

**Temperature Control Units**

Water & Oil  
30° - 500°F

**Portable Chillers**

Air & Water-Cooled  
20° - 70°F

**Central Chillers**

Air & Water-Cooled  
Packages & Modules  
20° - 70°F

**Pump Tank Stations**

Chilled or Tower Water  
200 - 3600 gallons

**Cooling Tower Cells**

45 - 540 tons

**Filters**

**Heat Exchangers**

**Heat Recovery Units**

**WARRANTIES**

**Models with LE & HE Control Instruments:**

**2 Years** covering the entire machine.

**4 Years** covering the AVT™ valve, control instrument and heater.

**Lifetime** covering the pump seal.

**Models with VE Control Instrument:**

**2 Years** covering the entire machine.

**4 Years** covering the control instrument.

**Lifetime** covering the pump seal.

**Models with 300° Control Instrument:**

**2 Years** covering the entire machine.

**4 Years** covering the control instrument.

**2 Year** covering the pump seal.

## SENTRA® SERIES



Sentra® Series temperature control unit, model SK-1035-HE shown with 10 kW heater and 3/4 HP pump.

### WATER UNITS

The Sentra® water temperature control unit is used to preheat a process to the desired operating temperature by engaging the unit's electric immersion heater and recirculating the water in the system.

Upon reaching the operating temperature, the Sentra® water temperature control unit can continue to add heat or become a cooling device by exchanging a small amount of recirculated water with cooling water from an external source.

Tight temperature control is achieved by adding just the right amount of heat or by precisely metering cooling water into the system.

**CHOOSE THE CONTROL INSTRUMENT THAT FITS YOUR NEEDS**



'HE' Series



'LE' Series



'VE' Series



'300' Series

• 30° to 300°F Process Temperatures\*

• 10 to 34 kW Heaters

• 1/2 to 7.5 HP Centrifugal Pumps  
(20 - 100 GPM)

• 1/2" & 3/4" AVT™ Modulating Cooling Valves (LE & HE models)

• 3/8" - 1" Solenoid Cooling Valves (VE & 300°F models)

\* The Sentra relies on an external source of cooling water that must be colder than the desired set point temperature.

**APPLICATIONS**

Sentra® Series temperature control units can be used on a variety of process applications that require 30°F to 300°F process water.



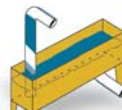
Molds & Dies



Nozzles, Barrels & Tools



Heat Exchangers



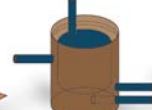
Troughs & Tanks



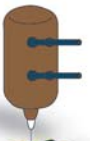
Rolls



Radiators and Air Coils



Jacketed Vessels and Mixers



Lasers

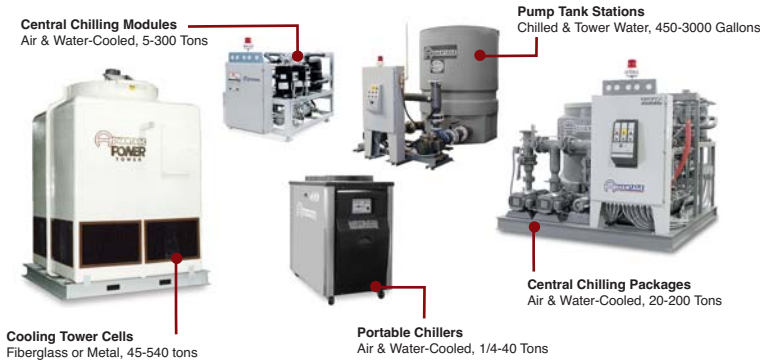
# SPECIFICATIONS

	SK-	620	635	645	665	675	680	1020	1035	1045	1065	1075	1080	1090	10100	1620	1635	1645	1665
<b>Heater<sup>1</sup></b>	<b>kW</b>	6	6	6	6	6	6	10	10	10	10	10	10	10	10	16	16	16	16
<b>Process Pump</b>	<b>HP</b>	1/2	3/4	1	1 1/2	2	3	1/2	3/4	1	1 1/2	2	3	5	7 1/2	1/2	3/4	1	1 1/2
	<b>GPM</b>	20	35	45	62	75	80	20	35	45	62	75	80	90	100	20	35	45	62
	<b>PSI</b>	30	30	30	30	30	30	30	30	30	30	30	30	30	34	54	30	30	30
<b>Full Load Amperage</b>	<b>230 volt</b>	17.0	17.8	18.6	20.2	21.8	24.6	27.0	27.8	28.6	30.2	31.8	34.6	40.3	47.1	42.0	42.8	43.6	45.2
	<b>@3Ø/60hz<sup>2</sup></b>	<b>460 volt</b>	8.5	8.9	9.3	10.1	10.9	12.3	13.5	13.9	14.3	15.1	15.9	17.3	20.2	23.5	21.0	21.4	21.8
<b>Dimensions (inches)</b>	<b>Height</b>	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	44	44	28 1/4	28 1/4	28 1/4
	<b>Width</b>	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	16	16	12 1/2	12 1/2	12 1/2
	<b>Depth</b>	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	24	24	19 1/2	19 1/2	19 1/2
<b>Connections (inches)</b>	<b>T/F<sup>3</sup></b>	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	2	2	1 1/4	1 1/4	1 1/4
	<b>S/D<sup>4</sup></b>	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
<b>Weight (pounds)</b>	<b>Shipping<sup>5</sup></b>	195	200	205	205	210	220	198	200	208	208	213	223	275	290	200	205	210	210

	SK-	1675	1680	1690	16100	2435	2445	2465	2475	2480	2490	24100	3435	3445	3465	3475	3480	3490	34100
<b>Heater<sup>1</sup></b>	<b>kW</b>	16	16	16	16	24	24	24	24	24	24	24	34	34	34	34	34	34	34
<b>Process Pump</b>	<b>HP</b>	2	3	5	7 1/2	3/4	1	1 1/2	2	3	5	7 1/2	3/4	1	1 1/2	2	3	5	7 1/2
	<b>GPM</b>	75	80	90	100	35	45	65	75	80	90	100	35	45	65	75	80	90	100
	<b>PSI</b>	30	30	34	54	30	30	30	30	30	34	54	30	30	30	30	30	34	54
<b>Full Load Amperage</b>	<b>230 volt</b>	46.8	49.6	55.4	62.2	63.1	63.9	65.5	67.1	69.9	75.5	82.3	88.2	89.0	90.6	92.2	95.0	100.6	107.4
	<b>@3Ø/60hz<sup>2</sup></b>	<b>460 volt</b>	23.4	24.8	27.7	31.1	31.6	32.0	32.8	33.6	35.0	37.8	41.2	44.1	44.5	45.3	46.1	47.5	50.3
<b>Dimensions (inches)</b>	<b>Height</b>	28 1/4	28 1/4	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
	<b>Width</b>	12 1/2	12 1/2	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	<b>Depth</b>	19 1/2	19 1/2	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
<b>Connections (inches)</b>	<b>T/F<sup>3</sup></b>	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	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	2	2
	<b>S/D<sup>4</sup></b>	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
<b>Weight (pounds)</b>	<b>Shipping<sup>5</sup></b>	220	225	285	300	270	275	280	285	290	295	310	280	285	290	295	300	305	320

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.

## OTHER PRODUCTS



### Model Designator for Sentra® Series Temperature Control Units

**SK - 1035-HE**

Sentra® Series  
Heater kW  
Flow Rate GPM

Instrument  
• HE : HE Series  
• LE : LE Series  
• VE : VE Series  
• 300° : 300° Series



Phone: 317-887-0729 Web: [www.AdvantageEngineering.com](http://www.AdvantageEngineering.com)

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

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