

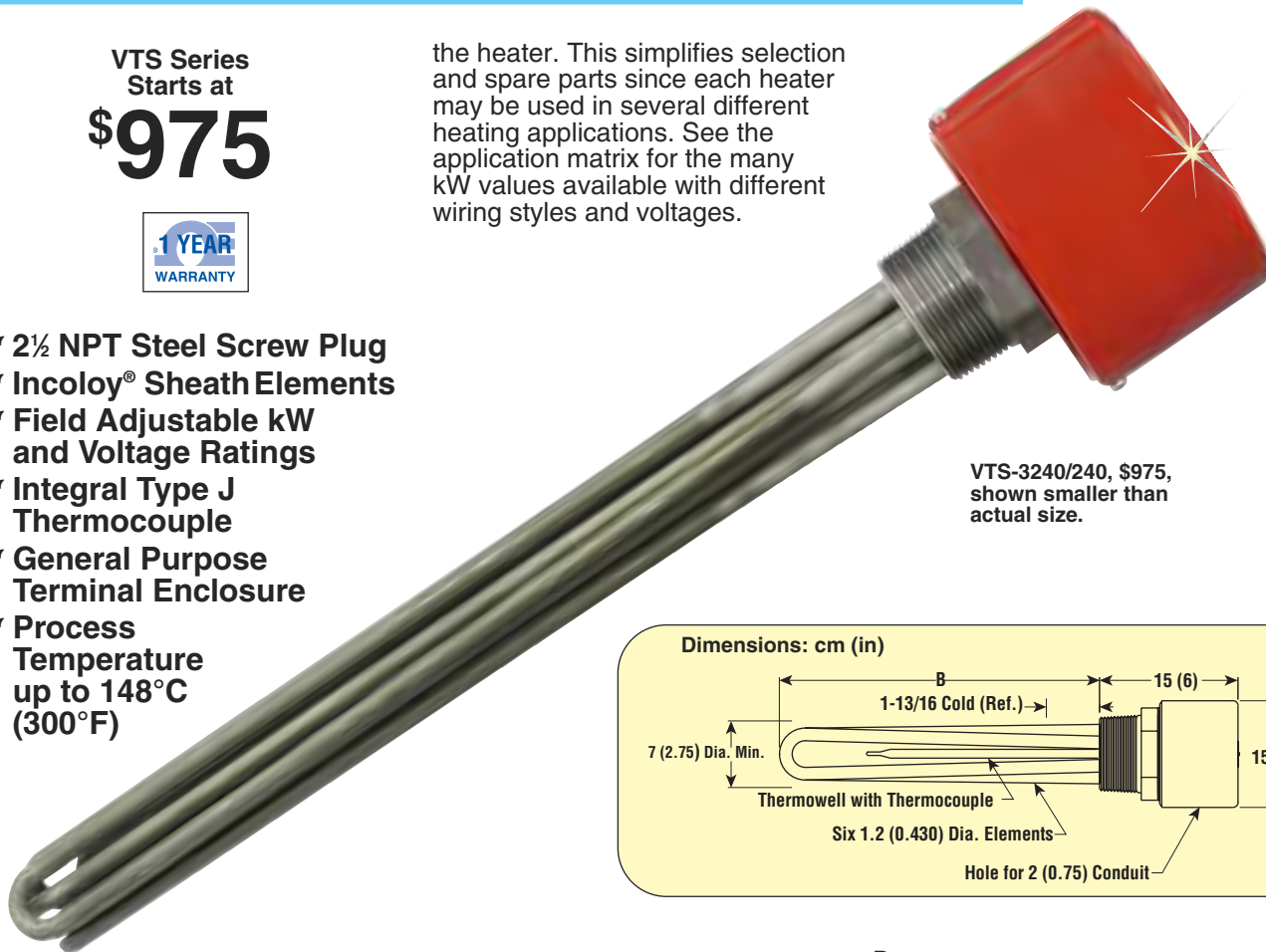
FIELD ADJUSTABLE SCREW PLUG IMMERSION HEATER/CLEAN WATER AND OIL APPLICATIONS

VTS Series Starts at
\$975

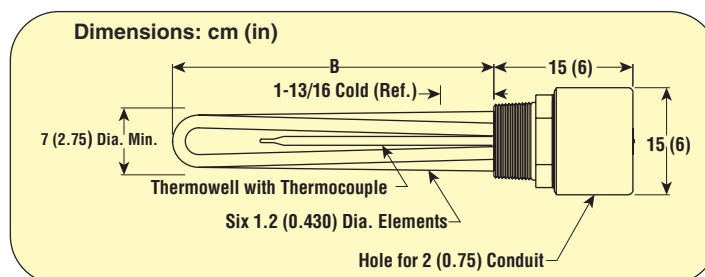


the heater. This simplifies selection and spare parts since each heater may be used in several different heating applications. See the application matrix for the many kW values available with different wiring styles and voltages.

- ✓ 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, \$975, 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 ³ / ₁₆)	VTS-3180/240	\$975	5.5 (12)
		51 (20 ³ / ₁₆)	VTS-3180/480	975	5.5 (12)
		77 (30 ³ / ₁₆)	VTS-3200/240	1250	7 (15)
		51 (20 ³ / ₁₆)	VTS-3240/240	975	5.5 (12)
		51 (20 ³ / ₁₆)	VTS-3240/480	975	5.5 (12)
		77 (30 ³ / ₁₆)	VTS-3400/480	1250	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, \$975.

VTS-3200/240, immersion heater, field adjustable, 240V, \$1250.

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!**

kW	W/in ²	Model No.			
		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

kW	W/in ²	Model No.			
		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



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters