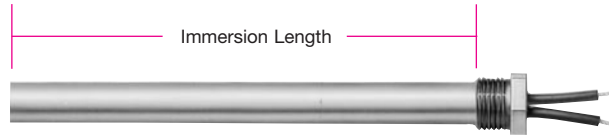




Standard Size Stock Type CM 1/2" & 3/4" NPT Screw Plug Hi-Density Cartridge Immersion Heaters

Hi-Density Cartridge Immersion Heaters are designed for heating water and other liquids. The high watt density capability of this heater permits greater heat dissipation in a given area than would a tubular immersion heater.

However, it is important to note that allowable watt density depends on the material being heated. For water heating, watt densities of several hundred watts per square inch are possible; oil heating may be limited to 5 to 20 watts per square inch.



Design Features

- * Passivated Incoloy® Sheath
- * 10" long Teflon® Insulated Lead Wires
- * Brass Fitting
- * Epoxy Seal at Lead End
266°F (130°C) Standard
UL Rating 194°F (90°C)



Note: See pages 2-50 & 2-51 for other fitting options

| Diameter | Heater Immersion Length | | Watts | Watt Density | | Part Number | | | |
|----------------------|-------------------------|-------|-------|-------------------|-------------------|-------------|----------|----------|----------|
| | in | mm | | W/in ² | W/cm ² | 120V | 240V | 480V | |
| 5/8" Incoloy® Sheath | 1½ | 38.1 | 100 | 41 | 6 | HDL00001 | — | — | |
| | 1½ | 38.1 | 400 | 163 | 25 | — | HDL00002 | — | |
| | 3½ | 88.9 | 250 | 39 | 6 | HDL00003 | HDL00004 | — | |
| | 3½ | 88.9 | 1000 | 157 | 24 | — | HDL00005 | HDL00006 | |
| | 1/2 NPT Fitting | 7¾ | 200.0 | 500 | 33 | 5 | HDL00007 | HDL00008 | — |
| | | 7¾ | 200.0 | 2000 | 134 | 21 | — | HDL00009 | HDL00010 |
| 12 | | 304.8 | 750 | 33 | 5 | HDL00011 | HDL00012 | — | |
| 12 | | 304.8 | 3000 | 130 | 20 | — | HDL00013 | HDL00014 | |
| 3/4" Incoloy® Sheath | 4¼ | 108.0 | 500 | 53 | 8 | HDL00015 | HDL00016 | — | |
| | 4¼ | 108.0 | 750 | 80 | 12 | HDL00017 | HDL00018 | — | |
| | 4¼ | 108.0 | 1000 | 106 | 16 | HDL00019 | HDL00020 | — | |
| | 4¾ | 117.5 | 300 | 29 | 5 | HDL00021 | HDL00022 | — | |
| | 3/4 NPT Fitting | 4¾ | 117.5 | 1200 | 116 | 18 | — | HDL00023 | HDL00024 |
| | | 4¾ | 120.7 | 375 | 35 | 5 | HDL00025 | HDL00026 | — |
| | | 4¾ | 120.7 | 1500 | 141 | 22 | — | HDL00027 | HDL00028 |
| | | 5¾ | 146.1 | 500 | 39 | 6 | HDL00029 | HDL00030 | — |
| | 3/4 NPT Fitting | 5¾ | 146.1 | 2000 | 154 | 24 | — | HDL00031 | HDL00032 |
| | | 6¼ | 158.8 | 500 | 35 | 5 | HDL00033 | HDL00034 | — |
| | | 6¼ | 158.8 | 2000 | 141 | 22 | — | HDL00035 | HDL00036 |
| | | 6½ | 165.1 | 625 | 42 | 7 | HDL00037 | HDL00038 | — |
| 3/4 NPT Fitting | | 6½ | 165.1 | 2500 | 170 | 26 | — | HDL00039 | HDL00040 |
| | | 7¼ | 184.2 | 750 | 45 | 7 | HDL00041 | HDL00042 | — |
| | | 7¼ | 184.2 | 3000 | 182 | 28 | — | HDL00043 | HDL00044 |
| | | 9 | 228.6 | 1000 | 49 | 8 | HDL00045 | HDL00046 | — |
| | | 9 | 228.6 | 4000 | 194 | 30 | — | HDL00047 | HDL00048 |
| | | 10½ | 266.7 | 750 | 31 | 5 | HDL00049 | HDL00050 | — |
| | | 10½ | 266.7 | 3000 | 124 | 19 | — | HDL00051 | HDL00052 |
| | | 10¾ | 273.1 | 1250 | 51 | 8 | HDL00053 | HDL00054 | — |
| 3/4 NPT Fitting | 10¾ | 273.1 | 5000 | 202 | 31 | — | HDL00055 | HDL00056 | |
| | 12½ | 317.5 | 1500 | 52 | 8 | — | HDL00057 | — | |
| | 12½ | 317.5 | 6000 | 208 | 32 | — | — | HDL00058 | |
| | 13¾ | 346.1 | 1000 | 32 | 5 | HDL00059 | HDL00060 | — | |
| | 13¾ | 346.1 | 4000 | 127 | 20 | — | HDL00061 | HDL00062 | |
| | 16 | 406.4 | 2000 | 54 | 8 | — | HDL00063 | — | |
| 16 | 406.4 | 8000 | 216 | 33 | — | — | HDL00064 | | |
| 19¼ | 489.0 | 2500 | 56 | 9 | — | HDL00065 | — | | |
| 19¼ | 489.0 | 10000 | 223 | 35 | — | — | HDL00066 | | |

Ordering Information

Stock Heaters

Part Numbers listed above are for 1/2" and 3/4" NPT Brass Screw Plug Cartridge Immersion Heaters with Type CM termination and 10" long leads. **Standard lead time is 72 hours.**

Custom Engineered/Manufactured Heaters

Because an electric heater can be very application specific, for sizes and ratings not listed, **TEMPCO** will design and manufacture a Cartridge Immersion Heater to meet your requirements. **Standard lead time is 3 weeks.**

Please Specify the following:

- Screw Plug NPT Size
- Screw Plug material (Brass or SS)
- Sheath material (Incoloy®, 321 SS)
- Element Watt Density
- Immersion Length
- Heated Length
- Wattage
- Voltage
- Termination types
- Lead Length

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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