THERMAL TECHNOLOGY®

CARBON FIBER HEATING

THERMALWALL UNDER PLASTER MODULAR HEATER FOR INDOOR

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APPLICATION AREA

Under plaster modular heater is ideal for each type of indoor walls, both for new building and renovations. Radiant heating principle of the system does not cause air movement and the bodies are heated directly, thus it is avoided dust and acrid circulation. The system has two standard sizes (see the table).

NO HARMFUL ELECTROMAGNETIC EMISSIONS

OPERATIONAL FEATURES

The application must be performed on the wall, both horizontally or vertically, taking into consideration that the heating side, marked by the label "Lato scaldante/Heating surface", must be oriented towards the room ambiance. Power cord must be inserted into a corrugated tube and placed inside the wall. All electric connections must be introduced inside of a junction box. All the modules are connected to power in parallel, thus the system can operate even in case of partial damage, excluding from supply just one module. The system can be installed also in bathrooms, respecting the warnings from instruction leaflet

HEATER APPLICATION ON A BRICK WALL

APPLICATION OF DOUBLE PLASTERBOARD SHEET WITH HEATER INSIDE

STANDARD MODULES DIMENSIONS

CODE	DIMENSIONS (cm/in)	m² / ft²	POWER
PIR1.A	50X200 / 19.68x78.74	1,00/10.76	390W
PIR1.B	50X150 / 19.68x59.05	0,75/8.07	300W

PLASTER SECTION WITH HEATER APPLIED INSIDE

CARBON FIBER

Carbon fiber is flexible, does not oxidize, does not produce harmful electromagnetic fields during electricity flow, has no dimensional variations as the temperature changes nor deterioration of ohmic values. No wearing and no maintenance required. Its high resistivity permits significant energy savings.

COMPOSITION

Carbon fiber heating cables applied on insulation band, fixed on alkali resistant fiberglass mesh. Total thickness of 5,00 mm (approx. 0,2 in).

TERMPERATURE CONTROL

Activation and deactivation of the heating system can be automatized by aim of an electronic controller (T705) operating with temperature probes, which must be installed in the heated area. Furthermore, the installation of a thermostat or chrono-thermostat is enough to control efficiently the temperature in the room.

MODEL	POWER SUPPLY	POWER	PROTECTION DEGREE	TEMPERATURE CONTROL	CABLES AND CONNECTORS	DIMENSIONS
PIR1	230 Vac 50/60 Hz	390 W/m²	IP67	electronic controller T 705 (see accessories) on demand	Power supply cable	modular (see table)

CONFORMITY

CE

This product is manufactured in conformity with the electrical safety standards set by Low Voltage Directive 2014/35/EU. This product is in conformity with Electromagnetic Compatibility Directive 2014/30/EU, concerning the standards for electromagnetic emissions.