![farho — Intelligent Heating logo]

THERMAL RADIATOR VICTORIA

INSTRUCTIONS FOR INSTALLATION AND OPERATION

WARNING

Please read carefully and thoroughly through the following instructions and retain them for future reference.

It is recommended that the installation of this thermal radiator is performed by a qualified electrician.

CONTENT

CORRECT USE OF THE RADIATOR

- Comfort temperature varies from one individual to another, even depending upon the level of physical activity. However, 21ºC tends to be regarded as the most appropriate temperature indoors. For information purposes, every degree Celsius over 21ºC could lead to an increase in energy consumption of up to 7%.

- Raising the setpoint temperature does not mean comfort temperature will be achieved more rapidly, so it is recommended to choose a temperature close to 21ºC and wait for the radiator to heat the room.

- Use the radiator when necessary. With the help of the programming, the radiator can stay activated the desired time, without exceeding.

IMPORTANT

END OF THE RADIATOR'S USEFUL LIFE

When disposing of the radiator, it must be taken to a waste recycling centre, as it contains oil, which can be harmful to the environment.

GENERAL INFORMATION

Thank you for purchasing the VICTORIA thermal radiator. It has been manufactured in a modern procedure of serial production. It is known for its elegant style, its user friendliness, its great heat output and its safe use and operation.

It has been designed and manufactured in accordance with all the requirements of household appliances complying with standards EN60335-1, EN60335-2-30 and EN55014.

A thermal radiator is a device which serves to consume electric current, transforming it into heat and emitting it in the site which is going to be heated according to the user's temperature requirements.
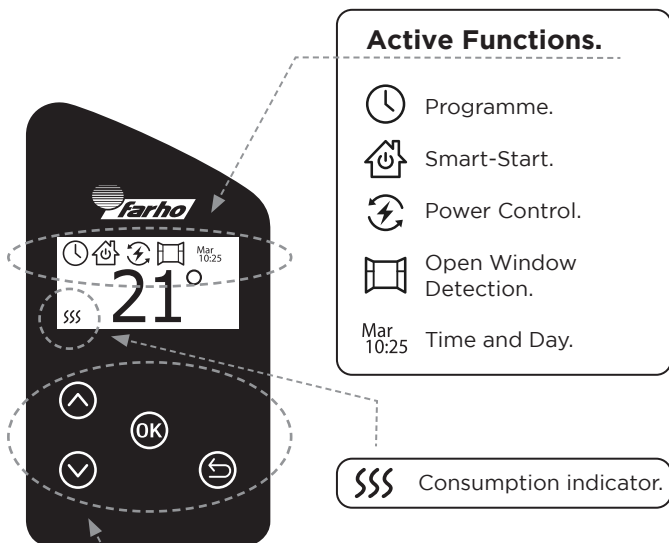
When appropriately dimensioned, the thermal radiator generates sufficient temperature to heat the room where it is placed, to the user's complete satisfaction. A properly insulated house constitutes, of course, a significant advantage and will help decrease heating expenses.

Once your heating system is installed, you will want to ensure that the heat remains into your house. This is the reason why insulation is so important.

Apart from adding value to the house, insulation prevents your money from escaping through the doors, roof, outside walls, windows, etc. Thus, if we install appropriate insulation in roofs and facades, weather-strip windows or change single-paned windows for double-glazed ones, cold will remain outside, whereas heat will stay in. Besides, a well-insulated house is comfortably cooler in the summer.
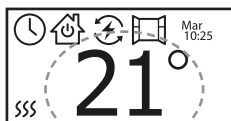
DO NOT COVER the surface of the radiator, as it will be hot. Inflammable objects or with risk of fire MUST NOT BE PLACED on the surface or close to it. For this reason, we won't put clothes, towels, magazines, spray cans or volatile substances within 25 cm of the radiator.

Active Functions.

$\bigcirc$ Programme.

$\langle \mbox{} \rangle$ Smart-Start.

$\mathcal{F}$ Power Control.

$\square$ Open Window Detection.

Mar 10:25 Time and Day.

farho

$\bigcirc \langle \mbox{} \rangle \mathcal{F} \square$ Mar 10:25

21°

sss

SSS Consumption indicator.

Active Functions.

$\bigwedge$ Scroll up selection.

$\bigvee$ Scroll down selection.

(OK) Accept / Enter the menu.

$\bigcirc$ Return / Cancel .

When activating the screen in this zone, room temperature will be displayed.

Pressing ⌃ or ⌄ setpoint temperature will be displayed.

Pressing OK the options of the menu will be displayed, listed beside.

Booster Function.

Setup menu.

Open Window Detection.

Power Control.

Advanced settings.

Install.

Information.

Date/Time.

Language.

Reset.

Programmes.

Open Window Detection Deactivated.

Open Window Detection Activated.

See Programmes.

Edit Programmes.

Smart-Start Function.

PROGRAMMING

1. **First, update date and time of the radiator**
   (MENU – ADVANCED SETTINGS – TIME).

2. **ENTER THE PROGRAMMES**
   (MENU – PROGRAMMES – OK).

3. **USE THE NAVIGATION ARROWS $\wedge$ AND $\vee$ to access EDIT and press OK:**
   - Select the days of the week which will share the same programming, pressing ok in each one of them. Then, scroll down to "next" and press OK.
   - Start time, finish time and desired temperature will be requested for this period. Once introduced, press OK. A blank time slot will be shown, repeat this step to set it up.
   - Up to 6 time slots can be introduced from 00 h to 24 h, repeating the previous step. If you do not want more than 2 or 3 time slots, the rest will be automatically configured with anti-freeze temperature (5ºC).
   - Unscheduled periods will be automatically configured with anti-freeze temperature.

4. **TO SEE RECORDED PROGRAMMES.**
   - Enter MENU – PROGRAMMES. Using the arrows, search for SEE and click OK.
   - Select the day of the week you want to see and click OK.

START SCREEN

Room temperature will be shown on the start screen, as well as icons for Smart Start, open windows detection and power control, in case they are activated.

Clicking up and down buttons you will be able to edit the setpoint value. In manual mode, the heater will keep that value until further modification. With the active programmes, the current section will be cancelled and the heater will keep the set point value introduced manually until entering a new programme section.

When clicking the OK button you will enter the main menu.

After a few seconds without touching the buttons, the heater will turn off the display.

You can access the main menu clicking OK in the start screen.

Boost.

- Boost mode allows the heater to emit heat during the time indicated in the counter, regardless of the setpoint temperature or programming. Once boost time has finished, the heater will go back to the previous mode.

- Boost mode can be cancelled any time by pressing the Cancel button.

- Initially, boost mode's counter will be 30 minutes long, but it can be increased or reduced in fractions of 5 minutes by pressing the up and down buttons.

Programmes.

Programmes On/Off.

- Press OK to activate or deactivate time programming. With time programming activated, the heater will modify its setpoint as indicated in the time lots previously configured. In those time periods without a configured slot, setpoint temperature will be anti-freeze temperature.

- If the programmes are deactivated, the setpoint will remain invariable until there is a new manual modification done by the user.

See.

- Choose the day and the 6 programmes' configurable periods are shown on-screen, with their starting time, ending time and operation setpoint.

Edit.

- With the checks, choose one or several days in which you want to put the same programming and then select "Next",

- In the time periods' configuration screen, choose the first empty slot or select an existing one in order to edit it.

- You will be asked for the start time, end time and setpoint temperature. Programming is for a whole day starting at 00:00 and ending at 24:00 (end of slot time 00:00 will be considered to be 24:00).

Unscheduled slots will be automatically configured with anti-freeze temperature of +5º.

- In case of any confusion at some point and if the back arrow pops up, you can use up and down buttons to recover some of the programmed information.

- To delete a slot, select it and modify the start time so that two hyphens emerge"- -" and press OK. When deleting a slot or selecting "00:00" as end time, all the slots below will be deleted. Once modified, scroll up or down until no slot is selected, and you will find an arrow to go back.

- By clicking OK, all selected periods will be saved.

Smart Start.

- From the programmes menu, you can activate Smart Start. With it activated and according to an automatic learning process, the heater will anticipate the start time of the programme slot so that at the start time established by the user in the setpoint temperature programme it already is the desired one for the slot.

- The feature of Smart Start can take some days to auto-adjust due to an automatic learning process. The heater has to calculate how much time before it must be turned on on the basis of the room temperature, the desired setpoint and the estimated time for the room to be heated.

CONFIGURATION

In the setup menu, more unusual settings of the heater can be modified.

Open Window Detection.

- With the up and down buttons this feature can be activated or deactivated.

- The heater can detect if a window has been opened in the room and pause the heating a maximum of 15 minutes or until it detects the window has been closed.

ADVANCED SETTINGS

The least usual settings which will mainly be performed in the setting up of the heater are displayed in this menu.

Install.

- The heater can be controlled remotely using an application and the online control module Mi-Vic Farho.

- In order to add the heater to the Mi-Vic Farho module, indicate through the app the zone where you want to install the heater and launch the installation process there. Then, in the heater, press OK once the Install icon has been selected. The screen will display when the process has been completed successfully.

Information.

- Date and time, firmware versión, system ID and heater ID within the system (in case it has been installed in a MI-Vic Farho module), and IDU (Unique identifier) will be displayed in this section.

Time.

- Press to set the current date and time. It is only necessary if time programming is to be used.
  (Menu – Advanced Settings – Time).

Language.

- In this menu, the heater's interface language can be changed.
  (Menu – Advanced Settings – Language).

Reset.

- In order to reset the heater to its factory settings you must enter this menu and follow the instructions displayed on-screen.

UPDATING HEATER'S FIRMWARE

- The heater's firmware can be updated without the need to send the instrument to factory. For that, it is necessary to have the internet control module Mi-Vic Farho.

- In the start-up, the heater always verifies if the firmware updating process has been launched.

ADDITIONAL FEATURES OF THE APP

Power Control.

• Power control menu allows you to select the heater's power value and its priority in case the consumed power limit is reached by the heating system.

• The heater's power will be indicated on its rating label and the precise value defined there must be introduced.

• Priority level can be established in one of the 3 possible values.

O: Highest priority -> the heater is always activated, whether or not the available power limit for the system has been reached or not.

1: High priority -> the heater is only activated if there is available power, but in case there is not, it will prioritize its activation over other heaters with low priority.

2: Low priority -> the heater is only activated if there is available power and other heaters with high priority are not requesting activation.

Setting Geo Fence.

• Setpoints can be configured when the mobile device in which the heater's control system app is installed and configured, enters or leaves a specific location.

• Select the centre of the circle which defines the Geo Fence by pressing the button "Save my current location".

• Next, select the geo fencing circle radius. It may be different for entering the area and for leaving it. Geo Fence scenes will be triggered when getting closer or moving away from the indicated km in this section.

• Finally, indicate in the scenes the setpoint to which the heaters are to be configured when entering or leaving the geo-fenced area.

Modifying temperature's calibration probe.

• In order to modify the temperature's calibration probe of a heater we must access "Air conditioning", choose the area where the heater we want to modify is installed, select the button "Advanced settings" and then press "Adjust temperature sensor". A list of all the heaters in the area will be displayed, as well as the offset value. Press the Offset value (OFF if there is no modification of the read value) and select the desired value.

WHAT HAPPENS IF THE RADIATOR DOES NOT EMIT HEAT

If the room temperature is less than the setpoint and the radiator does not emit heat, the reason may be one of the following:

• Check the power supply of the radiator.

• The heater is working but it is too early to perceive thermal comfort. Check if the consumption indicator is visible and wait a few minutes.

• Consumption indicator is not visible but room temperature is higher than the operation preset temperature. Switch off the heater, wait a few seconds and switch it on again.

• Only in case of having the module Ml-Vic: the power control may have been configured. Verify the available power, the power assigned to the heater and its priority.

• If the reason why the radiator does not heat is none of the previous mentioned ones, please contact Farho's Technical Service by calling **985.514.082.**
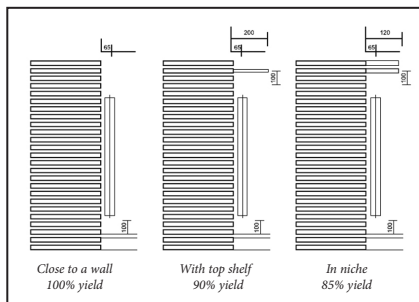
INSTRUCTIONS FOR THE INSTALLER

POWER SUPPLY:

• Farho radiator requires a current supply of 230 V.

• All Farho Victoria radiator are supplied with a standard interchangeable power cord.

• If the cord is too long or short, it can be substituted by another one, with IEC plug and maximum supported power of 16A.

• The power cord must not touch any hot part of the radiator. In order to ensure this, gutters, clips or some other type of securing component will be employed.

• In order to disconnect the radiator, perform the inverse operation of the one previously mentioned. The radiator will be installed under the applicable laws of the country where it is installed.
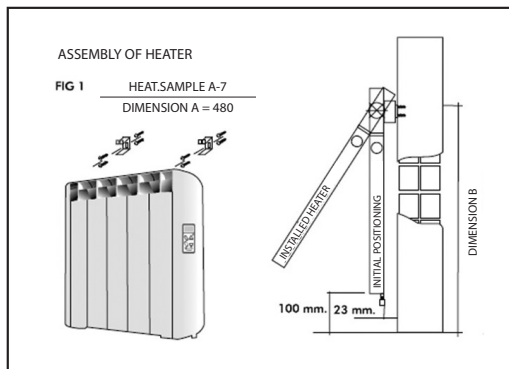
POSITIONING:

• The ideal positioning for the radiator is to place it as close as possible to the facing that suffers most heat loss. It is not recommended to place the heaters on uninsulated exterior facing walls. If necessary, a reinforcement in the insulation of the surface onto which the heater is to be fitted must be added.

• In the bathrooms, radiator will not be installed within de protection volume reflected in the applicable laws of the country where it is installed.

• When choosing the positioning, the minimum distances indicated in figure 1 will be respected.

Close to a wall
100% yield

With top shelf
90% yield

In niche
85% yield

ASSEMBLY:

- The radiator will be mechanically attached to the wall through its upper side with specifically designed wall-mounting brackets which are supplied with the heater. These brackets will have an axle distance (dimension A) that is shown in table 1 and a distance from the ground (dimension B) of between 600 and 620mm.

ASSEMBLY OF HEATER

FIG 1   HEAT.SAMPLE A-7
DIMENSION A = 480

INSTALLED HEATER

INITIAL POSITIONING

DIMENSION B

100 mm. | 23 mm.

CONSERVATION:

- Under no circumstances shall the radiator be covered.

- "DO NOT COVER" / "NO CUBRIR" serves as a reminder for the user. Air should be freely able to enter into contact with all the heater's surfaces.

- A damp cloth must be used for cleaning the radiator, and liquid detergent with NEUTRAL PH may be added, always ensuring the radiator are DISCONNECTED.

WARRANTY TERMS

- Farho guarantees a proper functioning of the appliance, the data of which appear hearin. For your safety, before beginning installation, the instructions of every product must be taken into account.

- The guarantees offered by Farho, provided that the radiator are installed under the applicable laws of the country, are as follows:

Country	Aluminium body	Electronics
Spain	20 years	2 years
Europe	10 years	2 years
Other countries	5 years	2 years

- During the first **6 months** from the acquisition date, the present guarantee covers free repair of any defect of the radiator and of any damages or harm related to it. Both delivery fees and labour costs will be free for the client. During this period, if the reparation performed were not satisfactory and the radiator were not in perfect condition to fulfill the purpose to which it had been acquired, the holder of the guarantee shall be entitled to receive a replacement of the acquired appliance for other with the same characteristics, and if this were not possible, a refund of the price paid for that product.

- During the **first 6 months** the previous term, Farho will replace any piece or defective component without any charge for the user, also including delivery to factory and labour.

- **From the second year**, for any fault in the **ELECTRONIC PART** Farho puts at the disposal of the user their Technical Service in factory to handle any repair, but both delivery and labour costs must be covered by the client.

- Regarding the **ALUMINIUM BODY**, Technical Service warranty, including labour, is extended up to 20 years in Spain, 10 in the rest of the European countries and 5 in all remaining countries.

WARNING: Farho will not cover the damages caused by the possible appearance of marks on the walls and ceilings of houses which are prone to dirt, dusty environments or any other circumstances of the place where the radiator is located.

CAUSES EXCLUDED BY THIS WARRANTY:

- Faults provoked by atmospheric phenomena or geological features (frosts, storms, rain, etc.) as well as those stemming from inadequate voltage.

- Pieces or components damaged in the transportation, installation or during use.

- Cleaning operations in the heater or its components motivated by dirt, oils, fumes and soots, among other circumstances of the place where it is installed.

- Modification in Farho's original products, without consulting the factory or using replacement parts not specified by it.

Farho
Intelligent Heating

WARNING

Please read carefully and thoroughly through the following instructions and retain them for future reference.

It is recommended that the installation of this thermal radiator is performed by a qualified electrician.

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Intelligent Heating

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THERMAL RADIATOR FARHO

XP ☐	AN ☐	NOVA ☐	N.º SERIE: _____
LST ☐	LPA ☐	NOVA LT ☐	W: _____
Ecg ☐	LPD ☐	NOVA CR ☐	A: _____
Otros ☐	VIC ☐	NOVA LT C ☐	Tensión 220/230 V 50/60 Hz

DISTRIBUTOR: _____

DATE OF PURCHASE: _____

INSTALLER:

NAME: _____

ADDRESS: _____

TELEPHONE: _____ EMAIL: _____

INSTALLER:

NAME: _____

ADDRESS: _____

STARTUP DATE: _____

INSTALLER'S NUMBER AND SEAL: