

Edel AIR

Air source Heat Pump Water Heater for outdoor air or non-heated ambient air

**Edel Air 200
and 270 liters**

User instruction manual

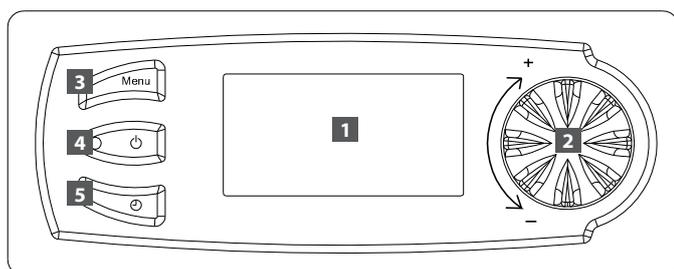
The domestic hot water heater mainly operates using the integrated heat pump, as long as the air intake is within the -7°C to 35°C temperature range.

A 1.5kW electrical backup function ensures comfort at all times, and particularly in the following cases:

- air taken in outside the operating range.
- minimum comfort function: when this function is activated, both means of heating (heat pump and electrical backup) operate at the same time to ensure that the water temperature remains above 38°C.
- "Boost" function: when this function is activated, both means of heating (heat pump and electrical backup) operate at the same time to reach the desired temperature quickly.

Depending on how many people are using the water and to optimise savings, we would advise you not to set the default temperature too high (for example at 50°C).

1 - Control box



- 1 Display screen
- 2 Dial
- 3 Menu
- 4 On/off
- 5 Time setting

Pictograms:

- | | |
|-----------------------------------|--|
| Compressor activated | Domestic hot water request |
| Fan activated | Economy mode activated |
| De-icing in progress | Freeze protection mode activated |
| Electrical backup activated | Holiday mode activated |

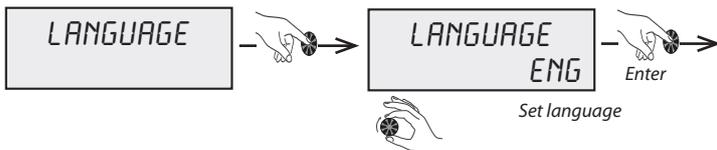
**Made
in France**



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Edition n°: 15.342

2 - Setting the language

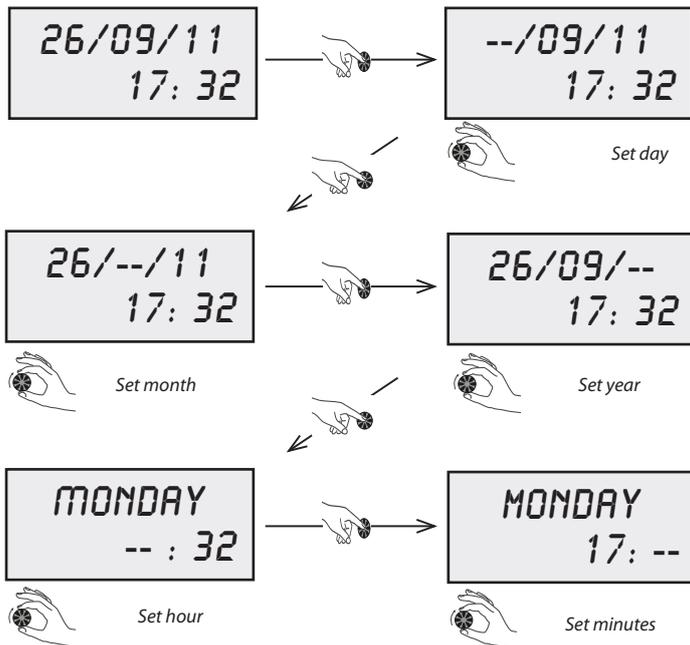
- Press:  .
- Turn the dial to scroll through the menu options :



- Press  to return to main screen.

3 - Setting the time

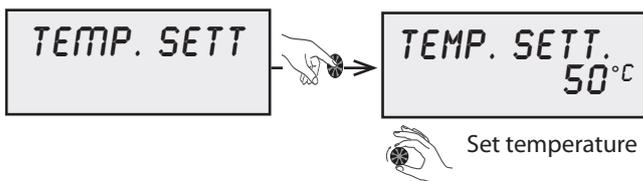
- Press “Clock settings” 



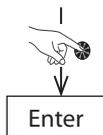
4 - Setting the water temperature

The water temperature can be adjusted between 30°C and 65°C. The heat pump alone heats the water up to 60°C. Beyond this temperature, the electrical backup takes over.

- Press: 
- Turn the dial to scroll through the menu options:



- Press  to return to main screen



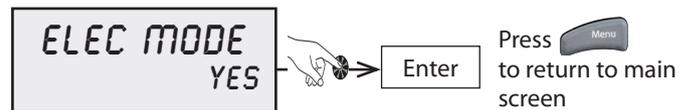
NB: In order to get the best from your heat pump, we recommend that you do not set the water temperature too high unless necessary. The default temperature is set at 55°C.

5 - Electric mode

(to operate with electrical backup)

Electric mode uses only the boiler to heat the water in the heat pump water heater. It provides a back-up option if for any reason the heat pump is not running (piping not yet connected, dusty renovation work being carried out near the appliance....).

- Press 
- Turn the dial to scroll through the menu options

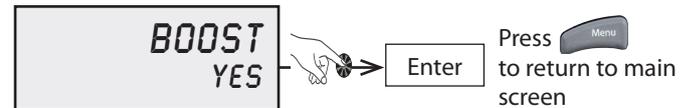


6 - BOOST function

(for occasional use and guaranteed comfort)

The “BOOST” function temporarily forces electrical backup and backup from the pump at the same time to speed up the rise in temperature during a heating cycle. The “electrical backup” symbol  flashes while it is activated.

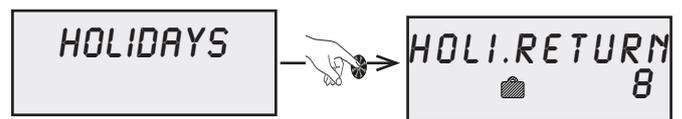
- Press 
- Turn the dial to scroll through the menu options:



The “BOOST” function is automatically deactivated as soon as the set temperature is reached (end of heating cycle).

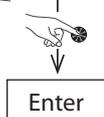
7 - Standby mode

“Holiday” mode puts the appliance on standby whilst the freeze protection mode remains active. This function can be programmed to run between 1 and 99 days and is effective as soon as the number of days has been confirmed.



Set number of days in standby mode

- Press  to return to main screen



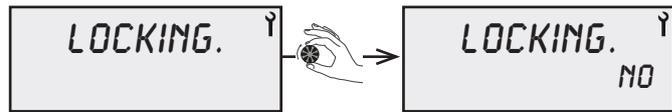
“Holiday” mode switches off automatically at the same time when the number of days set has ended. Throughout the holiday period, the heat pump water heater shows “RETURN” on the display screen, as well as a countdown of the days.

8 - Locking the keyboard

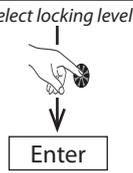
Permanent and automatic locking

The "locking" option enables you to create three possible levels of locking for accessing the menus.

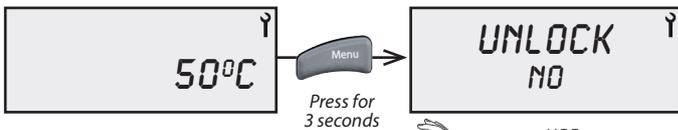
In the "Installer" menu, turn the dial to "LOCKING"



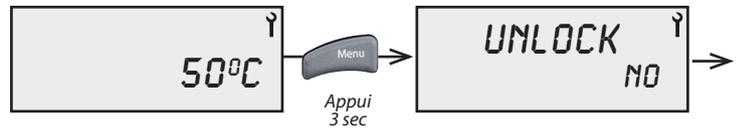
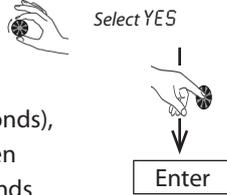
NO = Locking is not activated, but manual locking is possible by pressing  for 3 seconds



AUTO = To lock menu access with temporary unlocking (60 sec), press  for 3 seconds



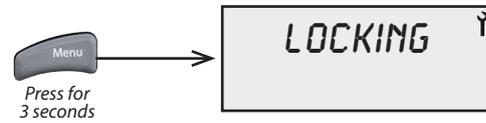
PRO = To lock access to menus with temporary unlocking (300 seconds), press  for 3 seconds then  and  for 3 seconds



NB: • When locking is activated, it is only possible to access unlocking and reset the alarm.

Manual locking from the main screen

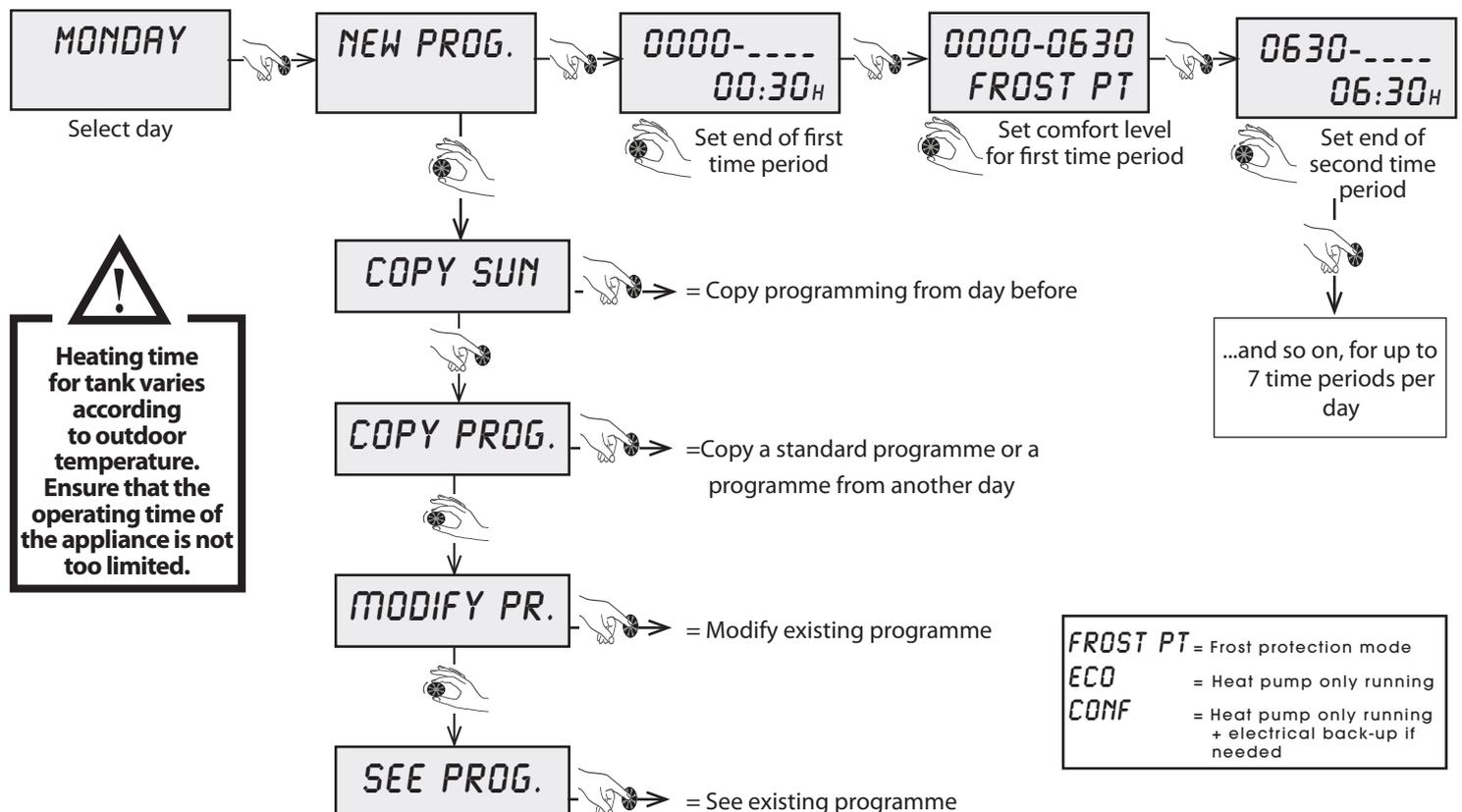
Without gaining access through the "Installer" menu and provided that locking settings are not already in place.



To lock manually, press  for 3 seconds.

9 - Programming

• Press "Clock settings"  and hold down for 3 seconds



10 - Troubleshooting: errors, solutions and operating in case of error

N.B: Errors can be seen by briefly pressing the dial

Display	Error	Probable causes	Solutions	Temporary operation measures
MEMO/BUS	<ul style="list-style-type: none"> PCB defect Bus wire not correctly connected to display screen Display screen defect 	<ul style="list-style-type: none"> Voltage too high on electrical network Wiring error (connection to electricity provider or moisture sensor) Damage during transport 	<ul style="list-style-type: none"> Replace main PCB or Replace display screen PCB 	<ul style="list-style-type: none"> Appliance non-functional
T_AIR	<ul style="list-style-type: none"> Air temperature sensor defect (air taken in) 	<ul style="list-style-type: none"> Sensor not functioning Sensor unplugged from PCB Sensor cable damaged 	<ul style="list-style-type: none"> Replace sensor 	<ul style="list-style-type: none"> Heat pump non-functional Electrical back-up heats water to 43°C (38°C min.)
T_DEFROST	<ul style="list-style-type: none"> Evaporator sensor defect (de-icing temperature) 	<ul style="list-style-type: none"> Sensor not functioning Sensor unplugged from PCB Sensor cable damaged 	<ul style="list-style-type: none"> Replace sensor 	<ul style="list-style-type: none"> Heat pump non-functional Electrical back-up heats water to 43°C (38°C min.)
T_WATER	<ul style="list-style-type: none"> Tank water sensor defect 	<ul style="list-style-type: none"> Sensor not functioning Sensor unplugged from PCB Sensor cable damaged 	<ul style="list-style-type: none"> Replace sensor 	<ul style="list-style-type: none"> Appliance non-functional
CLOCK	<ul style="list-style-type: none"> Clock / timer defect 	<ul style="list-style-type: none"> Voltage too high on electrical network Damage during transport 	<ul style="list-style-type: none"> 1-Press 'clock settings' and set date and time 2- If the error is still there: Replace the PCB 	<ul style="list-style-type: none"> Programmed heating periods are no longer valid: the water is maintained continuously at the standard set temperature (if no signal or control is connected to the 'external control' switch).
OVER PRESS.	<ul style="list-style-type: none"> Heat pump pressure too high 	<ul style="list-style-type: none"> No water in tank Water too hot (>75°C) Water sensor removed from tank Water sensor defect 	<ul style="list-style-type: none"> Check that tank has been properly purged and filled with water Change water sensor Check that the DHW* sensor is correctly positioned in the thimble 	<ul style="list-style-type: none"> Heat pump non functional Automatic reset Authorised to run on back-up
FREQ. DEFRO	<ul style="list-style-type: none"> De-icing too often 	<ul style="list-style-type: none"> Insufficient airflow Air inlet / outlet blocked Air vent duct blocked Pipe too long or too many elbows Evaporator clogged 	<ul style="list-style-type: none"> Set the fan to max speed (capicitor shunted) Check that air is circulating properly throughout the piping circuit Check pipe lengths: <ul style="list-style-type: none"> -10m max. flexible hose -20m max. rigid pipes Check any filters on air ducts Check that evaporator is clean 	<ul style="list-style-type: none"> Heat pump non-functional Electrical back-up heats water to 43°C (38°C min.)
LOW PRES.	<ul style="list-style-type: none"> Heat pump pressure too low 	<ul style="list-style-type: none"> Insufficient airflow Air inlet / outlet blocked Air vent duct blocked Ventilateur bloqué ou HS Evaporator clogged or blocked Evaporator iced over 	<ul style="list-style-type: none"> Check fan is running Check that air is circulating properly throughout the piping circuit Check pipe lengths: <ul style="list-style-type: none"> -10m max. flexible hose -20m max. rigid pipes Check any filters on air ducts Check that evaporator is clean 	<ul style="list-style-type: none"> Heat pump non-functional Electrical back-up heats water to 43°C (38°C min.)
OVERHEAT.	<ul style="list-style-type: none"> Domestic hot water over-heated (water temperature >85°C) 	<ul style="list-style-type: none"> Water sensor defect Water sensor removed from tank 	<ul style="list-style-type: none"> Check that the sensor is correctly positioned in the tank 	<ul style="list-style-type: none"> Heat pump non functional Automatic reset
ERR01	<ul style="list-style-type: none"> Incorrect readings from temperature sensors 	<ul style="list-style-type: none"> Air temperature sensor and de-icing sensor inverted on PCB De-icing sensor and water temperature sensor inverted on PCB De-icing sensor connected to air, air sensor connected to water, water sensor connected to de-icing 	<ul style="list-style-type: none"> Reposition the temperature sensors correctly on the main PCB 	<ul style="list-style-type: none"> Heat pump non-functional
	<ul style="list-style-type: none"> Incorrect reading from de-icing sensor 	<ul style="list-style-type: none"> The de-icing sensor is positioned incorrectly on the pipe and taking readings from the air 	<ul style="list-style-type: none"> Reposition de-icing sensor to be in contact with the pipe 	
	<ul style="list-style-type: none"> No gas left in heat pump 	<ul style="list-style-type: none"> Leak on refrigerant circuit 	<ul style="list-style-type: none"> Find and repair the leak before refilling refrigerant circuit 	
	<ul style="list-style-type: none"> Expansion vessel not functioning 	<ul style="list-style-type: none"> Thermal bulb is broken due to intervention or being placed near a vibrating part of the installation 	<ul style="list-style-type: none"> Replace expansion vessel 	
	<ul style="list-style-type: none"> Compressor not functioning and temperature safety alert activated 	<ul style="list-style-type: none"> Compressor too weak 	<ul style="list-style-type: none"> Replace compressor 	
ERR02	<ul style="list-style-type: none"> Incorrect readings from temperature sensors 	<ul style="list-style-type: none"> Air sensor and water sensor are inverted on the PCB De-icing sensor is connected to water, air sensor is connected to de-icing 	<ul style="list-style-type: none"> Reposition the temperature sensors correctly on the main PCB 	<ul style="list-style-type: none"> Appliance non-functional
ERR03	<ul style="list-style-type: none"> Incorrect readings from temperature sensors 	<ul style="list-style-type: none"> De-icing sensor is connected to water, water sensor is connected to air, air sensor is connected to de-icing 	<ul style="list-style-type: none"> Reposition the temperature sensors correctly on the main PCB 	<ul style="list-style-type: none"> Appliance non-functional
ERR04	<ul style="list-style-type: none"> Incorrect readings from water and de-icing sensors 	<ul style="list-style-type: none"> De-icing sensor and water sensor are inverted on PCB 	<ul style="list-style-type: none"> Reposition the temperature sensors correctly on the main PCB 	<ul style="list-style-type: none"> Heat pump non-functional
EPRG ALARM	<ul style="list-style-type: none"> Memory problem on display screen PCB 	<ul style="list-style-type: none"> Display screen PCB damaged 	<ul style="list-style-type: none"> Replace the display screen PCB 	<ul style="list-style-type: none"> Appliance non-functional

*DHW = Domestic Hot Water