

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 T & LE Series 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°F Control Instrument:**
2 Years covering the entire machine.
4 Years covering the control instrument.
2 Year covering the pump seal.

SENTRA® Series Water Unit

- **30°F to 300°F Process Fluid 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 (T & G models)**
- **3/8" - 1" Solenoid Cooling Valves (VE models)**

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 supplied 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.



Sentra® Series temperature control unit, model SK-1035-T shown with 10 kW heater and ¼ HP pump.

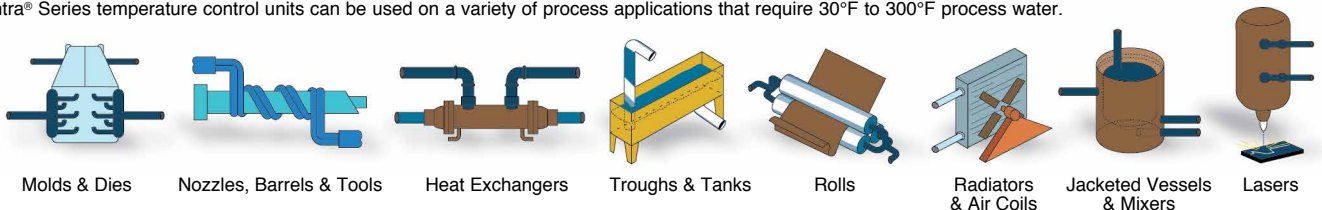
CHOOSE THE RIGHT CONTROL INSTRUMENT TO FIT YOUR NEEDS



* 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 & Air Coils

Jacketed Vessels & Mixers

Lasers

SPECIFICATIONS

		620	635	645	665	675	680	1020	1035	1045	1065	1075	1080	1090	10100	1620	1635	1645	1665
Heater¹	kW	6	6	6	6	6	6	10	10	10	10	10	10	10	10	16	16	16	16
Process Pump	HP	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
	GPM	20	35	45	62	75	80	20	35	45	62	75	80	90	100	20	35	45	62
	PSI	30	30	30	30	30	30	30	30	30	30	30	30	34	47	30	30	30	30
Full Load Amperage	230 volt	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
	@3ø/60hz²	460 volt	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
Dimensions (inches)	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	44	44	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	16	16	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	24	24	19 1/2	19 1/2	19 1/2	19 1/2
Connections (inches)	T/F³	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	1 1/4
	S/D⁴	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
Weight (pounds)	Shipping⁵	195	200	205	205	210	220	198	200	208	208	213	223	275	290	200	205	210	210

		1675	1680	1690	16100	2435	2445	2465	2475	2480	2490	24100	3435	3445	3465	3475	3480	3490	3410
Heater¹	kW	16	16	16	16	24	24	24	24	24	24	24	34	34	34	34	34	34	34
Process Pump	HP	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
	GPM	75	80	90	100	35	45	65	75	80	90	100	35	45	65	75	80	90	100
	PSI	30	30	34	47	30	30	30	30	30	34	47	30	30	30	30	30	34	47
Full Load Amperage	230 volt	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
	@3ø/60hz²	460 volt	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
Dimensions (inches)	Height	28 1/4	28 1/4	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
	Width	12 1/2	12 1/2	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	Depth	19 1/2	19 1/2	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Connections (inches)	T/F³	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
	S/D⁴	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
Weight (pounds)	Shipping⁵	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 - T

Sentra® Series
Heater kW
Flow Rate GPM

Instrument
• T : Tempender T Series
• G : G Series
• VE : VE Series



Phone: 317-887-0729 Web: www.AdvantageEngineering.com

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

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