

LOW COST  
HIGH PERFORMANCE

# TEMPERATURE CONTROLLERS

## When You Require *Stable Control* of Process Water

The **SENTRA VE Series** includes stainless steel enclosure panels, **PVT™** pulsed cooling valve, custom designed high performance process pump and microprocessor instrument.

**MODEL SK-1035-VE**  
3/4 HP, 35 GPM at 30 PSI, 10 KW : **\$1,320.00\***

**POWER PUMP™**  
**MODEL SK-1075-VE**  
2 HP, 75 GPM at 30 PSI, 10 KW : **\$1,370.00\***  
including all other described VE features!

Quantity and cash discounts apply to the Sentra VE:

- Quantity Discounts: 3-5 units less 2% | 6-10 units less 4%  
11-20 units less 5.5% | 21+ units less 7%
- Cash Discounts: Payment with order less 4%  
Payment prior to shipment less 2%

\*Pricing and specifications subject to change without notice or liability.



Sentra Temperature Controller shown with 10 KW heater and 3/4 HP pump and VE series microprocessor instrument.



## 4 Year Warranty

On the Microprocessor Instrument!

### FEATURES - AT A GLANCE:

- Small footprint - 27" x 11" x 16" (HxWxD)
- Microprocessor instrument
- PVT™ pulsed cooling valve
- 'Lift off' stainless steel enclosure
- To and from process pressure gauges
- Flanged incoloy heater
- High capacity pump
- 10' installed power cord
- Outstanding warranty

### Series VE Instrument :

- Continuous *To Process* display
- Selectable *Setpoint* temperature
- Status indicators for *Power On*, *Pump On*, *Heat On*, *Cool On*
- 4 year warranty



Information on all ADVANTAGE products is available at: [www.AdvantageEngineering.com](http://www.AdvantageEngineering.com)



# SPECIFICATIONS

SPECIFICATIONS SK-		1035	1045	1065	1075	1080	1090	10100	1635	1645	1665	1675	1680	1690	16100
HEATER <sup>1</sup>	KW	10	10	10	10	10	10	10	16	16	16	16	16	16	16
PROCESS PUMP	HP	3/4	1	1 1/2	2	3	5	7 1/2	3/4	1	1 1/2	2	3	5	7 1/2
	GPM	35	45	65	75	80	90	100	35	45	65	75	80	90	100
	PSI	30	30	30	30	30	34	54	30	30	30	30	30	34	54
FULL LOAD AMPERAGE @ 3ø/60hz <sup>2</sup>	230 volt	27.8	28.6	30.2	31.8	34.6	40.3	47.1	42.8	43.6	45.2	46.8	49.6	55.4	62.2
	460 volt	13.9	14.3	15.1	15.9	17.3	20.2	23.5	21.4	21.8	22.6	23.4	24.8	27.7	31.1
DIMENSIONS (inches)	Height	27	27	27	27	27	44	44	27	27	27	27	27	44	44
	Width	11	11	11	11	11	16	16	11	11	11	11	11	16	16
	Depth	16	16	16	16	16	24	24	16	16	16	16	16	24	24
CONNECTIONS (inches)	T/F <sup>3</sup>	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	2	2	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	2	2
	S/D <sup>4</sup>	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
WEIGHT (pounds)	Shipping <sup>5</sup>	200	208	208	213	223	275	290	205	210	210	220	225	285	300

Notes: 1. Derate heater output by 25% for 208/3/60 operation. 2. Consult factory for 50hz operations. 3. T - to process; F - from process. 4. S - water supply; D - drain. 5. Approximate unit shipping weight.

## STANDARD 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

### HEATER:

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

### COOLING VALVE:

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

### CABINETY:

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

### LIMIT DEVICES:

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

### PRESSURE GAUGES:

- To process
- From process

### ELECTRICAL:

- Process pump motor starter
- Transformer
- 10' power cord installed

### 'VE' SERIES

### INSTRUMENTATION:

- Continuous *To Process* temperature display
- Selectable *Setpoint* temperature display
- Status indicators for *Power On, Pump On, Heat On, and Cool On*

### WARRANTIES:

- Lifetime pump seal
- 4 year controller
- 2 year cooling valve
- 2 year heater
- 2 year mechanical

## OPTIONS

### AVAILABLE PUMP HP:

- 3/4 to 7-1/2

### AVAILABLE HEATER KW:

- 10 or 16

### AVAILABLE COOLING VALVES:

- 3/8" to 3/4"

### TANK CONSTRUCTION:

- Total non-ferrous unit
- Closed circuit design

### CABINETY:

- Rear panel cover

### ELECTRICAL:

- Nema 12 construction

### INSTRUMENTATION:

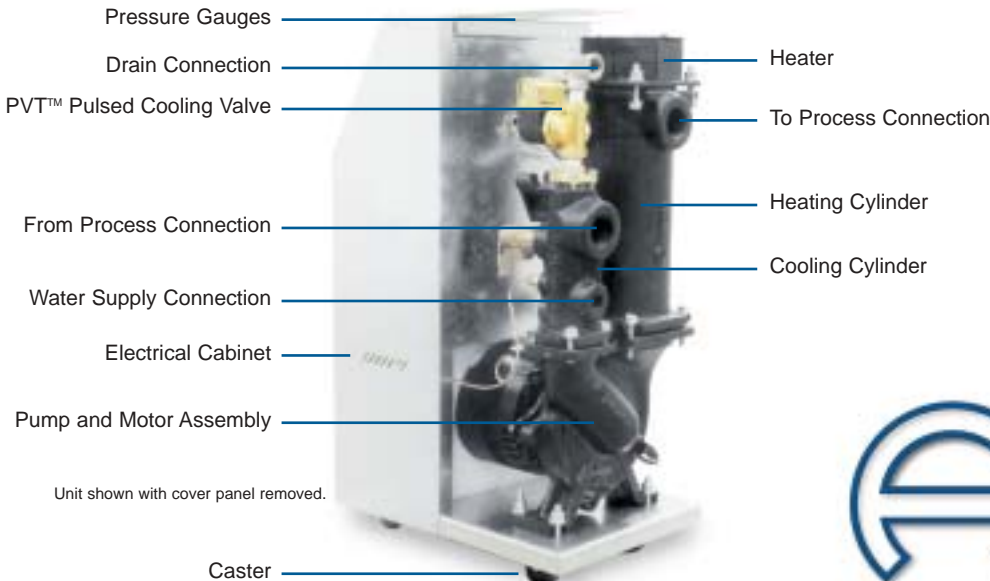
- Advantage LE Series with AVT™ modulating valve
- Advantage HE Series with AVT™ modulating valve

### MOLD PURGE:

- 1-1/4"

### UNIT:

- Dual zone dolly:
  - with water manifold
  - with electrical junction box
- Stacking stand:
  - with water manifold
  - with electrical junction box



Unit shown with cover panel removed.



since 1977

ADVANTAGE PRODUCTS: TEMPERATURE CONTROLLERS • PORTABLE CHILLERS • CENTRAL CHILLERS • PUMP TANK STATIONS • TOWER SYSTEMS • FILTERS

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