

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.



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 CABINETY** because it is important to look as good as it works.

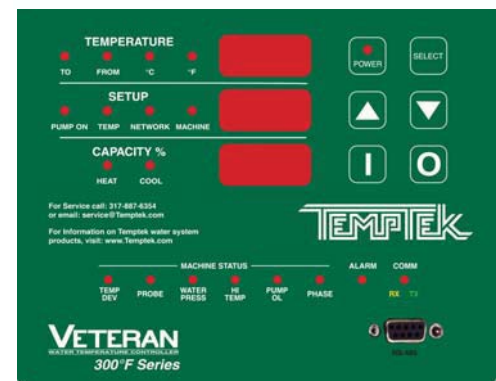
OPTIONS

- 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



THERMAL PRODUCTS INC.

Engineered Solutions To Industrial Applications



300°F control instrument

PRICE & PERFORMANCE... for the LONG TERM

TEMPTEK

since 1989

SPECIFICATIONS

MODELS		150	175	1100	1150	1200	1300	250	275	2100	2150	2200	2300	350	375	3100	3150	3200	3300
HEATER¹	KW	6	6	6	6	6	6	10	10	10	10	10	10	16	16	16	16	16	16
PROCESS PUMP²	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
FULL LOAD AMPERAGE³	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
DIMENSIONS (inches)	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
CONNECTIONS (inches)	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
WEIGHTS (lbs)	Shipping ⁴	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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