

CUSTOM DESIGN OPTIONS



Extended Temperature Chillers from BV Thermal Systems, Division of Budzar Industries, deliver chilling control with excellent accuracy and are designed for use with fluids like galden, HFE's and Oils. The Extended Temperature Chillers have a temperature range of -40° to 230°C and features include the highest quality refrigeration and plumbing components in the industry – stainless steel evaporator/heat exchanger, hot gas bypass and fluid bypass/pressure regulating valve. Other standard features included are: PID temperature controller, hard brazed or welded connections, seamless reservoirs, Din rail mounted components, heavy duty powder coated paint and service without equal.

Customization Options

- Special certifications (SEMI, S2, CE, IL, CSA, OSHPD)
- Custom unit dimensions
- Custom connections (size, type, location)
- Special materials (stainless steel, PVC, nickel plated aluminum)
- Installation kits
- Universal electric (50/60hz)
- Back-up pumping systems
- Redundant refrigeration systems
- Backflow prevention
- Automatic city water back-up
- Specialty pumping systems
- Custom controls and displays
- Custom communications
- Fluorinated chillers Oil compatible chillers
- De-ionization
- Built-in piping manifolds
- Washdown enclosures
- Extreme environment
- Sealed systems
- Vibration isolation

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

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Standard Units Available from BV Thermal Systems

Recirculating Chiller - standard sizes



MODEL	MC025	MC033	MC050	MC075	MC100	MC150	MC200
Cooling Capacity	828 watts @ 20°C	1073 watts @ 20°C	1764 watts @ 20°C	2393 watts @ 20°C	3163 watts @ 20°C	4895 watts @ 20°C	7000 watts @ 20°C
Stability	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Range	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C
Pump	2.2 GPM to 99 PSI	2.2 GPM to 99 PSI	2.2 GPM to 99 PSI	2.2 GPM to 99 PSI	2.2 GPM to 99 PSI	4.0 GPM to 99 PSI	4.0 GPM to 99 PSI
Reservoir Volume	2 gal	2 gal	2 gal	2 gal	2 gal	2 gal	7 gal
Dimensions (w x d x h) in	14.5 x 22 x 29	14.5 x 22 x 29	14.5 x 22 x 29	14.5 x 22 x 29	36 x 27 x 29.75	36 x 27 x 29.75	38 x 32 x 39
Power Requirements	115V, 9A	115V, 12A	200-230V, 8A	200-230V, 10A	200-230V, 12A	200-230V, 20A	200-230V, 17A
Weight (lbs)	130	130	142	180	258	270	404

Fluid to Fluid Heat Exchanger- standard sizes

MODEL	HRE200	HRE400	HRE500	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	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	200-230V, 10A	200-230V, 10A
Weight (lbs)	50	60	100	110



Rackmount Chiller - standard sizes



MODEL	MC017-19	MC025-19	MC033-19	MC050-19
Cooling Capacity	500 watts @20°C	828 watts @20°C	1073 watts @-20°C	1764 watts @20°C
Stability	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Temperature Range	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C
Pump	2.2 GPM to 60 PSI	2.2 GPM to 60 PSI	2.2 GPM to 60 PSI	2.2 GPM to 60 PSI
Reservoir Volume	.075 gal	.075 gal	.075 gal	.075 gal
Dimensions in" (w x d x h)	17 x 22 x 15.75	17 x 22 x 15.75	17 x 22 x 15.75	17 x 22 x 15.75
Power Requirements	120V, 6A	120V, 8A	120V, 9A	120V, 15A
Weight (lbs)	60	68	68	79

If you don't see a standard unit that works for your process, we have the ability to design, engineer and manufacture the unit you require for your process. If it's possible, we can do it

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