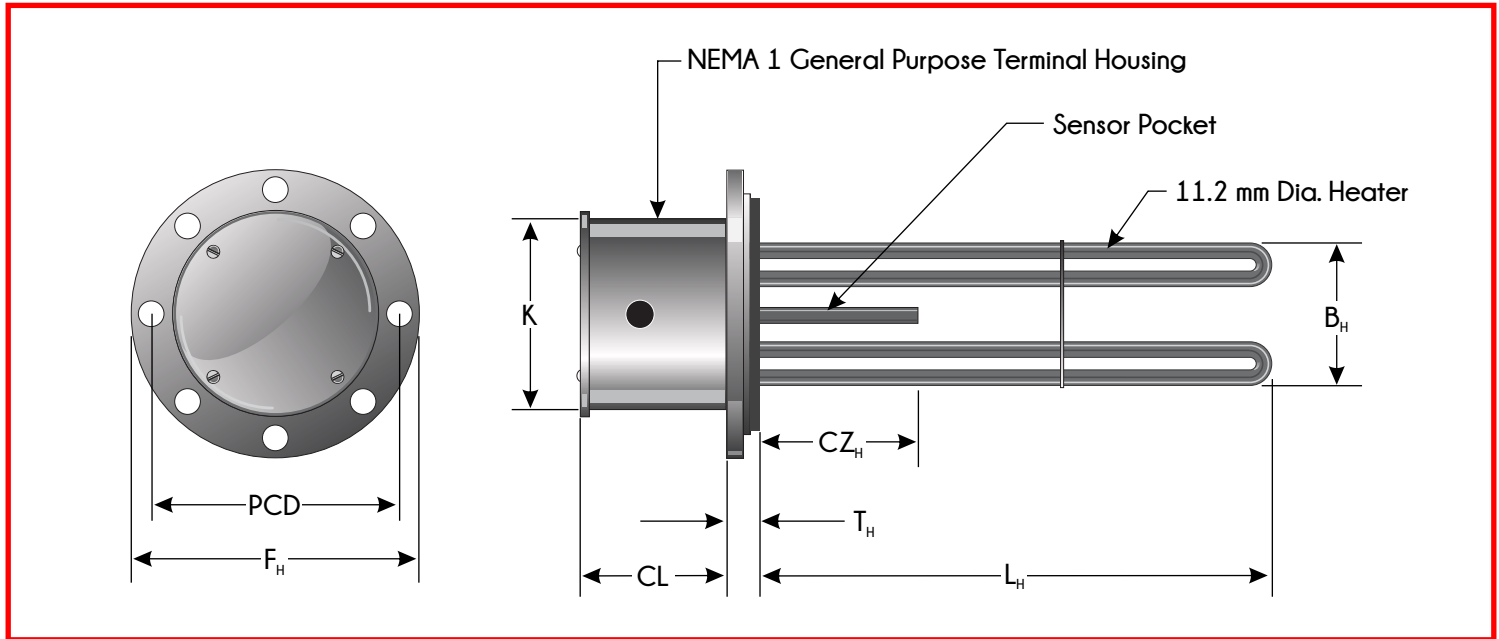


## FLANGE IMMERSION HEATERS



REFERENCE TABLE

Element And Dimensions

Flange Size	Flange Mounting		Flange Thickness "T <sub>H</sub> "	Mounting Bolt Circle "PCD"	Flange Diameter "F <sub>H</sub> "	Cold Zone Length "CZ <sub>H</sub> "	Bundle Diameter "B <sub>H</sub> "	NEMA 1 Housing		Number Of Elements	
	Bolt Hole							"K"	"CL"	Standard	Maximum
ANSI 150 lbs RF	MM	Number	MM	MM	MM	MM	MM	MM	MM		
3	19	4	24	152	191	100	70	117	80	3	6
4	19	8	24	191	229	100	98	152	100	6	6
5	22	8	24	216	254	100	127	178	100	6	9
6	22	8	25	241	279	100	152	203	150	12	15
8	22	8	29	298	343	150	198	254	150	18	24
10	25	12	30	362	406	150	248	295	150	27	36
12	25	12	32	432	483	150	298	343	150	36	54
14	29	12	35	476	533	150	324	384	150	45	72

Heat-Edge® Flanged Immersion Heaters are designed for use in tanks and pressurized vessels to heat both liquids and gases. They mate to female flange that is either welded to a tank wall or, in circulation heaters, to a pipe.

### Design Features

Heat-Edge® have the following features, which makes them suitable for a wide range of applications.

- a. Default, 150 lbs ANSI RF Flange - Mild Steel or SS304 or SS316 steel flanges.
- b. Customised flanges according to customer requirements.
- c. SS304, SS316 and/or Incoloy 840 Elements.
- d. Default, Ø9.5 mm sensor pockets.
- e. Default, built-in Thermostat.
- f. NEMA 1 General Purpose Terminal Housing.

### Construction

Heat-Edge® Flanged Immersion Heaters are constructed with tubular heating elements that are machine compacted, MgO powder insulation to ensure excellent dielectric strength and optimum heat transfer properties.

Hairpin bends are done with specially designed dies to maintain the integrity of the insulation after being formed. The elements are either TIG welded or Silver Brazed to the flange and pressure tested. All electrical wiring are enclosed in a NEMA 1 protective housing.

All Flange immersion heaters are subjected to the following tests.

- |  |  |
|--|--|
| 1. Resistant Test                          | - For Wattage Measurement  |
| 2. Insulation Test                         | - For Leakage Current Resistance                                   |
| 3. High DC Voltage Test                    | - Insulation To Ground/Short Circuits                              |
| 4. Hydrostatic Test, at 12 Bar for 2 hours | - For leakproof test on all weldings of the elements to the flange |

### Industrial Applications

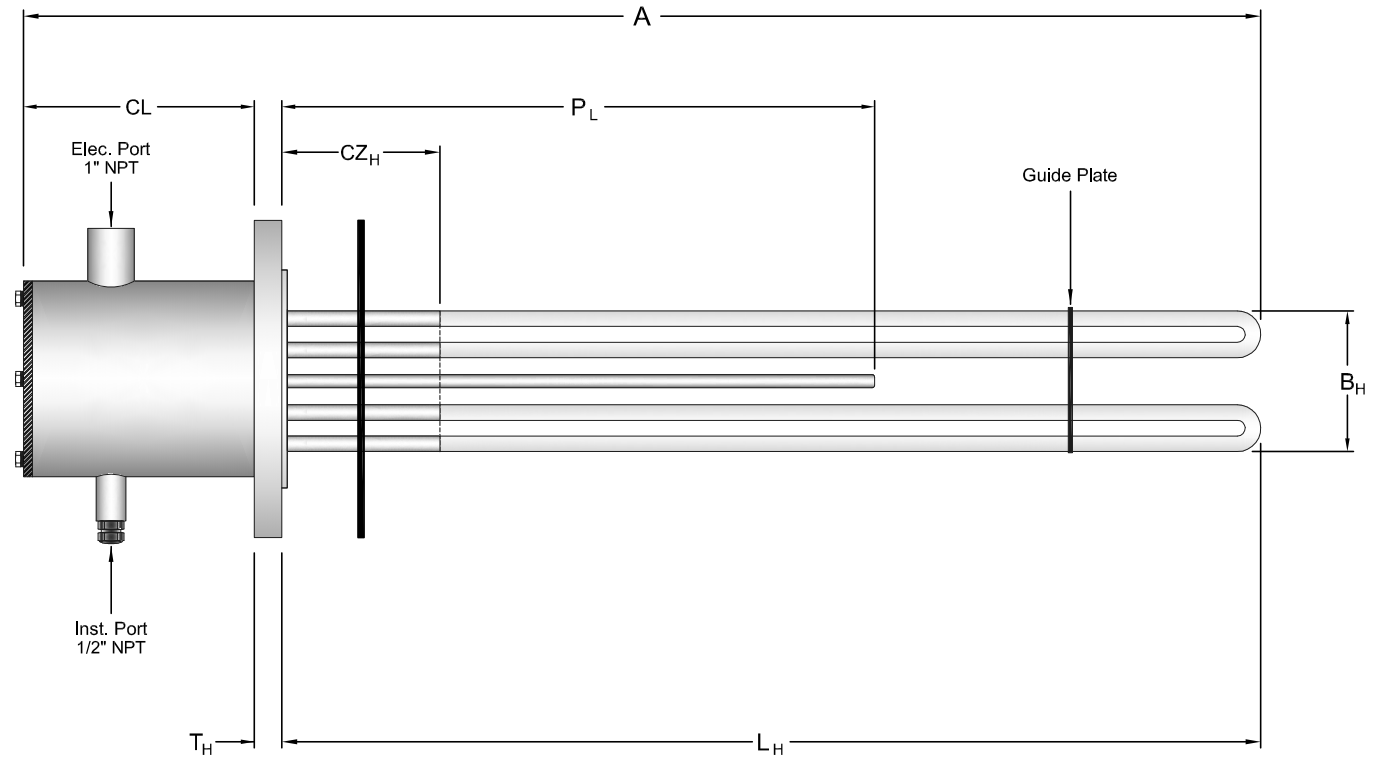
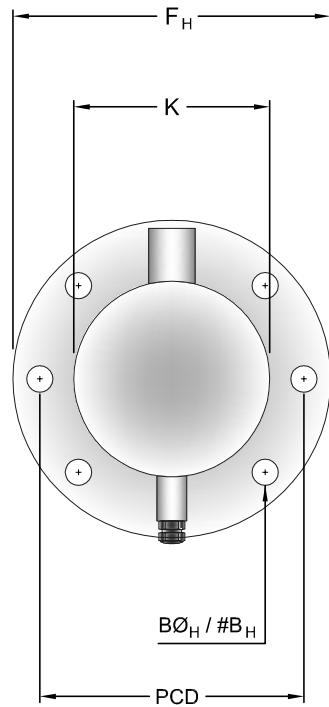
- Hot water tanks
- Boiler heaters
- Asphalt / Bitumen, paraffin, wax heaters
- Oil process heaters
- Heat transfer Oil heaters
- Corrosive and non-corrosive solutions
- Air and Gas heaters
- Heat transfer equipment
- Vapour Degreases

# FLANGED IMMERSION HEATER



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

Model	Flange	Length - L <sub>H</sub>	Cold Zone - CZ <sub>H</sub>	Element(s)	Sheath	Wattage	Supply	Phase	Type	Housing



# FLANGE IMMERSION HEATER ORDER CODE TABLE



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

Model	Flange	Length - L <sub>H</sub>	Cold Zone - CZ <sub>H</sub>	Element(s)	Sheath	Wattage	Supply	Phase	Type	Housing
HE - FI6	MS	835	75	15	S4	24000	440	3P	D	GP

Material	
MS	Mild Steel
S4	Stainless 304
S6	Stainless 316

Material	
S4	Stainless 304
S6	Stainless 316
Inc840	Incoloy 840

Phase	
1P	Single Phase
3P	Three Phase

Type	
GP	NEMA 1 GP Housing

Type	
D	Delta
Y	Wye

Model	Description
HE - FI3	3 " ANSI 150lbs, RF, Flange Immersion Heater
HE - FI4	4 " ANSI 150lbs, RF, Flange Immersion Heater
HE - FI5	5 " ANSI 150lbs, RF, Flange Immersion Heater
HE - FI6	6 " ANSI 150lbs, RF, Flange Immersion Heater
HE - FI8	8 " ANSI 150lbs, RF, Flange Immersion Heater
HE - FI10	10" ANSI 150lbs, RF, Flange Immersion Heater
HE - FI12	12" ANSI 150lbs, RF, Flange Immersion Heater
HE - FI14	14" ANSI 150lbs, RF, Flange Immersion Heater

MEDIUM	
FLOW RATE	CFM
INLET TEMP	°C
OUTLET TEMP	°C
INLET RH	% RH
OUTLET RH	% RH

Example:

HE - FI6	MS	835	75	15	S4	24000	440	3P	D	GP
----------	----	-----	----	----	----	-------	-----	----	---	----

- 6" ANSI 150lbs, RF, Flange Immersion Heater
- Mild Steel Flange
- 835mm Immersion Length
- 75mm Cold Zone
- 15 Elements
- SS304 Sheath Material
- 24,000 Watts... Wattage
- 440 Vac... Supply
- 3 Phase
- Delta Connection
- NEMA 1 General Purpose Housing

REFERENCE TABLE											
Elements And Dimensions											
Flange Size	Flange Mounting		Flange Thickness	Mounting Bolt Circle	Flange Diameter	Cold Zone Length	Bundle Diameter	NEMA 1 Housing		Number Of Elements	
ANSI 150lbs RF	Bolt Hole		T <sub>H</sub>	PCD	F <sub>H</sub>	CZ <sub>H</sub>	B <sub>H</sub>	K	CL	Standard	Maximum
	MM	Number	MM	MM	MM	MM	MM	MM	MM		
3	19	4	24	152	191	100	70	117	80	3	6
4	19	8	24	191	229	100	98	152	100	6	6
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