

FLUID TO FLUID HEAT EXCHANGER



38241 Willoughby Parkway
Willoughby, OH 44094
www.BVThermal.com
209-522-3701



FLUID TO FLUID HEAT EXCHANGER



The fluid to fluid heat exchangers from BV Thermal Systems offer the advantage of using existing in-house water for heat removal and provide a clean stable, controlled closed-loop water cooling system. The heat exchangers are ideal when in-house water is either too cold, too dirty or does not have enough pressure to adequately support your water cooled equipment. By eliminating the problems associated with direct use of in-house water such as insufficient or fluctuating flow and changing pressure, the fluid to fluid heat exchangers from are the ideal low cost energy saving heat removal process.

Features

- 20,000 watts to 500,000 watts
- PLC Driven - no proprietary PC boards
- Auto-tuning PID controller
- Easy fill reservoir with 3" fill port with screw on top
- Liquid filled pressure gauge in PSIG/kPA
- RoHS compliant
- Pulsation dampener on solenoid circuit
- Reservoir drain with valve
- Liquid filled pressure gauge
- Corrosion free wetted surfaces
- Adjustable high & low temperature alarms
- Locking, non-marring casters

Some available options

- RS-232 or RS-485 interface
- Alternate water pump
- Various voltages
- Flow switch
- Flow meter
- Supply water particulate filter
- NEMA 4x electrical enclosure & weather proofing measures

For a more complete list of options available, please contact us.

Specifications

MODEL	HRE200	HRE400	HRE500	HRE1000
Cooling Capacity	20,000 watts @5°C△	40,000 watts @5°C△	50,000 watts @6°C△ w/12 GPM supply	100,000 watts @10°C△ w/15 GPM supply
Stability	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Range	5°C to +50°C	5°C to +50°C	5°C to +50°C	5°C to +50°C
Pump	2.2 GPM to 60 PSI	4.2 GPM to 60 PSI	7 GPM to 40 PSI	10 GPM to 40 PSI
Reservoir Volume	1.3 gal	1.3 gal	2 gal	2 gal
Dimensions (w x d x h) in	14.5 x 22 x 29	14.5 x 22 x 29	22 x 30 x 28.5	24 x 29.5 x 37
Power Requirements	115V, 5A	115V, 7A	230V, 10A	230V, 10A
Weight (lbs)	50	60	100	110

RACKMOUNT FLUID TO FLUID HEAT EXCHANGER



The BV Thermal Systems Rack Mount Fluid to Fluid Heat Exchanger is compatible with standard 19 inch rack mount systems. These units offer continuous cooling with a temperature range from +5° to +50°C and cooling capacity to 75,000 watts. Featuring an easy front fill reservoir, auto-tuning PID temperature controller and a liquid filled pressure gauge.

Features

- 20,000 watts to 500,000 watts
- PLC Driven - no proprietary PC boards
- Auto-tuning PID controller
- Easy fill reservoir with 3" fill port with screw on top
- Liquid filled pressure gauge in PSIG/kPA
- RoHS compliant
- Pulsation dampener on solenoid circuit
- Reservoir drain with valve
- Liquid filled pressure gauge
- Corrosion free wetted surfaces
- Adjustable high & low temperature alarms

Some available options

- RS-232 or RS-485 interface
- Alternate water pump
- Various voltages
- Flow switch
- Flow meter
- Supply water particulate filter
- NEMA 4x electrical enclosure & weather proofing measures

For a more complete list of options available, please contact us.

Specifications

MODEL	HRE200-19	HRE400-19	HRE50019	HRE1000-19
Cooling Capacity	20,000 watts @5°C△	40,000 watts @5°C△	50,000 watts @6°C△ w/12 GPM supply	100,000 watts @10°C△ w/15 GPM supply
Stability	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Range	5°C to +50°C	5°C to +50°C	5°C to +50°C	5°C to +50°C
Pump	2.2 GPM to 60 PSI	4.2 GPM to 60 PSI	7 GPM to 40 PSI	10 GPM to 40 PSI
Reservoir Volume	1.3 gal	1.3 gal	2 gal	2 gal
Dimensions (w x d x h) in	17x 22 x 15.75	17 x 22 x 15.75	17 x 22 x 15.75	17 x 22 x 15.75
Power Requirements	115V, 5A	115V, 7A	230V, 10A	230V, 10A
Weight (lbs)	50	60	100	110

TALL RACKMOUNT FLUID TO FLUID HEAT EXCHANGER



The BV Thermal Systems Tall Rack Mount Fluid to Fluid Heat Exchanger is designed to accommodate the specialized requirements such as an additional heater, oversized plate style exchanger or even an extended tank. The tall rackmount fluid to fluid heat exchangers are still ideal when in-house water is either too cold, too dirty or does not have enough pressure to adequately support your water cooled equipment, just in a larger frame.

Features

- 20,000 watts to 500,000 watts
- PLC Driven - no proprietary PC boards
- Auto-tuning PID controller
- Easy fill reservoir with 3" fill port with screw on top
- Liquid filled pressure gauge in PSIG/kPA
- RoHS compliant
- Pulsation dampener on solenoid circuit
- Reservoir drain with valve
- Liquid filled pressure gauge
- Corrosion free wetted surfaces
- Adjustable high & low temperature alarms

Some available options

- RS-232 or RS-485 interface
- Alternate water pump
- Various voltages
- Flow switch
- Flow meter
- Supply water particulate filter
- NEMA 4x electrical enclosure & weather proofing measures

For a more complete list of options available, please contact us.

Specifications

MODEL	HRE200-19	HRE400-19	HRE50019	HRE1000-19
Cooling Capacity	20,000 watts @5°CΔ	40,000 watts @5°CΔ	50,000 watts @6°CΔ w/12 GPM supply	100,000 watts @10°CΔ w/15 GPM supply
Stability	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Range	5°C to +50°C	5°C to +50°C	5°C to +50°C	5°C to +50°C
Pump	2.2 GPM to 60 PSI	4.2 GPM to 60 PSI	7 GPM to 40 PSI	10 GPM to 40 PSI
Reservoir Volume	1.3 gal	1.3 gal	2 gal	2 gal
Dimensions (w x d x h) in	Dimensions determined by requirements	Dimensions determined by requirements	Dimensions determined by requirements	Dimensions determined by requirements
Power Requirements	115V, 5A	115V, 7A	230V, 10A	230V, 10A
Weight (lbs)	50	60	100	110

FLOURINATED FLUID HEAT EXCHANGER



Fluorinated fluids are used in a variety of systems and are utilized for extreme conditions because of their unique properties including non-flammability, low and high temperature (-80°C to +290°C), stability and non-toxicity.

The Fluorinated Fluid Heat Exchanger from BV Thermal Systems is capable of meeting the SEMI-S2 Safety standards and the F-47 power and voltage sag standards in addition to meeting your exact specifications.

Features

- 20,000 watts to 500,000 watts
- PLC Driven - no proprietary PC boards
- Auto-tuning PID controller
- Easy fill reservoir with 3" fill port with screw on top
- Liquid filled pressure gauge in PSIG/kPA
- RoHS compliant
- Pulsation dampener on solenoid circuit
- Reservoir drain with valve
- Liquid filled pressure gauge
- Corrosion free wetted surfaces
- Adjustable high & low temperature alarms

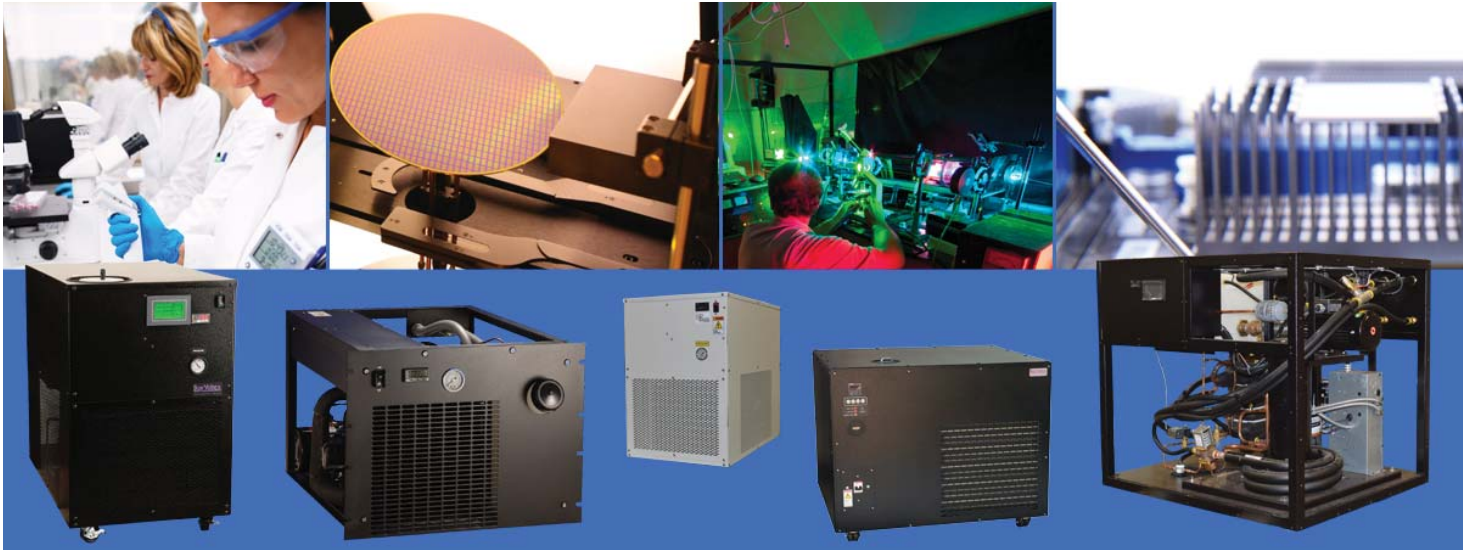
Fluorinated Fluids

- Galden
- Solvay
- DuPont
- 3M
- FluoSolv

For a more complete list of options available, please contact us.

Specifications

MODEL	FF-HRE200	FF-HRE400	FF-HRE500	FF-HRE1000
Cooling Capacity	20,000 watts @5°CΔ	40,000 watts @5°CΔ	50,000 watts @6°CΔ w/12 GPM supply	100,000 watts @10°CΔ w/15 GPM supply
Stability	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Range	5°C to +50°C	5°C to +50°C	5°C to +50°C	5°C to +50°C
Pump	2.2 GPM to 60 PSI	4.2 GPM to 60 PSI	7 GPM to 40 PSI	10 GPM to 40 PSI
Reservoir Volume	1.3 gal	1.3 gal	2 gal	2 gal
Dimensions (w x d x h) in	Dimensions determined by requirements	Dimensions determined by requirements	Dimensions determined by requirements	Dimensions determined by requirements
Power Requirements	115V, 5A	115V, 7A	230V, 10A	230V, 10A
Weight (lbs)	50	60	100	110



About BV Thermal Systems

Since 1980, BV Thermal Systems has produced recirculating chillers and heat exchangers. With a variety of models including standard temperature (5 – 35°C), low temperature (-40 – +30°C) and extended temperature (-40 – +160°C) as well as rack mounted chillers and heat exchangers. BV Thermal Systems has become a leader in temperature control. Additionally, BV Thermal Systems is also able to produce reliable fluid temperature control systems running at 200°C and above.



World Headquarters BV Thermal Systems, Division of Budzar Industries

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