

# TEMPERATURE CONTROL UNITS

# 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**

# TEMPEK®

since 1989

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

# 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
	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
<b>DIMENSIONS (inches)</b>	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>CONNECTIONS (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
	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
<b>WEIGHTS (lbs)</b>	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
	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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