TYTANTM SPECIFICATIONS

TITAL DI LEITTETATIONE	
SIZES	12,000 watts to 144,000 watts
VOLTAGES	208 volt to 480 volt, three phase (single phase available). Consult factory for specific wattage/voltage combinations available
TEMPERATURE CONTROL	PID microprocessor based digital thermostat
TEMPERATURE LIMIT	194° F (90° C), depending on operating conditions
TEMPERATURE ACCURACY	+/- 1° F, depending on operating conditions
PRESSURE RATING	100 PSIG (operating)
EFFICIENCY	> 99%
WETTED SURFACES	All titanium standard
INLET/OUTLET	1" MNPT through 72 kW 2" MNPT 96 kW and higher
STANDARD SAFETY FEATURES	 Grounded construction EMO emergency stop button Fluid overtemperature detection (J type thermocouple) Element overtemperature detection (bi-metallic snap switches) Control fusing (primary and secondary) FM approved overtemperature limit controller Ground fault protection (GFP)
HOUSING	NEMA 1 rated, powder coated metal enclosure
DIMENSIONS	• 12-48 kW: 29.5" (75 cm) W x 13.5" (34 cm) D x 36.0" (91 cm) H • 72 kW: 37.5" (95 cm) W x 13.5" (34 cm) D x 36.0" (91 cm) H • 96-144 kW: 28.0" (71 cm) W x 17.0" (43 cm) D x 66.9" (170 cm) H
STANDARD CERTIFICATIONS	cUL
OPTIONS	 CE compliance Semi S2/S3 compliance PLC control Remote interface Disconnect and circuit breaker Stainless steel elements and wetted parts Flanged/sanitary fluid connections RS remote communications

FEATURES and BENEFITS

- Improved Process Results: Heated DI water improves cleaning effectiveness and reduces rinse time in most processes.
- Cost Saving Design: >99%
 element efficiency contributes
 to low cost of ownership
 (COO) and excellent return
 on investment (ROI).
- Outstanding Cleanliness: 100% titanium heating elements provide very clean performance for precision cleaning applications.
- Reliable, Rugged Construction: Simple, heavy walled element construction for trouble free operation and long life.
 Baffled element chambers enhance heat transfer efficiency.
- Outstanding Temperature Responsiveness and Stability: Excellent temperature accuracy over a wide flow range can substantially improve process consistency.
- Fast/Easy Maintenance:
 Long-life element for minimal process down time.

 Designed for easy service.
- Rapid Installation: Minimal facility requirements. Heater is factory tuned to your specifications. Only power and plumbing connections required.
- Compact Configuration:
 Space-saving design minimizes footprint requirements. Wall mounted up to 72kW; floor mounted to 144kW.

(866) 683-4443

DIMENSIONS

SIZING

To determine required wattage, use the following equation:

GPM X TEMP RISE (°F) X 0.147 = kW REQUIRED

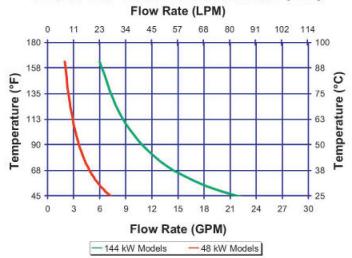
LPM X TEMP RISE (°C) X .07 = kW REQUIRED

Temperature rise is expressed in degrees F where GPM is gallons per minute of flow desired. Round results up to select unit.

Example: 2.5 GPM x 95°F x 0.147 = 35 kW (Use 36 kW)

CONSULT OUR FACTORY FOR DETAILED SIZING INFORMATION AND APPLICATION ASSISTANCE.

FLOW VS. TEMPERATURE RISE (△T)



PRESSURE DROP - ALL SIZES

Flow Rate (LPM) 9.8 14.8 19.7 24.6 29.5 34.4 39.4 44.3 49.2 4.0 3.5 Pressure Drop (PSI) 3.0 20.7 Drop 2.5 2.0 10.3 1.5 6.9 1.0 0.5 3.4 0.0 0.0

Flow Rate (GPM)

12 13

