

HEAVY WEIGHT OIL FLANGED IMMERSION HEATERS



NRTL/C

TMO

- ✓ Rugged Steel Sheath
- ✓ Low Watt Density
6½" W/in²
- ✓ 1.2 to 8.4 kW
- ✓ 3 & 5 Inch, 150 lb. Steel Flange

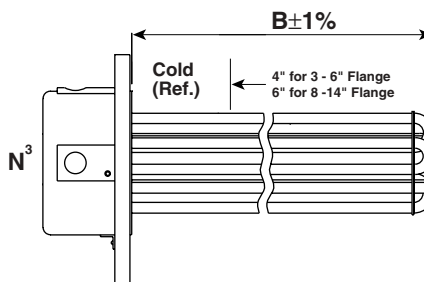
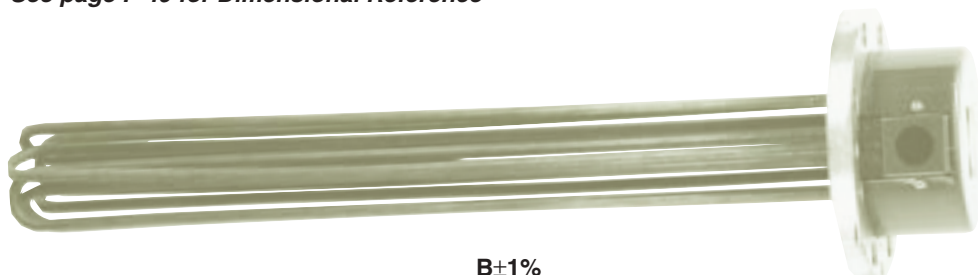
See page F-49 for Dimensional Reference

FEATURES

Rugged construction, Sturdy
0.475" diameter elements welded to steel flanges provide superior rigidity and strength. Heavy duty jumper straps and terminal posts assure permanent tightness of connection's carrying capacity.

High conductivity elements —
Filled with highest purity blends of magnesium oxide refractory (MgO) compacted to a rock hard density to insure maximum thermal conductivity, maximum electrical resistance, and assure long element life.

Heavy coil construction—
Watt density on the heating coil is designed for low watt density operation by increasing the coil diameter and length to give maximum



coil surface temperature, providing longer coil life.

APPLICATIONS

Heating heavy, viscous oils reduces their viscosity, permitting better pumpability for transfer operations. Lowering the viscosity allows increased system flows for any given horsepower. Transfer system designs can employ smaller motor

and drive components ensuring optimum system economy.

Preheating permits use of less expensive fuel oils, allows easier pumping and provides better atomization, increasing combustion efficiency.

SPECIFICATIONS

Wattage: 1.2 to 8.4 kW
Power: 240 and 480 Vac, 3 phase
Watt Density: 6.5 W/in²
Terminal Enclosure: General purpose NEMA 1 rated. Other enclosures are available. Contact OMEGALUX.

* Not Intended for use in Hazardous Areas.

CAUTION AND WARNING!

Fire and electrical shock may result if products are used improperly or installed or used by non-qualified personnel. See inside back cover for additional warning.

¹Heaters with General Purpose and Moisture Resistant Enclosures are UL Listed and CSA Certified.

²Heaters with Explosion Resistant Enclosures are CSA NRTL/C certified and are not intended for use in hazardous areas.

³E1 enclosure "N" designates conduit size, E2/E3/E4 enclosures "N" designates NPT thread size.

⁴Weights: A. For Wt. of 3" flange with E2 enclosure, add 3 lbs. to Wt. of E1 enclosure.

B. For Wt. of 5" flange with E3 or E4 enclosure, add 7 lbs. to Wt of E1 enclosure.

To Order (Specify Model Number)

kW	Dim. B in. (cm)	Wt. ⁴ lb. (kg)	E1-General Purpose Enclosure ¹		Dim.N ³ in. (cm)
			Model No.	Price	
3 Inch-150 Lb. Steel Flange, 3 Steel Sheath Elements — 6.5 W/in²					
1.2	25 ³ / ₁₆ (64)	17 (8)	TMO-3012L/240/3P	\$727	1 (3)
1.65	33 ³ / ₁₆ (84)	18 (8)	TMO-3016L/240/3P	818	1 (3)
2.0	40 ⁹ / ₁₆ (103)	20 (9)	TMO-3021L/**/3P	880	1 (3)
2.5	48 ⁹ / ₁₆ (122)	21 (10)	TMO-3024L/240/3P	965	1 (3)
5 Inch-150 Lb. Steel Flange, 6 Steel Sheath Elements — 6.5 W/in²					
1.5	18 ¹ / ₁₆ (46)	27 (12)	TMO-6015L/240/3P	1051	1 (3)
1.8	19 ¹³ / ₁₆ (50)	30 (14)	TMO-6018L/240/3P	1088	1 (3)
2.4	25 ³ / ₁₆ (64)	32 (15)	TMO-6024L/240/3P	1234	1 (3)
3.3	33 ³ / ₁₆ (84)	33 (15)	TMO-6033L/**/3P	1477	1 (3)
4.2	40 ⁹ / ₁₆ (103)	34 (15)	TMO-6042L/**/3P	1627	1 (3)
5.0	48 ⁹ / ₁₆ (122)	37 (17)	TMO-6049L/**/3P	1797	1 (3)
5.4	52 ¹ / ₁₆ (132)	38 (17)	TMO-6054L/**/3P	1890	1 (3)
6.0	58 ³ / ₁₆ (148)	40 (18)	TMO-6060L/**/3P	1988	1 (3)
6.9	65 ⁵ / ₁₆ (165)	42 (19)	TMO-6069L/**/3P	2261	1 (3)
7.2	68 ³ / ₁₆ (174)	43 (20)	TMO-6072L/**/3P	2375	1 (3)
8.4	78 ¹ / ₁₆ (198)	46 (21)	TMO-6084L/**/3P	2637	1 (3)

/** Designate voltage, i.e. insert 240 for 240 Vac or 480 for 480 Vac.

Note: Larger flange sizes and kW ratings and power supplies are available. contact OMEGALUX.

Ordering Example: Model TMO-3021L/240/3P, is powered by 3 phase 240 Vac, \$880.



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