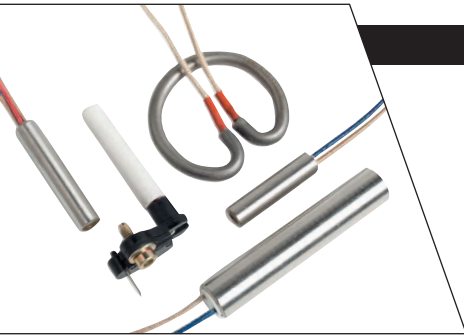


Industrial heating program



*ADVANCED HEATING SOLUTIONS*

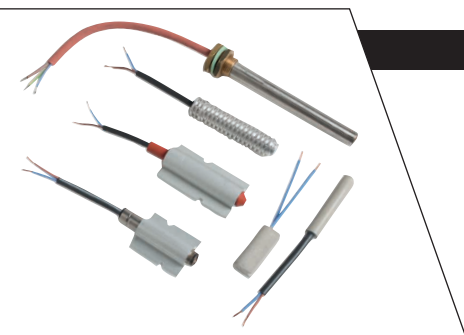


### CARTRIDGE HEATERS

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

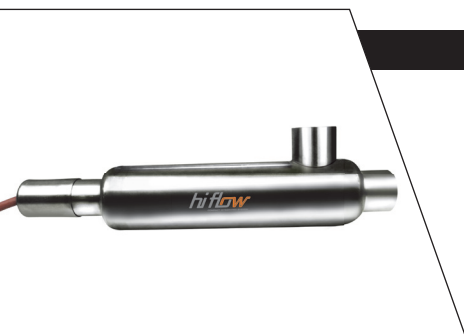


### PTC HEATERS

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 of 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

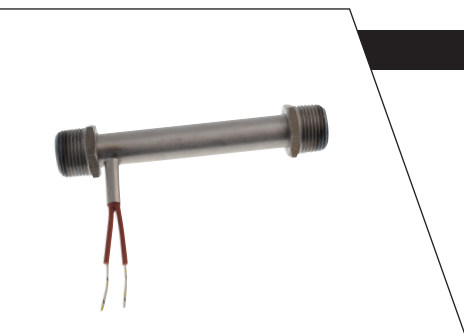


### HIFLOW

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

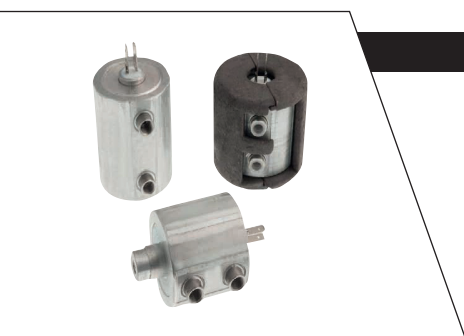


### AIR HEATERS

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




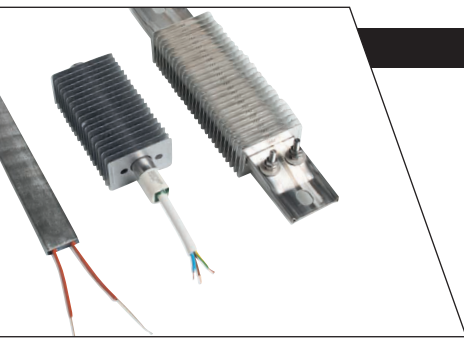
### HEAT EXCHANGER

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

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.



### STRIP HEATERS

The strip heaters are design 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

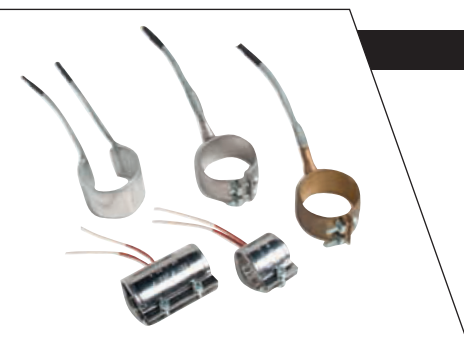


### MICROTUBULARS HEATERS

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

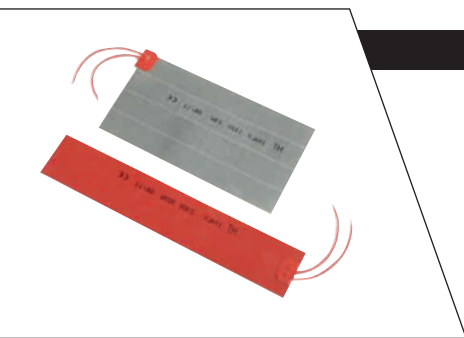


### BAND HEATERS

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 supplied with the thermocouple.

### APPLICATIONS

Nozzles  
Medical Sterilizers  
Extrusion of plastic  
Drums and tubes heating

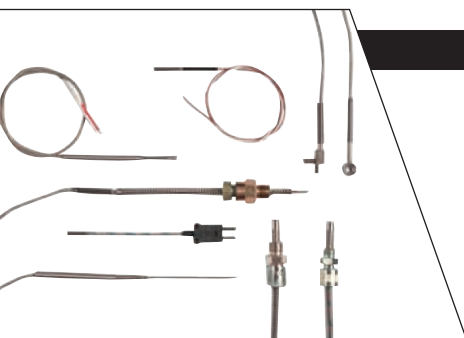


### ETCHED FOILS

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 "taylor 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 o 4 wires. HT always supports its customers in developing, designing and manufacturing temperature sensors even "taylor made" and for small batches.

### APPLICATIONS

Plastic Applications  
Medical Applications  
Automation  
Packaging and wrapping



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