

AMA-THERM®

il calore è di casa!

The present manual is an integrant part of the product and shall be kept adequately in order to maintain its integrity and allow consultation during the life time of the equipment.

Please refer to the present manual before starting any action on the equipment.

The builder has faculty to modify both the production and the user manual, without being obliged to update the previous production and user manuals.

Codice manuale:THCE'160102



The device can be used by children aged less than 8 years, and by people with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, provided under surveillance or after their having received instructions to ' safe use of and understanding of the dangers inherent in it. Children should not play with the appliance. Cleaning and maintenance meant to be performed by the user must not be performed by unsupervised children.

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1. FOREWARD

Dear customer,

Thank you for the preference given to our equipment.

Please carefully follow the instructions given in this manual, it will be instrumental for the optimal use and maintain over time the characteristics of your equipment.

2. GENERAL INFORMATIONS

This user manual is an integral part of the equipment supplied and shall be the indispensable support for the implementation and correct use.

Read it thoroughly and completely before attempting installation and operation of the equipment. The manual must accompany the equipment in case of resale. It is forbidden the partial reproduction of this document without the prior written consent of AMA Composites srl.

2.1. DEFINITIONS AND SYMBOLS

Below is a set of definitions, terminology and symbols used in this manual.

2.1.2. Symbols



NOTE

It gives the indications or important information contained in the manual to read, with a focus, for the best use of the equipment and the result of aesthetic treatment.



DANGER

It indicates a situation that can result in injury or death, or serious damage to health.



CAUTION

It indicates a situation that can result in injury or death, or serious damage to health.



WARNING

It indicates that it is necessary to give special attention to the signs. Failure to observe the warning could result in a hazardous condition or damage.

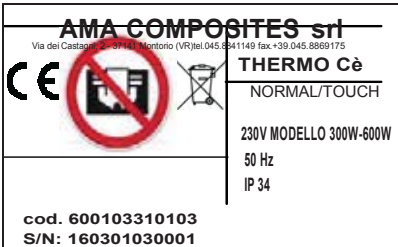




DO NOT COVER

2.2. Identification of the manufacturer

Label located on the back surface of the panel.

Fig. 2.2.1 Example of label

	<p>Address of the manufacturer Mod : Commercial model code cod. : Manufacture model code S/N : Equipment's serial number</p> <p>Electrical data CE Marking stating that the equipment conforms to the applicable European directives in force.</p> <p> waste not to be released in the environment</p> <p> Do not cover</p>
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2.3. Information on technical assistance and maintenance

For requests concerning technical assistance it is necessary to apply directly to:

AMA COMPOSITES srl
 Via Repubblica nr.7 41011
 Campogalliano (MO) ITALY
 Tel.+39) 059.851754 Fax +39) 059.5221161
 Mobile phone : +39-335-350356
www.amacomposites.it www.aeropan.it

For communications or requests for information or spare parts to be received at the service center in the form "ORDER OF SPARE PARTS, FAULT REPORTS, INFORMATION" presented in Annex 1.



In order to keep the guarantee duration the user shall follow scrupulously the instructions indicated in this manual. On contrary case the manufacturer does not answer for possible troubles or working anomalies of the equipment(as this purpose please read carefully the guarantee enclosed to the user manual).



The builder, in order to adapt the equipment to the technologic improvement and/or to the specific needs in sense of production, installation and positioning, may decides without giving any prior notice to carry out modifications on the equipment itself. Therefore, even in case that the pictures contained in this user manual are slightly different from the model of the equipment that you own, safety instructions about it are guaranteed.

3. FEATURES AND TECHNICAL INFORMATIONS

Operating frequency:	50/60Hz
Supply voltage:	230 V~
Classification for the purpose of electrical hazards:	Class I
Human exposure to electromagnetic fields:	Within the current rule limits. The values measured at 30 cm away from the equipment is 18% of the reference limits (EN 62232)
Degree of protection:	IP34

Technical data

Cod. model	Weight (Kg)	Measures (cm)	Power (W)
600103310103 Normal	2,5	30,6 x 100,6 x 2,7	300
600103610106 Normal	4	100,6 x 57,6 x 2,7	600
600103310203 Touch	2,5	33,2 x 100,6 x 2,7	300
600103610206 Touch	4	103,2 x 57,6 x 2,7	600

3.1. Normative requirements

The applicable legislative requirements are:

- 2004/108/CE Directive EMC
- 2006/95/CE Directive LVD
- 2002/95/CE Directive RoHS

National and harmonized standards apply in terms of legislative references above are:

- EN 60335-1 (2004_04)
- EN 60335-2-30 (2004_04)
- EN 60335-2-71 (2007_01)
- EN 62232 (2009_06)

4. GENERAL DESCRIPTION

The equipment type AMA-THERM[®] is a heating device, both for domestic or industrial use, characterised by a low temperature radiating panel with high performance. Among all electric heating systems, THERMO Cè is characterised by its basic design that optimizes the quality/price ratio without renouncing to a high efficiency

5. INSTALLATION AND STORAGE

5.1. Checks at the reception of the equipment

Before any operation, remove carefully the package and check the panel's integrity.



In case that defects or damages are visible, do not install nor try to repair the equipment, but get in touch with the seller, reporting model, code and serial number of the equipment (vd. Fig.2.2.1. Label data).

5.2. Storage



In case of laying-down, even temporary, it is advisable to store the equipment in a dry place and without dust.

6. ASSEMBLY INSTRUCTIONS

6.1. Placement of the panel.

Take particular care to place the panel in order to prevent the surrounding objects can be dangerous temperatures



At the installation a distance of at least 10 cm from the floor and from the ceiling, or from possible selve shall be kept.

Position the panel:

- ✓ at a distance of not less than 30 cm from the side walls and in the case of walls covered with synthetic or inflammable materials not lower than 50 cm
- ✓ to a minimum distance of 30 cm from the windows
- ✓ to a distance not less than 50 cm from animals and flammable materials



The panel's frontal radiating surface shall be free and not covered with objects such as blankets, curtains, armchair, furniture and so on that, besides making the panel useless, may damage it irreparably and provoke fire hazard.

WARNING – To prevent overheating, do not cover the appliance.



Read carefully the user's and maintenance guide before starting the operation of the equipment.







Keep the package away from children and dispose of it according the laws and regulations in force.

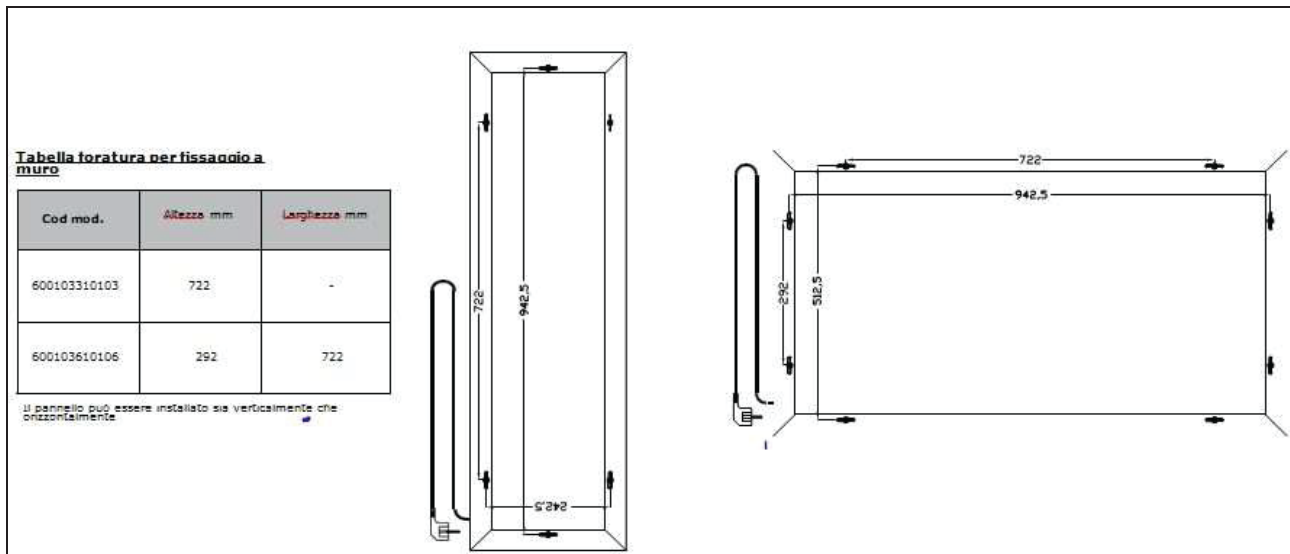
Children under 3 years of age must be kept away unless they are constantly supervised.

Children aged 3 and younger than 8 years old can only turn off or turn on the unit provided it is already installed in the normal position and expected to be controlled or have received instructions on how to use the equipment safely and understand the danger connected.

Children aged from 3 years to less than 8 years old should not connect, adjust and clean the appliance or perform maintenance.

WARNING – Some parts of the product may become hot and cause burns. Particular attention should be given if there are children and vulnerable people.

	<p>Before connecting the panel, check that the data shown on the tag are pursuant to those of the power distribution network (vd. Fig.2.2.1. The tag is located behind the panel).</p>
	<p>Do not place the cable with a curvature less than 50mm.</p> <p>The heating equipment shall not be located straightaway under a plug socket and shall not be installed inside a compartment.</p> <p>If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.</p>
	<p>In case of use inside the bathrooms, the installation shall be made so to avoid that buttons or commands may be touched from who is staying in the bathtub or in the shower</p>
	<p>The panels can be installed with with 4 simple wall plugs (not supplied), or directly on sufficiently strong surfaces to allow fixing with 4 robust self-treading screws. The screw heads should protrude at least 8mm from the wall surface in order to be accepted into the holes on the back of the panel.</p>



6.2. Electrical connection

The power supply is managed by a cable 60227 IEC 53 (H05VV-F)

For use in shipyards use a power cable 60245 IEC 66 (H07RN-F).



The power cord must be positioned or protected so that it is not accessible to animals.



Correct operation and compliance with the safety requirements are guaranteed only if connected to an efficient electrical system manufactured according to current laws (In Italia DLgs. 37/2008¹).

AMA Composites assumes no responsibility for any damage, or to third parties caused by the use of a plant does not comply with current standards

¹ DECREE 22 January 2008 -, n. 37 Regulation on the implementation of Article 11 quaterdecies, paragraph 13, letter a) of Law no. 248 of 2 December 2005 on reorganization of the provisions relating to the installation of systems in buildings.

6.3. Thermostat instruction model THERMO-TOUCH

SWITCHING ON: From central LED with small flash Press the [ON] button for more than 1.5 seconds (one of the 5 LEDs will light)

SWITCHING OFF: Press and hold the [OFF] button for longer than 1.5 seconds (to turn off the LED on and will remain the central LED with small flash)

INCREASE the desired TEMPERATURE: Briefly press the [ON] key (the LED will light next to the one turned to ON)

DECREASE the desired TEMPERATURE : Briefly press the [OFF] (the LED will light next to the one turned to OFF)

FORCED SWITCHING ON: To be turned on (any LED) hold down the [ON] button for more than 5 seconds until the two LEDs will light up at once (the first and the last) .In this way, the thermostat function is bypassed and the panel will go to 100%. This is useful in case of ceiling mounting or if you prefer to handle the panel with a central thermostat wall.

REMOVAL FORCED SWITCHING ON: 2 LEDs lit simultaneously press and hold for over 5 seconds, the [OFF] key

ACTIVATION AND DEACTIVATION OF ALL LEDS OFF: From on, hold SAME TIME 2 buttons until you get a fast central LED flash for both the activation and for the deactivation of the auto-offfunction after 15 seconds of the LEDs

ANTI-FREEZE FUNCTION: The ANTI-FREEZE function is always activated when the panel is powered, so if the temperature drops below 6 ° Centigrade (about) you will get the automatic ignition of the Panel (displayed by a forward and backward scrolling of the level Leds temperature), in order to keep the environment around 6 °

LED	DISPLAYED FUNCTION	ON/OFF
Steady	in regulated heating (Temperature NOT reached)	ON
Quick shutdown	in regulated heating (Temperature reached)	OFF
Quick Power On	Off (Antifreeze above 6 ° C = INACTIVE)	OFF
All lit in sequence	On (Antifreeze below 6 ° C = On in regulation)	ON
N°2 Leds LIT fixed	Forced continuous lit so FIXED	ON
Fast flash	Activation/deactivation Forced off the LEDs after 15 sec.	---

Press Buttons	OBTAINED FUNCTION
[ON] x – di 0,1 Sec.	If turned ON, INCREASE the temperature Regulated (1, 2, 3, 4, 5)
[OFF] x – di 0,1 Sec.	If turned ON, INCREASE the temperature Regulated (1, 2, 3, 4, 5)
[ON] x + di 1,5 Sec.	If turned off, It turns on the heating checked (ON)
[OFF] x + di 1,5 Sec.	If turned on, it turns off the heating checked (OFF)
[ON] x + di 5 Sec.	If turned on, it turns on forcedly the panel in continuous fixed mode
[OFF] x + di 5 Sec.	when lit continuously forced permanently, it turns back on regulated
[ON] e [OFF] both for 3 Sec.	If turned on, active/disactive the forced off of Leds after 15 sec.

7. MAINTENANCE



The following operations should always be implemented when it is not connected to the network and on cold surface.



To clean the radiating panel it is forbidden to use benzene, solvents, corrosive substances or aggressive solvents; if needed, use a humid cloth.

8. DISPOSAL



INFORMATION TO USERS

Under Article. 13 of Legislative Decree 25 July 2005, n. 151 "Implementation of Directives 2002/95 / EC, 2002/96 / EC and 2003/108 / EC, regarding the reduction of hazardous substances in electrical and electronic equipment as well as waste disposal".

This wheeled bin symbol on the product indicates that at the end of its life must be collected separately from other waste. The user must, therefore, take the remote control integrates the essential components that got to its life to the appropriate differentiated collection centers for electronic and electrotechnical waste, or return it to the dealer when purchasing a new appliance of equivalent type, in terms of one by one. Appropriate separate collection for the decommissioned equipment for recycling, processing and environmentally compatible disposal helps prevent negative impact on the environment and human health and promotes recycling of the materials making up the product. Illegal dumping of the product by the user entails the application of administrative sanctions provided by rules in force.

9. WARRANTY

CONDITIONS AND RESTRICTIONS:

The company AMA Composites Srl guarantees the equipment for a period of 24 months.

The warranty begins on the date of purchase indicated on the tax document at the time of the equipment delivery.

The company AMA Composites Srl is committed to repair or replace for free those parts that within the warranty period may have manufacturing faults, the guarantee does not include any form of damages resulting from the direct or indirect damage to persons or things.

Defects not clearly attributable to material or manufacturing will be examined at our Service Center or at our office.

If the complaint proves to be unjustified, all the repair costs and / or replacement of all parts will be charged to the buyer.

The guarantee certificate and the tax document must be presented to the technical staff performing the repair, or must accompany the equipment sent for repair.

The extension of the guarantee following a technical intervention on equipment is excluded. Repairs are carried out by our Technical Service Centre at our offices or authorized centers. The customer only after receiving written authorization from the company AMA Composites Srl will make the return, or equipment or parts of the same, taking care of packaging and shipping free port (with a load of freight charges 'user, unless otherwise agreed). During the warranty's period, if the customer wishes that the repair is carried out by technicians of the firm AMA Composites Srl, must send a written request to the AMA Composites Srl. In such a case will be its total load the costs of transport interventions, room and board.

Are excluded from the warranty accidental damage to transport, neglect, inadequate treatment, use not conforming to guidelines given in this manual or for all those phenomena are not caused by normal operation or use of the equipment.

The warranty is void if the 'equipment has been repaired by unauthorized third parties or if they are used or equipment not supplied, recommended or approved by the firm AMA Composites Srl or in case of removal or alteration of the serial number during the warranty.

The warranty shall immediately cease its effects in case the customer sells the equipment to third parties. Delay or non-payment, even partial, suspending all warranty.

The company AMA Composites Srl disclaims any liability for any damage to persons or property, caused by misuse or faulty use of the equipment.

For any controversy the competent court is the Court of VERONA (ITALY).