

REFRIGERATED RE-CIRCULATING FLUID CHILLERS

OTR Series - Air Cooled Chiller/Heater

A Partial List of Process Cooling Markets: Aero. & Defense, Digital Printing, Food & Beverage, Mobile Imaging, Plastics Photonics, Research, & Semi-Conductor.



Model OTR-.25A to OTR-.5A shown

Features:

- 0.2 to 10 Tons (0.6 to 35 kW) of cooling capacity
- 1.5 to 4 kW of heating capacity
- Opti Temp patented *advanced refrigeration control circuitry* (ARC) standard
- Micro-processor based PID auto tuning controller with digital display
- Programmable high temp or high/low temp alarm
- Temp output in °C or °F
- Dual frequency compatible
- Operating temperature ranges up to 190°F
- Non-ferrous wetted construction standard
- Rugged powder coated steel cabinetry
- Stainless steel MNPT process connections
- Swivel casters standard
- Removable cover and side access panels
- NEMA 1 electrical enclosure standard
- S.S. brazed plate evaporator
- Power cord provided
- One year limited warranty

Contact Information:

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Models OTR-.25A to OTR-10A 0.2 to 10 Tons, 0.6 to 35 kW

Options:

Controls / Interlocks

- PLC controller
- RS232 and RS485 communication
- Ethernet ready controller
- Remote start/stop
- Audible alarm with silence
- Visual alarm beacon
- Remote control
- Fluid monitoring and control devices

Electrical

- NEMA 4 (outdoor) controls
- 24V control systems
- Phase monitor
- Power cord extension
- CE compliance
- NRTL certifications

Mechanical

- Specialty wetted construction materials
- Multiple pump upgrades
- Anti-drain back prevention
- Particle filters
- Heater options
- Remote temp sensing
- Fluid circuit insulation
- Manifolds
- Extended warranty

Other

- OPTISHIELD® corrosion inhibitors

Please contact our sales & applications department for a more complete list of available options.

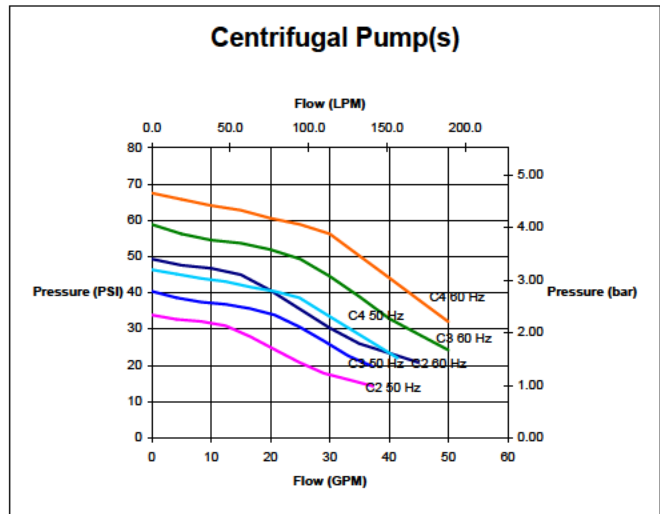
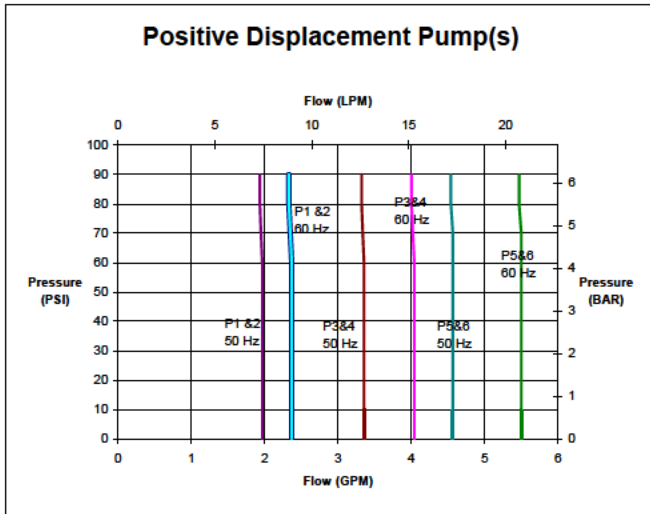
REFRIGERATED RE-CIRCULATING FLUID CHILLERS

Specifications⁽¹⁾

| Description | | OTR-.25A | OTR-.33A | OTR-.5A | OTR-.75A | OTR-1.0A | OTR-1.5A | OTR-2.0A | OTR-3.0A | OTR-5.0A | OTR-7.5A | OTR-10A |
|---|--|----------|----------|---------|----------|----------|----------|----------|----------|----------|----------|---------|
| Standard Flow Rating ⁽²⁾ | GPM at | 2 | 2 | 2 | 4 | 4 | 4 | 5.5 | 7 | 12 | 18 | 24 |
| | PSI | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 55 | 53 | 62 | 58 |
| Max Available Flow Range ⁽³⁾ | GPM | 3.5 | 3.5 | 3.5 | 5 | 5 | 5 | 26 | 26 | 38 | 48 | 48 |
| Pump (Standard) | HP | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | .5 | 1.5 | 1.5 | 2 | 2 |
| | Code | P1 | P1 | P1 | P3 | P3 | P3 | P5 | C3 | C3 | C4 | C4 |
| Connection | MPT | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1.25 | 1.5 |
| Capacity ⁽⁴⁾ | KW | 0.6 | 0.8 | 1.3 | 2.3 | 2.8 | 5 | 6 | 10.5 | 16 | 24 | 35 |
| | BTU/hr | 2000 | 2890 | 4570 | 7940 | 9550 | 17000 | 20700 | 36100 | 54400 | 82000 | 120000 |
| | tons | 0.2 | 0.25 | 0.4 | 0.7 | 0.8 | 1.4 | 1.7 | 3 | 4.5 | 6.8 | 10 |
| Heater Size ⁽⁵⁾ | KW | 1.5 | 1.5 | 1.5 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | HP | 0.25 | 0.33 | 0.5 | 0.75 | 1 | 1.5 | 2 | 3.5 | 5 | 7.5 | 10 |
| Compressor | Type | H | H | H | H | H | H | H | S | S | S | S |
| | Full Load Amps ⁽⁶⁾ <small>(without heat/with heat)</small> | 115/1/60 | 12.5/25 | 14/26.5 | 19/31 | 23/48 | | | | | | |
| Dimensions ⁽⁷⁾ | Height | 22.5 | 22.5 | 22.5 | 22.5 | 27.5 | 27.5 | 26.5 | 26.5 | 34.5 | 45 | 45 |
| | Width | 15 | 15 | 15 | 24 | 28 | 28 | 36 | 36 | 31 | 34.5 | 34.5 |
| | Depth | 23 | 23 | 23 | 24.5 | 25 | 25 | 36 | 36 | 46 | 46 | 46 |
| Weight | lbs. | 175 | 175 | 200 | 250 | 250 | 260 | 395 | 500 | 550 | 750 | 800 |
| Internal Reservoir | Gallon | 1 | 1 | 1 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 9 | 9 |
| Temp Stability ⁽⁸⁾ | °F | ± 0.2 | ± 0.2 | ± 0.2 | ± 0.2 | ± 0.2 | ± 0.2 | ± 0.2 | ± 0.2 | ± 0.2 | ± 0.2 | ± 0.2 |
| Refrigerant | Type | R134A | R134A | R134A | R134A | R134A | R134A | R134A | R134A | R407C | R407C | R407C |

(1) As a result of continuous improvement efforts, specifications are subject to change without notice or liability. (2) Pump pressures at pump discharge. (3) Max flow rating with optional pumps. (4) Capacity based on 55 °F LWT and 95 °F ambient air temperature. Capacities may be ± 5% as reserved by compressor manufacturer. (5) Standard heater size shown, contact factory for optional heater sizes. (6) Full load amps for models with standard pumps. Consult applications engineering for models with optional pumps. Full load amps must be used for sizing disconnects and supply wiring. Contact factory for 50 Hz applications engineering. (7) Dimensions are approximate and do not include filters. (8) Cooling stability only. Optional heating stability ± 2.0°F.

Pump Curves:



Standard pumps shown, other optional pumps available