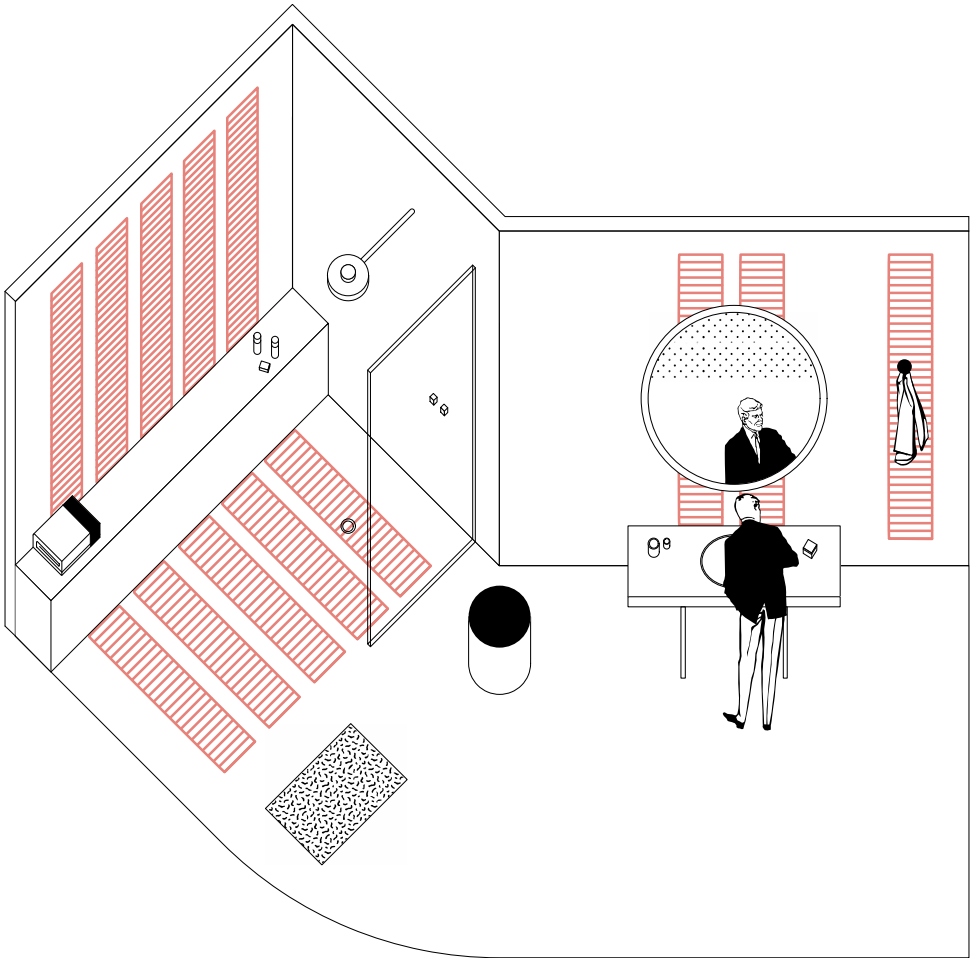


MORE PAD INDOOR

ELECTRICAL INDOOR
RADIANT HEATING SYSTEM



LOW VOLTAGE RADIANT INTEGRATION ELECTRICAL SYSTEMS

- Self-adjusting temperature to 30°C at an ambient temperature of 20°C;
 - Suitable for radiant heating of floors, walls and/or ceilings of rooms, also for discontinuous use.
 - Suitable for heating and defrosting mirrors.
 - Suitable for radiant heating of wet areas, shower cubicles, caldarium areas with any type of final finish.
 - Maintenance-free.
 - Self-adjusting system with automatic load modulation when the maximum surface temperature is reached without external temperature control systems.
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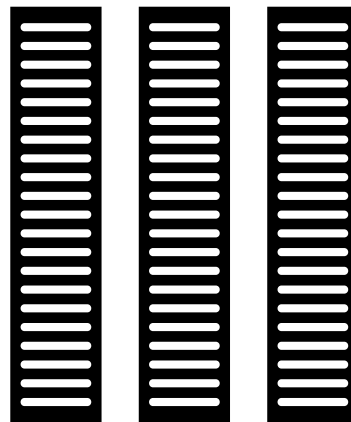
WHAT IS MORE PAD INDOOR

It is a radiant heating system based on the use of a very thin (1.25 mm) mat made with a modulating and self-adjusting semiconductor technopolymer, which heats up when electric current passes through it. The reaction triggered is a molecular vibration of the nanoparticles that generates progressive heating of the semiconducting polymer.

As the temperature of the mat increases, the nanoparticles contained in the polymer compound move away from each other, resulting in a progressive decrease in electrical continuity; the closer the temperature approaches the maximum threshold reached by the polymer, the lower the electrical absorption through the mat.

This characteristic, called PTC (positive temperature coefficient), uses the heating of the material to limit the current flowing through it (and therefore electrical consumption) by gradually increasing the resistance of the semiconductor as the temperature rises.

Therefore, for the same end effect (temperature of the heating element), using this semiconductor technology significantly cuts down on overall power consumption compared to a similar heater with electrical conductors operating through heating resistors, thanks to the natural, automatic modulation and self-adjustment of the end temperature, without any thermostatic control and limiting element.



DESCRIPTION

MORE PAD version powered directly from the 230V AC mains voltage, with a self-adjusted end temperature of approx. 30°C with an ambient temperature of approx. 20°C.

USE INSIDE THE BUILDING

FLOOR

The very low thermal inertia of the radiant element, in the case of dry installation, allows for quick adjustment of the system. Excellent in cases of intermittent or discontinuous management. Direct bonding of the flooring is possible after applying a layer of adhesive with or without a self-leveling cement additive to even out the laying surface.

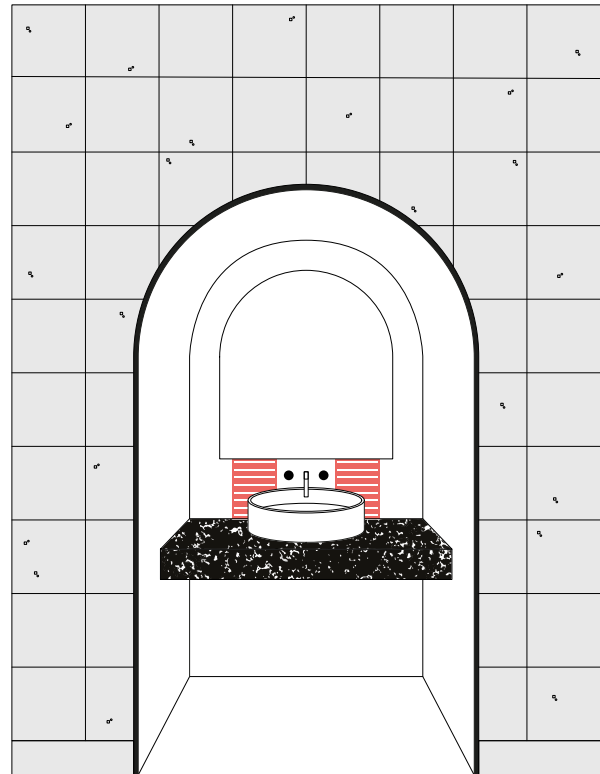
CEILING

The very low thermal inertia of the radiant element results in fast system adjustments. It is possible to apply the heating element and sandwich it dry with a plasterboard finishing panel. Excellent in cases of intermittent or discontinuous management. Excellent in the case of renovations and additions to rooms without a heating system, as a result of the non-invasive work required.

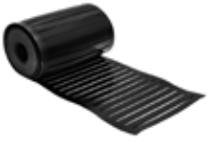







WALL

The very low thermal inertia of the radiant element results in fast system adjustments. The heating element can be applied with a plastered, tiled or drywall finish. Excellent in cases of intermittent or discontinuous management. Excellent for heating shower cubicles, integrating bathrooms and anti-fogging heating of mirrors.

The **MORE PAD INDOOR** can be covered with a normal mirror or the same finish in marble, tiles, plasterboard.



PRODUCT TABLE

	Series	Description
	3857	Electric heating mat with very low voltage 36 VDC and low consumption, made of self-modulating semi-conducting technopolymer for radiant heating on floors, walls and ceilings, with double copper conductor cord embedded in the technopolymer Width 310 mm - Supplied in rolls, length 10/30 m
	3970	Feeder to control very low voltage current modulating utilities with constant output voltage 230VAC/36VDC - Power output 320 W - watertight IP65 SELV
	3858.A	Feeder to control very low voltage current modulating utilities with constant output voltage 230VAC/36VDC - Power output 600 W - watertight IP65 SELV
	3858.B	Feeder to control very low voltage current modulating utilities with constant output voltage 230VAC/36VDC - Power output 1000W
	3859	Protective, thermally conductive sheet, to be laid over the Pad Indoor mat, when the floor installation involves aggressive cements and adhesives and/or when the laying distance exceeds 150 mm in order to favour the uniformity of the surface temperature. Width 700 mm - Supplied in rolls, length 20 m
	3860	Width 700 mm - Supplied in rolls, length 20 m.
	3862	Crimping clamp with flat jaws.
	3861	Double-sided, self-amalgamating bituminous tape for dielectric sealing of the areas affected by the crimping between terminal, electrical cable and technopolymer. Width 30 mm - Supplied in rolls, length 20 m

TECHNICAL FEATURES

Mat PAD INDOOR

Semiconductor material	PE	
Conductor material	copper braid	
Equivalent braid section	5	mm ²
Specific weight of mat	1.15	kg/m ²
Width	310	mm
Thickness	1.2	mm
Roll length	10/30	m
Nominal temperature (at 20°C)	29.8	°C
Max temperature (with limited heat exchange with the environment)	40	°C
Electrical power supply	36	VDC
Rated input power (at 10°C)	28.8	W
Absorption reduction (on reaching the final temp)	-50	%
Max length of single power supply branch	7	m

DRIVER of power supply 320W

electrical power supply	90...305	VAC
controllable rated power	320	W
absorption	8.9	A
feeder driver consumption in stand-by	0.5	W
full load efficiency	94.6	%
adjustable output voltage	36	VDC
feeder electrical protection	IP 65	
type of protection	SELV	
short-circuit protection	YES	
overload protection	YES	
overvoltage protection	YES	
overtemperature protection	YES	
soft-start curve for starting load limitation	YES	
remote on-off consent	YES	
working environment temperature	-40...+70	°C
max. ambient working temperature (peaks)	90	°C
dimensions (LxDxH)	252x90x43.8	mm
feeder weight	1.9	kg

**DRIVER
of power supply
600W**

electrical power supply	90...305	VAC
controllable rated power	601.2	W
absorption	16.7	A
feeder driver consumption in stand-by	0.5	W
full load efficiency	96	%
adjustable output voltage	30.6...378	VDC
feeder electrical protection	IP 65	
type of protection	SELV	
short-circuit protection	YES	
overload protection	YES	
overvoltage protection	YES	
overtemperature protection	YES	
soft-start curve for starting load limitation	YES	
remote on-off consent	YES	
working environment temperature	-40...+55	°C
max. ambient working temperature (peaks)	90	°C
dimensions (LxDxH)	280x144x48.5	mm
feeder weight	3.9	kg

**DRIVER
of power supply
1000W**

electrical power supply	90,264	VAC
controllable rated power	1,008	W
absorption	28	A
feeder driver consumption in stand-by	0.2	W
full load efficiency	95.5	%
adjustable output voltage	36...43.2	VDC
short-circuit protection	YES	
overload protection	YES	
overvoltage protection	YES	
overtemperature protection	YES	
soft-start curve for starting load limitation	YES	
remote on-off consent	YES	
working environment temperature	-30...+50	°C
max. ambient working temperature (peaks)	50	°C
dimensions (LxDxH)	240x111x4.41	mm
feeder weight	1.74	kg

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