

Safest and most reliable water heater on the market

99% element efficiency

100% titanium heating elements for precision cleaning applications

Outstanding temperature responsiveness and stability

Long-life element for minimal process down time

Space-saving design



Up to 90C



12 kW to 144 kW



208 to 600 volts, three phase



Up to 689 kPa



cULus

**PROCESS
TECHNOLOGY**

ISO 9001:2015
WITH DESIGN CERTIFIED

Features & Values

- Clean performance for precision cleaning applications provided from 100% titanium heating elements.
- 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.
- Offers outstanding performance over a wide range of flow and temperature requirements. Flexible configurations for a wide variety of flow rates.
- 99% element efficiency contributes to low cost of ownership and excellent return on investment.
- Heated DI water improves cleaning effectiveness and reduces rinse time in most processes.
- Heater is factory tuned to your specifications to save on installation time.
- Space-saving design minimizes footprint requirements.

Specifications

Wattages	12 kW to 144 kW
Voltages	208 volts to 600 volts, three phase.
Temperature Range	Up to 90°C (194° F). PID microprocessor based digital control
Temperature Accuracy	+/- 1°F, depending on operating conditions
Pressure Range	Up to 689 kPa (100 PSIG).
Fluid Connections	25.4mm (1 inch) through 72 kW, 50.8mm (2 inch) MNPT 96 kW and higher
Certifications	cULus
Safety Features	<ul style="list-style-type: none"> □ Grounded construction □ EMO emergency stop button □ Fluid overtemperature detection (bi-metallic snap switches) □ Control fusing and ground fault protection

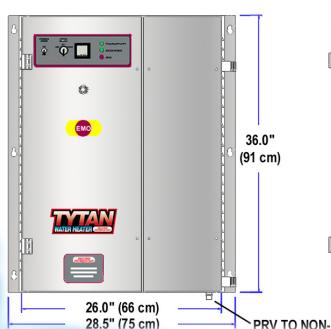
Model Number Breakdown

TY	12	240	3	SC
Series	Wattage (kW)	Voltage	Phase	Options
TY = Tytan	-012 = 12kW -018 = 18kW -024 = 24kW -036 = 36kW -048 = 48kW -072 = 72kW -096 = 96kW -120 = 120kW -140 = 140kW -144 = 144kW	-240 -480 -specify other	-1 = single phase (not available in all kW) -3 = three phase	<ul style="list-style-type: none"> -SC = SEMI S2 and CE compliant* -RI = Remote control interface -RI2 = 2-bit control -RC1 = Remote Communications, RS485 -RC3 = Remote Communications, 4-20 mA -MA = 4-20mA output for recording -PLC = PLC based control system -S = Stainless steel heating columns -FM1 = Digital Flow Meter -FS = Flow switch (external to enclosure)

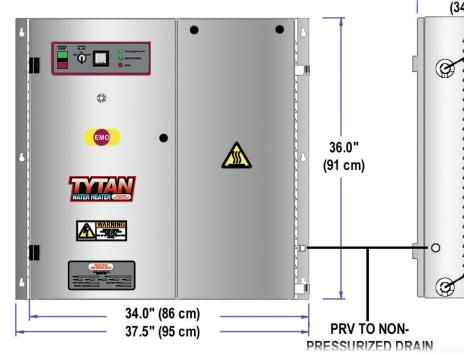
*Includes a circuit breaker

Dimensions

12 - 48 kW



72 kW



96 - 144 kW

