

Heat-Edge



CARTRIDGE HEATERS

Description

- Cartridge heaters are some of the most versatile heaters of its kind.
- It is available in various specifications and dimension suitable for different applications.
- Sensing Technology Corporation manufactures and delivers the most diverse

cartridge heater to its large clientele, i.e. the leading industrial manufacturers in the country.

- Sensing Technology Corporation customizes cartridge heaters using premium materials, automated machineries and tight manufacturing controls.
- Manufacturing processes conform to stringent procedures to ensure quality and reliability into the products.

Heater Watt Density

- Cartridge Heater Watt Density is defined as the wattage dissipated per square centimeter of the heated sheath surface.
- For a particular application, a heater watt density governs internal resistance wire temperature, which in turn determines the outer sheath temperature
- These factors are critical to the proper heating and life expectancy of the heater.
- It is always advisable to use heaters that have watt densities below the maximum recommended watt density to get the longest heater life.
- \cdot For most general applications, it is recommended not to exceed a watt density of 20 watts / $\vec{cm}.$

Operating Temperature

- A major factor in determining the life expectancy of a heating element is its operating temperature.
- The heater depends on the actual temperature of the resistance wire within the heater and not on the process operating temperature.
- A lower heater watt density is recommended when applications require high operating temperature.

Semiconductor

Hot plates

Fluid heating

Sealing

Application

- Molds and dies
- Food processing
- Plastic molding
- Packaging equipment
- Hot stamping
- Plastic extruders
- Hot runner molds
- Medical Equipment
- Shoe Machinery

Determining Fit

- At high watt densities, a close fit is an important factor in determining the life expectancy of the heater.
- The fit is the difference between the heater diameter and diameter of the hole.
- A good fit is usually between 0.07mm to 0.15mm.





HEAT-EDGE®

SENSETE"CH@

SWO



STRAIGHT CARTRIDGE HEATER ORDER CODE TABLE



To Order : Please specify the complete assembly, indicate the code letter or value for each option.

Model	Length - L _H	Cold Zone - CZ _H	Diameter - Ø _H	Sheath	Wattage	Supply	Leadwire - LW	Ор	tion	Size	
				S4							
	•										
Madal	1	Description								Description	
		Description							T	Description	
HE - CHS	Cartridge Heater,	Straight						TCK	Туре К,	i nermocoupie, Built in	
HE - CHSF25	Cartridge Heater,	Straight With Fins - Ø	25mm					TCJ	Type J,	Thermocouple, Built In	
HE - CHSF30	Cartridge Heater,	Straight With Fins - \mathcal{Q}	30mm					FF	Fitting Fo	orward	eg 12N
								FR	Fitting R	eversed	eg 34B
								RMF	Round N	Vounting Flange	egØ18mm
								SMF	Square	Mounting Flange	eg 20mm
								BTS	Butt Stop	oper	egØ15mm
								SSA	Stainless	s Steel Armour	eg Ø9.5mm
								BWS	Braided	Wire Sleeve	
								PVCS	PVC Shr	inkable Sleeve	

Example:	

HE - CHS	200	30	15	S4	850	220	500	тск	FF - 12N	SSA
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- Cartridge Heater, Straight
- 200mm..... Length
- 30mm..... Cold Zone
- 15mm..... Diameter
- SS304... Sheath Material
- 850 Watts..... Wattage
- 220 VAC..... Supply
- 500mm..... Lead Wire
- TCK Type K, Thermocouple, Built In
- FF-12N..... Forward Fitting, 1/2" NPT
- SSA... Stainless Steel Armour, Square Locked, Ø 9.5mm