

1 Avvertenze generali

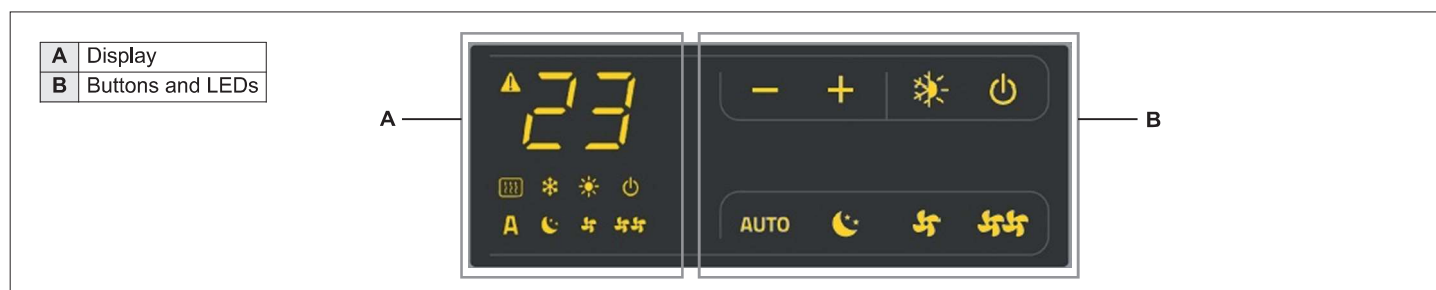
- ⚠ These instructions are an integral part of the booklet provided with the appliance that the kit is installed on. Refer to this booklet for the general warnings and the fundamental safety rules.
- ⚠ This manual is intended exclusively for qualified and authorised installers, who must be suitably trained and have the mental and physical aptitude required by law..
- ⚠ After having removed the packing, check that the contents are intact and complete. In the event of discrepancies, contact the service centre that sold the appliance.
- ⚠ Do not modify safety or control devices without authorisation and instructions from the manufacturer.
- ⚠ Do not dispose of packaging materials in the environment or leave them within reach of children as they may represent a hazard.
- ⚠ All repair or maintenance work must be carried out by the company's Technical Service or qualified personnel, following the instructions in this booklet. Do not modify or tamper with the appliance as this may create situations of danger; in such cases the manufacturer of the appliance is not liable for any damage caused.

1.1 On-board LCD electronic control panel with 4-speed operation

Based on the water temperature measured using the water temperature probe fitted on the coil, the controller starts the fan when the temperature is below 20° in cooling mode, and above 30° in heating mode.

⚠ These controllers cannot be installed on built-in units.

⚠ When the panel is not operated for more than 20 seconds, display brightness is dimmed to ensure comfort at night and the display the room temperature is displayed. Pressing any button restores maximum brightness.



1.2 Display

The display also shows the operating status and any alarms, using 8 specific symbols:

AUTO	Automatic operation selected
	Silent operation selected
	Maximum fan speed selected
	Night-time operation selected

	Heating active
	Cooling active
	Supervision active (flashing)
	Alarm signal (on steady together with the signal)

1.3 Function of the buttons

The various functions are set using 8 buttons:

+	Temp+ : increases the set temperature
-	Temp- : decreases the set temperature
	Heating / Cooling : switches operating mode between heating and cooling.
AUTO	Auto : enables completely automatic fan speed control, between a minimum value and a maximum value.

	Night-time operation : fan speed is set quite low and the temperature set point is adjusted automatically
	Max : sets maximum fan speed.
	ON/Stand-By : switches the appliance on or to stand-by.
	Silent : limits fan speed to a lower maximum value.




1.4 Switching on

To manage the fan coil using the control panel, this must be connected to the mains power supply.
If a main switch is installed on the power supply line, this must be





closed.
- Switch the system on at the main switch

1.5 Starting the appliance

To start the appliance

Button	Operation	Display
	Press the ON/Stand-By button	Switches on
	Select one of the 4 operating modes by pressing the corresponding button.	


1.6 Setting heating / cooling operating mode

Button	Operation	Display
	Press and hold the Heating / Cooling button for around 2 seconds to switch the operating mode between heating and cooling, as indicated by one of the 2 symbols, heating active or cooling active.	
	In heating mode, the symbol will be on when the room temperature is below the set point. It will be off when the room temperature is above the set point.	
	In cooling mode, the symbol will be on when the room temperature is above the set point. It will be off when the room temperature is below the set point.	

One of the two symbols flashing indicates that the water temperature measured by probe H2 has not reached the threshold (above 20°C in cooling mode and below 30°C in heating mode), causing the fan to stop until the temperature reaches a suitable value to satisfy the request.

If after having powered on the unit the board detects probe H2, normal operation commences, with the minimum and maximum temperature thresholds. The board also allows operation without probe H2, in which case the fan off thresholds are ignored.

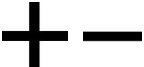

1.7 Stand-By / Switching off

Button	Operation	Display
	Press and hold the ON/Stand-By button for around 2 seconds. When no signals are shown on the display, the unit is in "standby" (no functions are active).	Off

In this operating mode, the controller guarantees greater frost protection.

If the temperature falls below 5°C, the hot water outlet solenoid valve and enable boiler outputs are activated.



1.8 Temperature setting

Button	Operation	Display
	Pressing these two buttons increases or decreases the desired temperature value (set point). The set value will be shown on the 3-digit display.	

The temperature can be set in the range from 16 to 28°C, with 0.5°C resolution, however off-scale values of 5°C and 40°C are also allowed. Only set these values for brief periods and then adjust the setting to an intermediate value.

The controller is very precise, simply set the desired value and wait for the controller to start operating based on the actual room temperature measured.

1.9 Fan speed setting

Button	Operation	Display
	<p>The four buttons are used select the operating modes corresponding to the fan speed (automatic, night, minimum and maximum). The corresponding symbol lights up on the display to indicate that the function has been activated.</p>	

In automatic mode, the fan operates in “steps” as the room temperature approaches the set point.

Night setting activates intense dehumidification in cooling mode, and radiant operation only (fan off, solenoid valve and in the DLRV version, micro-fans activated) in heating mode.

When setting maximum speed, maximum capacity is immediately made available, in both heating and cooling mode.



Once the set room temperature has been reached, select one of the other three operating modes for better thermal comfort and more silent operation.

1.10 Room temperature probe offset setting

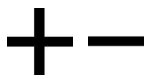

As the temperature probe is positioned at the bottom of the appliance, in certain cases the measurement may differ from the actual temperature.

This function is used to adjust the measured value shown on the display within a range of +/- 10°C, in 0.1° steps.

Use this setting with care, and only after having effectively measured deviations from the actual room temperature using a reliable instrument!

Button	Operation	Display
	<p>With the panel off, pressing and holding “SET-” for 5 seconds accesses the menu used to change (using “SET+” and “SET-”) the air temperature probe (AIR) offset shown on the display, from -10 to +10°K in 0.1°K steps. Twenty seconds after the last operation, the panel switches off and the setting is saved.</p>	

1.11 Lock keypad

Button	Operation	Display
	<p>Pressing the “Temp+” and “Temp-” buttons together for 3 seconds disables all the buttons on the control panel, as confirmed by the message “bL” on the display. The user cannot activate any of the functions, and when pressing any button the display shows “bL”. Press “Temp+” and “Temp-” again to unlock the buttons.</p>	




1.12 Switching off for extended periods

When shutting down at the end of the season or for holidays, proceed as follows:

- Switch the appliance off.




- Switch the main system switch OFF.

1.13 Error signals

Error	Display
Room temperature probe fault (AIR).	 E1
Fault on the probe that measures the water temperature on 2-pipe versions (H2), located on the main coil.	 E3
Fan motor faulty or not connected (for example, blocked by foreign objects, rotation sensor fault).	 E2
Safety microswitch S1 activated due to the filter cleaning operation.	• • • •

2 ATS2 on-board control panel assembly and connections

The ATS2 controller can be installed on the unit.

The touch buttons can be used to select the minimum speed , the maximum speed , and the night function . They can also be used to select Auto speed, which decreases or

increases fan speed as the temperature approaches the set point, until completely stopping the fan.

The controller features a 230V output for managing a solenoid valve.

2.1 Assembly

Fit the control panel in its housing at the top of the appliance, and fasten it using the two screws supplied (ref. A).

To install the connection box:

- open the box (ref. B);
- slide the bottom catch into the slot provided (ref. C) on the side of the appliance;
- attach the top of the box to the side of the appliance (ref. D);
- fasten it using the two screws supplied (ref. E);
- fasten the earth cable to the appliance's frame using the screw supplied (minimum tightening torque must be around 2N);
- plug the quick connector (MOTOR) from the motor into the connector on the board (ref. I) *;
- the 2 GRID terminals (rif. L) feature a jumper that guarantees operation for built-in versions without microswitch.

For built-in versions fitted in the structure, see the microswitch connection instructions in the instruction sheet for the i-LIFE2 SLIM BOX cover panel.

For all other versions, remove the bridge and connect the two terminals to the grill safety microswitch;

- connect the water temperature probe on the appliance to connector

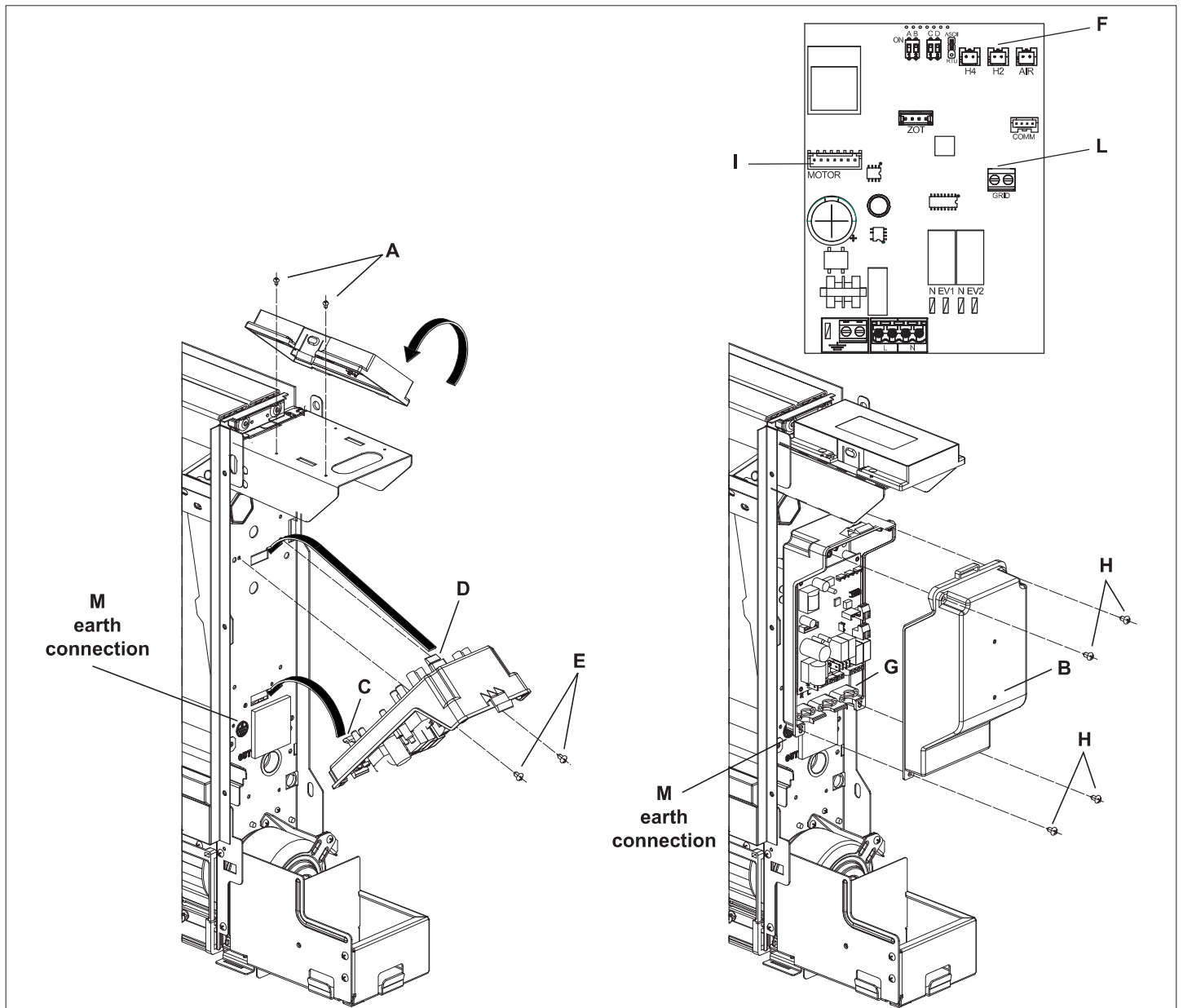
H2 (ref. F); the water temperature probe measures the temperature inside the coils and determines when the fan starts, based on the pre-set parameters (minimum heating and maximum cooling functions)*. Make sure the probe is correctly inserted in the socket on the coil.

- make the electrical connections, bundle the wires together and secure these in place using the 3 clamps provided (ref. G);
- close the box, tightening the 4 screws (ref. H);
- replace the decorative side cover on the appliance;
- tighten the top screw on the control panel;
- place the screw cover in position on the control panel;

* If after having powered on the unit the board detects probe H2, normal operation commences, with the minimum and maximum temperature threshold functions.

The board also allows operation without probe H2, in which case the fan off thresholds are ignored.

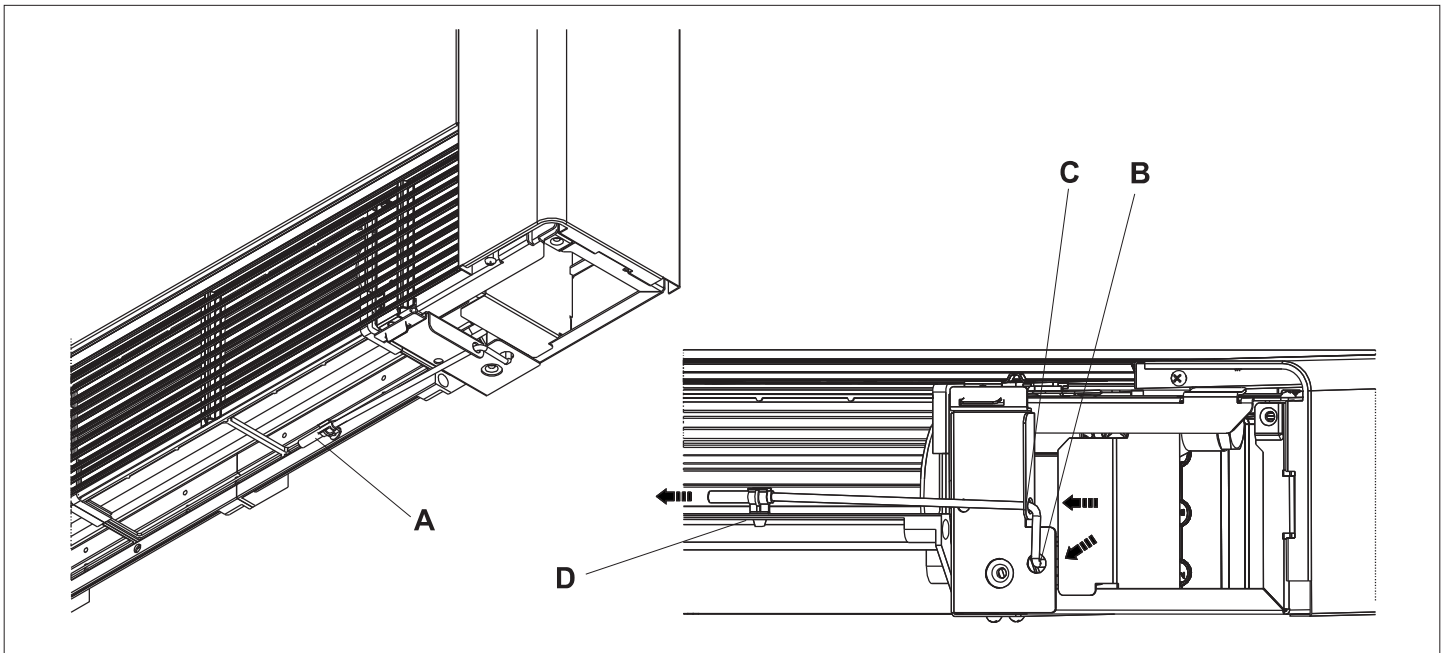
For versions with the water connections on the right-hand side, see the corresponding paragraph.



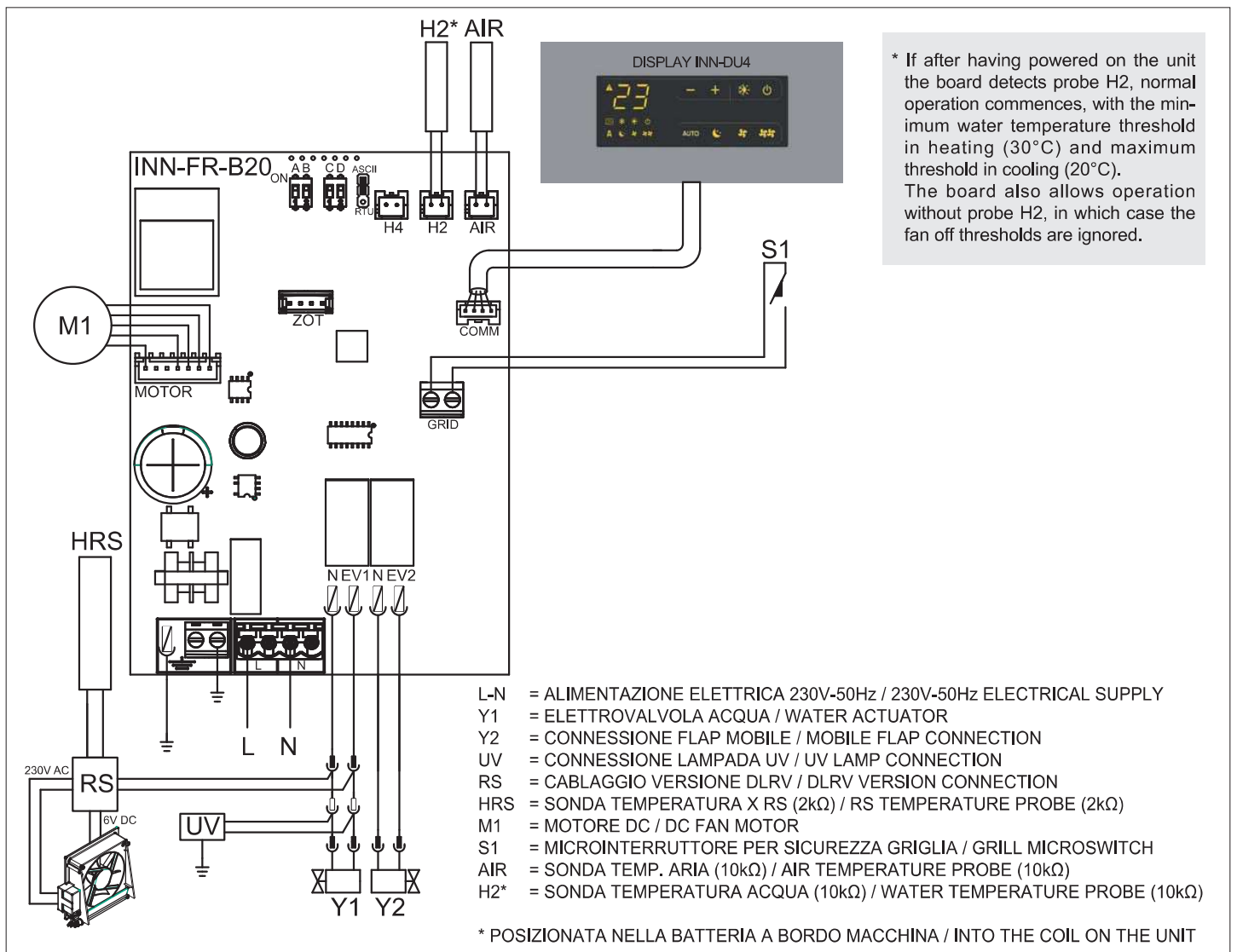
2.5 Air temperature probe assembly

To position the temperature probe (ref. A):
 - run the probe through the hole on the frame (ref. B)

- insert the probe into the hole at the bottom (ref. C)
 - secure the probe using the fastener provided (ref. D).



2.6 Connection wiring diagram



2.7 Connections on DLRV versions

On DLRV versions, plug the quick connector into the solenoid valve output Y2 provided on the electronic board (see the paragraph on Connections).

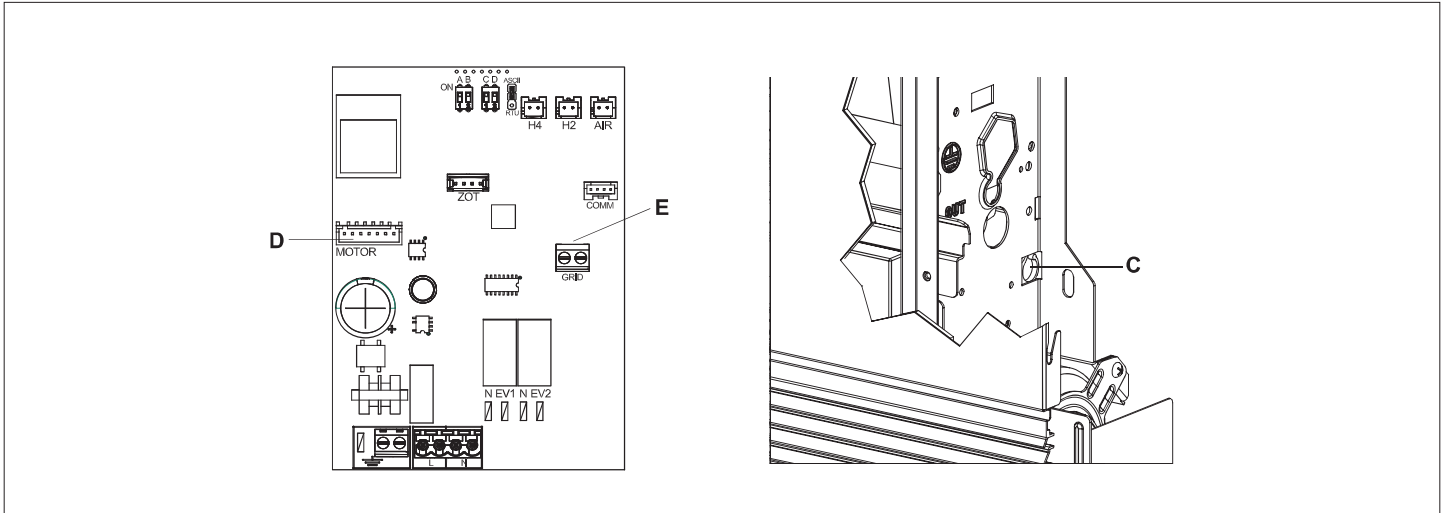
2.8 Motor connection on versions with the water connections on the right

If needing to invert the position of the water fittings on the coil from the left-hand side to the right-hand side of the appliance, the electrical connection box must also be installed on the other side; however, as the fan motor and the grill safety microswitch always remain in the same position, a special connection cable kit is needed, available as an accessory.

The cable, terminating with male/female connectors, is connected to the motor on the right-hand side and to the quick connector on the board (ref. D) on the left-hand side.

The other two cables in the kit are only used when the grill safety microswitch is fitted. In this case, the cables are connected on the left-hand side to contact S1 (ref. E) on the board, and on the right-hand side via the double terminal to the microswitch cables.

The cables should be run through the hole provided at the rear of the appliance (ref. C).



Conformity

This unit complies with the following European directives:

- 2014/35/EC Low voltage
- 2014/30/EC Electromagnetic compatibility

- 2002/95/EC Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
- 2002/96/EC Waste electrical and electronic equipment (WEEE).