

VEMA range

» INSTALLATION, OPERATING AND MAINTENANCE GUIDE



ISO 9001:2000 - Cert. n. 1368/1

ventilclima®
Apparecchi per la Climatizzazione

WALL-MOUNTED WATER-FILLED FAN COILS

MI VEMA 0107-0 VEN GB

CONTENTS

FIRST PART: FOR THE INSTALLER

SAFETY MEASURES

- Safety symbols
- Place of installation

INSTALLATION

- Installation with simple mounting plate
- Installation with built-in valves
- Installation with valves and external frame

ELECTRICAL CONNECTIONS

- Wiring
- Electrical connections (with IR remote control) VEMA 1-2
- Electrical connections (with IR remote control) VEMA 3
- Electrical connections (without IR remote control) VEMA 1-2
- Electrical connections (without IR remote control) VEMA 3

WATER CONNECTIONS

- Installation tips
- Lagging of pipes
- Condensate drainage

SECOND PART: FOR THE USER

NAMES AND FUNCTIONS OF THE PARTS

- Warnings and auxiliary control keys
- Control panel

REMOTE CONTROL

- Remote control display
- Preparation of the fan coil
- Preparation of the remote control
- Setting the current time
- Using the remote control
- Automatic operation
- Changing the fan speed
- Stopping operation

MODES OF OPERATION

- Cooling
- Dehumidifying
- Fan only
- Heating

ADJUSTING THE AIRFLOW

ADJUSTING THE DIRECTION OF THE AIRFLOW

- Automatic
- Manual

TIMER

- Switching on the timer
- Switching off the timer
- Timer

NIGHT FUNCTION

- Operation in the cooling and dehumidifying mode
- Operation in the heating mode

PURIFYING THE AIR

CARE AND MAINTENANCE

- Cleaning the air filter

TROUBLESHOOTING

- It's normal that ...
- If the fan coil does not work ...
- If the fan coil does not cool properly...

DECLARATION OF CONFORMITY

SAFETY MEASURES

Carefully read and make sure you have understood all the information contained in this guide. Pay particular attention to the instructions for use accompanied by the writing "DANGER" or "CAUTION", as failure to comply with these instructions could cause damage to the appliance or property and injury to persons. For any malfunctioning not contemplated in this guide, immediately contact an authorised after-sales service centre. Ventilclima S.p.A. cannot be held liable for any damage or injury caused by misuse of the appliance or by partial or superficial knowledge of the information contained in this guide.

SAFETY SYMBOLS



Danger!



Forbidden operation!



Danger high voltage!



Necessary operation!

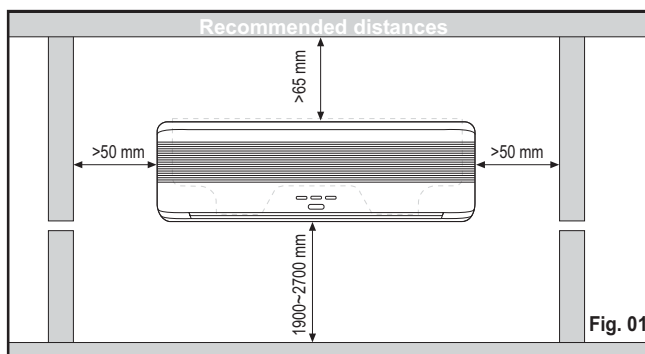


Danger high temperature!

- Do not install this Fan Coil yourself, but apply to authorised installers for installation.
- Avoid prolonged direct contact with the cool airflow.
- Do not insert fingers or objects into the air vent or the front cover grille.
- Do not start or stop the fan coil by means of the mains circuit breaker or power switch.
- Do not place objects on top of the fan coil.
- Do not allow water to come into direct contact with the fan coil.
- Do not direct the airflow towards fireplaces or heating appliances.
- Do not touch the fins of the heat exchanger.
- Do not block or cover the front cover or the air vent.
- Contact authorised after-sales service personnel for any repair.
- In the event of relocation, call authorised after-sales service personnel for removal and re-installation of the unit.
- In the event of malfunction (smell of burning, etc.), stop appliance operation immediately and contact the authorised after-sales service centre.
- Disconnect from the electricity supply when the unit is not going to be used for a long time.
- Take all precautions to prevent children from accidentally swallowing the remote control batteries.
- Always disconnect from the electricity supply by pulling out the plug when cleaning the fan coil or changing the air filter.
- Remove the batteries from the remote control when it is not going to be used for a long time.
- Always use the unit with the air filter installed.
- Install the fan coil and the remote control at least one metre away from any television or radio.
- During installation of the appliances, take precautions to prevent children having access to the working area.
- Make sure that the front cover has been firmly secured.

PLACE OF INSTALLATION

- Decide on the position together with the user, as described below.
- Install the indoor unit on a solid and vibration-free wall.
- Do not position the fan coil near windows or doors or any curtains that could obstruct the airflow direction louvers or flaps.
- Do not install the fan coil near sources of heat, steam or inflammable gases.
- Install the fan coil so it is connected directly to an electrical outlet or to an independent circuit.
- Do not install the unit in a place where it is exposed to direct sunlight.
- Install the fan coil in a place where it is easy to install the drain pipes.
- Leave the space as shown in fig. 01 to facilitate any repairs.



- Whenever the unit is to be used in the heating mode, installation is recommended at a height not exceeding 3000 mm.

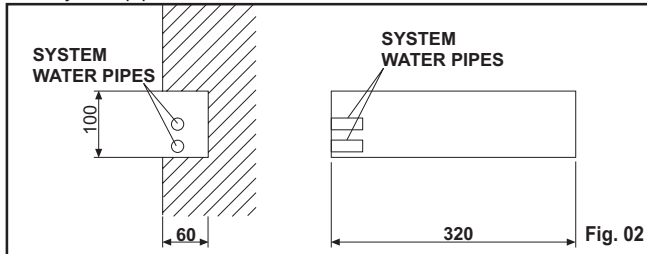
INSTALLATION

INSTALLATION WITH SIMPLE MOUNTING PLATE

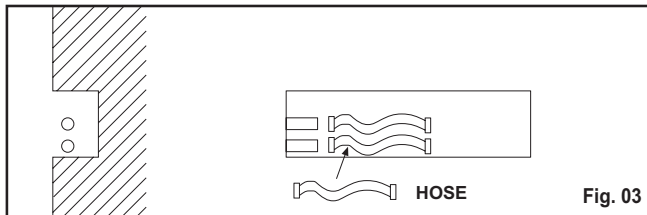
The method of installing the wall-mounted water-filled fan coil of the VEMA range is shown below.

Take into account the following:

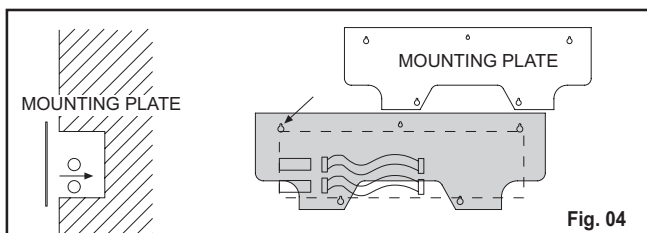
- looking at the unit from the front, the supply pipes go from right to left.
- the system pipes must come from the left.



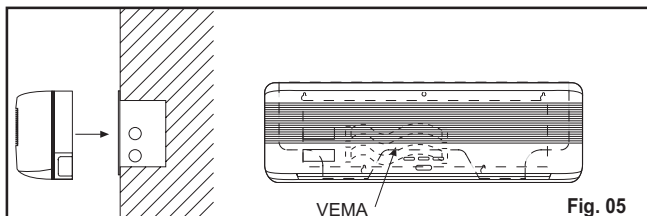
Make a sufficiently large hole in the wall for the system water pipes to pass through:



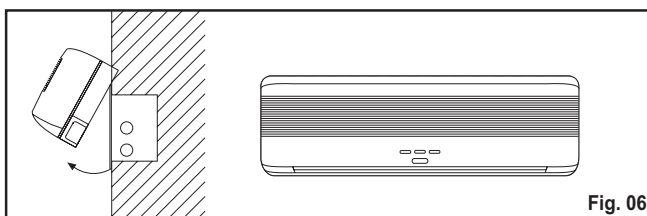
Take two hoses with 1/2" fitting and connect to the system pipes. These pipes must be lagged.



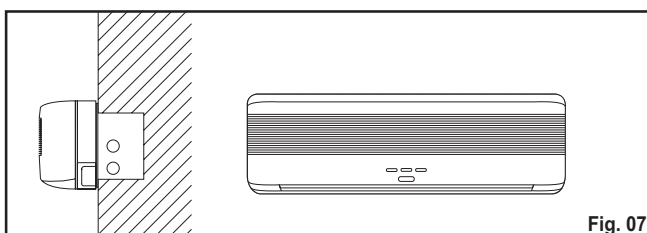
Fix the fan coil mounting plate to the wall.



Anchor the fan coil to the mounting plate.

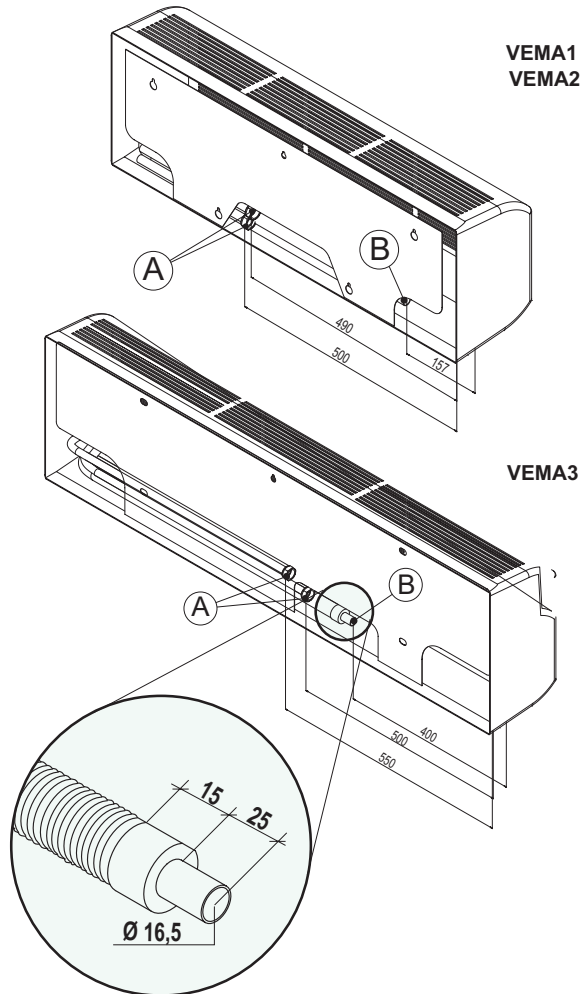


Tilt the fan coil and insert the relative polystyrene foam spacer and then carry out the water connections.



Put the fan coil back to its position of operation.

SIZE OF WATER AND CONDENSATE DRAIN FITTINGS



LEGENDA

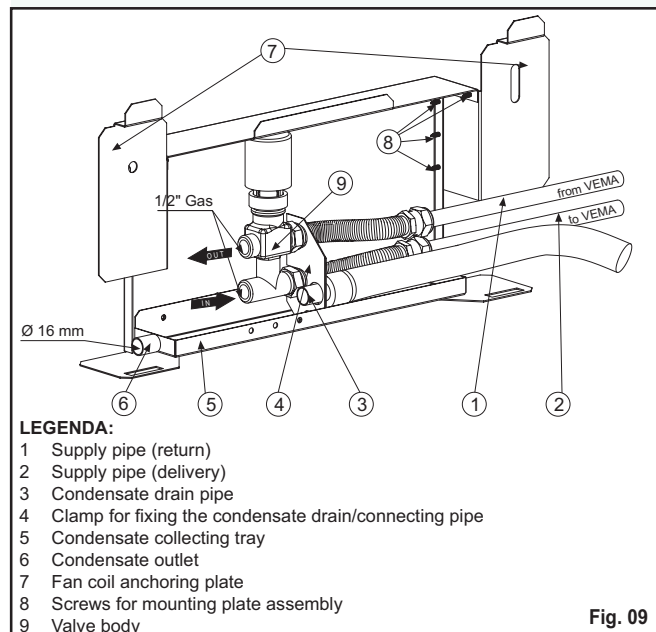
- A Hoses for water connection Ø 1/2".
- B Condensate drain pipe Ø 16.5 mm.

Fig. 08

INSTALLATION WITH BUILT-IN VALVES

IMPORTANT!

It is recommended that wall-mounted water-filled fan coils be installed with on-off devices.



LEGENDA:

- 1 Supply pipe (return)
- 2 Supply pipe (delivery)
- 3 Condensate drain pipe
- 4 Clamp for fixing the condensate drain/connecting pipe
- 5 Condensate collecting tray
- 6 Condensate outlet
- 7 Fan coil anchoring plate
- 8 Screws for mounting plate assembly
- 9 Valve body

Fig. 09

Proceed as shown in fig. 10 to assemble the mounting plate.

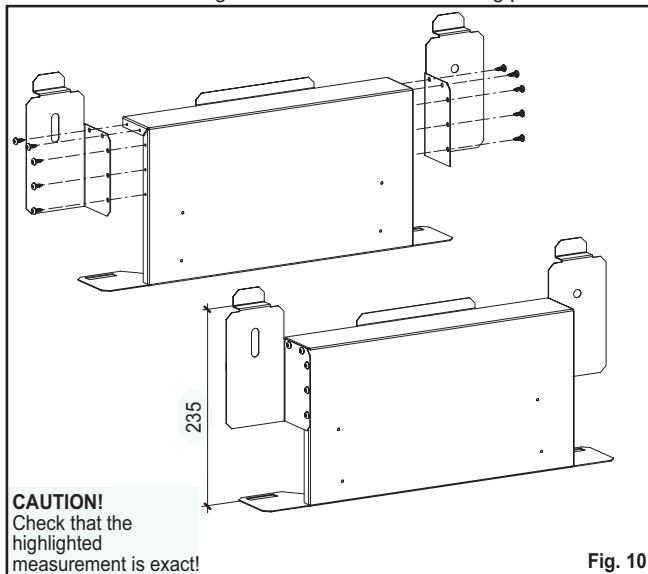


Fig. 10

- 1) Identify the position on the wall where the fan coil is to be installed and create a niche with the dimensions shown in fig. 11.

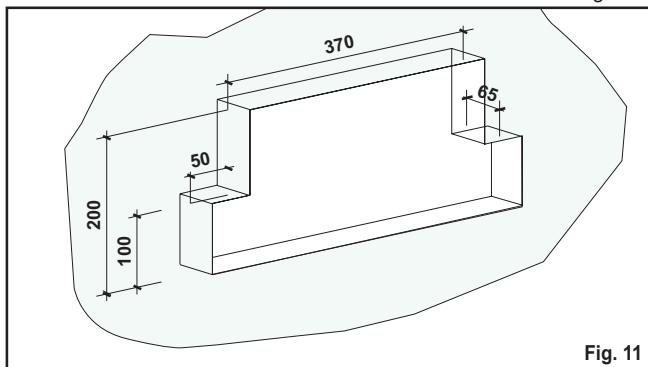


Fig. 11

- 2) Cover the bottom edge of the niche with a steel angle bar (NOT supplied). Apply the mounting plate and fix it using four screws and four screw anchors in the relative holes (fig. 12).

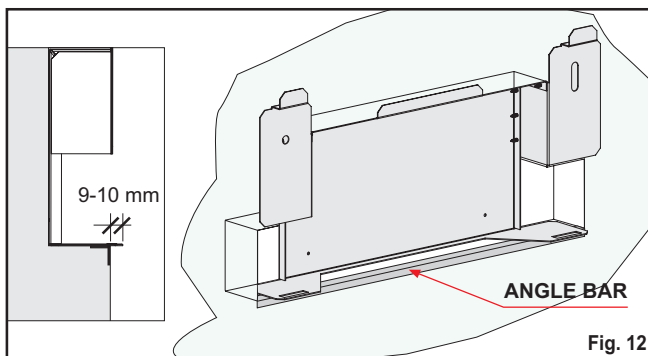


Fig. 12

- 3) Fix the condensate collecting tray by inserting two self-tapping screws into the relative holes (fig. 17). The external surface of the tray must be flush with the wall.

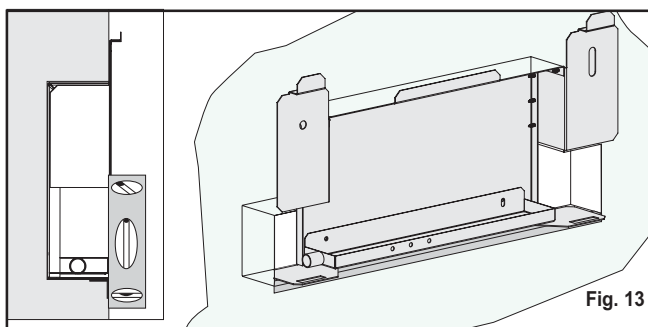


Fig. 13

- 4) Position the fan coil on the mounting plate.

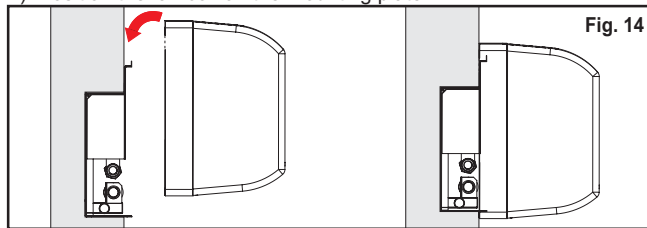


Fig. 14

- 5) Tilt the fan coil and insert the relative polystyrene foam spacer so that the valves can be easily reached and connected to the appliance and to the mains water supply (fig. 15)

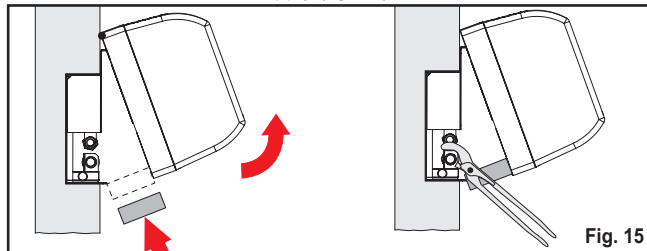


Fig. 15

- 6) Connect the hoses to the fan coil supply pipes and the condensate drain hose (fig. 16)

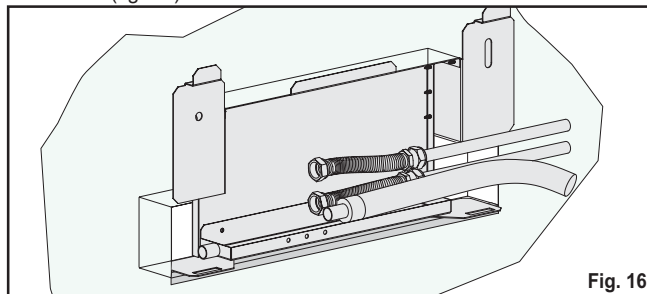


Fig. 16

- 7) Connect the valve to the connecting hoses (fig. 17)

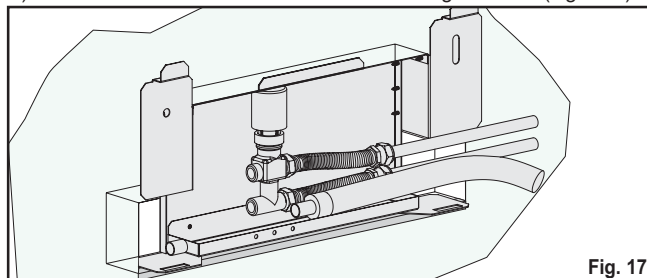


Fig. 17

- 8) Fix the bracket for securing the condensate drain hose and the connecting hoses on the condensate collecting tray (fig. 18)

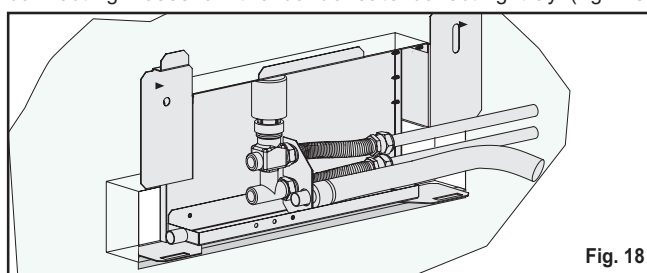


Fig. 18

- 9) Fix the condensate drain hose with silicone (fig. 19)

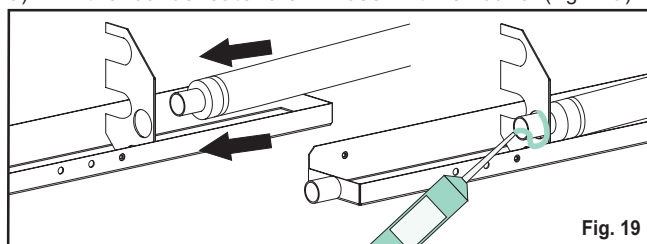


Fig. 19

- 10) Replace the fan coil in its original position.

CAUTION! THE CONDENSATE COLLECTING TRAY MUST BE FIXED SO THAT IT SLOPES GENTLY DOWNWARDS TOWARDS THE CONDENSATE DRAIN OUTLET (fig. 20).

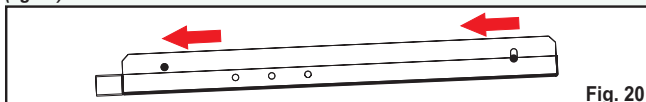


Fig. 20

N.B.:

- Do not bend or damage the enclosed mounting plate.
- Comply with the measurement highlighted in fig. 10.
- The base of the enclosed mounting plate must project by 9-10 mm from the wall.
- The condensate collecting tray must always be flush with the wall.

INSTALLATION WITH VALVES AND OUTER FRAME

Proceed as shown in fig. 21 to assemble the mounting plate.

IMPORTANT! It is recommended that wall-mounted water-filled fan coils be installed with on-off devices.

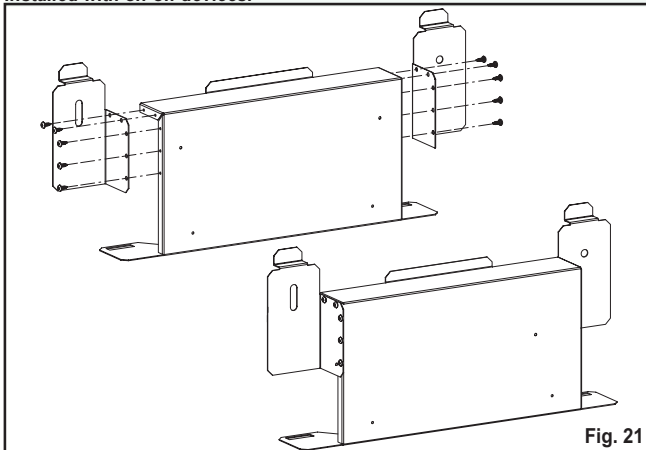


Fig. 21

- 1) Mark the position on the wall where the fan coil is to be installed, then apply the mounting plate and fix it with two screws and screw anchors in the relative holes.
- 2) Position the cross rail of the frame (A) on top of the mounting plate previously fixed to the wall.

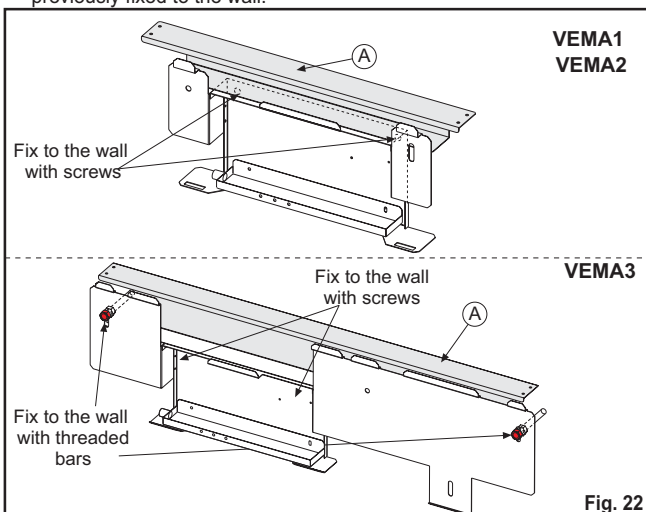


Fig. 22

N.B. In model 3, the threaded bars are locked onto the MOUNTING PLATE with nut and check nut.

- 3) Fix the extension (B) to the cross rail with the 4 self-tapping screws provided in the kit (fig. 23/A and 23/B).

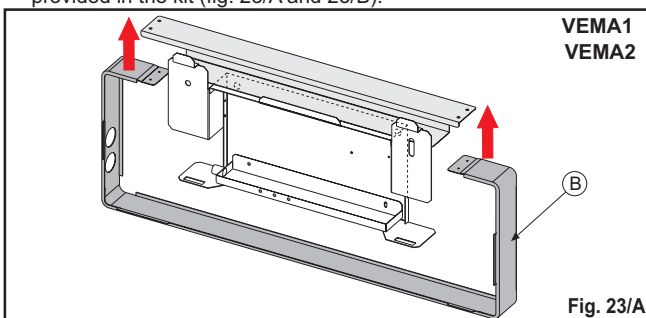


Fig. 23/A

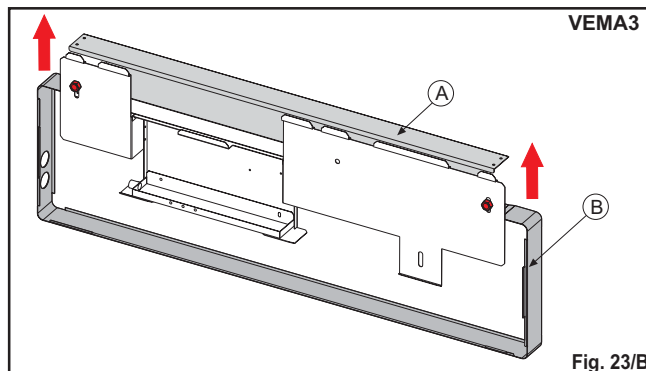


Fig. 23/B

4) Final result

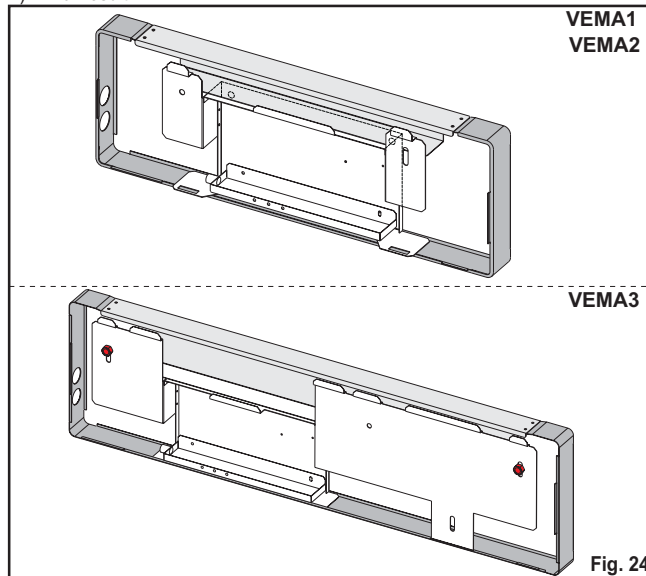


Fig. 24

- 5) Repeat points 4, 5, 6, 7, 8 of the previous section.

ELECTRICAL CONNECTIONS

CAUTION!

- 1) Firmly insert the wires of the connecting cable into the terminal block. Incorrect insertion could cause a short circuit or fire.
- 2) Check that the earth wire is connected.
- 3) Carry out the wiring in conformity with current wiring regulations to ensure correct fan coil operation.
- 4) Before connecting to the mains power supply, ensure that the voltage is within the working power limit $\pm 10\%$.
- 5) Always use a separate line.
- 6) The cable must have no joints.
- 7) All the units must be properly earthed to ensure user safety.
- 8) The capacity of the energy source must be sufficient to provide current to the fan coil and to other electrical equipment. If the working current capacity is insufficient, the system must be adapted.

WIRING

Strip the connecting cable for a length of 15 mm (fig. 24). Fully insert the wires of the connecting cable into the terminal block terminals. Gently pull the cable to make sure that they are firmly fixed.

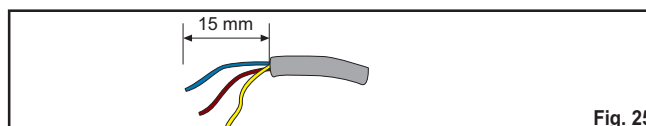


Fig. 25

VEMA 1-2 ELECTRICAL CONNECTIONS (with IR remote control)

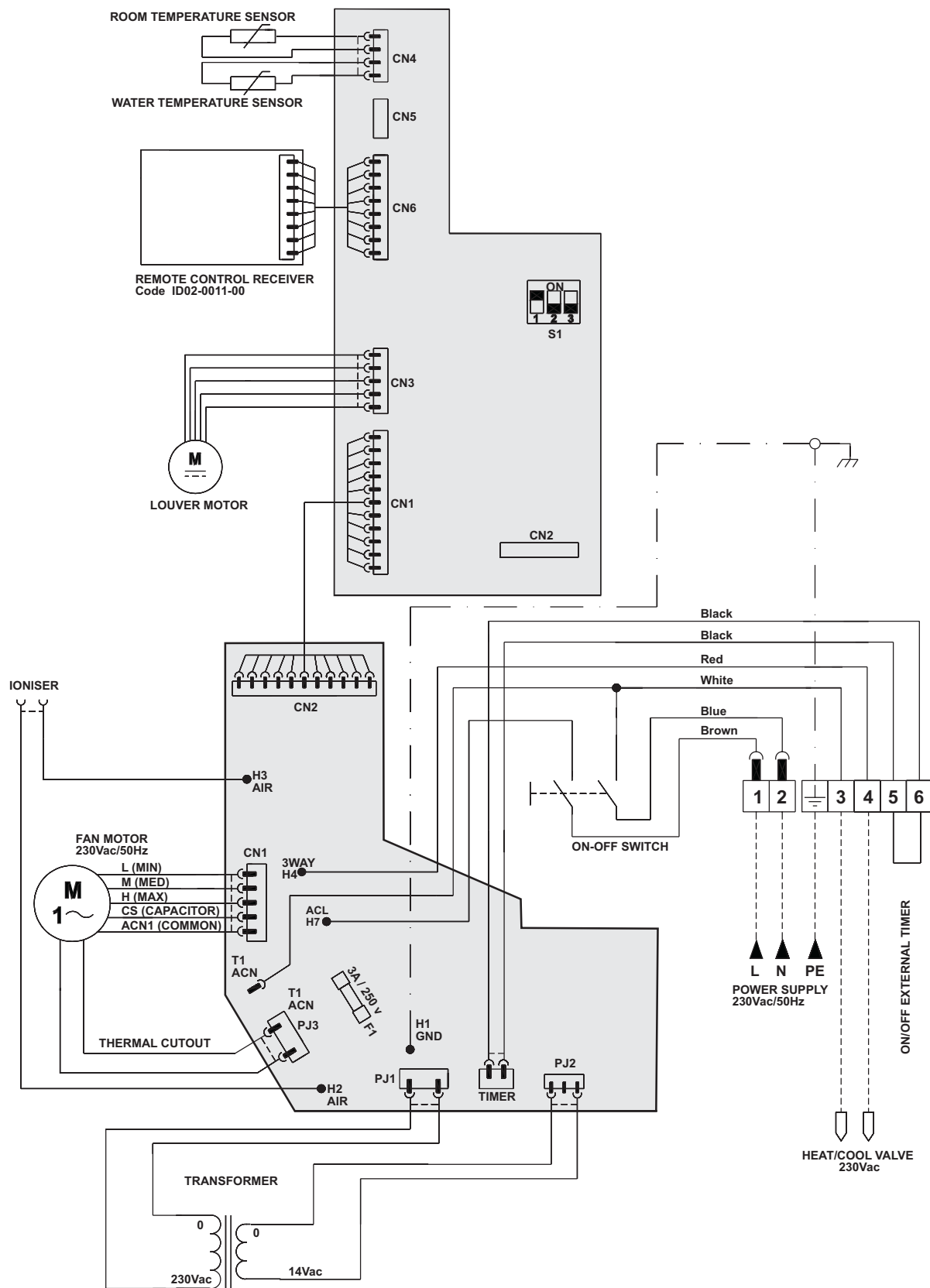


Fig. 26

VEMA 3 ELECTRICAL CONNECTIONS (with IR remote control)

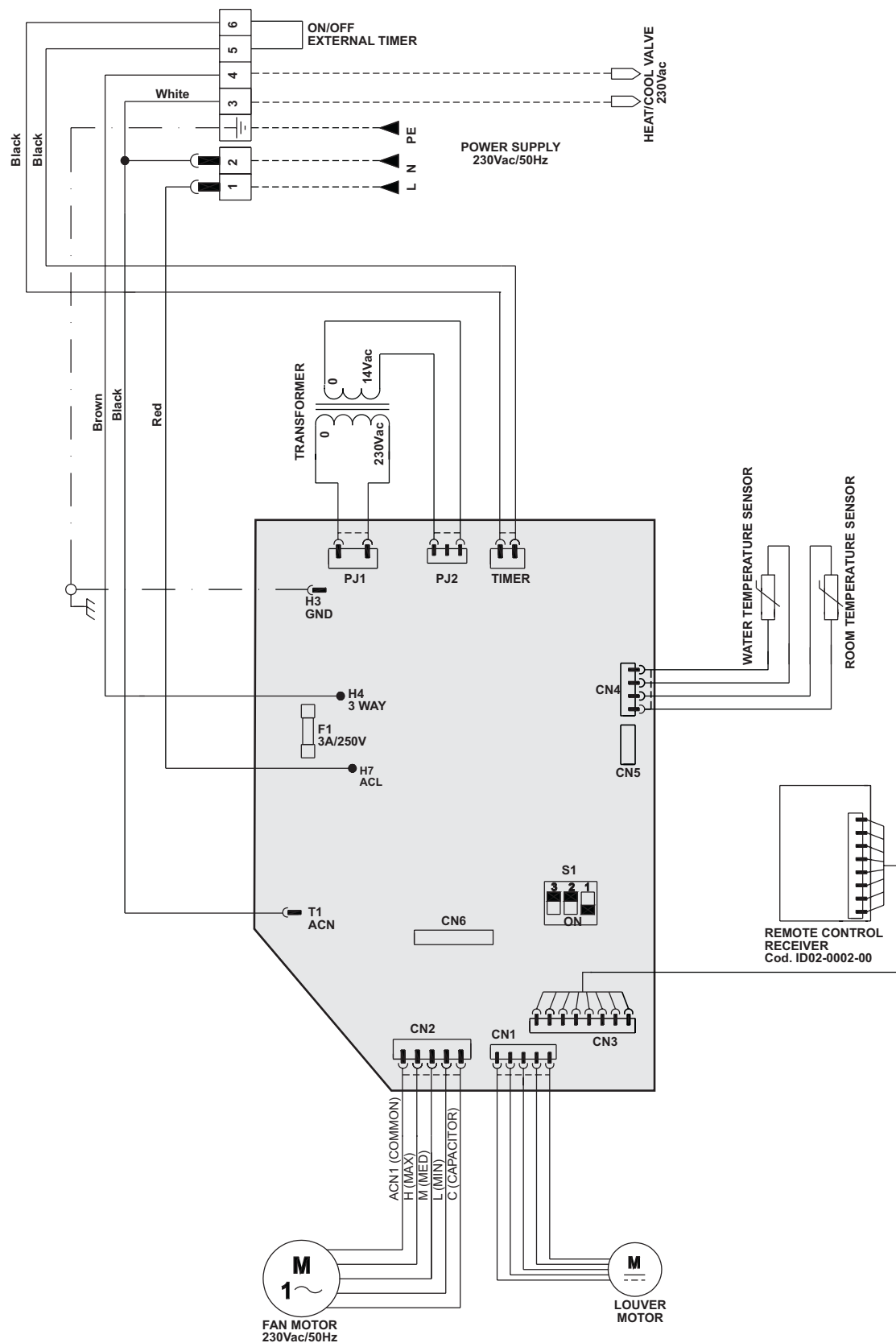


Fig. 27

VEMA 1-2 ELECTRICAL CONNECTIONS (without IR remote control)

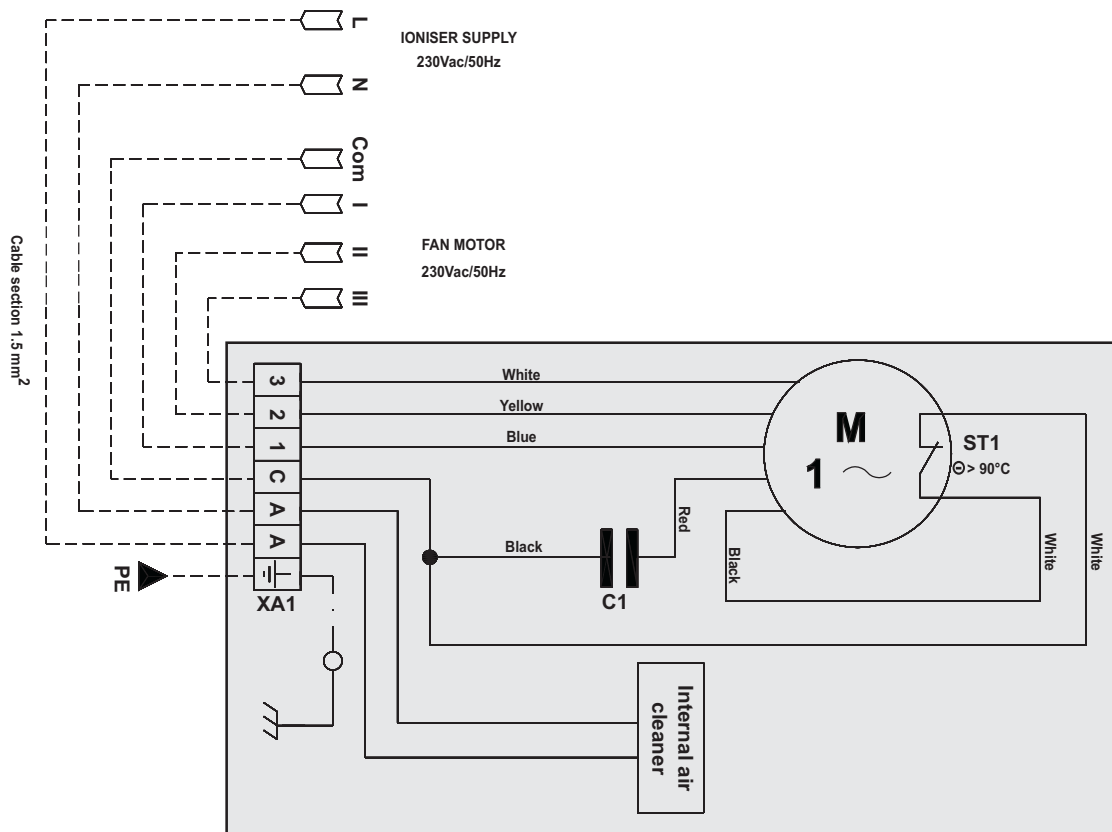


Fig. 28

VEMA 3 ELECTRICAL CONNECTIONS (without IR remote control)

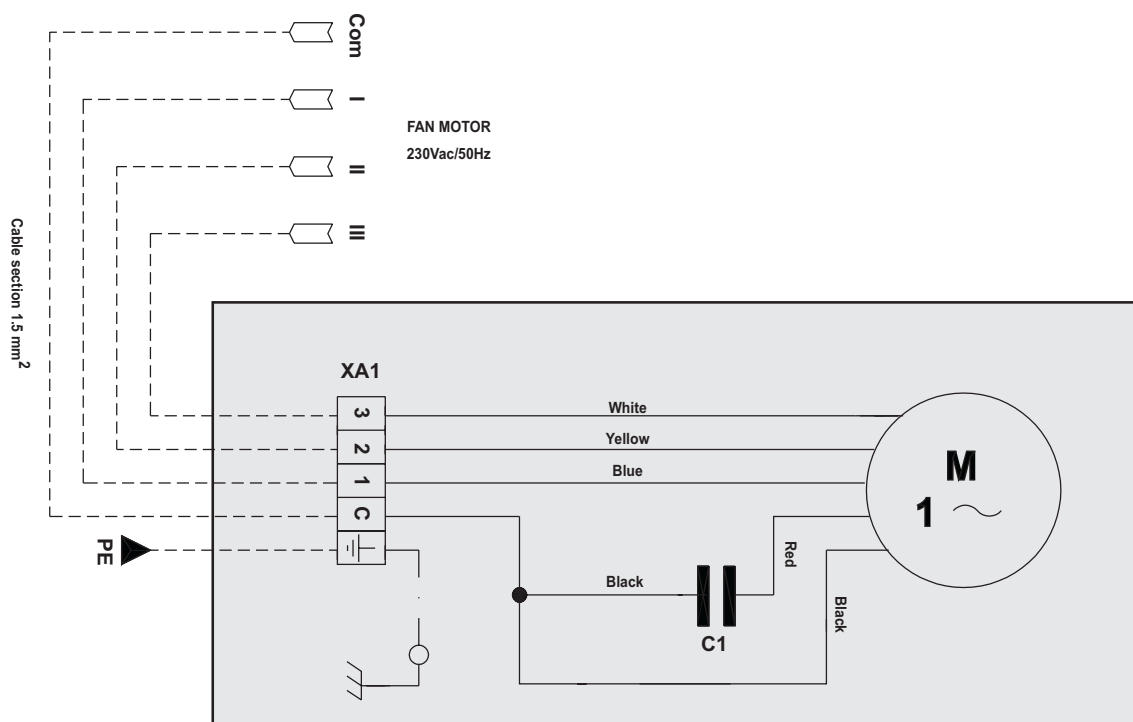


Fig. 29

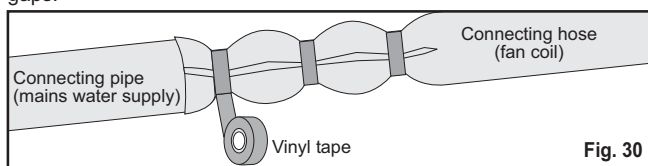
WATER CONNECTIONS

INSTALLATION TIPS

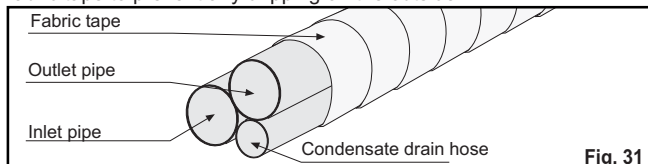
- 1) If possible use copper pipes.
- 2) The supply and return pipes have the same diameter (1/2").
- 3) The pipes must always be lagged.
- 4) The condensate drain hose is plastic and has a Ø 16.5 mm fitting.
- 5) The fan coil heat exchanger is fitted with a manual air valve at the highest point. Use a screwdriver on this valve to bleed the system, thereby ensuring correct circulation of the water.
- 6) To prevent broken pipes, avoid sharp bends. Bend pipes with a radius of curvature of at least 70 mm.
- 7) If a pipe is bent repeatedly in the same point it could break. Replace with an undamaged pipe.

LAGGING THE PIPES

Wrap the thermal insulation of the connecting pipe over that of the unit pipe and bind them together with vinyl tape, ensuring that there are no gaps.



It is advisable to lag the water pipes and the condensate drain hose with fabric tape to prevent any dripping on the outside.



Wrap vinyl tape around the electric connecting cable and fix it onto the water supply pipe.

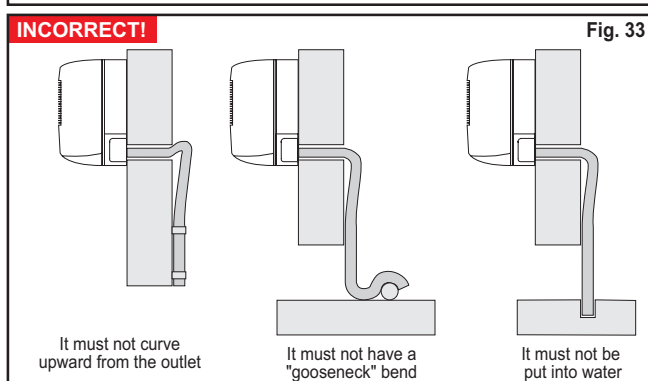
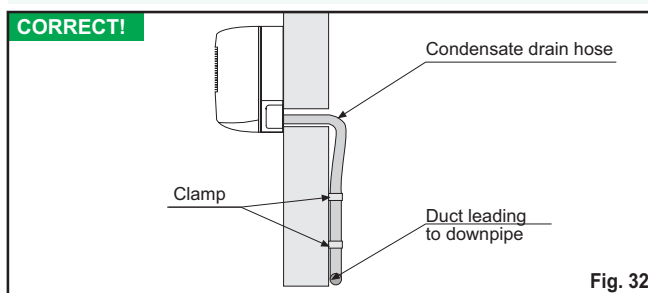
Caution!

Ensure that the cable is perfectly insulated to prevent possible infiltration and consequent short circuit or fire.

CONDENSATE DRAINAGE

CAUTION!

THE UNIT CONDENSATE DRAIN HOSE IS OF BASIC IMPORTANCE FOR SUCCESSFUL INSTALLATION. LAG THE PIPES ADEQUATELY AND CORRECTLY!

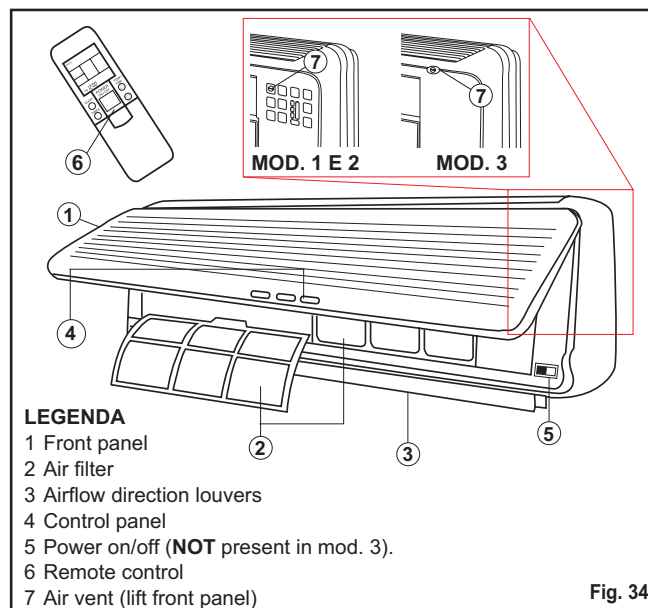


Periodically check the condensate drain hose for dust or fluff, which could cause clogging with consequent overflow of condensate. Install traps on the drain line to prevent unpleasant odours rising from the drainage system.

No foreign matter must be allowed to deposit in the condensate collecting tray (if installed).

Any foreign matter whatsoever MUST be removed and the drain hose CLEARED before starting the appliance.

NAMES AND FUNCTIONS OF PARTS



LEGENDA

- 1 Front panel
- 2 Air filter
- 3 Airflow direction louvers
- 4 Control panel
- 5 Power on/off (NOT present in mod. 3).
- 6 Remote control
- 7 Air vent (lift front panel)

Fig. 34

WARNINGS AND AUXILIARY CONTROL KEYS

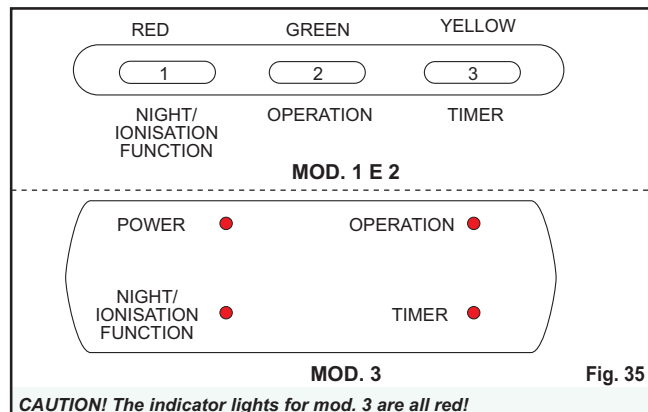


Fig. 35

CAUTION! The indicator lights for mod. 3 are all red!

- 1 **POWER (for model 3 only)**
- Lights up with power at 230 Vac.
- 2 **NIGHT AND IONISER FUNCTION INDICATOR (RED LIGHT).**
OFF: Night or ioniser function not set
ON: Night or ioniser function set
BLINKING: Dirty air filter
- 3 **OPERATION INDICATOR (GREEN LIGHT)**
OFF: Unit off, valve closed
ON: Unit on, valve open
BLINKING: For the first 20 seconds after switching on or when the valve is closed
- 4 **TIMER INDICATOR (YELLOW LIGHT)**
OFF: TIMER function not set or ended
ON: TIMER function set
BLINKING:
2 times every 2 seconds: faulty air temperature sensor;
3 times every 2 seconds: faulty water temperature sensor;
4 times every 2 seconds: water temperature too high;
5 times every 2 seconds: abnormal room temperature;
7 times every 2 seconds: faulty condensate drain pump.

N.B.: If there is a fault in the air or water temperature sensor or an abnormal room temperature, the unit remains on and receives commands, but the valves and fan do not work.

CONTROL PANEL

1 EMERGENCY BUTTON

- The emergency button can be used to start the fan coil if the remote control is broken or lost.

The mode of operation is:

- automatic main control;
- automatic fan control;
- automatic airflow direction control.

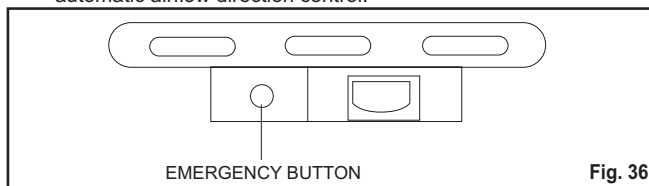


Fig. 36

2 ON/OFF POWER SWITCH (NOT present in mod. 3)

ON: put to this position to start the unit.

OFF: put to this position when the unit is not to be used for a long time.

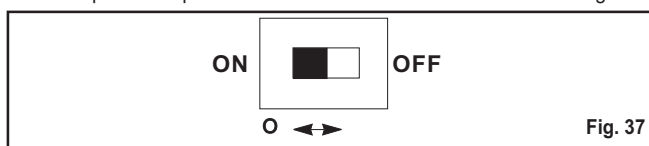


Fig. 37

REMOTE CONTROL

This may be used to set all the appliance operating parameters, which appear on the LCD to make programming easy. The remote control is powered by batteries (1.5 V) of the type R 03 AAA and operation is excellent up to 7 metres from the unit.

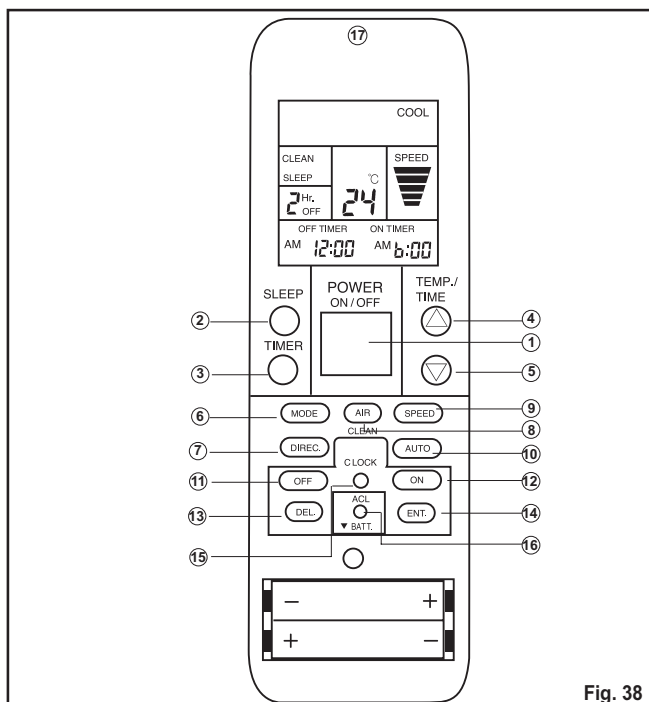


Fig. 38

1 POWER ON/OFF

2 **SLEEP** - Press this button for the night function. It changes the set temperature according to the set time.

3 **TIMER** - Use this button for quick setting of operating time; the timer can be set between 1 and 9 hours.

4 **TEMP/TIME** - Press this button to increase the temperature and time setting.

5 **TEMP/TIME** - Press this button to decrease the temperature and time setting.

6 **MODE** - Press this button to set the mode of operation (automatic, heating/cooling, dehumidifying and fan).

7 **DIREC.** - Use this button to adjust the vertical airflow direction (automatic, direction 1, direction 2, direction 3, direction 4, direction 5).

8 **AIR CLEAN** - Press this button to generate the negative ions (for mod. 1 and 2 only).

9 **SPEED** - Press this button to select the fan speed (automatic, low, medium, high).

10 **AUTO** - Press this button to set the airflow direction in the automatic mode.

11 **OFF (clock)** - Use to set the time for the appliance to switch off.

12 **ON (clock)** - Use to set the time for the appliance to switch on.

13 **DEL (clock)** - Use to delete the timer setting.

14 **ENT (clock)** - Use to confirm the timer setting.

15 **CLOCK** - Use to set the current time.

16 **ACL** - Use to erase all the settings made by the user and to return to the original setting.

17 **SIGNAL TRANSMITTER** - The control signals are sent to the fan coil from this IR transmitter.

REMOTE CONTROL DISPLAY

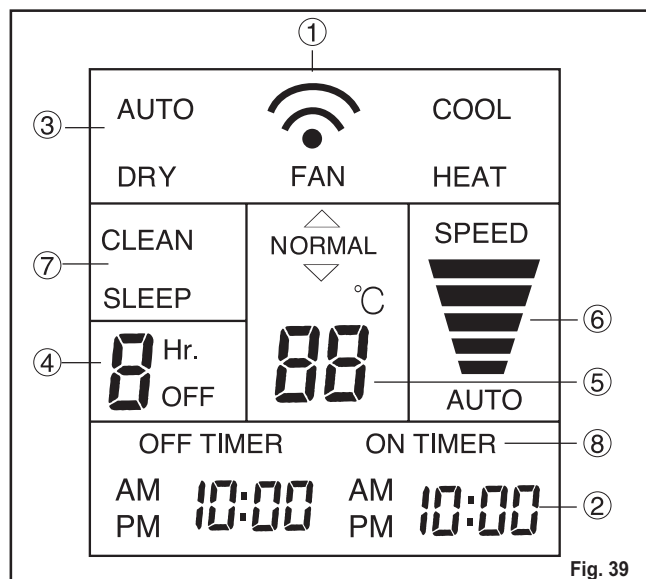


Fig. 39

1 **TRANSMISSION INDICATOR** - This indicator shows when a command has been sent to the air conditioner.

2 **CLOCK** - This indicates the current time and the set time (AM, PM, from 1:00 to 12:59).

3 **MODE OF OPERATION** - This shows the mode of operation (cooling, dehumidifying, etc.).

4 **TIME SETTING** - This shows the time set for the start of operation.

5 **TEMPERATURE SETTING** - This shows the thermostat setting.

6 **FAN SPEED** - This shows the actual fan speed.

7 **NIGHT AND AIR PURIFYING FUNCTION** - This shows that the night and the negative ion generation functions have been set (for versions 1 and 2 only).

8 **TIMER MODE** - This shows the current time, timer off and timer on.

N.B.: The illustration shows the display with all the indicators lit, whereas in everyday use only the necessary indicators are displayed as required.

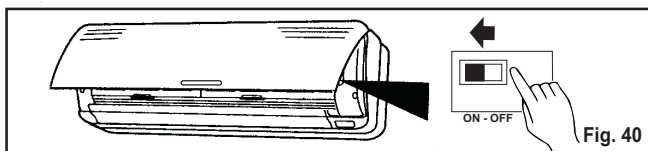
CAUTION!

- The signals will not be transmitted correctly if a wall, curtain or other objects are located between the fan coil and the remote control.
 - The fan coil could function inadequately if the signal receiver is exposed to strong light. Use a curtain to screen against direct sunlight and place any lamp with a strong light far from the signal receiver.
 - If there is another electronic appliance that works with a remote control, move it or consult the authorised after-sales service.
 - Do not put the remote control in a place where it could be subject to heat coming from direct sunlight or a heating appliance.
 - Protect the remote control against strong impact and do not allow water or other liquids to be sprayed over it.
- When the remote control is used in rooms that have quick start fluorescent lamps, the fan coil may not receive the signals correctly. Consult authorised after-sales service personnel when purchasing a new fluorescent lamp.

PREPARATION OF THE FAN COIL

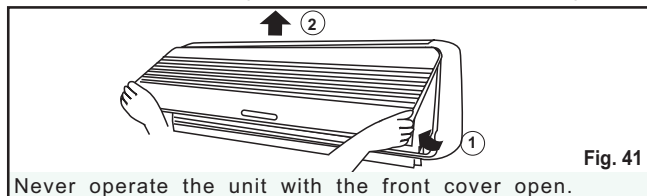
Power supply:

- 1 Ensure that the unit is connected to the electricity supply.
- 2 Open the front cover
- 3 Put the on/off switch to on
- 4 Close the front cover



OPENING AND CLOSING THE FRONT COVER

- 1 Use both hands to pull the lower edge of the front cover outwards by 30°
- 2 Use both hands to push and lift the front cover upwards.



Never operate the unit with the front cover open.

Fit the hooks located at the top of the cover into the relative holes and close the cover by rotating it downwards until it locks into place.

PREPARING THE REMOTE CONTROL

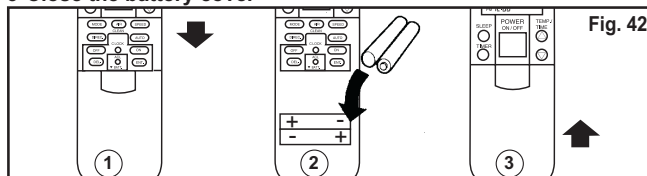
Inserting the batteries

- 1 Press and slide the battery cover down.

Press firmly and slide the cover in the direction of the arrow.

- 2 Insert the batteries. Ensure that the + and - symbols are correctly positioned.

- 3 Close the battery cover



CAUTION!

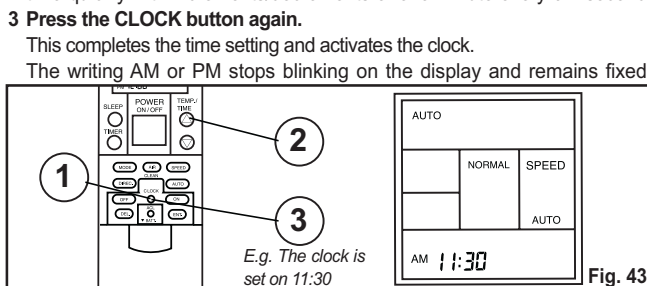
- Take all possible precautions to prevent children from accidentally swallowing the remote control batteries.
- When the remote control is not going to be used for a long time, remove the batteries.
- The batteries should last about one year. When the remote control range becomes considerably reduced, replace the batteries and press the ACL button using the tip of a biro or another small pointed object.

SETTING THE CURRENT TIME

- 1 Press the CLOCK button

- 2 Use the \odot / \ominus buttons to set the current time on the clock. Button \odot : press to put the time forward. Button \ominus : press to put the time back. Each time the buttons are pressed the time is put forward/back by one minute; keep the buttons pressed to change time quickly with increments/decrements of one minute every 0.1 second.

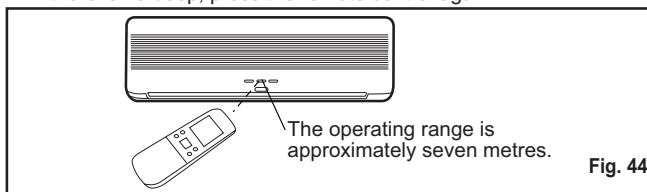
3 Press the CLOCK button again. This completes the time setting and activates the clock. The writing AM or PM stops blinking on the display and remains fixed.



USING THE REMOTE CONTROL

The remote control must be pointed towards the receiver to work properly.

- There is a high-pitched beep when a signal is received correctly by the fan coil.
- If there is no beep, press the remote control again.

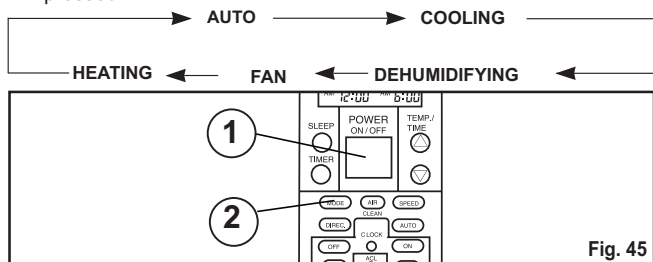


MODE OF OPERATION

- 1 Press the POWER ON/OFF button

The fan coil starts to work.

- 2 Press the MODE button (mode control) and select the required mode. The mode changes as shown below each time the button is pressed:



Mode of operation

Cooling

- Use this function to cool the room.

Heating

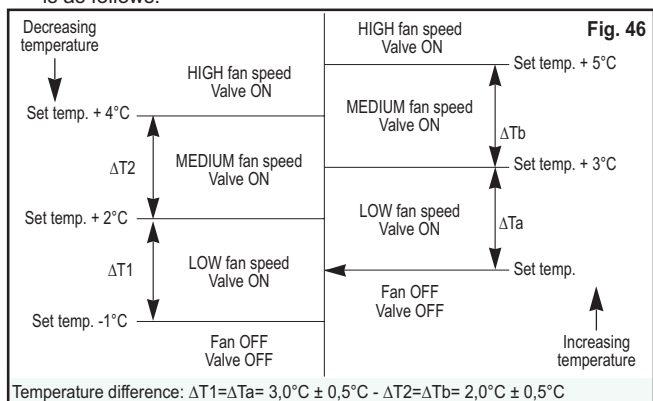
- Use this function to heat the room.
- Set a higher temperature on the thermostat than the actual room temperature. The heating function does not work if the thermostat is set with a lower temperature than the room temperature.

Dehumidifying function (only if a valve is mounted).

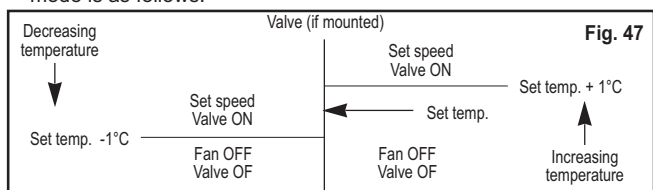
- Use this function for gentle cooling while dehumidifying the room.
- The room does not heat during this function. The fan speed cannot be changed manually when the dehumidifying mode has been selected.

COOLING (if chilled water is present)

- 1 When the fan speed is set on "AUTO", operation in the cooling mode is as follows:



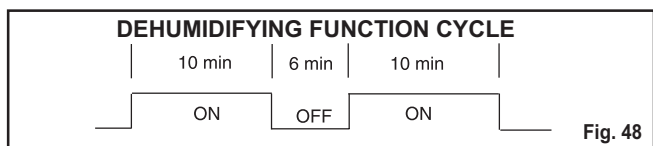
- 2 When the fan speed is not set on "AUTO", operation in the cooling mode is as follows:



DEHUMIDIFYING (if chilled water present)

When the fan coil operates in this mode, the control system manages operation of all the parts automatically to reduce air humidity. When the fan coil is switched on it operates in the cooling mode until the set temperature is reached, after which on/off cycles are activated.

- 1 PRESS THE ON/OFF BUTTON: the fan coil starts operating and a green indicator light comes on.
- 2 PRESS THE MODE BUTTON: press the mode button repeatedly until the writing DRY appears.
- 3 ADJUSTING THE TEMPERATURE
 - \odot to raise the temperature
 - \ominus to lower the temperature

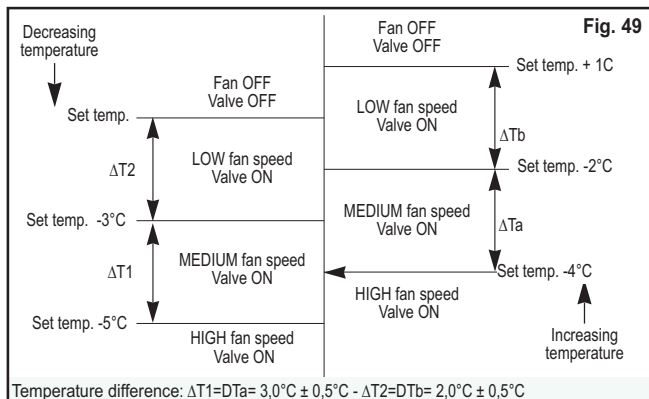


FAN

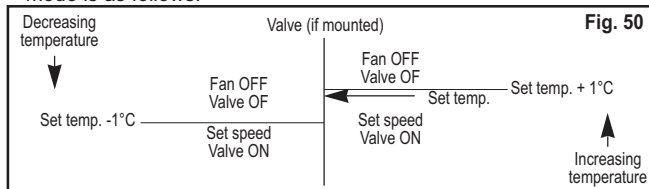
When the automatic fan speed function is set, there is a selection of various levels: high, medium, low.

HEATING (if hot water is present)

1 When the automatic fan speed function is set, the heating mode works as follows:



2 When the fan speed is not set on "AUTO", operation in the heating mode is as follows:



AUTOMATIC OPERATION

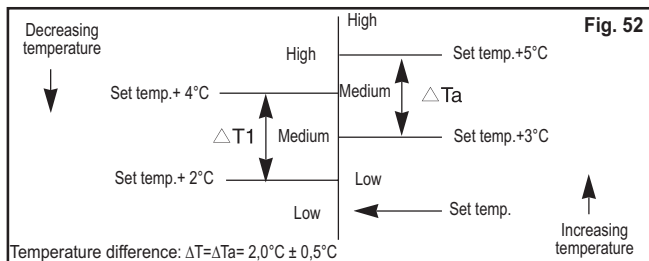
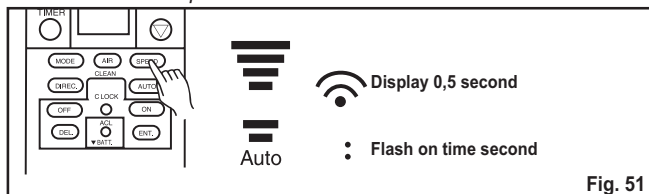
Press the mode button to access the **AUTO** function. This function is for models other than 1-2-3. **DO NOT USE IT**, as it could cause unit malfunction.

CHANGING THE FAN SPEED

Press the SPEED button. Each time the button is pressed the fan speed changes in the following sequence:



N.B.: after approx. 0.5 seconds the whole display reappears. When the speed is set to AUTO: the fan speed changes according to the difference between the room and the set temperature. When this difference has decreased the fan speed is reduced.



STOPPING OPERATION

Press the POWER ON/OFF button.

ADJUSTING THE AIRFLOW

Use the DIREC (airflow direction) button on the remote control to adjust the airflow direction upwards or downwards (the right-left direction is changed by moving the flaps by hand).

⚠ WARNING!

- Do not insert fingers or other objects into the louvers as there is a high-speed fan inside the unit which could cause injury to persons or damage to property.

- Do not switch on the fan coil with the louvers locked as this could cause malfunction.
- Never position the motor-driven louvers manually.

ADJUSTING THE AIRFLOW DIRECTION

AUTOMATIC

PRESS THE AUTO BUTTON

The louver swings automatically between the positions of maximum and minimum aperture, thereby preventing stratification in the heating and cooling modes of operation. Press the DIREC button to stop automatic operation.

PRESS THE DIREC BUTTON

Every time the DIREC button is pressed the louver changes the direction of the airflow (5 different positions). If the DIREC button is kept pressed down, the positions change continually until the button is released. There may be a short delay after having pressed the DIREC button before the louvers change position.

❶ N. B.

- Always use the DIREC (airflow direction) button on the remote control to change the up and down position of the louvers. Do not try to position the louvers by hand as this could cause malfunction. In the event of malfunction, switch the fan coil off and then on again to restore correct louver operation.
- In the cooling and dehumidifying modes of operation, condensation could form around the unit and drip from the air outlets if the louvers have been set in an unsuitable position for such modes. This position must only be used for a short time.
- When the system functions are stopped, the up and down louvers automatically move until the air outlets are closed.

1 When the appliance is switched on, the louvers open, carry out a complete swing and then stop on the previously set position.

2 When the AUTO button is pressed:

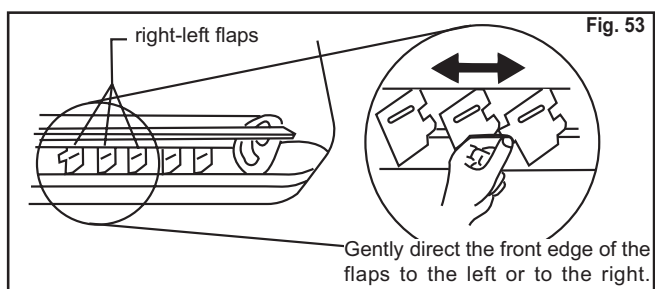
- a. the louvers swing downwards and open as far as they can. This action restores the set angle.
- b. the louvers swing 35° upwards in the cooling mode and 10° in the heating mode.
- c. the louvers swing 45° downwards in the cooling mode. In the heating mode the louvers move back 10° from the angle initially established after the first 5 swings.

3 When the DIREC button is pressed the louvers swing by 10°:

- a. the louvers swing downwards and open as far as they can to. This action restores the set angle.
- b. the louvers swing 35° upwards in the cooling mode and 10° in the heating mode.
- c. the louvers swing 10° each time the DIREC button is pressed (from 35° to 75° in the cooling mode, from 10° to 50° in the heating mode).
- d. If the button is kept pressed down the louvers move continuously; the direction of the airflow can thus be set by releasing the button at the opportune moment.

MANUAL

Position the left-right flaps by hand as desired (see figure 53).



TIMER

Before using the timer function, ensure that the correct time has been set on the remote control.

SWITCHING ON THE TIMER

1 PRESS THE 'ON' BUTTON (clock)

The word ON appears blinking on the display together with the switching-on time.

2 SETTING THE SWITCHING-ON TIME

To change the set time press:

- ⌚ to set a later time;
- ⌚ to set an earlier time.

Each time the buttons are pressed the time changes by 10 minutes

(displayed on the screen).

3 PRESS THE 'ENT' BUTTON TO CONFIRM

Once the switching-on time has been set, press the ENT button to confirm the selection (the writing ON shown on the display stops blinking). The fan coil will now switch on at the set time.

4 PRESS THE 'DEL' BUTTON TO DELETE

Press the DEL button to delete the selection.

N.B.: if the timer is activated, a yellow light will appear on the control panel and will go out upon deleting the function.

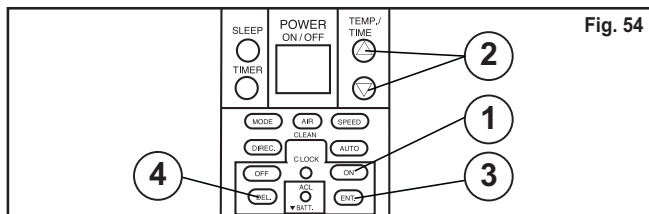


Fig. 54

Before using the timer function, ensure that the correct time has been set on the remote control.

SWITCHING OFF THE TIMER

1 PRESS THE 'OFF' BUTTON (clock)

The writing OFF appears blinking on the display together with the switching-on time.

2 SETTING THE SWITCHING-OFF TIME

To change the set time press:

- ⌚ to set a later time;
- ⌚ to set an earlier time.

Each time the buttons are pressed the time changes by 10 minutes (displayed on the screen).

3 PRESS THE 'ENT' BUTTON TO CONFIRM

Once the switching-off time has been set, press the ENT button to confirm the selection (the writing OFF shown on the display stops blinking). The fan coil will now switch off at the set time.

4 PRESS THE 'DEL' BUTTON TO DELETE

Press the DEL button to delete the selection.

N.B.: if the timer is activated, a yellow light will appear on the control panel and will go out upon deleting the function.

TIMER

To set the required time of operation quickly, use the **TIMER** button. Press the button once to activate the function; the fan coil operates for one hour. To prolong operation (up to 9 hours) just continue to press the **TIMER** button (the required time of operation appears on the display).

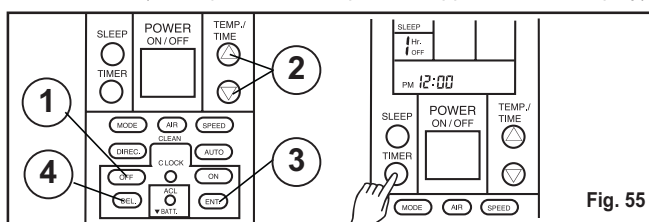


Fig. 55

NIGHT FUNCTION

The **SLEEP** function can be activated irrespective of the time of day, but is normally used during the night.

Operation in the cooling/dehumidifying mode: when the fan coil is programmed to operate in the cooling or dehumidifying mode, it follows the sequence given below:

- one hour after activation the temperature is raised by 1°C;
- two hours after activation the temperature is raised by another 1°C, after which this temperature is maintained until the appliance is switched off (at the programmed time or manually).

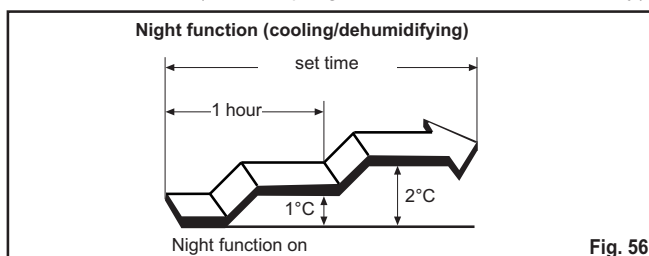


Fig. 56

Operation in the heating mode: when the fan coil is programmed to operate in the heating mode, it follows the sequence given below

- one hour after activation the temperature is decreased by 1°C;
- two hours after activation the temperature is decreased by another 1°C, after which this temperature is maintained until the appliance is switched off (at the programmed time or manually).

N.B.: the values of 1°C every hour (for the first two hours) cannot be changed.

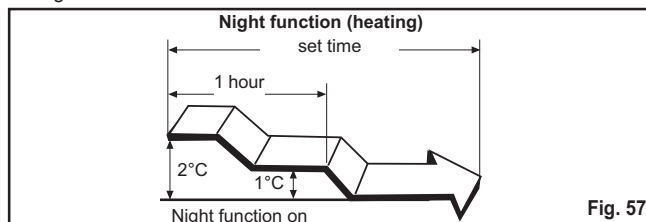


Fig. 57

AIR PURIFICATION

Press the "AIR CLEAN" button to start the air purification function. The writing CLEAN appears on the remote control display (a red light comes on in the control panel).

CARE AND MAINTENANCE

⚠ N.B.

- Before cleaning the unit ensure that it is switched off and disconnected from the power supply.
- There is a high-speed fan inside the unit that could cause injury.
- When the unit is not used for a long time (one month or more), have the unit operate in the fan mode for approx. half a day, if possible when the weather is fine, to ensure that the internal parts are dry.
- When the unit is not used for a long time, disconnect it from the power supply.
- Diesel oil, petrol, insecticides and other chemical agents could damage the unit.
- Do not spray inflammable products on the unit.
- Clean the unit with a cloth moistened with hot or cold water and then wipe dry with another soft, clean and dry cloth.
- Depending on the conditions of use, the internal parts of the unit become dirty after 2 or 3 seasons and its efficiency could be affected. It is therefore advisable to carry out the recommended maintenance. Contact the authorised after-sales service.

Remove the cover

- 1 Use both hands to pull the lower edge of the front cover outwards by approx. 30°
- 2 Use both hands to push and raise the front cover.
- 3 Lift the cover upwards until it can be removed (the grille cannot be removed unless it is raised sufficiently).

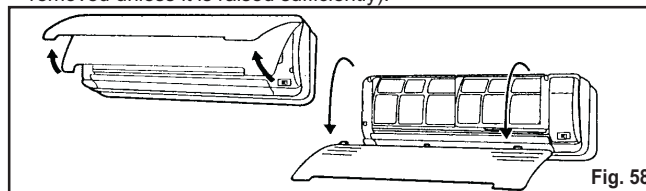


Fig. 58

Cleaning the front cover

Use a vacuum cleaner to remove accumulated dust. Clean the grille with a clean cloth moistened with water and then wipe dry with a clean dry cloth.

Mounting the front cover

Fit the hooks located at the top of the cover into the relative holes and then close the cover by rotating it downwards until it locks into place

CLEANING THE AIR FILTER

If the air filter is dirty the airflow could be reduced and consequently unit efficiency with an increase in noise. Clean the filters at the beginning of each season and when the unit is used frequently. Clean the filters once every two weeks.

Removing the air filter

- 1 Remove the front cover.
- 2 Gripping the filters firmly by their frame, pull them slightly upwards until freed from the two catches located at the bottom and then pull downwards to remove them.

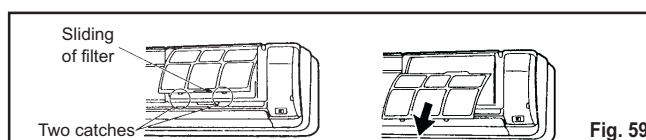


Fig. 59

Cleaning the air filter

Use a vacuum cleaner to remove the dust accumulated on the filters or wash them in a solution of neutral detergent. If washed, let them dry in a shady place before replacing them in the unit.

Installing the air filter.

- 1 Align the filters with the drain duct on the panel and press them in as far as they will go.
- 2 Insert the two filter lugs into the relative holdfasts.
- 3 Close the cover.

TROUBLESHOOTING

⚠ CAUTION! In the event of malfunction (smell of burning or other), stop unit operation immediately, cut off the power supply and contact the authorised after-sales service. Switching off the unit does not disconnect the unit totally from the power supply. Always make sure that the on/off switch is therefore put to off to ensure that the unit is fully disconnected from the power supply.

Before requesting service, carry out the following checks:

IT IS NORMAL THAT...

During operation and immediately after the system has been switched off, water can be heard running inside the unit pipes.

During operation creaking sounds may be heard caused by expansion of the front cover due to the change in temperature.

The unit could give off odours coming from the furniture, tobacco and other things present in the room.

During operation in the cooling and dehumidifying modes a very fine mist may come from the unit. This is due to the sudden cooling which produces condensation and consequently the mist.

The fan could turn slowly during operation in the dehumidifying mode or when the unit is controlling the room temperature.

In the automatic operation control, the fan turns very slowly.

IF THE FAN COIL DOES NOT WORK...

Is the power supply cut off?

Has there been a voltage drop?

Has a fuse blown or the circuit breaker tripped?

Is the on/off power switch in the off position?

Does the timer work?

IF THE FAN COIL COOLS VERY LITTLE...

Is the air filter dirty?

Are the air intake grilles or air outlets blocked?

Is the room temperature setting correct?

Is a window or door open?

In the case of operation in the cooling mode, is any room exposed to direct sunlight? (Draw the curtains)

In the case of operation in the cooling mode, are there heating appliances or computers or many people in the room?

DECLARATION



OF CONFORMITY

According to the Low Voltage Directive **73/23/EEC**, the EMC Directive **89/336/EEC** and amended by the CE-marking Directive **93/68/EEC**.

Type of equipment:	WALL-MOUNTED WATER-FILLED FAN COILS
Trademark:	VENTILCLIMA S.p.A.
Type designation::	VEMA01-VEMA02-VEMA03
Manufacture:	VENTILCLIMA S.p.A.
Address:	via Montegrappa, 67 - s. Zenone degli Ezzelini (TV) - Italy
Telephone:	+39 0423 969037
Telefax:	+39 0423 968197

The following harmonised standards or technical specifications (designations) which comply with good engineering practice inn safety matters in force within the EEC have been applied:

Standards or other normative documents:

73/23/CEE, 89/392/CEE, 91/368/CEE, 92/31/CEE, 92/59/CEE, 93/44/CEE, 93/68/CEE, EMC/89/336, EN/292/1, EN/292/2, EN/55014, EN/60555/2, EN/60204/1, CEI/EN/60335/1, CEI/EN/60335/2/40

Additional information

As the manufacturer's authorised representative established within EEC, we declare, under out sole responsability that the equipment follows the provisions of the Directives stated above.

Date and place of issue

San Zenone degli Ezzelini, li 01/01/2005

Name and signature of authorised person

.....
(Commercial Director)

All data in this manual are no-binding for Ventilclima company who takes the right, without advance notice obligation, to provide to any modification for product improvements.

Ventilclima takes part in EUROVENT CERTIFICATION program.
Certified products are included in EUROVENT DIRECTORY



VENTILCLIMA S.p.A.
31020 SAN ZENONE DEGLI EZZELINI (TV) - Italy - Via Montegrappa, 67
Tel. +39 (0) 423 969037 r.a. - Telefax +39 (0) 423 968197
<http://www.ventilclima.com> - e-mail: info@ventilclima.com



ISO 9001:2000 - Cert. n. 1368/1

WALL-MOUNTED WATER-FILLED FAN COILS

MI VEMA 0107-0 VEN GB