

# TEMPERATURE CONTROL UNITS

# VT SERIES

with 300°F Series Controller

- **Stainless Steel Cabinetry**
- **300°F Control Instrument**
- **Solenoid Cooling Valve**
- **Operating Temperatures to 300°F**
- **Heaters to 34 KW and pumps to 7.5 HP**
- **Custom Cast Pump & Tank Assembly**

The **VT Series** is the new 'old soldier' for temperature control. Designed by skilled and experienced Veteran Engineers that know the industry. This temperature controller is competent of your needs, built for long term dependable, full time operations. For precise temperature control, no other controller beats the **VT Series** model.



VT-300 shown

**How it works...** the Temptek VT 300°F temperature control unit provides heating and cooling at elevated temperatures by circulating a temperature stabilized fluid through your process.

The unit requires an external source of water for system filling, pressurizing and cooling. The minimum water supply pressure is 55 psi to operate up to 300°F.

The VT 300°F is used to preheat a process to the desired operating temperature by engaging the unit's electrical immersion heater and recirculating the water in the system. Upon reaching the operating temperature the unit becomes a cooling device by exchanging a small amount of recirculated water with cooling water from the external source. The cooling water is precisely metered into the system by the pulsed solenoid cooling valve.

**Using the VT 300°F to preheat and precisely control your process can result in quicker startup, shorter cycle times and better part quality.**

The VT 300°F has been successfully used for heating and maintaining temperature control of molds, dies, rolls, jacketed vessels, heat exchangers, nozzles, barrels and many other applications.

If your process requires temperatures of 250°F or lower, consider the Temptek Veteran VT series units rated for temperatures to 250°F.

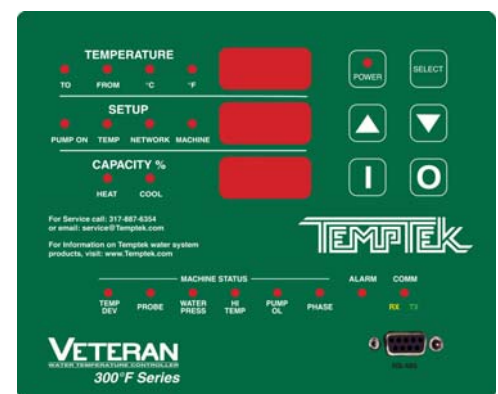
If you require temperatures above 300°F, consider the Temptek VTO series Oil Unit for temperatures to 500°F.

## STANDARD FEATURES

- **TWIN TANK DESIGN** for greater blending of process water.
- **CENTRIFUGAL PUMP** for turbulent flow causing greater heat transfer.
- **INCOLOY HEATER SHEATH** for long service life at elevated process temperatures.
- **PULSED SOLENOID COOLING VALVE** maintains precise process temperature.
- **PRESSURE GAUGES** to quickly access unit performance.
- **10' POWER CORD** factory installed to make process installation easy.
- **STAINLESS STEEL CABINETRY** because it is important to look as good as it works.

## OPTIONS

- Pump HP: 3/4 to 7-1/2
- Heater KW: 10 to 34
- Total Non Ferrous Units
- Closed Circuit Units
- Nema 12 construction
- Dual zone dolly



300°F control instrument

**PRICE & PERFORMANCE... for the LONG TERM**

**Southgate Process Equipment / sales@southgateprocess.com / (770) 345-0010**

# TEMPTTEK

since 1989

# SPECIFICATIONS

| MODELS                                |                       | 150    | 175    | 1100   | 1150   | 1200   | 1300   | 250    | 275    | 2100   | 2150   | 2200   | 2300   | 350    | 375    | 3100   | 3150   | 3200   | 3300   |
|---------------------------------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>HEATER<sup>1</sup></b>             | KW                    | 6      | 6      | 6      | 6      | 6      | 6      | 10     | 10     | 10     | 10     | 10     | 10     | 16     | 16     | 16     | 16     | 16     | 16     |
| <b>PROCESS PUMP<sup>2</sup></b>       | HP                    | 1/2    | 3/4    | 1      | 1 1/2  | 2      | 3      | 1/2    | 3/4    | 1      | 1 1/2  | 2      | 3      | 1/2    | 3/4    | 1      | 1 1/2  | 2      | 3      |
|                                       | GPM                   | 20     | 35     | 45     | 62     | 75     | 80     | 20     | 35     | 45     | 62     | 75     | 80     | 20     | 35     | 45     | 62     | 75     | 80     |
|                                       | PSI                   | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     | 30     |
| <b>FULL LOAD AMPERAGE<sup>3</sup></b> | 230 / 3 / 60          | 17.0   | 17.8   | 18.6   | 20.2   | 21.8   | 24.6   | 27.0   | 27.8   | 28.6   | 30.2   | 31.8   | 34.6   | 42.0   | 42.8   | 43.6   | 45.2   | 46.8   | 49.6   |
|                                       | 460 / 3 / 60          | 8.5    | 8.9    | 9.3    | 10.1   | 10.9   | 12.3   | 13.5   | 13.9   | 14.3   | 15.1   | 15.9   | 17.3   | 21.0   | 21.4   | 21.8   | 22.6   | 23.4   | 24.8   |
| <b>DIMENSIONS (inches)</b>            | Height                | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 | 28 1/4 |
|                                       | Width                 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 | 12 1/2 |
|                                       | Depth                 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 | 19 1/2 |
| <b>CONNECTIONS (inches)</b>           | To / From Process     | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  | 1 1/4  |
|                                       | Water Supply / Drain  | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    | 1/2    |
| <b>WEIGHTS (lbs)</b>                  | Shipping <sup>4</sup> | 195    | 200    | 205    | 205    | 210    | 220    | 198    | 200    | 208    | 208    | 213    | 223    | 200    | 205    | 210    | 210    | 220    | 225    |

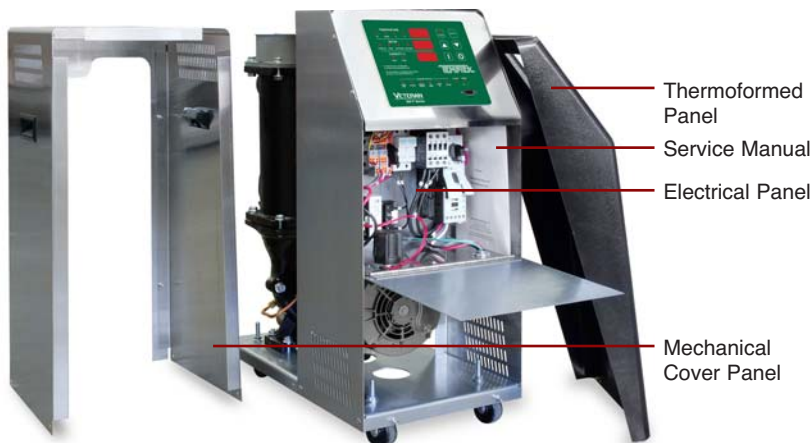
**Notes:**

1. Derate heater by 25% for 208/3/60 operation.
2. Consult factory for pump curve performance.
3. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring. Service disconnect by owner. Actual running amps at design conditions. Consult factory for 50Hz operation.
4. Unit weight crated for shipment.



**OPTIONS:**

- Dual zone dolly with water manifold or with electrical junction box
- Stacking stand with water manifold or with electrical junction box
- Mold purge kit
- Non ferrous tanks
- Bronze pumps and/or piping
- Total non ferrous units
- Closed circuit designs
- Audible alarm
- Visual/audible alarm beacon



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