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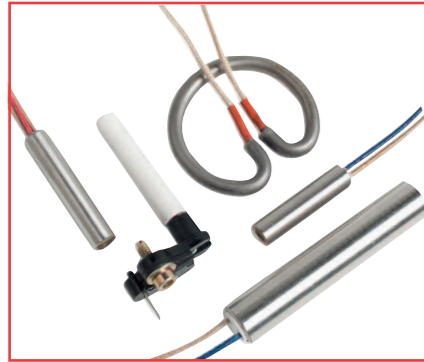
ADVANCED HEATING SOLUTIONS

INDUSTRIAL HEATING PROGRAM

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INDUSTRIAL HEATING PROGRAM

HT SpA produces cartridge heaters and probes for industrial applications. Whatever your problem may be, HT has the right solution! Thanks to the AFS (Always From Stock) range, you will always find products available in stock. The NOW program will on the other hand support you in case of necessity of special heaters, specifically studied on the basis of your needs and available in small batches.

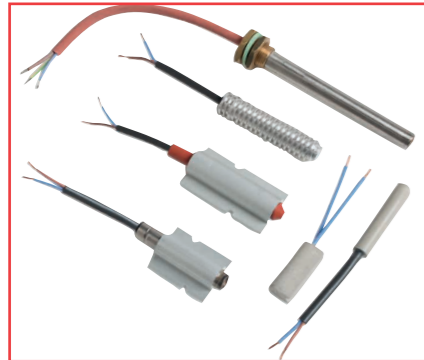


CARTRIDGE HEATERS

HT offers high, medium and low density cartridge heaters, available in a wide range of loadings and voltages, both in metric and imperial. They are suitable for a large number of applications in the industrial field completed with built-in J-type or K-type thermocouples, special leads for high temperatures and/or galvanized flexible protective sleeves. It is also possible to supply the heaters with wattage differentiation. HT can also offer UL-CSA approved cartridge heaters.

APPLICATIONS

*Packaging Systems
Thermoforming and Moulding
Oil compressors
Hot Melt
Glue tanks
Hydraulic systems
Pellet stove heaters*



PTC HEATERS

The self-regulating PTC heater can regulate its output power in function of set temperature (Positive Temperature Coefficient). Thanks to this, there is no need to complete the PTC heater with other safety devices (thermostat or thermal fuses). The PTC heaters, for their prerogative, can be utilized completely immersed in a liquid, inserted in a metallic mass or otherwise in external support for an anti-freeze function.

APPLICATIONS

*Refrigerated counters and displays
Oil/Fuel preheating for burners
Thermo-shrinking applications
Antifreeze for automotive and railway systems
Plate-warming systems
Anti-condensation systems*



HIFLOW

HT HIFLOW is an integrated and compact heating system, ideal for satisfying and solving constant temperature control. The entire range of HIFLOW systems considers application in various industrial fields where thermoregulation is requested through oil or water. The cartridge heater is never in contact with water/oil but heats an aluminium or inox heat sink, that allows a lower working temperature than the traditional system.

APPLICATIONS

*Thermo-regulators
Fluid preheating systems*



AIR HEATERS

HT proposes a wide range of heaters for quick air heating. The particular "T" design of the heater permits the protection of leads from high working temperatures. It is possible to complete the product with a thermocouple or thermo-heater for controlling the air temperature or as security probe. HT can customize the product with special high temperature leads and inlet and outlet air connections according to specific requirements.

APPLICATIONS

*Glue preheating
Thermosealing
Air Process Heaters
Air dryer*



HEAT EXCHANGER

This type of heat exchanger is ideal when it is necessary to optimize the heat exchange between the cartridge heater and the fluid. This heat exchanger is utilized in household coffee machines for espresso coffee and cappuccino, and medical/dental systems for water sterilization and heating.

APPLICATIONS

*Steam generator for coffee machines
Medical sterilization systems
Water heating systems
Fluid preheating systems*



STRIP HEATERS

The strip heaters are designed to transfer the heat to the surfaces. They are constructed using tubes and ceramic cores for high temperature in order to ensure a perfect heat exchange. The finned strip heaters, similar as construction to the standard strip heaters, are provided with metallic fins mechanically locked to maximize the heat exchange surface. The heaters are available in all lengths and also with a built-in thermocouple.

APPLICATIONS

*STRIP HEATERS
Press Machines
Ovens and autoclaves

FINNED STRIP HEATERS
Thermo-shrinking Tunnel
Air Heating
Electric Motors
Electric Panels*



MICROTUBULARS HEATERS

The microtubular heaters meet perfectly the needs to combine high working temperatures with very small sections. They are available in a wide range of sections (round, square and rectangular) also with a built-in thermocouple. They represent the ideal solution to heat nozzles with a small diameter or when the specific power or working temperature reach extremely high values.

APPLICATIONS

*Nozzles
Hot Runner
Packaging and Wrapping
Analysis gas tools
Air Heating*

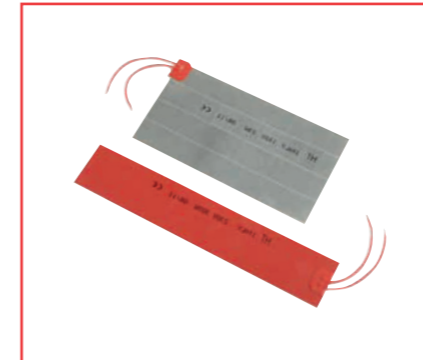


BAND HEATERS

The band heaters are available in steel or brass version to ensure the best choice on each application. The HT band heaters guarantee high operational standards, the maximum protection against the plastic corrosive effects and a total protection to molten material. Available in a wide range of sizes, types of outlets and cables protections for an excellent mechanical strength. Upon request, they can be supplied with the thermocouple.

APPLICATIONS

*Nozzles
Medical Sterilizers
Extrusion of plastic
Drums and tubes heating*

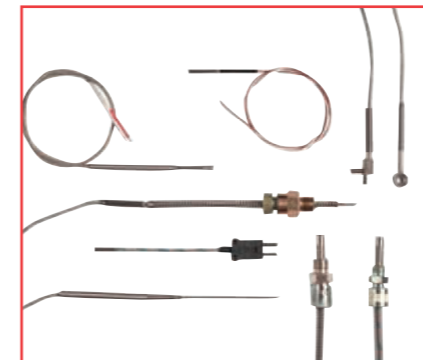


ETCHED FOILS

The flexible HT heaters are available in polyester, silicone and Kapton®. The thermal homogeneity developed over the entire surface allows to prevent the occurrence of any anomalous dilatation. HT guarantees the use of films with high value of adhesiveness to combine an easy assembling with a perfect heat exchange. The maximum working temperatures vary depending on the insulation: 120°C for polyester, 200°C for silicone, 260°C for Kapton®. The possibility to produce "tailor made" products allows to adapt the Etched Foils to several applications.

APPLICATIONS

*Incubators
Autoclaves
Bain-Marie
Press Machines
Mattresses for animal
Plotter*



THERMOCOUPLES AND RESISTANCE THERMOMETERS

HT proposes a wide range of thermocouples and resistance thermometers providing an inexpensive and high quality products. In our catalogues it is possible to single out the optimal product in a wide range of thermocouples type "J" (iron constantan) or "K" (chrome-aluminium) and of resistance thermometers PT100 with 2, 3 or 4 wires. HT always supports its customers in developing, designing and manufacturing temperature sensors even "tailor made" and for small batches.

APPLICATIONS

*Plastic Applications
Medical Applications
Automation
Packaging and wrapping*