

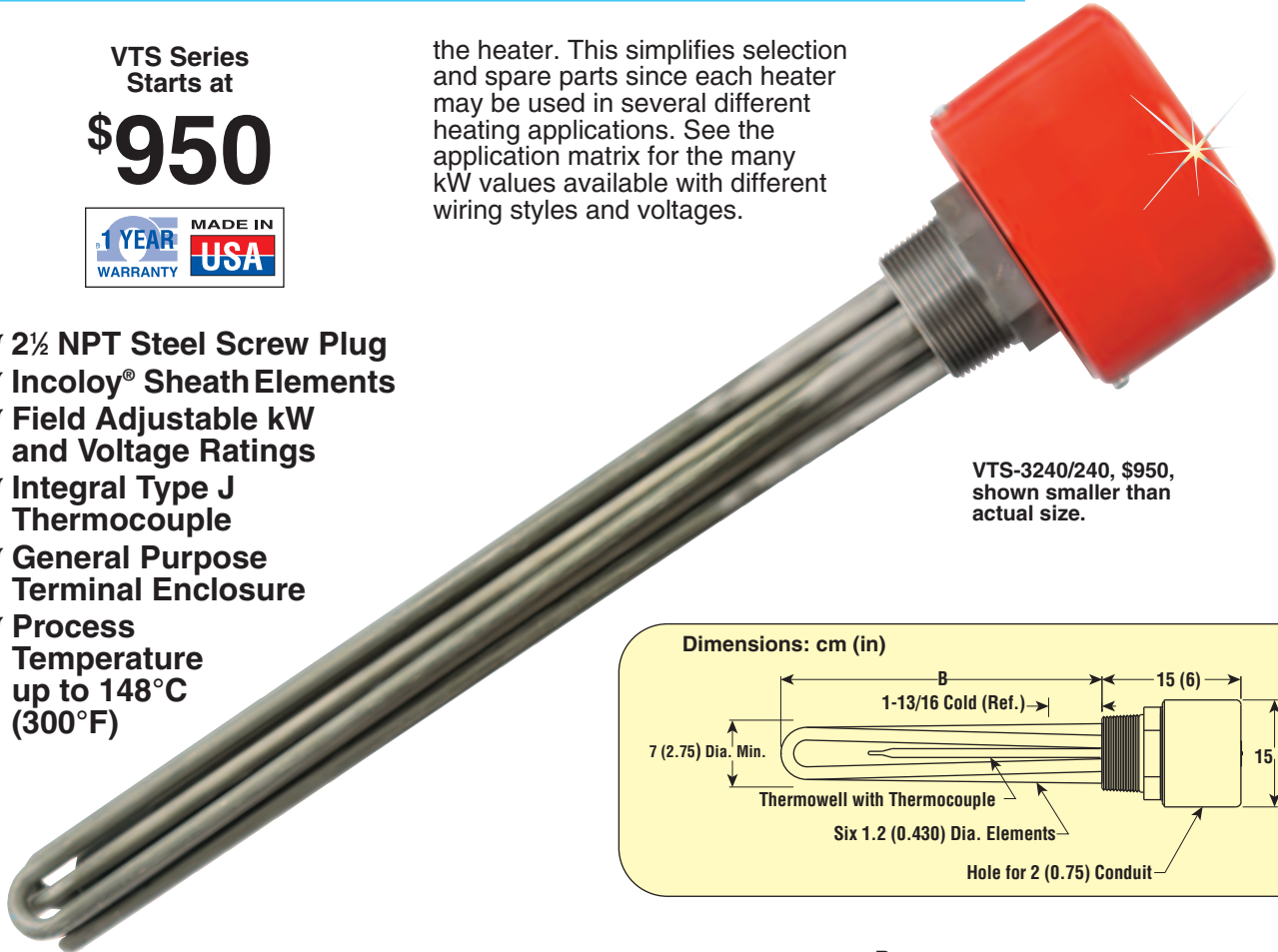
FIELD ADJUSTABLE SCREW PLUG IMMERSION HEATER/CLEAN WATER AND OIL APPLICATIONS

VTS Series
Starts at
\$950

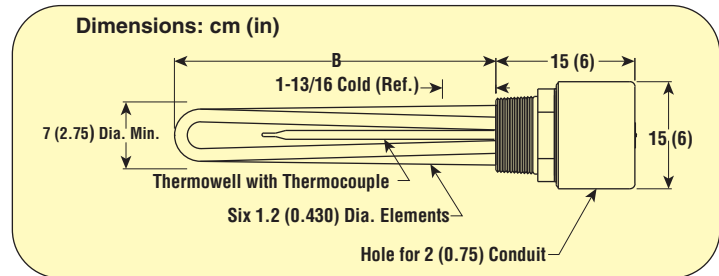


the heater. This simplifies selection and spare parts since each heater may be used in several different heating applications. See the application matrix for the many kW values available with different wiring styles and voltages.

- ✓ 2½ NPT Steel Screw Plug
- ✓ Incoloy® Sheath Elements
- ✓ Field Adjustable kW and Voltage Ratings
- ✓ Integral Type J Thermocouple
- ✓ General Purpose Terminal Enclosure
- ✓ Process Temperature up to 148°C (300°F)



VTS-3240/240, \$950, shown smaller than actual size.



OMEGALUX® field adjustable screw plug immersion heaters can be applied to a variety of clean water and oil applications. The unique versatility of this design allows field adjustment of the rating by simple connections to the six elements of

SPECIFICATIONS

Wattage:
Water: 0.5 to 40 kW
Oil: 0.5 to 10 kW
Watt Density:
Water: 2 to 80 W/in²
Oil: 2 to 23 W/in²

Power:

1 Phase: 120, 208, 240 and 480V
3 Phase: 208, 240 and 480V
Sheath: 1.2 cm (0.430") diameter Incoloy
Screw Plug: 6.4 cm (2.5") steel
Enclosure: General purpose, NEMA 1 rated enclosure can be rotated 360° to match conduit connections

MOST POPULAR MODELS HIGHLIGHTED!

| To Order (Specify Model Number) | | | | | |
|---|-----------|---------------------------------------|--------------|-------|----------------|
| Max kW | Max Volts | Dim cm (in) B | Model No. | Price | Weight kg (lb) |
| See Applications Matrix on next page for rating | | 51 (20 ⁵ / ₁₆) | VTS-3180/240 | \$950 | 5.5 (12) |
| | | 51 (20 ⁵ / ₁₆) | VTS-3180/480 | 950 | 5.5 (12) |
| | | 77 (30 ³ / ₁₆) | VTS-3200/240 | 1200 | 7 (15) |
| | | 51 (20 ⁵ / ₁₆) | VTS-3240/240 | 950 | 5.5 (12) |
| | | 51 (20 ⁵ / ₁₆) | VTS-3240/480 | 950 | 5.5 (12) |
| | | 77 (30 ³ / ₁₆) | VTS-3400/480 | 1200 | 7 (15) |

Note: 240 and 480 in model number indicates max voltage rating. Other voltages can be used. See application matrix for details.

Ordering Examples: VTS-3240/240, field adjustable heater, 240 Vac maximum, \$950.

VTS-3200/240, immersion heater, field adjustable, 240V, \$1200.

IMMERSION HEATERS

Selection Example: Light oil heating application, 2.75 kW 240V 3-phase capacity

1. Select oil application matrix
2. Locate 2.75 kW on chart. Use 3 kW as next higher rating. Confirm that 20 W/in² is suitable for light oil.
3. Find column with 240 Volt 3-phase power
4. Intersection of row and column is model number VTS-3240/480. Confirm 3-phase and single-phase available. Note there is spare capacity for back up or for future increase in requirements.
5. Locate model number **VTS-3240/480** in the "To Order" table for price. When received, this heater will have instructions on wiring for the required rating. Contact Omega's Application Engineers with any questions.

Application Matrix—Oil

 **MOST POPULAR MODELS HIGHLIGHTED!**

| Model No. | | | | | |
|-----------|-------------------|-------------------|------------------------|------------------------|------------------------|
| kW | W/in ² | 120 Volts 1 phase | 208 Volts 1 or 3 phase | 240 Volts 1 or 3 phase | 480 Volts 1 or 3 phase |
| 0.50 | 2 | | | VTS-3240/480 | |
| 0.75 | 5 | VTS-3240/480* | VTS-3240/480* | | |
| 1.50 | 5 | VTS-3240/480 | VTS-3240/480 | VTS-3240/480 | VTS-3180/480 |
| 2.25 | 15 | | VTS-3240/480* | VTS-3180/480* | |
| 2.50 | 6 | VTS-3400/480 | VTS-3400/480 | VTS-3400/480 | |
| 3.00 | 20 | VTS-3240/240* | VTS-3240/240* | VTS-3240/480* | |
| 4.50 | 15 | VTS-3180/240 | VTS-3240/480 | VTS-3180/480 | VTS-3180/480 |
| 5.00 | 11 | VTS-3200/240 | VTS-3200/240 | VTS-3200/240 | |
| 6.00 | 20 | VTS-3240/240 | VTS-3240/240 | VTS-3240/480 | VTS-3240/480 |
| 10.00 | 21 | | | VTS-3400/480 | VTS-3400/480 |

Application Matrix—Water

| Model No. | | | | | |
|-----------|-------------------|-------------------|------------------------|------------------------|------------------------|
| kW | W/in ² | 120 Volts 1 phase | 208 Volts 1 or 3 phase | 240 Volts 1 or 3 phase | 480 Volts 1 or 3 phase |
| 0.50 | 2 | | | VTS-3240/480 | |
| 0.75 | 5 | VTS-3240/480* | VTS-3240/480* | | |
| 1.50 | 5 | VTS-3240/480 | VTS-3240/480 | VTS-3240/480 | VTS-3180/480 |
| 2.25 | 15 | | VTS-3240/480* | VTS-3180/480* | |
| 2.50 | 6 | VTS-3400/480 | VTS-3400/480 | VTS-3400/480 | |
| 3.00 | 20 | VTS-3240/240* | VTS-3240/240* | VTS-3240/480* | |
| 4.50 | 15 | VTS-3180/240 | VTS-3240/480 | VTS-3180/480 | VTS-3180/480 |
| 5.00 | 11 | VTS-3200/240 | VTS-3200/240 | VTS-3200/240 | |
| 6.00 | 20 | VTS-3240/240 | VTS-3240/240 | VTS-3240/480 | VTS-3240/480 |
| 9.00 | 59 | | | VTS-3180/240* | VTS-3180/480* |
| 10.00 | 21 | | | VTS-3400/480 | VTS-3400/480 |
| 12.00 | 78 | | | VTS-3240/240* | VTS-3240/480* |
| 18.00 | 59 | | | VTS-3180/240 | VTS-3180/480 |
| 20.00 | 80 | | | VTS-3200/240 | VTS-3400/480* |
| 24.00 | 78 | | | VTS-3240/240 | VTS-3240/480 |
| 40.00 | 80 | | | | VTS-3400/480 |

Note: Shaded items are 3 phase only
 *Items have 100% spare capacity

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