

# TEMPERATURE CONTROLLERS

# VT SERIES LS CONTROLLER

- **Stainless Steel Cabinetry**
- **LS Microprocessor 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. Check out these product features:

#### TANK CONSTRUCTION:

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

#### 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



VT-275 shown

#### 'LS' SERIES CONTROL INSTRUMENT:

- 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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# TEMPTEK®

since 1989

# SPECIFICATIONS

## VT SERIES SPECIFICATIONS

MODELS with 6KW Heaters		150	175	1100	1150	1200	1300
HEATER <sup>1</sup>	KW	6	6	6	6	6	6
PROCESS PUMP <sup>2</sup>	HP	1/2	3/4	1	1-1/2	2	3
	GPM	20	35	45	62	75	80
	PSI	30	30	30	30	30	30
FULL LOAD AMPERAGE <sup>3</sup>	230 / 3 / 60	17.0	17.8	18.6	20.2	21.8	24.6
DIMENSIONS (inches)	460 / 3 / 60	8.5	8.9	9.3	10.1	10.9	12.3
	Height	27	27	27	27	27	27
	Width	11	11	11	11	11	11
CONNECTIONS (inches)	Depth	16	16	16	16	16	16
	To / From Process	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
WEIGHTS (lbs)	Water Supply / Drain	1/2	1/2	1/2	1/2	1/2	1/2
	Shipping <sup>4</sup>	195	200	205	205	210	220

MODELS with 10KW Heaters		250	275	2100	2150	2200	2300
HEATER <sup>1</sup>	KW	10	10	10	10	10	10
PROCESS PUMP <sup>2</sup>	HP	1/2	3/4	1	1-1/2	2	3
	GPM	20	35	45	62	75	80
	PSI	30	30	30	30	30	30
FULL LOAD AMPERAGE <sup>3</sup>	230 / 3 / 60	27.0	27.8	28.6	30.2	31.8	34.6
DIMENSIONS (inches)	460 / 3 / 60	13.5	13.9	14.3	15.1	15.9	17.3
	Height	27	27	27	27	27	27
	Width	11	11	11	11	11	11
CONNECTIONS (inches)	Depth	16	16	16	16	16	16
	To / From Process	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
WEIGHTS (lbs)	Water Supply / Drain	1/2	1/2	1/2	1/2	1/2	1/2
	Shipping <sup>4</sup>	198	200	208	208	213	223

MODELS with 16KW Heaters		350	375	3100	3150	3200	3300
HEATER <sup>1</sup>	KW	16	16	16	16	16	16
PROCESS PUMP <sup>2</sup>	HP	1/2	3/4	1	1-1/2	2	3
	GPM	20	35	45	62	75	80
	PSI	30	30	30	30	30	30
FULL LOAD AMPERAGE <sup>3</sup>	230 / 3 / 60	42.0	42.8	43.6	45.2	46.8	49.6
DIMENSIONS (inches)	460 / 3 / 60	21.0	21.4	21.8	22.6	23.4	24.8
	Height	27	27	27	27	27	27
	Width	11	11	11	11	11	11
CONNECTIONS (inches)	Depth	16	16	16	16	16	16
	To / From Process	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
WEIGHTS (lbs)	Water Supply / Drain	1/2	1/2	1/2	1/2	1/2	1/2
	Shipping <sup>4</sup>	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.



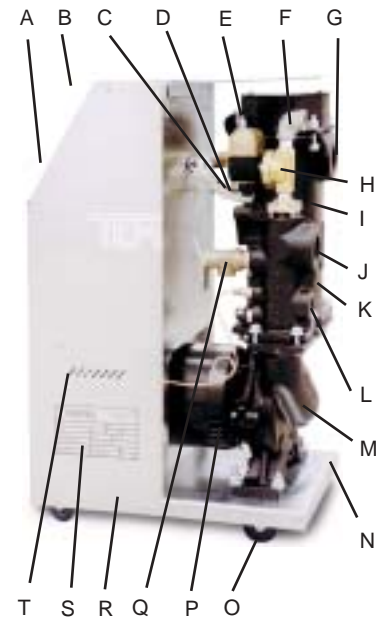
Two VT-275 units shown on Optional Dual Zone Dolly

Check Specifications Sheet #93 for process connection details.



## MECHANICAL COMPONENTS

- A - Electrical Cabinet
- B - Microprocessor Control with Digital Display (not visible)
- C - Temperature Sensor
- D - High Temperature Limit
- E - Bolt In Incoloy Heater
- F - Drain Connection
- G - To Process Connection
- H - Cooling Valve
- I - Heating Cylinder
- J - From Process Connection
- K - Cooling Cylinder
- L - Water Supply Connection
- M - Pump Casing
- N - Galvanized Steel Base
- O - Caster
- P - Electric Motor
- Q - Pressure Release Valve
- R - Stainless Steel Cabinetry
- S - Data Tag
- T - Cabinet Vents



VT - 275 unit shown  
Enclosure panel removed for photograph

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

