Ty tan In-line Water Heater

Sa f est 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.

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

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

DATA SHEET

**Temperature:**
- Up to 90°C

**Pressure:**
- Up to 689 kPa

**Watts:**
- 12,000 to 144,000

**Volts:**
- 208 to 600, Three phase standard, single phase (optional)

**Compatibility**
- NO acids
- YES water
- NO bases
- NO solvents
- NO gases

**Certifications:**
- cULs, SEMI S2, CE (optional)

**Call:** 1-440-974-1300 • visit processtechnology.com • or contact your local representative for more information
**Tytan Inline Water Heater**

**SPECIFICATIONS**

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

**MODEL NUMBER BREAKDOWN**

<table>
<thead>
<tr>
<th>Series</th>
<th>Wattage (kW)</th>
<th>Voltage</th>
<th>Phase</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>TY=Tytan</td>
<td>-012 = 12kW</td>
<td>-240</td>
<td>-1 = single phase (not available in all kW)</td>
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</tr>
<tr>
<td></td>
<td>-018 = 18kW</td>
<td>-480</td>
<td>-3 = three phase</td>
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<tr>
<td></td>
<td>-024 = 24kW</td>
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<tr>
<td></td>
<td>-036 = 36kW</td>
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<tr>
<td></td>
<td>-048 = 48kW</td>
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<tr>
<td></td>
<td>-072 = 72kW</td>
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<tr>
<td></td>
<td>-096 = 96kW</td>
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<tr>
<td></td>
<td>-120 = 120kW</td>
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<tr>
<td></td>
<td>-140 = 140kW</td>
<td></td>
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<tr>
<td></td>
<td>-144 = 144kW</td>
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</tbody>
</table>

-SC = SEMI S2 and CE compliant
-CB = Include disconnect and circuit breaker
-RI = Remote control interface
-R12 = 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)

**DIMENSIONS**

- **12 - 48 kW**
- **72 kW**
- **96 - 144 kW**

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