



HEAT EXCHANGER CONTROLLED FLUID TEMPERATURE SYSTEM

*Automated fluid thermal conditioning systems
for critical process applications*

Overview

The Heat Exchanger System changes the temperature of a primary (or process) fluid by transferring heat to or from a secondary fluid. An output fluid temperature setting is entered into the system's controller. The controller will then vary the transfer fluid flow rate, as necessary, to maintain the actual process fluid output temperature to within $\pm 1^\circ\text{C}$ of setpoint (in a given temperature/flow range).

The system contains two high-purity PFA Entegris pHasor® X heat exchanger modules. The primary fluid is plumbed in parallel through the heat exchangers. The secondary fluid can be set for serial or parallel flow through the heat exchangers, depending on required flow rate and thermal contact time for a give flow range.

Applications

- UPW thermal process control

Key Features

- Entegris proprietary pHasor X heat exchanger technology enables efficient and clean thermal transfer
- Excellent compatibility with UPW as well as aggressive chemicals
- Superior corrosion resistance
- Automatic or manual controls available
- Superior downstream thermal control



Specifications

Primary and Secondary Fluid Requirements:	Flow	System-25: 25 L/min max
	Pressure	80 PSIG max @ 25°C or 40 PSIG @ 65°C
	Temperature	22–25°C
Outlet Performance:	±1°C typical for given flow and temperature range. Please contact Entegris for assistance in calculating system performance or refer to the heat exchanger calculator on the Entegris website.	
Power:	230 VAC	
Dimensions:	Height	166.62 mm (65.6")
	Width	61 mm (24")
	Depth	61 mm (24")

Ordering Information

Part Number	Description
S3812R004B08	Heat Exchanger Liquid Temperature System, 25 L/min system

For More Information

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit www.entegris.com and select the Customer Service link for the center nearest you.

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