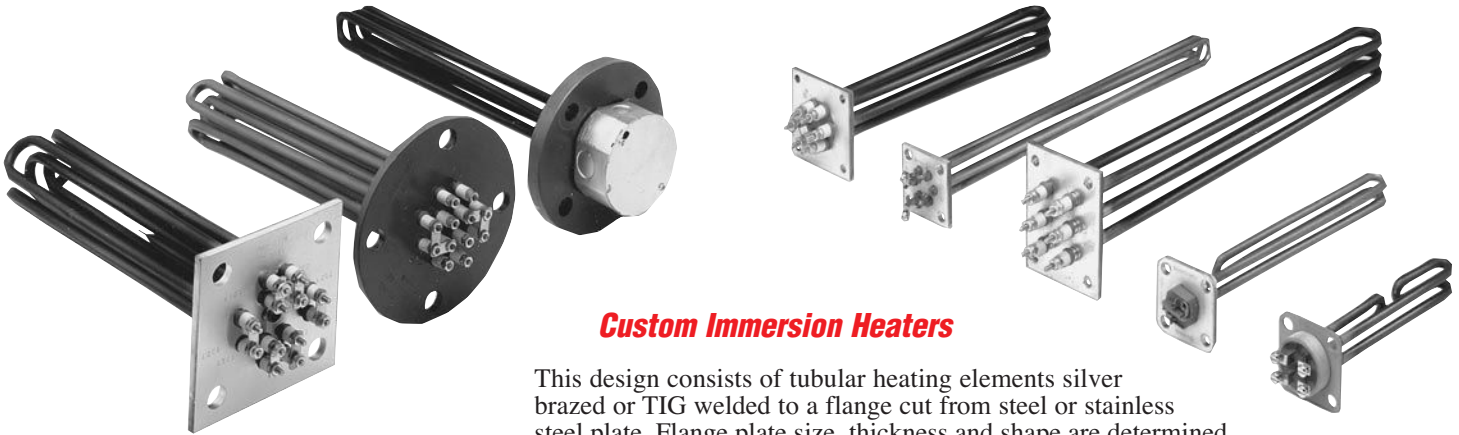




Flanged Immersion Heaters With Custom Size And Shape Flanges



Custom Immersion Heaters

This design consists of tubular heating elements silver brazed or TIG welded to a flange cut from steel or stainless steel plate. Flange plate size, thickness and shape are determined by the application. A fiber gasket is supplied with each heater.

The various style heaters in the Stock Lists on pages 11-22 through 11-25 are direct replacements for heaters in many OEM applications.

This type construction also lends itself to be easily and economically engineered into new equipment.

Typical Applications

- ↔ Hot Air Dryers
- ↔ Dehumidifying Dryers
- ↔ Heat Exchange Systems
- ↔ Water and Water Solutions
- ↔ Steam Tables
- ↔ Air Heating

For Type TPN Flanged Heaters used in UL Recognized Oil Immersion Heating Applications

- The heated oil temperature cannot exceed 257°F (125°C)
- TPN designs are not UL pressure rated
- Steel sheath elements are limited to 60 watts/in²

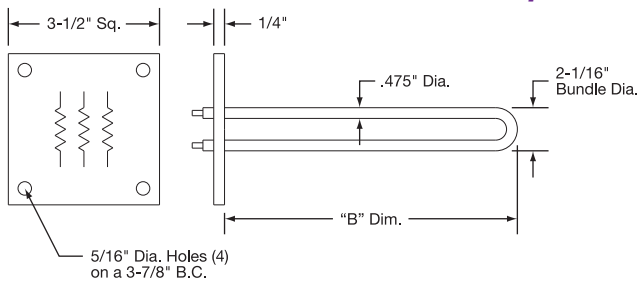
Contact Tempco for other application specific
UL file information.



Tempco TPN Flanged Immersion Heaters are UL component recognized and CSA certified in most design variations for (non-pressure rated) general immersion heater use. The UL File Number is E90771 (CCN UBJY2/8) and the equivalent CSA File Number is 043099. They are also UL recognized under UL standard UL574 for oil heating, File Number MP4154 (CCN MDS2/8)

If you require UL, CSA, or other NRTL agency approvals, please specify when ordering.

3-1/2" Square Steel Flange • 3 Elements



Supplied with gasket (GSK-110-102)

Standard (Non-Stock) and Stock Flanged Heaters

Stock Items Are Shown In RED

Element Sheath Material	KW	Watt Density		"B"		Part Number			Approximate Net Weight	
		W/in ²	W/cm ²	in	mm	240V-3Ph Y	480V-3Ph Y	575V-3Ph Y	lbs	kgs
Incoloy® 800	1.5	15	2.3	12 ¹ / ₁₆	316	TPN01400	TPN01401	—	3	1.4
	2.5	24	3.7	12 ¹ / ₁₆	316	TPN01173	TPN01174	TPN01402	3	1.4
	3	31	4.8	12 ¹ / ₁₆	316	TPN01403	TPN01404	TPN01405	3	1.4
	3.5	24	3.7	17 ¹ / ₈	454	TPN01175	TPN01201	TPN01406	4	1.8
	4	27	4.2	17 ¹ / ₈	454	TPN01407	TPN01176	TPN01408	4	1.8
	5	34	5.3	17 ¹ / ₈	454	TPN01409	TPN01410	TPN01411	4	1.8
Steel	2.5	24	3.7	12 ¹ / ₁₆	316	TPN01351	TPN01373	—	3	1.4
	3.5	24	3.7	17 ¹ / ₈	454	TPN01311	TPN01412	—	4	1.8

Standard lead time on non-stock items is 3 to 4 weeks.