

# Tytan In-line Water Heater

Safest and most reliable industrial water heater on the market! Compact and complete (turn-key) heating system designed with commercially-pure titanium heating elements for exceptionally clean and corrosion-free performance. Suitable for either single pass or recirculating flow demands for a variety of precision water heating applications.



Wall Unit Shown

### FEATURES

- Complete (turn-key) System**
  - Space saving design minimizes footprint requirements
  - Allows for fast and easy installation
  - Only plumbing and main power required
- Long-Lasting Titanium Element Construction**
  - Resistant to corrosion
  - Minimizes ionic contamination
  - Compatible with seawater
- PID Temperature Control**
  - Provides precise and stable temperature for improved process consistency and yields
  - Minimizes temperature fluctuations with flow rate changes
- Engineered for Safe Operation**
  - Meets cULus safety standards
  - Built-in ground-fault protection
  - Independent and redundant over-temperature protection
  - Internal pressure relief valve

Temperature: Up to 90C	Pressure: Up to 689 kPa			
Watts: 12,000 to 144,000	Certifications: cULs, SEMI S2, CE (optional)			
Volts: 208 to 600, Three phase standard, single phase (optional)				
Compatibility				
<input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> NO
acids	water	bases	solvents	gases

### APPLICATIONS

- Solar/Photovoltaic Wafer and Flat Panel Display Rinsing
- Medical Device Cleaning (ultrasonic) and Sanitizing
- RO/DI Water Treatment (filtration)
- Batch Mixing
- Aquaculture (fresh and seawater aquaria exhibits, hatcheries and research facilities)
- Potable Water Heating

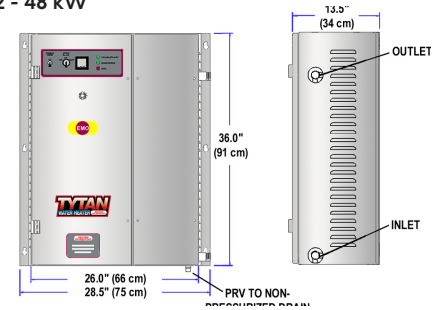
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## SPECIFICATIONS

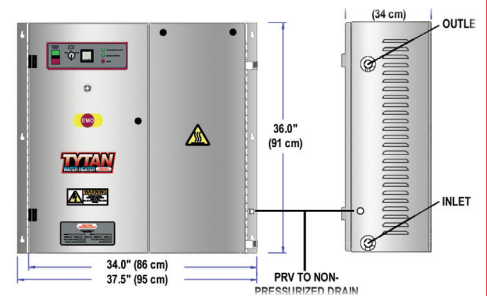
Wattages	12 kW to 144 kW
Voltages	208 volts to 480 volts, 3 phase
Temperature Range	Up to 90° C  PID microprocessor based digital control
Pressure Range	Up to 689 kPa (100PSIG)
Fluid Connections	25.4mm (1 inch) through 72 kW, 50.8mm (2 inch) MNPT 96 kW and higher
Safety Features	Grounded construction  EMO emergency stop button  Fluid overtemperature detection (bi-metallic snap switches)  Control fusing and ground fault protection

## DIMENSIONS

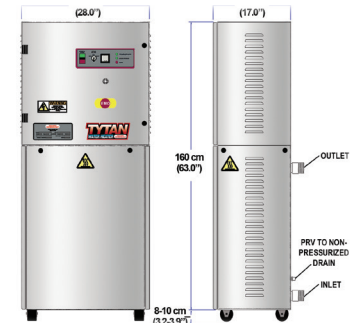
### 12 - 48 kW



### 72 kW



### 96 - 144 kW



## MODEL NUMBER BREAKDOWN

TY	12	240	3	SC
<b>Series</b>	<b>Wattage (kW)</b>	<b>Voltage</b>	<b>Phase</b>	<b>Options</b>
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	-SC = SEMI S2 and CE compliant -CB = Include disconnect and circuit breaker -RI = Remote control interface -RI2 = 2-Bit control -RC1 = Remote Communications, RS485 -RC2 = Remote Communications, RS232 -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)