

TEMPERATURE CONTROLLERS

VT SERIES
with LS Series Controller

- **Stainless Steel Cabinetry**
- **LS Control Instrument**
- **Solenoid Cooling Valve**
- **Operating Temperatures to 250°F**
- **Heaters to 16 KW and pumps to 3 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.



LS Controller

VT-275 shown

TANK CONSTRUCTION:

- Twin tanks - separate heating and cooling cylinders
- Cast iron material
- Machined process connections
- Flange mounted to pump casing
- Thermoformed cover panel

PUMP:

- Cast iron casing - custom design for increased flow
- Bronze pump impeller
- Pump seal flush
- Stainless steel pump motor shaft

COOLING VALVE:

- 3/8" solenoid valve
- Microprocessor controlled
- Integral to cooling cylinder
- Field serviceable

HEATER:

- Flanged bolt-in mount
- Incoloy sheath
- Mercury heater contactor

CABINETY:

- Stainless steel
- Hinged electrical cabinet door
- Lift-off mechanical cover
- Portable, on casters
- Process pressure gauges

LIMIT DEVICES:

- Water supply pressure switch
- Motor overloads
- Pressure relief valve
- High temperature limit
- Fused control circuit

ELECTRICAL:

- Process pump motor starter
- Fused transformer
- 10' power cord installed

'LS' SERIES CONTROLLER:

- Continuous *to process* temperature display
- Selectable setpoint temperature display
- Status indicators for *power on, pump on, heat on, cool on*
- On / off rocker switch

WARRANTIES:

- 2 year controller
- 2 year cooling valve
- 2 year heater
- 2 year mechanical

PRICE & PERFORMANCE... for the LONG TERM

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TEMPEK

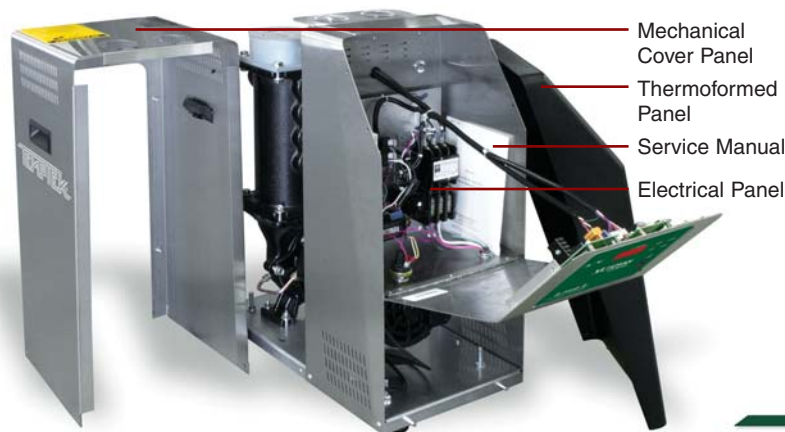
since 1989

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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