

• **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**

SENTRA® C SERIES



WATER UNITS WITH SEAL-LESS CENTRIFUGAL PUMP DESIGN

Offered exclusively from Advantage, the C Series Sentra temperature control unit features a seal-less hermetically sealed motor pump. The pump uses a small portion of the circulated fluid to cool the motor and lubricate the motor's durable carbon graphite sleeve bearings. The rotor and stator are sealed in stainless steel enclosures for long life providing quiet and balanced operation. This design eliminates the need for a pump seal used in traditional centrifugal pumps to isolate the circulated fluid from the motor.

WARRANTIES

- **Models with LE & HE Control Instruments:**
2 Years : Entire machine.
4 Years : AVT™ valve, control instrument and heater.
- **Models with VE Control Instrument:**
2 Years : entire machine.
4 Years : control instrument.

No Pump Seals

- No pump seal leaks
- Never change a pump seal again

1.6 HP Centrifugal Pump

- High flow rates
- 10-60 GPM flow rates

10 to 16 KW Heaters

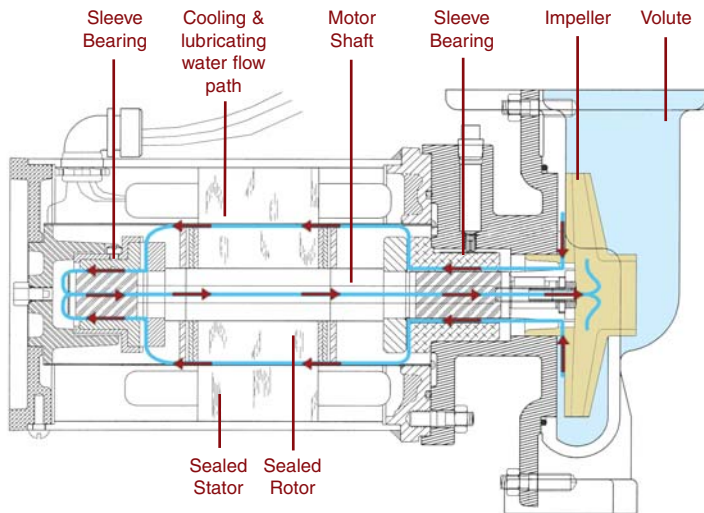
- Low watt density immersion style

VE, LE or HE Control Instrument

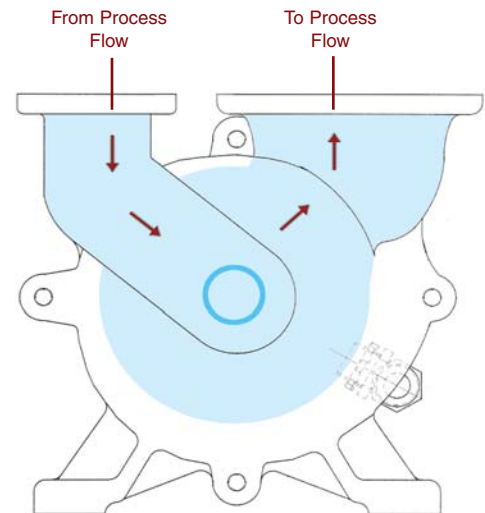
- Ultimate control flexibility

Hermetically Sealed Motor

- Long service life
- High temperature potting material
- Liquid cooled
- Liquid lubricated carbon graphite sleeve bearings
- Quiet operation
- No fans
- Vibration free



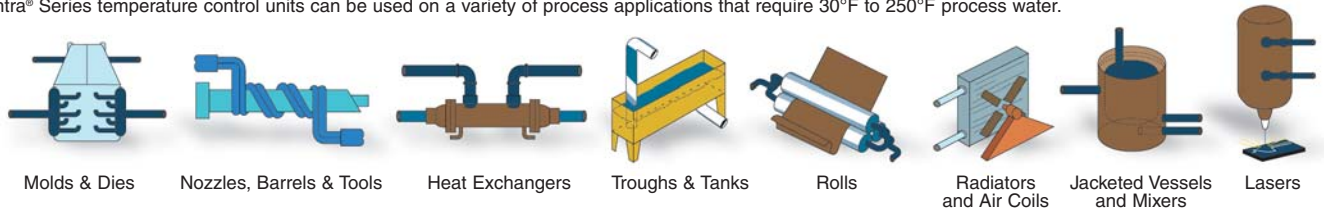
Cutaway of hermetically sealed motor pump



End view of hermetically sealed motor pump assembly

APPLICATIONS

Sentra® Series temperature control units can be used on a variety of process applications that require 30°F to 250°F process water.



Molds & Dies

Nozzles, Barrels & Tools

Heat Exchangers

Troughs & Tanks

Rolls

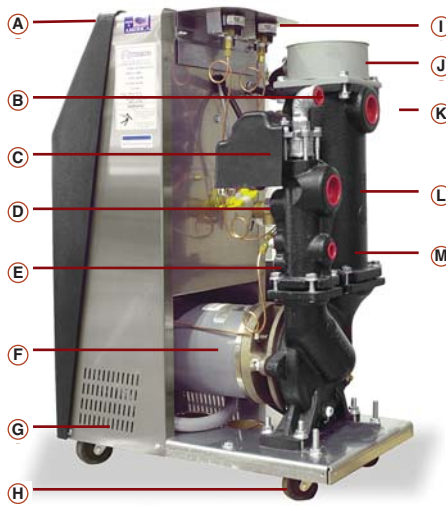
Radiators and Air Coils

Jacketed Vessels and Mixers

Lasers

STANDARD FEATURES

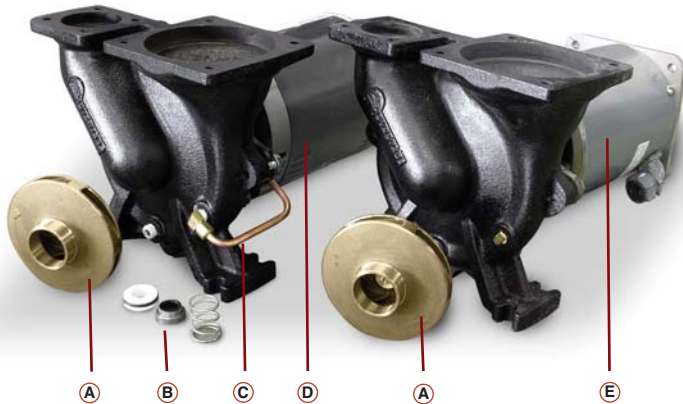
- Ⓐ Control Instrument (not visible in photo)
- Ⓑ Drain Connection
- Ⓒ Cooling Valve (AVT valve shown in photo)
- Ⓓ Pressure relief valve
- Ⓔ Flow Meter (available on 'HE' Series models)
- Ⓕ Hermetically sealed Pump Motor
- Ⓖ Vented Stainless Steel Cabinet
- Ⓗ Caster
- Ⓘ Pressure Gauges
- Ⓝ Heater
- Ⓚ To Process Connection
- Ⓛ From Process Connection
- Ⓜ Water Supply Connection



VISUAL COMPARISON Standard Pump vs. Seal-less Pump

Standard Sentra® pump with mechanical seal, seal flush and bronze impeller.

Sentra® C seal-less pump with bronze impeller.



- Ⓐ Impeller
- Ⓑ Mechanical Seal Components
- Ⓒ Seal Flush
- Ⓓ Standard Motor
- Ⓔ Hermetically Sealed Motor

CONTROL INSTRUMENTS

A fit for everyone's unique needs... for every application. From basic temperature control and monitoring to advanced machine diagnostics and primary machine interface, Sentra® temperature control units include accurate and user-friendly control instruments.



'HE' Series



'LE' Series



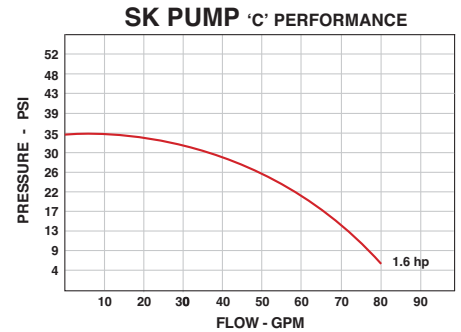
'VE' Series

SPECIFICATIONS

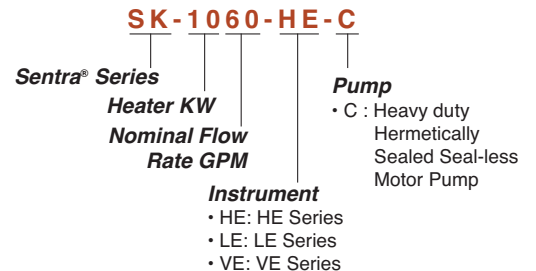
	SK-	1060	1660
Heater ¹	KW	10	16
Process Pump	HP	1.6	1.6
	GPM	35	35
	PSI	30	30
Full Load Amperage	230 volt	31.0	45.5
	@3ø/60hz ²	460 volt	15.5
Dimensions (inches)	Height	28 1/4	28 1/4
	Width	12 1/2	12 1/2
	Depth	19 1/2	19 1/2
Connections (inches)	T/F ³	1 1/4	1 1/4
	S/D ⁴	1/2	1/2
Weight (pounds)	Shipping ⁵	195	195

- 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.

PUMP CURVE



Model Designator for Sentra® C Series
Temperature Control Units



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

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

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