

Electric Immersion Heaters



Features

Heavy Duty Construction

Hubbell electric immersion heaters are constructed using only the highest grade materials and are put through a rigorous quality assurance testing procedure to ensure that each heater conforms to specification.

Wide Selection

Hubbell electric heaters are fabricated in a wide variety of types and styles including cartridge heaters, screw plug heaters, and flanged heaters.

Delivery

Hubbell maintains a large inventory to meet even the most demanding delivery requirements.

Versatility

Hubbell heaters are manufactured to order and can be engineered to meet the exact requirements of a particular application.

APPLICATIONS

- Water Heaters
- Boilers
- Oil Heaters
- Freeze Protection
- OEM Applications
- Storage Tanks
- Railroad Tank Cars
- Process Systems
- Heat Transfer Systems

Electric Immersion Heater Constructed For Long Service Life

Hubbell electric heaters have been in service since 1920. In that time Hubbell engineering, production, and quality control systems have been continually refined to ensure that each electric heater performs to the highest standards. Available in virtually any configuration, Hubbell electric heaters are manufactured to meet the

requirements of the most demanding application. So whatever fluid type you are heating, you will have confidence in knowing that when you specify and install a Hubbell electric heater the owner will be provided with a trouble-free and long lasting product.



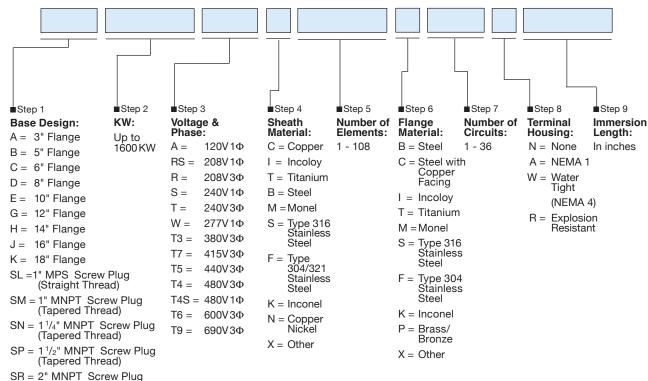
Standard Equipment

- NEMA 1 terminal housing
- Tubulars brazed to flange
- Fitted gasket
- Maximum 48 amp rating per circuit
- Heavy duty factory fitted jumpers
- 80/20 Nickel-chromium resistance wire
- High grade magnesium oxide insulation
- Factory fitted element spacers to prevent excessive rubbing (Only when required)
- Repressed elements to prevent hot spots at tubular bends
- Flange construction to ANSI B16.5 Class 150

Optional Equipment

- Alternate watt density (please specify) to suit specific fluid requirements
- Alternate material construction
- Alternate flange rating
- 4. Built-in thermostat 60-250°F range
- 5. Built-in thermowell
 - 6. Factory installed nonferrous baffle system
- 7. Passivation
- 8. Electropolished finish for high purity
- 9. Terminal hermetic seals
- 10. Military spec conformance to MIL-H-22577
- 11. Individually replaceable element blades
- 12. Welded elements
- 13. Dry side extended cold end
- 14. Flange construction to ANSI B16.5 Class 300

Model Number Designation



Example: D120T4C18B3A52

An electric immersion heater with an 8" 150 Lb. ANSI flange, 120 KW, 480 Volt 3 phase, copper sheathing, 18 elements, steel flange, 3 circuits, NEMA 1 terminal housing, and a total immersed length of 52".

Note: All heaters do not necessarily conform to the model number designation system as stated above.



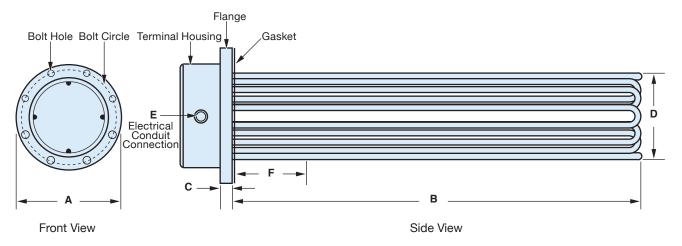
(Tapered Thread)

T = Cartridge Heater

SW = 2¹/₂" MNPT Screw Plug (Tapered Thread)

X = Alternate Configuration, (See Written Specifications)

Outline Dimensions



Please Provide The Following Data For Accurate Sizing.

Dimensi	onal Data:				
Pillensi	viiai Data:		Тен	rminal	
Flange O.D	D.: (A)	inches		Depth:	inches
Immersio	n			rimum	
Length: (B)		inches	Bundle Diameter: (D)		inches
Number of Diameter of Bolt Holes: Bolt Holes:			Electrical Conduit Opening: (E)Qty		NPT
Bolt Circle Diameter		inches	Tubular Diameter:		inches
Flange Thickness: (C)		inches	Cold Length: (F)(unheated)		
Wattage (KW):			Spacers:	☐ Yes ☐ No	
Voltage:	·			Provide details:	
Phase:					
Number of Circuits:	Rated Of equal wattage? Yes No If No, provide details:		Baffles:	Yes No Provide details:	
Number of J-Tubes/Hairpins:		_	Built-in Thermostat:	☐ Yes ☐ No Provide details:	
Sheath Material:	·				
Watt Density:	·				
Flange Material:			Thermowell:		
Liquid Being Heated:				Provide details:	
Terminal Housing:	☐ Standard ☐ Explosion	ht NEMA 4 n Resistant provide class, div p rating)	vision		



JOB NAME		ENGINEER
REPRESENTATIVE		CONTRACTOR
General		
as manufactured by HU ating of Points with Volts a (Specify	JBBELL Electric Heater (XW composed of Example Phase Flange or Screwplug)	co., Stratford, CT. The heater shall have a total circuit(s) of KW each when supplied Hz electrical power. The heater shall be type of size. The heater shall be designed high quality grade materials to ensure a long service life.
Tubular		
Nickel-Chromium resist ongest service life posing on the posing of quality control spend insulated with high the terminal pin is firmly nardware. The tubular stationary of the position of th	tor wire for the element solide. The resistor wire solide. The solide.	tubular elements of " diameter. The properly sized shall be verified by computer calculations to ensure the shall be factory inspected, tested, and verified as meeting g coiled. The resistor wire is to be centered in the sheath de. The magnesium oxide shall be compacted so that maximum torque of 8 inch lbs. when tightening terminal er (\[\begin{aligned} \text{Optional Specifications: } Incoloy, Type 304 or 316 out, Monel, Inconel, Copper-Nickel \) and have a maximum are inch with a " cold section and a total errous element spacers shall be supplied when required.
IEMA 1 enclosure (not) include a terminal h	ousing. The terminal housing shall be a general purpose: Nema 4 watertight, explosion resistant) and supplied with connections of " NPT size each.
In addition, the	heater may be supplied	with the following optional features:
	Built-in thermostat with	
	Built-in thermowell	
	•	couple strapped to the element sheathing
	Factory fitted element	•
•	Passivation of material Electropolishing of ma	
-		perior moisture protection
_	Individually replaceabl	
	Liquid Die Penetrant T	
·	ASME Certification	-
☐ Ontion	Construction to MIL-H	-22577
	Construction to MIL 11	22011
☐ Option☐ Option☐ Option☐		

Warranty

The heater manufacturer shall warranty the entire immersion heating element against defects in workmanship and material for a period of one (1) year from date of start-up, provided that the unit is started within three (3) months of date of shipment and installed and operated within the scope of the heater design and operating capability.



Committed to continuous improvement...

Continuing research results in product improvement; therefore specifications are subject to change without notice. For the most updated information, consult the factory directly.





