



**HEATING SYSTEM
FOR SURFACES
WITH NATURAL OR
ARTIFICIAL GRASS**

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APPLICATION AREA

During cold season the sports field's surfaces with natural or artificial grass become impracticable due to ice and snow deposits; Thermal Technology heater allows to obtain an ideal and evenly distributed temperature on the entire field surface.

NO HARMFUL ELECTROMAGNETIC EMISSIONS

FUNCTIONAL CHARACTERISTICS

The heating system is mounted under grass surface. Heating strips of 1,5 m width, with carbon fiber resistors inserted inside, are mounted at a distance of 15 cm one to each other, performing an efficient heating of the grass layer. The system has an optimal drainage due to 128 holes/sq.m. on the heater surface made of aluminized polyethylene, reflecting the heat of the solar radiation; aluminum adhesive cover, applied above carbon fiber resistors for their fixing, is increasing about 7 times heat exchange between heating system and the sports field, eliminating thus "the hot point effect", harmful for natural and synthetic grass.

CARBON FIBER

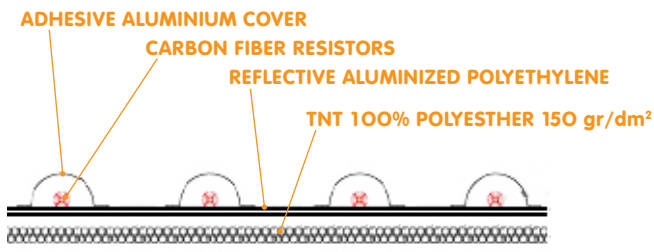
Carbon fiber is flexible, does not oxidize, does not produce harmful electromagnetic fields during electricity flow, has no dimensional variations as the temperature changes nor deterioration of ohmic values. No wearing and no maintenance required. Its high resistivity permits significant energy savings.



ROLLED HEATER



STRATIGRAPHY OF A HEATED FIELD



HEATER COMPOSITION



ELECTRONIC CONTROLLER T705

MATERIAL STRATIFICATION

Material stratification starting with external side:

- Adhesive aluminum cover, 0,5 mm thickness.
- Carbon fiber resistors.
- Reflective aluminized polyethylene, 0,2 mm thickness.
- TNT 100% polyester 150 gr/dm²

TEMPERATURE CONTROL

Each heating strip is powered individually and is equipped with NTC temperature probe: heat activation and deactivation can be automatized using electronic controller T705 (see accessories), equipped with a probe for outdoor temperature for heat activation in case of a rapid and unexpected temperature variation.

MODEL	POWER SUPPLY	POWER	PROTECTION DEGREE	TEMPERATURE CONTROL	CABLE	DIMENSIONS
HTR_GRASS	230 Vac 50/60 Hz or 400 Vac 50/60 Hz	80W/m ²	IP67	Electronic controller T705 (see accessories)	FG7 power supply cable	length 7,00 m width 1,50 m th, 4,00 mm

CONFORMITY



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.

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