New Vela Electric - Wi-Fi & Bluetooth

Radiatore elettrico
Electric radiator
Radiateur électrique

600 mm
1800 mm

DISEGNI TECNICI / TECHNICAL DRAWINGS / DESSINS TECHNIQUES

Fig. 1 - Cavo di alimentazione/Power cable/Câble électrique

Fig. 2: Classificazione della sala bagno/Bathroom classification/Classification de la salle de bain

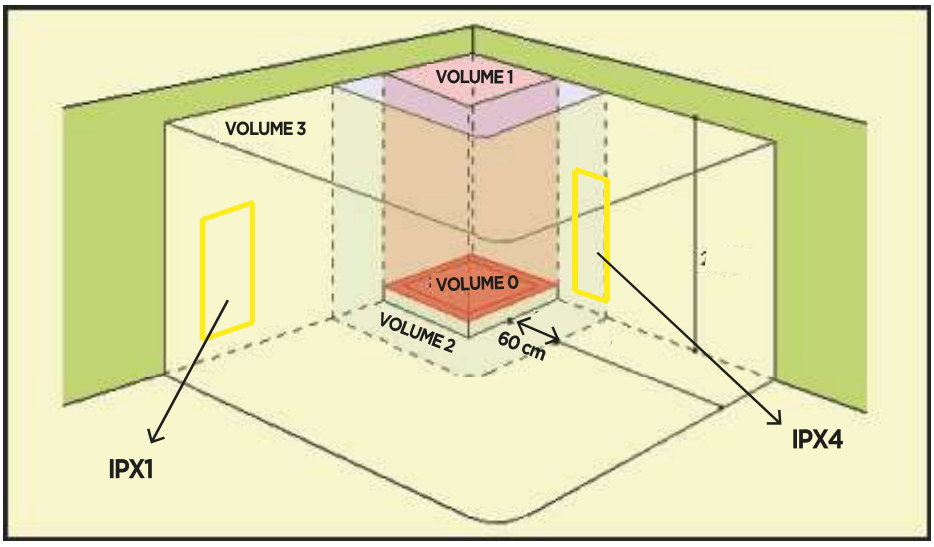
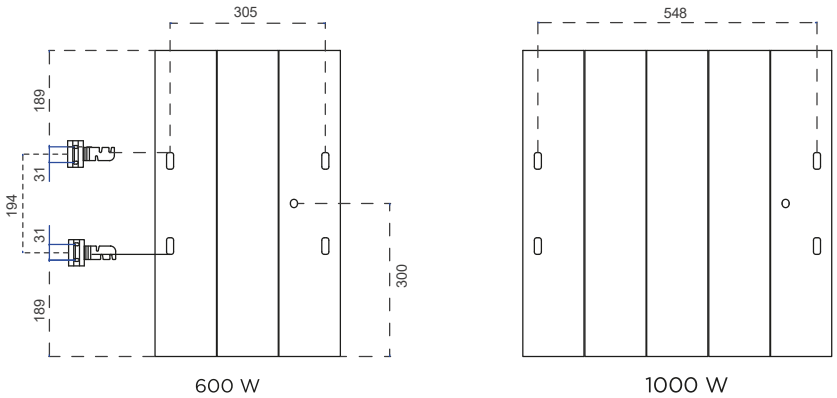


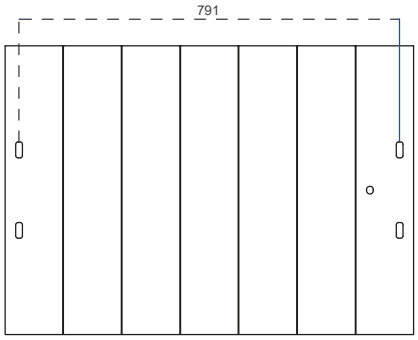
Fig: 3 - Versione/version **600 mm**

Vista frontale / Frontal view / Vue de face

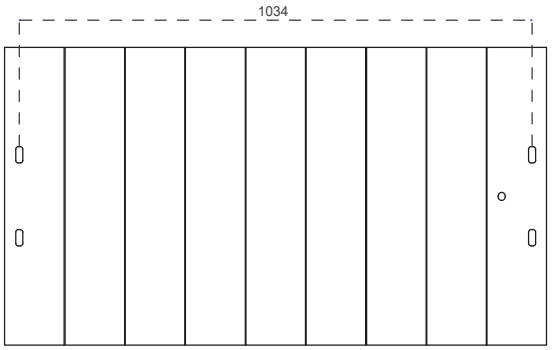


600 W

1000 W

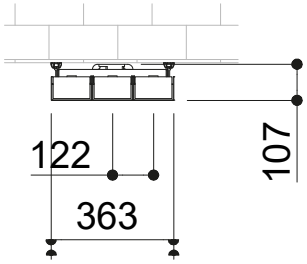


1400 W



1800 W

Vista dal basso / Bottom view / Vue de dessous

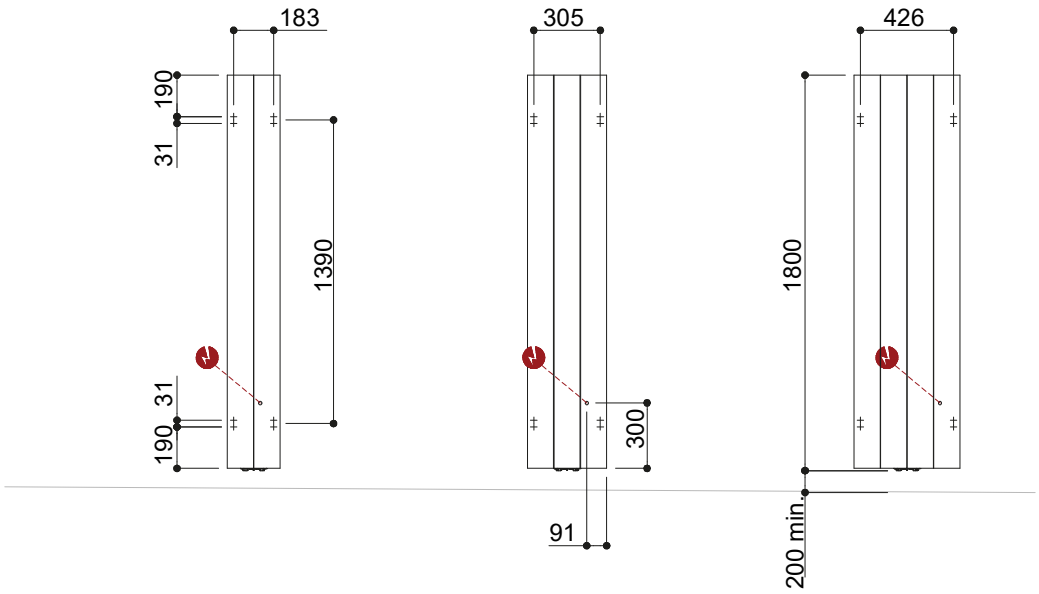


Il disegno si riferisce al modello 600 W.
Per le altre dimensioni vedere la tabella sotto.
The drawing refers to the 600 W model.
For other dimensions see the table below.
Le dessin fait référence au modèle 600 W.
Pour les autres dimensions, voir le tableau ci-dessous.

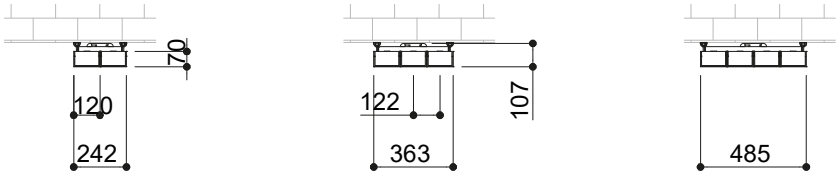
POTENZA ELETTRICA ***ELECTRIC POWER*** ***PUISSANCE*** **(W)**	**DIMENSIONI** ***DIMENSIONS*** ***TAILLE*** **(mm)**	**NUMERO DI ELEMENTI** ***NUMBER OF ELEMENTS*** ***NOMBRE D'ÉLÉMENTS***
600 w	363x600x70 mm	3
1000 w	606x600x70 mm	5
1400 w	849x600x70 mm	7
1800 w	1092x600x70 mm	9

Fig: 3a - Versione/version **1800 mm**

Vista frontale / Frontal view / Vue de face



Vista dal basso / Bottom view / Vue de dessous



POTENZA ELETTRICA *ELECTRIC POWER PUISSANCE* **(W)**	**DIMENSIONI** *DIMENSIONS TAILLE* **(mm)**	**NUMERO DI ELEMENTI** *NUMBER OF ELEMENTS NOMBRE D'ÉLÉMENTS*
1500 w	363x1800x70 mm	3
2000 w	485x1800x70 mm	4

Fig. 4 - Fori di fissaggio/
Fixing holes/
Trous de fixation

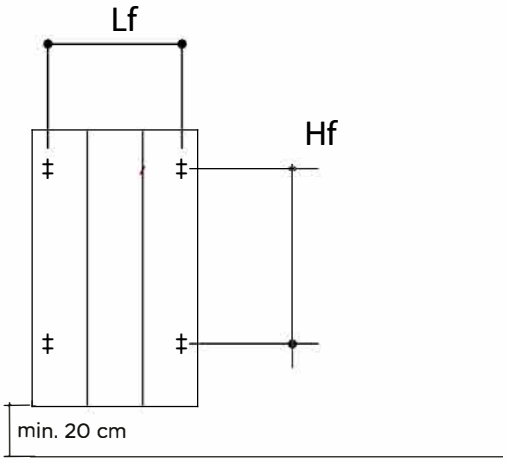
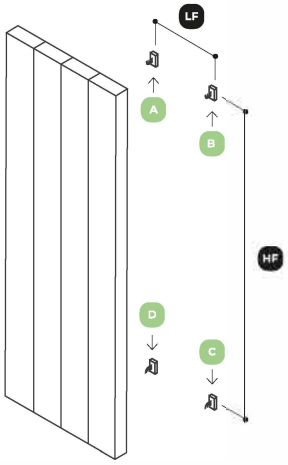


Fig. 4a - Fori di fissaggio
(verso di montaggio delle staffe)/
Fixing holes (direction of the brackets)/
Trous de fixation (directions des supports)



L'immagine e le proporzioni del radiatore sono indicative/
The image and proportions of the radiator are indicative/
L'image et les proportions du radiateur sont indicatifs

Fig. 5 - Staffe a muro/Wall brackets/Supports

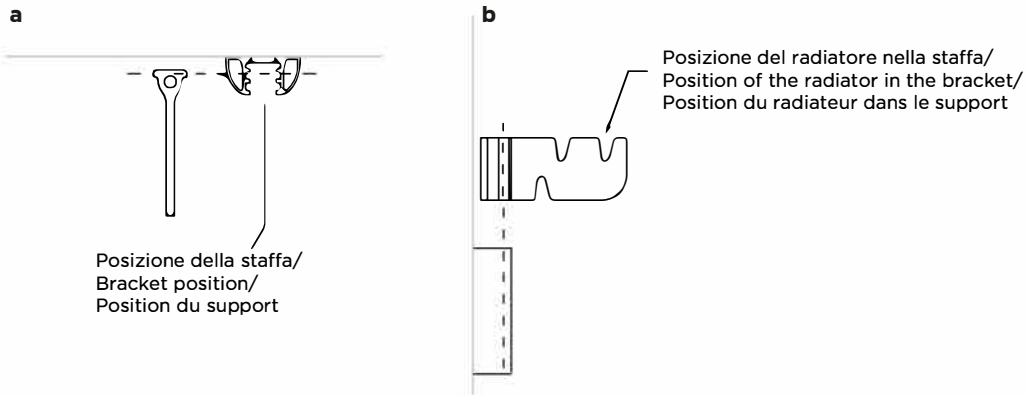


Fig. 6 - Termostato SMART/SMART thermostat

Fig. 7 - Aggiungere il radiatore/Add the radiator/Ajouter le radiateur

a

Fig. 8 - Mode STAND BY

b

Fig. 9 - Mode FIL PILOT

c

Fig. 10 - Mode COMFORT

Fig. 11 - Mode NIGHT

Fig. 12 - Antifreeze

Fig. 13 - Mode Programme

Fig. 14 - Boost 2H

Fig. 15 - Rilevatore di finestre aperte/
Open window detection/Detecteur de fenêtres ouvertes

Fig. 16 - Wi-Fi

a

b

c

Fig. 17- Telecomando remoto/
Remote control/Télécommande

Fig. 18 - Smaltimento/
Disposal/Disposition

WARNINGS AND PRECAUTIONS

Read all of the warnings and precautions carefully.

- The radiator works at 230V. Make sure that the system voltage matches.
- The radiator belongs to Class I and electrical IP rating IPX4; do not fit any electrical connection ignoring these safety rules.
- Make sure you have the power required indicated on the data plate for the radiator to work.

WARNING: To avoid dangerous overheating, never under no circumstances cover the device. Never obstruct the air flow by inserting material into the device.
Never cover the thermostat in any way.

SAFE USE

• The radiator can be used by children under 8 years old or by people with reduced physical, sensory or mental abilities, or without the necessary experience or knowledge, provided that they are supervised or after having received the instructions for use of the appliance and after having understood the dangers linked to it. Children must not play with the appliance. Product cleaning and maintenance must not be carried out by unsupervised children.
• Children between 3 and 8 years old must only turn the appliance on/off provided that it has been placed in the normal operating position, they are supervised and they have received instructions on how to use the appliance safely and understand the dangers linked to using the appliance.
• The electric heater must be installed in a sheltered place possible contact with water and control devices and electrical controls should not be worn people in bathtubs, showers or near water points.
• A disconnect switch is mandatory.
• ll contacts must be separated by at least 3mm.
• It is mandatory that the fuel system to which the regulator is connected to an extra sensitive differential protection.
• The power cable must be connected to a socket or connection block, which must be at least 25 cm off the ground (without intermediate plugs) for devices sold without plugs.
• The radiator must not be placed immediately under a fixed socket.
• If the power cable is damaged, it must be replaced by the manufacturer's after-sales service or by a person with similar qualification, to prevent any risks.

• This radiator's protection system is designed to prevent direct access to the electric heating elements and must be kept in its position during use.
• The electric radiator must be installed away from possible contact with water and the electrical command and control devices must not be within reach of people having a bath, shower or in a situation in contact with water.

CAUTION!!!

Some parts of the product can reach a very high temperature and can cause burns.

INSTALLATION

Carefully read all of the instructions and measures for correct installation of the radiator.

- Make the electrical connections only after fixing the radiator to the wall.
- The connections must only be made by qualified and expert personnel in compliance with the regulations in force and using certified materials.
- Do not try to manipulate the radiator's body or the electrical boxes. If you encounter any problems, contact your dealer. The cable supplied is made specifically for the application. Do not try to replace this cable with any other inappropriate cable.
- In compliance with the installation rules, a switch must be provided in the power supply unit that ensures omnipolar disconnection of the mains, with a contact opening gap, that completely cuts off under the conditions covered by overvoltage category III.
- If the radiator load is higher than that indicated on the data plate of the command or control system (thermostat switch or control contact), insert a power release device or a properly sized contactor.
- The appliance's power supply circuit must be protected;
- For appliances without a socket, follow these colours: [Fig. 1]

L	N	B
Phase (brown)	Neutre (blue or grey)	Cable (yellow/green)

- In the bathroom, it can be installed in zone 3 (see figure 1) provided that the control device cannot be used by people while using the shower or bath.

TECHNICAL SHEET - Vela Electric 600 mm [Fig. 3]

MODEL	PIANO II 600/3	PIANO II 600/5	PIANO II 600/7	PIANO II 600/9
Electric power	600 W	1000 W	1400 W	1800 W
Power supply	230V +/- 10% 50Hz			
Insulation class	CLASSE I			
Protection degree	IPX4			
Dimensions L x H x P	363x600x70 mm	606x600x70 mm	849x600x70 mm	1092x600x70 mm
Fixing holes HfxLf [Height x Lenght]	194x305 mm	194x548 mm	194x791 mm	194x1034 mm
Lenght/ Type of electric cable	Total lenght 1,6mt / 3x1 mmq			
Service temperature	0 - 30°C			
Storage temperature	0 - 50°C			
Humidity	0 - 85 % with no condensation			
Regulation type	Thermostat, microprocessor with weekly program, open window detection			
Temperature control field	7 - 30°C			
Certification	CE			
Packaging content	4 wall brackets - 8 Fischer fixings for concrete, solid bricks, hollow bricks, compact stone.			

TOOLS REQUIRED FOR INSTALLATION

- Phillips screwdriver (if using the sockets supplied)
- Drill
- 8 mm wall drill (if using the plugs supplied).

CHARACTERISTICS OF THE APPLIANCE: appliance protected against water jets Classe I

INSTALLATION REQUIREMENTS

Install the radiator 20 cm from the ground.
The product is not to be recessed. If installed near a wall,
respect the minimum distance of 10 cm to the left and to the right.

TECHNICAL SHEET - Vela Electric 1800 mm [Fig. 3a]

MODEL	PIANO II 1800/3	PIANO II 1800/4
Electric power	1500 W	2000 W
Power supply	230V +/- 10% 50Hz	
Insulation class	CLASSE I	
Protection degree	IPX4	
Dimensions L x H x P	363x1800x70 mm	485x1800x70 mm
Fixing holes LfxHf [Lenght x Height]	305x1390 mm	426x1390 mm
Lenght/ Type of electric cable	Total lenght 1,6mt / 3x1 mmq	
Service temperature	0 - 30°C	
Storage temperature	0 - 50°C	
Humidity	0 - 85 % with no condensation	
Regulation type	Thermostat, microprocessor with weekly program, open window detection	
Temperature control field	7 - 30°C	
Certification	CE	
Packaging content	4 wall brackets - 8 Fischer fixings for concrete, solid bricks, hollow bricks, compact stone.	

TOOLS REQUIRED FOR INSTALLATION

- Phillips screwdriver (if using the sockets supplied)
- Drill
- 8 mm wall drill (if using the plugs supplied).

CHARACTERISTICS OF THE APPLIANCE: appliance protected against water jets Classe I

INSTALLATION REQUIREMENTS

Install the radiator 20 cm from the ground.
The product is not to be recessed. If installed near a wall,
respect the minimum distance of 10 cm to the left and to the right.

WALL MOUNTING INSTRUCTIONS

- Drill the wall considering Lf [hole length] and Hf [hole height] [Fig. 4 and 4a].
- Screw in the 4 rails.
- Fix the two top wall brackets facing upwards (the screws must be inserted in the bracket, but not fully screwed). (A) [fig.4a A et B]
- Insert a bottom wall brackets facing upwards (the screw must be inserted in the bracket, but not fully screwed). (B) [fig.4a C et D]
- Mount the radiator by attaching it to the two top brackets. [Fig. 5]
- Insert the two bottom wall brackets between the radiator's elements.
- Tighten all of the screws

Insert the 2 lower wall supports in the direction opposite to prevent the wall radiator from tipping over.

MAINTENANCE

• If there is a fault, contact your dealer. Do not alter the product in any way; any disassembly or any opening compromises the safety of the product. We do not accept any liability for accidents due to any kind of manipulation carried out on the electrical appliance.
• Do not intervene on the appliance during operation.
• Before cleaning it in any way, make sure that the electric radiator is at room temperature and the circuit is disconnected.
• Clean with a damp cloth without using aggressive or abrasive cleaning products that could compromise the appliance's coating.

HOW TO USE THE THERMOSTAT

[Fig. 6]

The thermostat has two buttons:
1) CONNECTION: to connect a smartphone or a remote control; [Fig. 7a]
2) STAND-BY (Stand by or comfort 20 ° C). [Fig. 7b]

OPERATING MODES: Stand-by, Fil Pilot, Comfort, Night,
Antifreeze, Programmable Thermostat, BOOST 2H, ECO, detection of open windows, ASC.

LED: each function corresponds to a LED light of a different color on the electronics, as following:

OPERATING MODES	COLORS
STAND-BY	green
FIL-PILOT	flashing green
CONFORT	red
NIGHT	flashing red
BOOST 2H	flashing blue
ANTIFREEZE	blue
CHRONO	flashing green (different speed)

The blue LED indicates Bluetooth data traffic, not Wifi.

Each time the thermostat receives a Bluetooth command, this is signaled sial by the blue LED that gives an acoustic signal.

WARNING!
The thermostat receives the date and time from the mobile phone or the remote control with each Bluetooth connection and from the server on every Wi-Fi connection.

For an immediate update of date and time it is recommended to connect the thermostat once through Bluetooth.

RADIATORI 2000 SMART APP

The Radiatori 2000 smart thermostat communicates bidirectional with the free RADIATORI 2000 SMART app, available for smartphones and tablets compatible with systems iOS and Android.
The application connects to the thermostat via Bluetooth or via the module Wi-Fi with encrypted authentication to the home router for remote control.

CONNECTING THE THERMOSTAT TO THE APP

1) The first use of the application requires the creation of a account: only email address is required.
2) Press the Wi-Fi button on the thermostat. There will appear a blue flashing light;
3) Add the radiator with the + ADD ONE button on the screen of the smartphone. Each radiator will be inserted automatically with the name ONE. [Fig. 7]
4) Rename each radiator with the desired name by selecting it;
5) Once you have registered all the radiators in the house, you can start to control each of them by touching the name of the radiator to control.

FUNCTIONS

The following functions can only be managed via an application or the remote control.

1. STAND-BY [Fig. 8]

In STAND-BY mode, the radiator does not heat up.

2. MODE FIL PILOTE [Fig. 9]

FIL PILOT is a special communication protocol that allows the radiator to be managed by a special control unit. **NOTE: this connection is only possible for Class II models supplied without plug.** The modes are managed by the central, while the temperature setting is managed by the user on the chronothermostat.

6 types of command are recognized.

1) Comfort : set point = comfort mode temperature.
2) Night reduction : set point = comfort -3.5°C
3) ECO1 : set point = comfort -1°C
4) ECO2 : set point = comfort -2°C
5) Antifreeze: set point = 7°C
6) Stop: no temperature regulation, radiator off. Mode STAND-BY.

The reference temperatures are those defined in comfort mode.

3. MODE COMFORT [Fig. 10]

In Comfort mode, you can set the desired temperature with the app or the remote control. The radiator remains ON until the set temperature is reached. The Comfort program is indicated by the r**ed light**. The selected temperature is also used for the weekly program (par. 9) as a comfort level and in FIL PILOTE mode (par. 2) as a comfort temperature point.

4. NIGHT MODE [Fig. 11]

In Night mode, you can set the desired temperature with the app or the remote control. This temperature is independent from the comfort temperature. The NIGHT program is indicated by the **blue light**. The selected temperature is also used for the weekly program (par. 9) as night level temperature.

5. ANTIFREEZE (blue led) [Fig. 12]

In this operating mode, the temperature cannot be adjusted by the user, but is fixed at 7 ° C. The antifreeze mode is indicated by the **flashing blue light**. This mode prevents the ambient temperature from falling below 7 ° C.

6. MODE PROGRAM [Fig. 13]

Radiatori 2000 Smart is a 24/7 programmable thermostat.
In this operating mode, the thermostat regulates the temperature according to the daily program, using comfort temperature or night setback temperature programmed. The function is indicated by the **flashing green light**. The selected temperature is displayed on the screen of the smartphone.
To program the thermostat, go to paragraph 9.

7. BOOST 2H [Fig. 14]

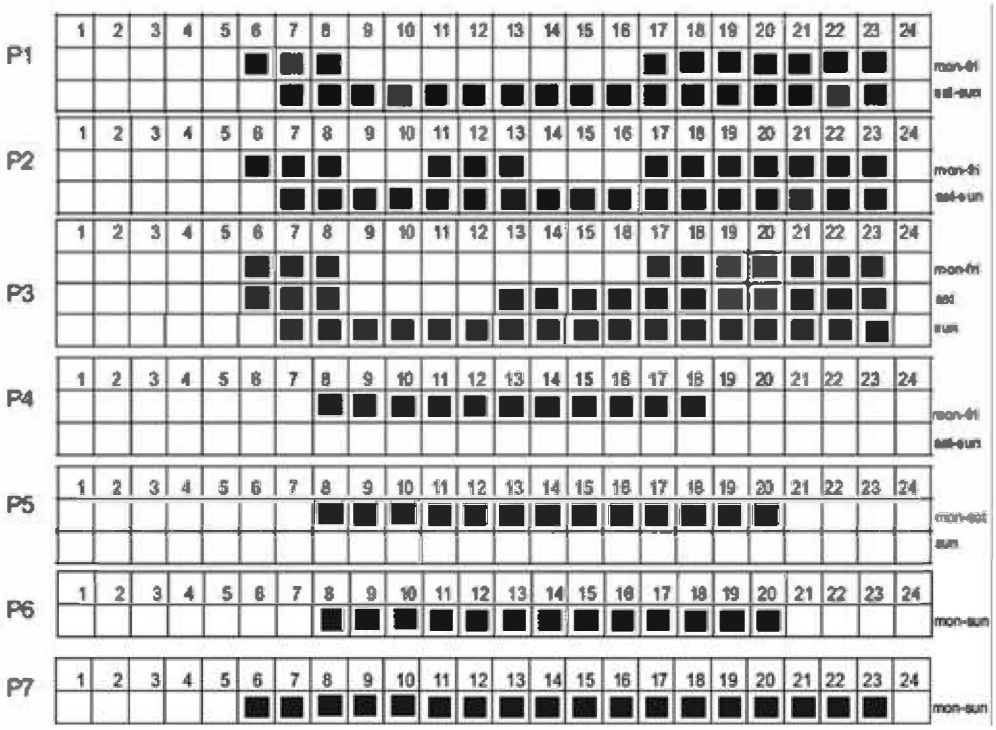
This mode can be used to heat the environment quickly. The device is delivered on full power for 2 hours with a temperature set at 30 ° C. BOOST 2H mode it is configured to stop automatically after a period of 2 hours and return to operating mode previously defined. If necessary, the user can return to other modes in any moment simply by selecting them.

8. OPEN WINDOW DETECTION [Fig. 15]

The function can detect the open window state. The function is activated when the temperature drops quickly, (when a window is open in the room). When the window open state is detected, the screen displays the window icon and the radiator goes to antifreeze at 7 ° C. The status automatically ends if the window closure is detected.

9. WEEKLY PROGRAM 24H/24 ET 7/7 days

The thermostat has 7 preset programs and 2 user customizable programs.
To use the programmable mode, select the CHRONO icon. [Fig. 14]
Here below the diagrams of the 7 predefined programs. The black boxes correspond to the comfort temperature; the white boxes to the night reduction.



With programs P8 and P9, it is possible to define a personalized calendar for each day of the week. From day 1, select the desired sequence to choose, for every hour, to have the temperature "COMFORT" (full boxes) or "NIGHT" (empty boxes).
Repeat the same procedure for the remaining 6 days of the week.

WI-FI MODULE

To activate the Wi-Fi module and control the domestic radiators remotely, proceed as following:

1) Go to the Wi-Fi area of the application [Fig. 16a];
2) Select *ADD WI-FI* [Fig. 16b];
3) Select *ADD THERMOSTAT NOT YET CONNECTED TO THE HOME NETWORK* [Fig. 16c];
4) Activate the Wi-Fi of the smartphone / tablet;
5) Connect to the thermostat's Wi-Fi network;
6) The application will ask you to connect to the home network.
7) Enter the password for the home router. (**ATTENTION**: if you enter a password wrong pass, activate RESET procedure: press the connection button on the thermostat for 15 seconds.)
8) Select *ADD WI-FI* again [Fig. 16b];
9) Select *ADD THERMOSTAT ALREADY CONNECTED TO THE HOME NETWORK* [Fig. 16c];
10) At this point, scan the QR code provided with the thermostat packaging;
11) Rename the radiator as you prefer.

REMOTE CONTROL [Fig. 17]

As an **alternative to the application**, the electronics also communicate with a remote control which can be purchased on request.
The remote control has a wireless connection: it can be portable or attached to the wall near the radiator (**max. 4 meters**).

Using the remote control, it is possible to control the SMART thermostat with the same operating modes: Stand-by, Fil Pilot, Comfort, Night, Antifreeze, Thermostat Programmable, BOOST 2H, ECO, detection of open windows, ASC.

TROUBLESHOOTING

Problème	Cause possible	Solution
The radiator does not heat up	A low temperature is set, or is very close to the room temperature	Check operation of the radiator by adjusting comfort mode to a temperature of 25°C.
	The temperature sensor is covered	Check that the bottom of the radiator is not covered and is at least 20 cm off the ground.

DISPOSAL

A crossed-out wheelie bin symbol on the product means that all electrical products in the European Union are subject to special collection at the end of their life cycle.
DO NOT dispose of these products with unsorted household waste.
At the end of the product's life, the appliance must not be disposed of with common household waste but must be delivered to a special collection centre in the region in question. Alternatively, the product can be returned to the distributor after buying a new appliance of the same type and use. Separate collection of electrical and electronic appliances is an integral part of a policy on preserving, protecting and improving the quality of the environment; this is designed to avoid potentially harmful effects on human health due to the presence of hazardous substances, thus classified by European regulations.

[Fig. 18]

INTERNATIONAL STANDARDS

The manufacturer, Via E. Ferrari, 1 62017 Porto Recanati (MC) Italy
electric panel heater models: , declares that the

Vela 600 mm
Vela 1800 mm

are manufactured in compliance with European Directives: Directive 2014/35/EU and 2014/30/EU. And in compliance with harmonised standards:
- EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019; household and similar electrical appliances, general requirements.
- EN 60335-2-30:2009 + A11:2012 + A1:2020; Safety of household and similar electrical appliances. Part 2 : Particular requirements for room heaters.
- EN 62233:2008
- EN 55014-1: 2000 + A1: 2001 + A2: 2002
- EN 61000-3-2: 2000
- EN 61000-3-3: 1995 +A1: 2001
- EN 55014-2: 1997 + A1: 2001
- EN 61000-4-2: 1995 +A1: 1999 +A2: 2001
- EN 61000-4-4: 1995 +A1: 2001 +A2: 2002
- EN 61000-4-5: 1995 +A1: 2001
- EN 61000-4-6: 1996 +A1: 2001
- EN 61000-4-11: 1994 +A1: 2001

WARRANTY AND CUSTOMER SUPPORT

The aluminium alloy body is guaranteed against manufacturing defects for up to 5 years from the date of purchase.
The electrical and electronic components are guaranteed for 2 years from the date of purchase of the radiator.
The warranty is valid if the product remains intact, without any alteration or modification. The warranty is valid from the date of purchase.
It is nevertheless necessary to keep the invoice or receipt as proof of the date of purchase.

Technical support: Contact your installer for any technical support.

CAUTION!!!
For the warranty to be valid, the installation must comply with the laws and regulations in force and be carried out by a professional installer.
When it is switched on for the first few days, the appliance may have a slight "buzz" caused by the material used inside settling.

This does not imply any problem linked to safety of the item.
The manufacturer reserves the right to make any changes deemed necessary or useful to his products without compromising the essential characteristics of the products themselves.

MADE IN ITALY

REV. 3 - 11/2020