

3 Controllers  
To Choose From

# TEMPERATURE CONTROLLERS

## REGAL Series Oil Unit



RK-2760

### FEATURES - AT A GLANCE:

- 3 levels of microprocessor instruments
- Stainless steel enclosure panels
- High flow water-cooled centrifugal pump
- Mercury heater contactor
- Optional heat exchanger cooling circuit
- 1 years parts and labor warranty

**ADVANTAGE Regal** oil units are designed to supply up to 500°F of temperature stabilized heat transfer fluid to applications such as plastic molding, chemical processing and many others.

### PROCESS TEMPERATURES:

- 100°F to 500°F

### AVAILABLE PUMP HP:

- 3 to 7.5 HP

### AVAILABLE HEATER KW:

- 27 to 48 KW

### AVAILABLE COOLING CIRCUIT:

- 3.5 sq. ft. heat exchangers

### STANDARD DIMENSIONS:

- 65" x 22" x 33" (HxWxD)

**CUSTOM DESIGNS...** if one of our standard models does not fit your application, then we can design a custom unit that will.



HE Instrument



LE Instrument



400°F Instrument



# SPECIFICATIONS

<b>SPECIFICATIONS RK-</b>		<b>2770H</b>	<b>27100H</b>	<b>3660H</b>	<b>3670H</b>	<b>36100H</b>	<b>4870H</b>	<b>48100H</b>
<b>HEATER<sup>1</sup></b>	KW	27	27	36	36	36	48	48
<b>PROCESS PUMP</b>	HP	5	7½	3	5	7½	5	7½
	GPM	70	100	60	70	100	70	100
	PSI	28	44	26	28	44	28	44
<b>FULL LOAD AMPERAGE @ 3½/60hz<sup>2</sup></b>	230 volt	84.0	90.8	101.1	106.7	113.5	138.8	143.6
	460 volt	42.4	45.8	50.9	53.7	57.1	68.9	72.3
	575 volt	33.9	36.6	40.7	42.9	45.6	55.1	57.8
<b>DIMENSIONS</b>	Height	65"	65"	65"	65"	65"	65"	65"
	Width	22"	22"	22"	22"	22"	22"	22"
	Depth	33"	33"	33"	33"	33"	33"	33"
<b>CONNECTIONS</b>	T/F <sup>3</sup>	2"	2"	2"	2"	2"	2"	2"
	S/D <sup>4</sup>	½"	½"	½"	½"	½"	½"	½"
<b>WEIGHTS (pounds)</b>	Shipping <sup>5</sup>	715	730	640	725	740	750	770

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<b>PROCESS PUMP</b>	HP	5	7½	3	5	7½	5	7½
	GPM	70	100	60	70	100	70	100
	PSI	28	44	26	28	44	28	44
<b>HEAT EXCHANGER</b>	Sq.Ft.	3.7	3.7	3.7	3.7	3.7	3.7	3.7
<b>FULL LOAD AMPERAGE @ 3½/60hz<sup>2</sup></b>	230 volt	84.0	90.8	101.1	106.7	113.5	138.8	143.6
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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 shipping weight. PLEASE NOTE: Models with an "H" suffix provide heating only. Models with an "HC" suffix provide cooling through a 3.5 sq. ft. U-tube heat exchanger and heating.

# OPTIONS

## INSTRUMENTATION:

- HE remote display with 20' cable
- SPI communications cable - 20'

## SYSTEM ALARMS:

- Audible alarm
- Visual/audible alarm beacon

## HEAT EXCHANGERS:

- Special heat exchanger sizes

## ELECTRICAL:

- Nema 12 construction
- Special electrics

# STANDARD FEATURES

## TANK CONSTRUCTION:

- Twin tanks - separate heating and suction tanks
- Large capacity expansion tank
- NPT process connections
- Process line shut-off valves
- Flange mounted to pump
- Oil level sight glass
- Air operated mold purge circuit
- Fluid drain valve
- Fluid fill port
- Leak proof weldments

## PUMP:

- Low pressure centrifugal pump
- Cast iron casing
- Bronze pump impeller
- Water-cooled pump seal
- Stainless steel pump shaft

## PRESSURE GAUGE:

- To process

## WARRANTY:

- 1 year parts and labor

## HEATER:

- Flanged bolt-in mount
- Vertical orientation
- Steel heater sheath
- Mercury heater contactor

## CABINETRY/FRAME:

- Stainless steel cabinetry
- Hinged electrical cabinet door
- Portable, on casters
- Tubular steel frame

## LIMIT DEVICES:

- Water supply pressure
- Motor overload relay
- Pressure relief valve (water)
- High temperature limit
- Fused control circuit

## ELECTRICAL:

- Nema rated electrical cabinet
- Process pump motor starter
- Fused transformer
- 110 volt alarm output

## INSTRUMENTATION - 3 AVAILABLE SELECTIONS:

### 400° INSTRUMENT:

- Up to 400°F temperatures
- Large temperature display
- Status lights for *power, heat and cool*
- On/off toggle switch
- Setpoint selector dial

### 'LE' INSTRUMENT - up to 500°F:

- Single temperature display for *to process, from process and setpoint temperatures*
- Status lights for *power, pump heat, cool and alarm*
- Error lights for *pump overload, low water pressure, and high temperature*
- Pump start switch
- Unit on/off toggle switch

### 'HE' INSTRUMENT - up to 500°F:

- Continuous *to process* temperature display
- Selectable *from process* temperature display
- Temperature display in Fahrenheit or Celsius
- Continuous *setpoint* temperature display
- Setup display for *temperature, network and machine*
- Capacity display for *heat, cool and dead band*
- Ok-fault status display for *temperature deviation, probe, water pressure, high temperature, pump overload and phase*
- Alarm display
- Communications display
- SPI communications
- Soft key operators

**WARRANTY and SERVICE...** The REGAL temperature controller is supported by a comprehensive factory warranty. Refer to bulletin ADV-205 for complete warranty details. The ADVANTAGE service department is staffed with experienced technicians, and supported by a nation wide network of independent service contractors. With ADVANTAGE, service is only a phone call away.



since 1977

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

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