Y1 ⁽¹⁾	Total electrical energy consumed in the previous year	kWh
ELEC.ENERG.Y2 ⁽¹⁾	Total electrical energy consumed two years ago	kWh
THERM.ENERGY ⁽¹⁾	Total thermal energy yield	kWh
THERM.ENERG.Y1 ⁽¹⁾	Total thermal energy yield in the previous year	kWh
THERM.ENERG.Y2 ⁽¹⁾	Total thermal energy yield two years ago	kWh

(1) The parameter is only displayed for the options, circuits or sensors actually connected.

4.3 Changing the settings

4.3.1 Setting the set point temperatures

To set the various heating, DHW and swimming pool temperatures, proceed as follows:



1. Press the \downarrow key.
2. To select the desired parameter, turn the rotary button.
3. To modify the parameter, press the rotary button.
To go back to the previous display, press the key \square .
4. To modify the parameter, turn the rotary button.
5. To confirm, press the rotary button.



To cancel, press key ESC .

Menu \downarrow			
Parameter	Adjustment range	Description	Factory setting
DAY TEMP.A	5 to 30 °C	Desired room temperature in comfort periods on circuit A	20 °C
NIGHT TEMP.A	5 to 30 °C	Desired room temperature in reduced periods on circuit A	16 °C
ROOMTEM.COOL A ^{(1) (2)}	22 to 30 °C	Desired room temperature set point in cooling mode	25 °C
DAY TEMP.B ⁽²⁾	5 to 30 °C	Desired room temperature in comfort periods on circuit B	20 °C
NIGHT TEMP.B ⁽²⁾	5 to 30 °C	Desired room temperature in reduced periods on circuit B	16 °C
ROOMTEM.COOL B ^{(2) (1)}	22 to 30 °C	Desired room temperature set point in cooling mode	25 °C
DAY TEMP.C ⁽²⁾	5 to 30 °C	Desired room temperature in comfort periods on circuit C	20 °C
NIGHT TEMP.C ⁽²⁾	5 to 30 °C	Desired room temperature in reduced periods on circuit C	16 °C
ROOMTEM.COOL C ^{(2) (1)}	22 to 30 °C	Desired room temperature set point in cooling mode	25 °C
DHW TEMP. ⁽²⁾	10 to 65 °C	Desired domestic hot water temperature in the DHW circuit	55 °C

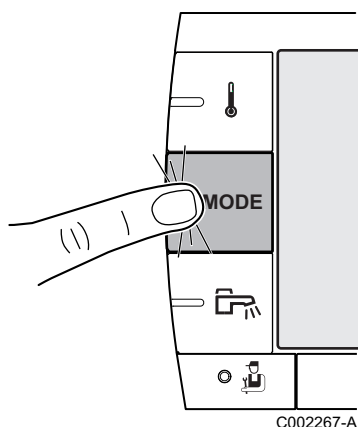
(1) The parameter is only displayed if the corresponding circuit can handle cooling.
(2) The parameter is only displayed for the options, circuits or sensors actually connected.

Menu ↓			
Parameter	Adjustment range	Description	Factory setting
WATER T.NIGHT ⁽²⁾	10 to 80 °C	Set tank temperature, night programme	10 °C
TEMP.TANK AUX ⁽²⁾	10 to 80 °C	Desired domestic hot water temperature in the auxiliary circuit	55 °C
WATER T.NIGHTAUX ⁽²⁾	10 to 80 °C	Desired domestic hot water temperature in the auxiliary circuit for the night program	10 °C
DHW A TEMP. ⁽²⁾	10 to 80 °C	Desired domestic hot water temperature in circuit A	55 °C
WATER T.NIGHT.A ⁽²⁾	10 to 80 °C	Desired domestic hot water temperature in the tank connected to circuit A for the night program	10 °C
TEMP.SOL.TANK ⁽²⁾	10 to 80 °C	Temperature of the hot water produced by solar power (TS)	55 °C
SWIMMING P.T.B ⁽²⁾	0 to 39 °C	Desired temperature for swimming pool B	20 °C
SWIMMING P.T.C ⁽²⁾	0 to 39 °C	Desired temperature for swimming pool C	20 °C

(1) The parameter is only displayed if the corresponding circuit can handle cooling.
 (2) The parameter is only displayed for the options, circuits or sensors actually connected.

4.3.2. Selecting the operating mode

To select an operating mode, proceed as follows:



1. Press the **MODE** key.
2. To select the desired parameter, turn the rotary button.
3. To modify the parameter, press the rotary button.
To go back to the previous display, press the key \square .
4. To modify the parameter, turn the rotary button.
5. To confirm, press the rotary button.

i To cancel, press key **ESC**.

Menu MODE			
Parameter	Adjustment range	Description	Factory setting
AUTOMATIQUE		The comfort ranges are determined by the timer programme.	
DAY	7/7, xx:xx	Comfort mode is forced until the time indicated or all the time (7/7).	Present time + 1 hour
NIGHT	7/7, xx:xx	Reduced mode is forced until the time indicated or all the time (7/7).	Present time + 1 hour
HOLIDAYS	7/7, 1 to 365	The antifreeze mode is active on all boiler circuits. Number of days' holiday: xx ⁽¹⁾ heating OFF: xx:xx ⁽¹⁾ Restarting: xx:xx ⁽¹⁾	Present date + 1 day
SUMMER		The heating is off. Domestic hot water continues to be produced.	

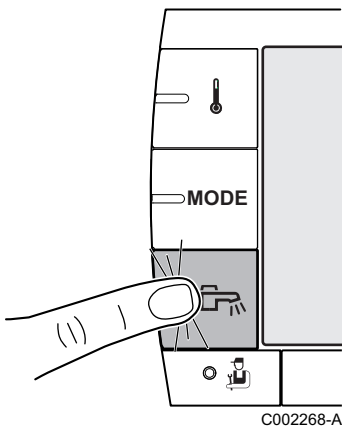
(1) The start and end days and the number of days are calculated in relation to each other.
 (2) The parameter is only displayed if a room sensor is connected.

Menu MODE			
Parameter	Adjustment range	Description	Factory setting
COLD		Cooling mode is forced.	
MANUEL		The generator operates according to the set point setting. All of the pumps operate. Option of setting the set point by simply turning the rotary button.	
FORCE AUTO ⁽²⁾	ON / OFF	An operating mode override is activated on the remote control (option). To force all circuits to run on AUTOMATIQUE mode, select ON .	

(1) The start and end days and the number of days are calculated in relation to each other.
 (2) The parameter is only displayed if a room sensor is connected.

4.3.3. Forcing domestic hot water production

To force domestic hot water production, proceed as follows:



C002268-A

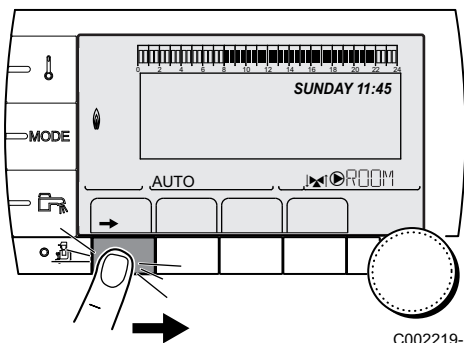
1. Press the **ESC** key.
2. To select the desired parameter, turn the rotary button.
3. To modify the parameter, press the rotary button.
To go back to the previous display, press the key **←**.
4. To modify the parameter, turn the rotary button.
5. To confirm, press the rotary button.



To cancel, press key **ESC**.

Menu ESC		
Parameter	Description	Factory setting
AUTOMATIQUE	The domestic hot water comfort ranges are determined by the timer programme.	
COMFORT	Domestic hot water comfort mode is forced until the time indicated or all the time (7/7).	Present time + 1 hour

4.3.4. Setting the contrast and lighting on the display



C002219-D-04

1. To access user level: Press the **→** key.
2. Select the menu **#SETTING**.



- ▶ Turn the rotary button to scroll through the menus or modify a value.
- ▶ Press the rotary button to access the selected menu or confirm a value modification.

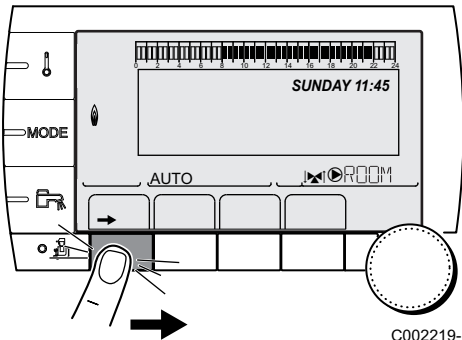


For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 13.

3. Set the following parameters:

User level - Menu #SETTING				
Parameter	Adjustment range	Description	Factory setting	Customer setting
CONTRAST DISP.		Adjusting the display contrast.		
BACK LIGHT	COMFORT	The screen is illuminated continuously in daytime periods.	ECO	
	ECO	The screen is illuminated for 2 minutes whenever pressed.		

4.3.5. Setting the time and date



C002219-D-04

1. To access user level: Press the → key.
2. Select the menu #TIME .DAY.



- ▶ Turn the rotary button to scroll through the menus or modify a value.
- ▶ Press the rotary button to access the selected menu or confirm a value modification.

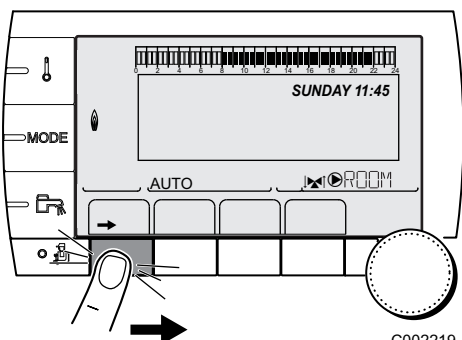
For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 13.

3. Set the following parameters:

User level - Menu #TIME .DAY (1)				
Parameter	Adjustment range	Description	Factory setting	Customer setting
HOURS	0 to 23	Hours setting		
MINUTE	0 to 59	Minutes setting		
DAY	Monday to Sunday	Setting the day of the week		
DATE	1 to 31	Day setting		
MONTH	January to December	Month setting		
YEAR	2008 to 2099	Year setting		
SUM.TIME	AUTO	automatic switch to summer time on the last Sunday in March and back to winter time on the last Sunday in October.	AUTO	
	MANU	for countries where the time change is done on other dates or is not in use.		

(1) According to the configuration

4.3.6. Selecting a timer programme



C002219-D-04

1. To access user level: Press the → key.
2. Select the menu #CHOICE TIME PROG..



- ▶ Turn the rotary button to scroll through the menus or modify a value.
- ▶ Press the rotary button to access the selected menu or confirm a value modification.

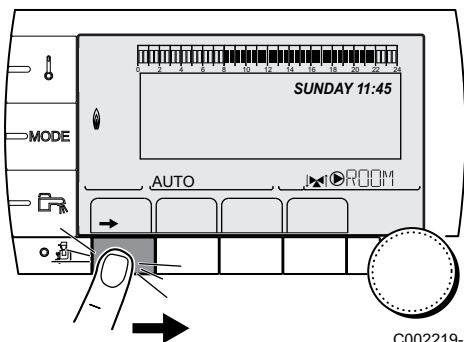
For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 13.

3. To select the desired parameter.

- Assign the desired timer programme (P1 to P4) to the circuit with the rotary button.

User level - Menu #CHOICE TIME PROG.		
Parameter	Adjustment range	Description
CURRENT PROG.A	P1 / P2 / P3 / P4	Comfort programme activated (Circuit A)
CURRENT PROG.B	P1 / P2 / P3 / P4	Comfort programme activated (Circuit B)
CURRENT PROG.C	P1 / P2 / P3 / P4	Comfort programme activated (Circuit C)

4.3.7. Customising a timer programme



C002219-D-04

- To access user level: Press the → key.
- Select the menu #TIME PROGRAM.



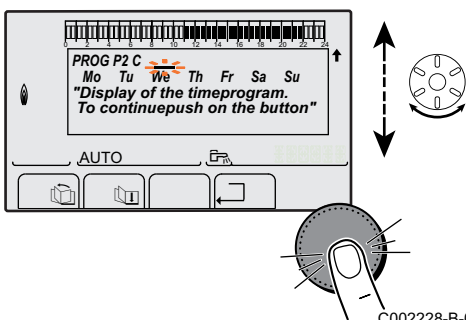
- Turn the rotary button to scroll through the menus or modify a value.
- Press the rotary button to access the selected menu or confirm a value modification.

For a detailed explanation of menu browsing, refer to the chapter: "Browsing in the menus", page 13.

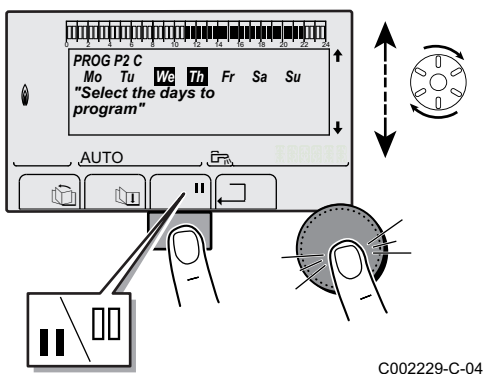
- To select the desired parameter.

User level - Menu #TIME PROGRAM		
Parameter	Time schedule	Description
TIME PROG.A	PROG P2 A PROG P3 A PROG P4 A	Timer programme for circuit A
TIME PROG.B	PROG P2 B PROG P3 B PROG P4 B	Timer programme for circuit B
TIME PROG.C	PROG P2 C PROG P3 C PROG P4 C	Timer programme for circuit C
TIME PROG.DHW		DHW circuit timer programme
TIME PROG.AUX		Auxiliary circuit timer programme
EVU TIMER PROG.		EVU power cut off timer program

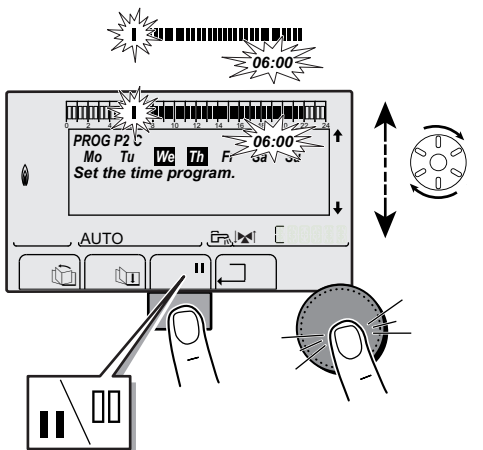
- To select a timer programme to be modified.
- To select to days for which the timer programme is to be modified:**
Turn the rotary button to the left until you reach the day desired. To confirm, press the rotary button.



C002228-B-04



C002229-C-04



C002230-E-04

6. **||**: Day selection

Press key **||** / **||** until the symbol **||** is displayed.
Turn the rotary button to the right to select the day(s) desired.

||: Cancelling the day selection

Press key **||** / **||** until the symbol **||** is displayed.
Turn the rotary button to the right to cancel selection of the relevant day(s).

7. When the days desired for the programme have been selected, press the rotary button to confirm.

8. **To define the timer ranges for the comfort mode and reduced mode:**

Turn the rotary button to the left until **0:00** is displayed. The first segment of the graphic bar for the timer programme flashes.

9. **||**: Comfort mode selection

Press key **||** / **||** until the symbol **||** is displayed.
To select a comfort time range, turn the rotary button to the right.

||: Reduced mode selection

Press key **||** / **||** until the symbol **||** is displayed.
To select a reduced time range, turn the rotary button to the right.


10. When the times for the comfort mode have been selected, press the rotary button to confirm.

User level - Menu #TIME PROGRAM					
	Day	Comfort periods / Filling enabled:			
		P1	P2	P3	P4
TIME PROG.A	Monday	6:00 to 22:00			
	Tuesday	6:00 to 22:00			
	Wednesday	6:00 to 22:00			
	Thursday	6:00 to 22:00			
	Friday	6:00 to 22:00			
	Saturday	6:00 to 22:00			
	Sunday	6:00 to 22:00			
TIME PROG.B	Monday	6:00 to 22:00			
	Tuesday	6:00 to 22:00			
	Wednesday	6:00 to 22:00			
	Thursday	6:00 to 22:00			
	Friday	6:00 to 22:00			
	Saturday	6:00 to 22:00			
	Sunday	6:00 to 22:00			
TIME PROG.C	Monday	6:00 to 22:00			
	Tuesday	6:00 to 22:00			
	Wednesday	6:00 to 22:00			
	Thursday	6:00 to 22:00			
	Friday	6:00 to 22:00			
	Saturday	6:00 to 22:00			
	Sunday	6:00 to 22:00			

User level - Menu #TIME PROGRAM					
	Day	Comfort periods / Filling enabled:			
		P1 _____	P2 _____	P3 _____	P4 _____
TIME PROG.DHW	Monday				
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
	Saturday				
	Sunday				
TIME PROG.AUX	Monday				
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
	Saturday				
	Sunday				
EVU TIMER PROG.	Monday				
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
	Saturday				
	Sunday				

4.4 Installation shutdown

If the central heating system is not used for a long period, we recommend switching the appliance off.


- ▶ To stop the inside module, use the  ON/OFF switch and cut the power supply to the home's junction box.
- ▶ To shut down the outside module, switch off the power supply on the junction box inside the house.



CAUTION

Antifreeze protection is no longer guaranteed automatically if the mains supply is switched off.

4.5 Turning on the antifreeze function

Put the heat pump into **HOLIDAYS** mode.  See chapter: "Selecting the operating mode", page 18

5 Troubleshooting

5.1 Anti-hunting

When the heat pump is in "anti-short cycle" operating mode, the symbol "?" flashes. This is a normal operating mode. When the restart temperature is reached, operation will be guaranteed.

1. Press the "?" key.
The message **Operation assured when the restart temperature will be reached** is displayed. When the restart temperature is reached, operation will be guaranteed.



This message is not an error message but an item of information.

5.2 Messages

In the case of failure, the control panel displays a message and a corresponding code.

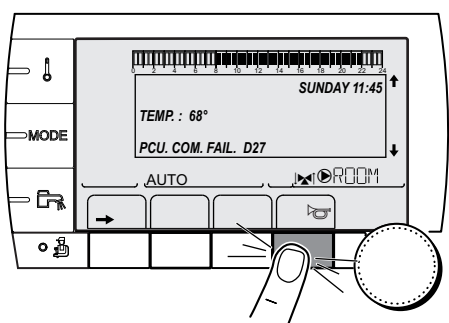
1. Make a note of the code displayed.
The code is important for the correct and rapid diagnosis of the type of failure and for any technical assistance that may be needed.
2. Switch off heat pump and start up again.
The heat pump starts up again autonomously when the cause of the failure has been lifted.
3. If the code is displayed again, correct the problem by following the instructions in the table below:

Code	Messages	Description	Checking / solution
B00	BL.PSU ERROR	The PSU PCB is incorrectly configured	Parameter error on the PSU PCB ▶ Contact the professional who takes care of maintenance of the appliance
B02	BL.FLOW S.	The MIT flow sensor is short circuited or on an open circuit.	Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B08	BL.SC.IN.OPEN	The BL inlet on the PCU PCB terminal block is open. No antifreeze protection.	The contact connected to the BL inlet is open. ▶ Contact the professional who takes care of maintenance of the appliance.
			Parameter error. ▶ Contact the professional who takes care of maintenance of the appliance.
			Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.

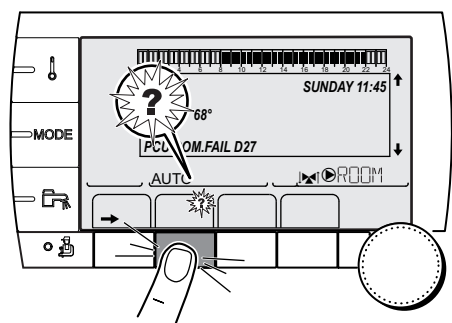
Code	Messages	Description	Checking / solution
B09	BL.SC.IN.OPEN	The BL inlet on the PCU PCB terminal block is open. Antifreeze protection.	The contact connected to the BL inlet is open. ▶ Contact the professional who takes care of maintenance of the appliance.
			Parameter error. ▶ Contact the professional who takes care of maintenance of the appliance.
			Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B10	BL.GROUP.EXT.	Failure outside unit.	▶ Contact the professional who takes care of maintenance of the appliance.
B11	BL.COM SCU	Communication error with the SCU PCB.	▶ Contact the professional who takes care of maintenance of the appliance.
B12	BL.WATER MIS.	The water pressure is lower than 0,5 bar	Not enough water in the circuit. ▶ Top up the installation with water.
B13	BL.DHW. S.	The DHW tank sensor is disconnected or short circuited	Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B14	BL.OUTSIDE.S	The outside temperature sensor is disconnected or short circuited.	Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B17	BL.BAD PSU	The parameters saved on the PCU PCB are impaired.	Parameter error on the PCU PCB. ▶ Contact the professional who takes care of maintenance of the appliance.
B18	BL.BAD PSU	The PSU PCB is not recognised	Wrong PSU PCB for this heat pump. ▶ Contact the professional who takes care of maintenance of the appliance.
B19	BL.NO CONFIG	The inside module has not been configured.	The PSU PCB has been changed. ▶ Contact the professional who takes care of maintenance of the appliance.
B39	BL.FLOW	Low flow rate.	▶ Contact the professional who takes care of maintenance of the appliance.
B40	BL.FLOW.STOP	Flow rate fault.	▶ Contact the professional who takes care of maintenance of the appliance.
B41	BL.COM.CPT.kWh	Communication error with the energy meter option PCB.	Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B50	BL.S.DEP.CPT.kWh	Energy meter flow sensor error.	Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B51	BL.S.RET.CPT.kWh	Energy meter return sensor error.	Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B52	BL.CPT.kWh.ELEC1	Electical meter ELEC 1 error.	Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B53	BL.CPT.kWh.ELEC2	Electical meter ELEC 2 error.	Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B54	BL.CPT.kWh.THERM	Thermal meter error.	Bad connection. ▶ Contact the professional who takes care of maintenance of the appliance.
B55	BL.FLOW	Low flow rate.	▶ Contact the professional who takes care of maintenance of the appliance.

Code	Messages	Description	Checking / solution
M04	REVISION	A service is required.	The date programmed for the service has been reached. ▶ Service the heat pump. ▶ To clear the inspection, programme another date in the menu #REVISION or set the parameter REVISION TYPE to OFF.
	FL.DRY.B XX DAYS FL.DRY.C XX DAYS FL.DRY.B+C XX DAYS	Floor drying is active. XX DAYS = Number of days' floor drying remaining.	Floor drying is underway. Heating on the circuits not concerned is shut down. ▶ Wait for the number of days shown to change to 0. ▶ Set the parameter SCREED DRYING to OFF.
M23	CHANGE OUTSI.S	The outside temperature sensor is defective.	Change the outside radio temperature sensor.


5.3 Faults (Code type Lxx or Dxx)





C002604-B-04



C002302-D-04

1. Make a note of the code displayed.
The code is important for the correct and rapid diagnosis of the type of failure and for any technical assistance that may be needed.
2. Press the  key. If the code is displayed again, switch off the boiler and then switch it back on.
3. Press the ? key. Follow the instructions displayed to solve the problem.
4. Consult the meaning of the codes in the table below:

Code	Faults	Cause of the fault	Description	Checking / solution
D03 D04	OUTL S.B FAIL. OUTL S.C FAIL.	SCU	Circuit B flow sensor fault Circuit C flow sensor fault Remarks: The circuit pump is running. The 3-way valve motor on the circuit is no longer powered and can be adjusted manually.	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance
D05	OUTSI.S.FAIL.	SCU	Outside temperature sensor fault Remarks: The set point is equal to the MAX MIT parameter. The valve setting is no longer ensured but monitoring the maximum temperature of the circuit after the valve is ensured. Valves may be manually operated. Reheating the domestic hot water remains ensured.	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance
D07	SYST.SENS.FAIL.	SCU	System sensor fault	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance
D09	DHW S.FAILURE	SCU	Domestic hot water sensor fault Remarks: Heating of domestic hot water is no longer ensured. The load pump operates. The tank load temperature is equal to the temperature of the inside module.	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance
D11 D12 D13	ROOM S.A FAIL. ROOM S.B FAIL. ROOM S.C FAIL.	SCU	A room temperature sensor fault B room temperature sensor fault C room temperature sensor fault Note: The circuit concerned operates without any influence from the room sensor.	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance
D14	MC COM.FAIL	SCU	Break in communication between the SCU PCB and the radio module	Bad connection ▶ Check the link and the connectors Boiler module failure ▶ Change the boiler module
D15	ST.TANK S.FAIL	SCU	Storage tank sensor fault Note: The hot water storage tank reheating operation is no longer assured.	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance
D16 D16	SWIM.B S.FAIL SWIM.C S.FAIL	SCU	Swimming pool sensor fault circuit B Swimming pool sensor fault circuit C Note: Swimming pool reheating is always done during the circuit's comfort period.	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance
D17	DHW 2 S.FAIL	SCU	Sensor fault tank 2	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance
D18	ST.TANK S.FAIL	SCU	Solar tank sensor fault	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance

Code	Faults	Cause of the fault	Description	Checking / solution
D19	SOL.COL.S.FAIL	SCU	Header sensor fault	Bad connection Sensor fault ▶ Contact the professional who takes care of maintenance of the appliance
D20	SOL.COM.FAIL	SCU	Interruption in communication between the SCU PCB and the solar control system ▶ Contact the professional who takes care of maintenance of the appliance	
D27	PCU.COM.FAIL	SCU	Communication failure between the SCU and PCU PCBs ▶ Contact the professional who takes care of maintenance of the appliance	
D32	5 RESET:ON/OFF	SCU	5 resets done in less than an hour ▶ Switch off heat pump and start up again	
D37	TA-S SHORT-CIR	SCU	The Titan Active System® is short-circuited ▶ Check that the connection cable between the SCU PCB and the anode is not short-circuited ▶ Check that the anode is not short-circuited Remarks: Domestic hot water production has stopped but can nonetheless be restarted using key  . The tank is no longer protected. If a tank without Titan Active System® is connected to the heat pump, check that the TAS simulation connector (delivered in package AD212) is fitted to the sensor board.	
D38	TA-S DISCONN	SCU	The Titan Active System® is on an open circuit ▶ Check that the connection cable between the SCU PCB and the anode is not severed ▶ Check that the anode is not broken Remarks: Domestic hot water production has stopped but can nonetheless be restarted using key  . The tank is no longer protected. If a tank without Titan Active System® is connected to the heat pump, check that the TAS simulation connector (delivered in package AD212) is fitted to the sensor board.	
D99	DEF.BAD PCU	SCU	The SCU software version does not recognise the PCU connected ▶ Contact the professional who takes care of maintenance of the appliance	
L33	FAIL.FLOW		The flow rate is lower than the threshold defined by the MIN.STOP.FLOW parameter ▶ Contact the professional who takes care of maintenance of the appliance	

6 Technical specifications

6.1 Technical specifications

6.1.1. Electricity supply

230 V AC (+/- 10%) - 50 Hz

400 V AC (+ 6%, - 10%) - 50 Hz (depending on the model)

6.1.2. Heat pump

Conditions of use:

- ▶ Limit operating temperatures in Hot mode:
 - Water: +18 °C / +60 °C
 - Outside air:
 - 15 °C / +35 °C (4, 6 kW)
 - 20 °C / +35 °C (8, 11, 16, 22, 27 kW)
- ▶ Limit operating temperatures in Cooling mode:
 - Water: +7 °C / +25 °C
 - Outside air: +15 °C / +40 °C (At less than 18°C, it is necessary to use the HK24 insulation kit option)
- ▶ Maximum operating pressure: 3 bar

■ Performances in hot mode with outside air temperature at +7°C and outlet water temperature at +35°C (in accordance with EN 14511–2)

AWHP		4 MR	6 MR -2	8 MR-2	11 MR-2	11 TR-2	16 MR-2	16 TR-2	22 TR	27 TR
Calorific output - A7/W35	kW	3.72	5.87	8.26	10.56	10.56	14.19	14.19	19.4	24.4
COP hot - A7/W35		4.30	4.18	4.27	4.30	4.30	4.22	4.22	3.94	3.90
Absorbed electrical power - A7/W35	kWe	0.87	1.41	1.93	2.46	2.46	3.36	3.36	4.92	6.25
Nominal amperage - A7/W35	A	4.11	6.57	8.99	11.81	11.81	16.17	16.17	7.75	9.86

■ **Performances in hot mode with outside air temperature at +2°C and outlet water temperature at +35°C (in accordance with EN 14511-2)**

AWHP		4 MR	6 MR -2	8 MR-2	11 MR-2	11 TR-2	16 MR-2	16 TR-2	22 TR	27 TR
Calorific output - A2/W35	kW	3.76	3.87	5.93	10.19	10.19	11.38	11.38	12.10	14.70
COP hot - A2/W35		3.32	3.26	3.20	3.20	3.20	3.27	3.27	3.10	3.10
Absorbed electrical power - A2/W35	kWe	1.13	1.19	1.85	3.19	3.19	3.48	3.48	3.91	4.70
Nominal amperage - A2/W35	A	6.1	6.1	8.2	10.7	6.2	14.6	8.4	9.7	11.8

■ **Performances in cold mode with outside air temperature at +35°C and outlet water temperature at +18°C (in accordance with EN 14511-2)**

AWHP		4 MR	6 MR -2	8 MR-2	11 MR-2	11 TR-2	16 MR-2	16 TR-2	22 TR	27 TR
Cooling output	kW	3.84	4.69	7.90	11.16	11.16	14.46	14.46	17.65	22.2
EER		3.80	3.80	3.99	4.68	4.68	4.43	4.43	3.8	3.8
Absorbed electrical power	kWe	0.72	1.15	2.0	2.35	2.35	3.65	3.65	4.65	5.84

■ **General values**

AWHP		4 MR	6 MR -2	8 MR-2	11 MR-2	11 TR-2	16 MR-2	16 TR-2	22 TR	27 TR
Sound pressure ⁽¹⁾	dB(A)	41.7	41.7	43.2	43.4	43.4	47.4	47.4	51.8	53
Nominal water flow (ΔT = 5K)	m ³ /h	1.04	1.04	1.47	1.88	1.88	2.67	2.67	3.8	4.6
Manometric height available at nominal flow rate	mbar	618	618	493	393	393	213	213	-	-
Nominal air flow rate	m ³ /h	2100	2100	3000	6000	6000	6000	6000	8400	8400
Power voltage of the outdoor unit	V	230 V~	230 V~	230 V~	230 V~	400 V3~	230 V~	400 V3~	400 V3~	400 V3~
Sound output ⁽²⁾	dB(A)	63.7	63.7	65.2	65.4	65.4	69.4	69.4	73.8	75
R410A refrigerant	kg	2.1	2.1	3.2	4.6	4.6	4.6	4.6	7.1	7.7
refrigerant piping connection (Liquid-Gas)	inch	1/4-1/2	1/4-1/2	3/8-5/8	3/8-5/8	3/8-5/8	3/8-5/8	3/8-5/8	3/8-3/4 or 3/8-1	1/2-3/4 or 1/2-1
Max pre-loaded length	m	10	10	10	10	10	10	10	30	30
Weight (empty) - Outside unit	kg	42	42	75	118	118	130	130	135	141
(1) 5 m from the appliance, free field. (2) Test conducted in accordance with the standard NF EN 12102										

6.1.3. Sensor characteristics

Outside sensor												
Temperature in °C	-20	-16	-12	-8	-4	0	4	8	12	16	20	24
Resistance in Ω	2392	2088	1811	1562	1342	1149	984	842	720	616	528	454

DHW sensor Flow sensor											
Temperature in °C	0	10	20	25	30	40	50	60	70	80	90
Resistance in Ω	32014	19691	12474	10000	8080	5372	3661	2535	1794	1290	941

7 Energy savings

7.1 Energy savings

This chapter contains:

- ▶ Energy-saving advice
- ▶ Advice on setting the room thermostat correctly

7.1.1. Energy-saving advice

- ▶ Do not block ventilation outlets.
- ▶ Install reflective panels behind the radiators to prevent heat losses.
- ▶ Do not cover the radiators. Do not hang curtains in front of the radiators.
- ▶ Insulate the pipes in rooms that are not heated (cellars and lofts).
- ▶ Close the radiators in rooms not in use.
- ▶ Do not run hot (or cold) water pointlessly.
- ▶ Install a water-saving shower head to save up to 40 % energy.
- ▶ Take showers rather than baths. A bath consumes twice as much water and energy.

7.1.2. Room thermostat and settings

- ▶ A modulating thermostat, possibly in combination with thermostatic valve radiators, saves energy and offers considerable comfort. This combination allows you to set the temperature on each flow. In the room in which the room thermostat is installed, do not fit thermostatic valve radiators.
- ▶ Lower the thermostat to approximately 16°C at night or when you are absent. This reduces heating costs and energy consumption.
- ▶ Lower the room thermostat when you air the rooms.
- ▶ When setting an hourly programmable thermostat, keep in mind the days you are absent or on vacation.

7.2 Recommendations

The remote control is available in the following versions:

- ▶ Wire
- ▶ Radio

The setting of the control panel and/or of the remote control has a considerable influence on energy consumption.

A few tips:

- ▶ In the room in which the room thermostat is installed, it's advised not to use thermostatic valve radiators. If a thermostatic valve is used the valve must be fully opened.
- ▶ Completely closing and opening thermostatic valve radiators causes undesirable temperature fluctuations. Open and close thermostatic valves in small steps.
- ▶ Lower the temperature to around 20°C. This reduces heating costs and energy consumption.
- ▶ Lower the temperature when you air the rooms.
- ▶ When setting a time schedule , bear days when you are absent and holidays in mind.

8 Warranty

8.1 General

You have just purchased one of our appliances and we thank you for the trust you have placed in our products.

Please note that your appliance will provide good service for a longer period of time if it is regularly checked and maintained.

Your installer and our customer support network are at your disposal at all times.

8.2 Warranty terms

The following provisions are not exclusive of the buyer being able benefit from the legal provisions applicable regarding hidden defects in the buyer's country.

Starting from the purchase date shown on the original installer's invoice, your appliance has a contractual guarantee against any manufacturing defect.

The length of the guarantee is mentioned in the price catalogue. The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified engineer).

In particular, the manufacturer shall not be held responsible for any damage, loss or injury caused by installations which do not comply with the following:

- ▶ applicable local laws and regulations,
- ▶ specific requirements relating to the installation, such as national and/or local regulations,
- ▶ the manufacturer's instructions, in particular those relating to the regular maintenance of the unit,
- ▶ the rules of the profession.

The warranty is limited to the exchange or repair of such parts as have been recognised to be faulty by our technical department and does not cover labour, travel and carriage costs.

The warranty shall not apply to the replacement or repair of parts damaged by normal wear and tear, negligence, repairs by unqualified parties, faulty or insufficient monitoring and maintenance, faulty power supply or the use of unsuitable fuel.

Sub-assemblies such as motors, pumps, electric valves etc. are guaranteed only if they have never been dismantled.

The legislation laid down by european directive 99/44/EEC, transposed by legislative decree No. 24 of 2 February 2002 published in O.J. No. 57 of 8 March 2002, continues to apply.

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