

TEMPERATURE CONTROL UNIT

VT SERIES

Water Unit with LXG-300 Series Control Instrument

- **Stainless Steel Cabinetry**
- **LXG-300 Series Control Instrument**
- **Solenoid Cooling Valve**
- **Operating Temperatures to 300°F**
- **Heaters to 34 kW and Pumps to 7.5 HP**

The VT Series temperature control unit is the new Old Soldier for temperature control. Designed by skilled and experienced Veteran Engineers that know the industry. This temperature control unit 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-1035- G300

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
- Stainless sheath
- Mercury heater contactor

CABINTRY:

- 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

'G300' SERIES CONTROLLER:

- Easy to navigate LCD display
- Home screen includes continuous setpoint and to process temperature
- Standard shut down pump seal cooling feature
- User configurable automatic start-up venting
- Out-of-spec alarm including standard audible signal
- Solid state temperature sensors
- Selectable SPI or Modbus RTU communication
- Optional communication cable
- Operates exclusive modulating cooling valve

WARRANTIES:

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

Authorized Dealer
Southgate Process Equipment, Inc.
87 Hickory Springs IND. Drive
Canton, GA 30115
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Mechanical System



Connections

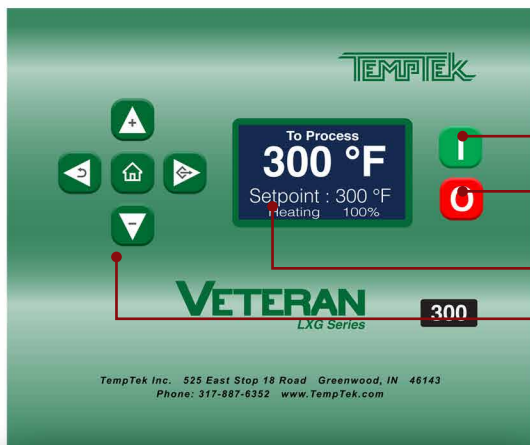


Typical unit with
5 - 7½ horsepower pump
and/or 24 - 34 kW heater.

Typical unit with
¾ - 3 horsepower pump
and/or 10 - 16 kW heater.

Control Instrument

Microprocessor instruments control and monitor all aspects of the operation to assure accurate control and dependable operation. The controls are designed to support the specific and unique requirements of process temperature control in an industrial environment.



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

For best pricing call Southgate Process Equipment @ (770) 345-0010

87 Hickory Springs IND. Drive Canton, GA 30115 Ph: (770) 345-0010 Website: www.Southgatepe.com Email: sales@southgatepe.com

Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice. #ADV-990 updated 5/13/2018 ©2019 TEMPTEK, INC.

Specifications

| Model | Heater | Process Pump | | | Full Load Amperage @ 3Ø / 60hz ² | | Dimensions | | | Process Connections | | Shipping Weight |
|---------|-----------------|--------------|-----|-----|--|------|------------|-------|-------|----------------------|-------------------|--------------------|
| | kw ¹ | HP | GPM | PSI | 230 | 460 | Height | Width | Depth | To & From Process | Supply & Drain | LBS ³ |
| VT-150 | 6 | ½ | 20 | 30 | 17.0 | 8.5 | 28¼ | 12½ | 19½ | 1¼ | ½ | 195 |
| VT-175 | 6 | ¾ | 35 | 30 | 17.8 | 8.9 | 28¼ | 12½ | 19½ | 1¼ | ½ | 200 |
| VT-1100 | 6 | 1 | 45 | 30 | 18.6 | 9.3 | 28¼ | 12½ | 19½ | 1¼ | ½ | 205 |
| VT-1150 | 6 | 1½ | 62 | 30 | 20.2 | 10. | 28¼ | 12½ | 19½ | 1¼ | ½ | 205 |
| VT-1200 | 6 | 2 | 75 | 30 | 21.8 | 10.9 | 28¼ | 12½ | 19½ | 1¼ | ½ | 210 |
| VT-1300 | 6 | 3 | 80 | 30 | 24.6 | 12.3 | 28¼ | 12½ | 19½ | 1¼ | ½ | 220 |
| VT-275 | 10 | ¾ | 35 | 30 | 27.8 | 13.9 | 28¼ | 12½ | 19½ | 1¼ | ½ | 200 |
| VT-2100 | 10 | 1 | 45 | 30 | 28.6 | 14.3 | 28¼ | 12½ | 19½ | 1¼ | ½ | 208 |
| VT-2150 | 10 | 1½ | 62 | 30 | 30.2 | 15.1 | 28¼ | 12½ | 19½ | 1¼ | ½ | 208 |
| VT-2200 | 10 | 2 | 75 | 30 | 31.8 | 15.9 | 28¼ | 12½ | 19½ | 1¼ | ½ | 213 |
| VT-2300 | 10 | 3 | 80 | 30 | 34.6 | 17.3 | 28¼ | 12½ | 19½ | 1¼ | ½ | 223 |
| VT-2500 | 10 | 5 | 90 | 34 | 40.3 | 20.2 | 44 | 16 | 24 | 2 | ½ | 275 |
| VT-2750 | 10 | 7½ | 100 | 47 | 47.1 | 23.5 | 44 | 16 | 24 | 2 | ½ | 290 |
| VT-375 | 16 | ¾ | 35 | 30 | 42.8 | 21.4 | 28¼ | 12½ | 19½ | 1¼ | ½ | 205 |
| VT-3100 | 16 | 1 | 45 | 30 | 43.6 | 21.8 | 28¼ | 12½ | 19½ | 1¼ | ½ | 210 |
| VT-3150 | 16 | 1½ | 62 | 30 | 45.2 | 22.6 | 28¼ | 12½ | 19½ | 1¼ | ½ | 210 |
| VT-3200 | 16 | 2 | 75 | 30 | 46.8 | 23.4 | 28¼ | 12½ | 19½ | 1¼ | ½ | 220 |
| VT-3300 | 16 | 3 | 80 | 30 | 49.6 | 24.8 | 28¼ | 12½ | 19½ | 1¼ | ½ | 225 |
| VT-3500 | 16 | 5 | 90 | 34 | 55.4 | 27.7 | 44 | 16 | 24 | 2 | ½ | 285 |
| VT-3750 | 16 | 7½ | 100 | 47 | 62.2 | 31.1 | 44 | 16 | 24 | 2 | ½ | 300 |
| VT-475 | 24 | ¾ | 35 | 30 | 63.1 | 31/6 | 44 | 16 | 24 | 1¼ | ½ | 270 |
| VT-4100 | 24 | 1 | 45 | 30 | 63.9 | 32.0 | 44 | 16 | 24 | 1¼ | ½ | 275 |
| VT-4150 | 24 | 1½ | 62 | 30 | 65.5 | 32.8 | 44 | 16 | 24 | 1¼ | ½ | 280 |
| VT-4200 | 24 | 2 | 75 | 30 | 67.1 | 33.6 | 44 | 16 | 24 | 1¼ | ½ | 285 |
| VT-4300 | 24 | 3 | 80 | 30 | 69.9 | 35.0 | 44 | 16 | 24 | 1¼ | ½ | 290 |
| VT-4500 | 24 | 5 | 90 | 34 | 75.5 | 37.8 | 44 | 16 | 24 | 2 | ½ | 295 |
| VT-4750 | 24 | 7½ | 100 | 47 | 82.3 | 41.2 | 44 | 16 | 24 | 2 | ½ | 310 |
| VT-575 | 34 | ¾ | 35 | 30 | 88.2 | 44.1 | 44 | 16 | 24 | 1¼ | ½ | 280 |
| VT-5100 | 34 | 1 | 45 | 30 | 89.0 | 44.5 | 44 | 16 | 24 | 1¼ | ½ | 285 |
| VT-5150 | 34 | 1½ | 62 | 30 | 90.6 | 45.3 | 44 | 16 | 24 | 1¼ | ½ | 290 |
| VT-5200 | 34 | 2 | 75 | 30 | 92.2 | 46.1 | 44 | 16 | 24 | 1¼ | ½ | 295 |
| VT-5300 | 34 | 3 | 80 | 30 | 95.0 | 47.5 | 44 | 16 | 24 | 1¼ | ½ | 300 |
| VT-5500 | 34 | 5 | 90 | 34 | 100.6 | 50.3 | 44 | 16 | 24 | 2 | ½ | 305 |
| VT-5750 | 34 | 7½ | 100 | 47 | 107.4 | 53.7 | 44 | 16 | 24 | 2 | ½ | 320 |

Notes: 1. Derate heater output by 25% for 208/3/60 operation. 2. Consult factory for 50hz operations. 3. Approximate unit shipping weight. ¹

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