

SCR Power Controllers

HC Thermal offers a line of SCR power controllers to compliment our product portfolio, broadening our ability to service customers' unique process heating applications. With several types available, we offer zero-cross SCRs to compliment resistive loads or electric heaters. Compared to phase angle, zero-cross produces the least amount of harmonics and feedback into the power grid providing a precise control.

Our SCRs coupled with a reputable PID loop temperature controller will provide excellent proportional control with the desired accuracy and turndown needed for your project's process control.



Features

- 3-Phase/AC design
- Zero-cross operation
- Control capability from 25A to 800A
- 22 to 690V range
- Advanced CPU for top processing speed
- Compact design to minimize footprint
- Optimized heat dissipation design
- Process controller integrated
- Additional I2T fuses for extra SCR protection



Applications

- Stand Alone Units
- Control Panels with Resistive Loads
- Industrial/Process Electric Heaters
 - Hot oil systems
 - Process water
 - Oil/Gas
 - Dehydration
 - Energy storage solutions
 - Decarbonization

Product Matrix

Series	Current (Amps)		Option
HCS30E	0025	0270	T: Temperature Control
	0040	0320	ED: External Display
	0075	0450	EF: External Feedback
	0100	0600	R: True RMS
	0150	0800	C: Ethernet IP
	0200		P: Profibus

Rated(A)	0025,0040,0075,0100,0150	0200,0270,0320	0450,0600,0800
Dimension (mm)	300×154×206	360×194×239	570×470×230

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Application Worksheet

Process Conditions

Application:			
Fluid:	Flow Rate:	Inlet Temp:	Outlet Temp:
Inlet PSIG:	Design PSIG:	Design Temp:	Corrosion:
Volts/Phase:	kW:	Circuit: #	Sensor Type:
Housing Detail:			
Area Classification/T Code:			
Power Conduit Size/Qty:			
Insulation Requirements:		Piping Connection Type (Inlet/Outlet):	
Additional Notes:			

Customer Information

Company:	Name:
Email:	Phone:
Location:	

***LONGEST WARRANTY IN THE INDUSTRY**

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