

eVap[™]1000/1100

Liquid to Liquid Laboratory Heat Exchanger

The eVap[™] 1000/1100* utilizes a building's chilled water or process system to reject heat from the laboratory experiments through the use of a patent-pending system that includes a highly efficient magnetic bearingless pump, variable speed flow control and a stainless steel metal plate and frame heat exchanger. The technology is refined in the eVap 1500 to help institutions save significant energy by eliminating large plug loads from equipment and conserve water while creating higher performing research environments.

The eVap 1100 has a larger flow and cooling capacity but is otherwise similar in construction and operation to the eVap 1000. Both units are constructed from lead-free and corrosion-resistant materials, including brass, copper and 316 Stainless Steel. These units are portable and can be mounted to both bench tops and walls or suspended on laboratory equipment racks inside fume hoods to minimize space requirements.



ONE UNIT

Provides up to 8.8 KW of cooling (30,000 btu/hr).

Saves over 750,000 gallons of fresh water every year as compared to once through water cooling.

Uses less than 1/10th the electrical power of standard compressorized or thermal electric cooling units.

Is small, portable, quiet, lightweight and can mount inside the fume hood, on a benchtop or below a counter.

Is less expensive than many comparable compressorized chiller units.

Does not add heat, noise or vibration to the laboratory environment.

Prevents laboratory flooding using a lab loop requiring less than one liter of water.

Uses standard 110V power and can mount to lab rack, wall or benchtop.

Can be installed in minutes without special tools.

Eliminates hoses or tubing running to equipment from sinks across counter tops or from pumps in buckets of ice.

SPECIFICATIONS

	eVap 1000	eVap 1100
Nominal Pump Capacity (GPM / LPM)	0.5 / 1.9	2.0 / 7.5
Cooling Capacity at 20° F dT (BTU/HR / WATTS)	5,000 / 1,500	30,000 / 8,800
Building Water Flow Rate at 20° F dT (GPM / LPM)	1.0 / 3.79	6.0 / 22.80
Pressure (PSI)	2.0	3.5
Shipping Weight (LBS / KG)	13 / 6	14 / 6.4
Speed	Variable	Variable
Electrical Maximum Power Consumption	110 volt/single phase 12 watts	110 volt/single phase 26 watts
Coolant	Building Chilled Water or Process Water	
Operating Temperature Range	40° – 180° F / 4° – 71° C	
Dimensions (W X D X H)	10.5" (26.7cm) x 7" (17.8 cm) x 10.5" (26.7 cm)	
Hose Connections (LAB AND BUILDING WATER)	3/8" (9.5 mm)	
Manufactured	USA	

Units are constructed from lead free and corrosion resistant materials including brass, copper and 316 Stainless Steel.

Units are portable and come with the standard ability to be bench mounted, wall mounted, or mounted to fume hood lab racks to minimize space requirements.

For prices, custom sizes, ordering or more information