

CARTRIDGE HEATERS

HC THERMAL Cartridge heaters are designed for insertion into a tool, die, mold or various testing equipment. When choosing which type of cartridge heater to install, it is important to determine specific application information. Different factors can effect even heat distribution, watt densities, hole fit and desired part temperature. Insertion cartridge heaters internal components can vary by manufacturer and have adverse effects on final thermal conductivity performance. HC Thermal manufactures various types of electric heating solutions and often integrates cartridge heaters into our systems and can help customers determine what type best fits each application.

Split Sheath Cartridge Heaters



Advantages:

- Better and more even heat distribution
- Higher Watt Densities Available
- Easier removal and replacement (more forgiving hole fit)
- Hot Tip Available
- Variable depth Thermocouple/RTD available

Disadvantages:

- Longer lead time
- Price point on initial purchase is approx. 10-15% Higher

Standard Cartridge Heaters



Advantages:

- Cost Effective
- Readily Available
- Better fit for smaller applications/large volume (Ignitors)
- Smaller sizes range available

Disadvantages:

- Non-continuous heat uniformity on length
- Internal construction limits watt density (Compared to split sheath)
- Many options on the market available and some can be loose filled (bad heat transfer)
- When a failure occurs, often shorts to inside of bore hole
- Hard to remove upon maintenance/replacement
- Requires a tighter hole fit

Applications/Industries:

Tool/Die	Gas Equipment
Oil & Gas	Extruder Die Head
Food/Beverage	Molds
R&D/Lab	Seal Bar Heating
Rubber/Plastics	Packaging Equipment
In-Line	Medical Applications

LONGEST STANDARD WARRANTY IN INDUSTRY

Cryo-Cylinder Gas Heating
 OEM equipment
 Ignitors





Accessories

Internal Thermocouples/RTD's
Screw Plug
Fixed Collar location rings

hole fit charts