

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.

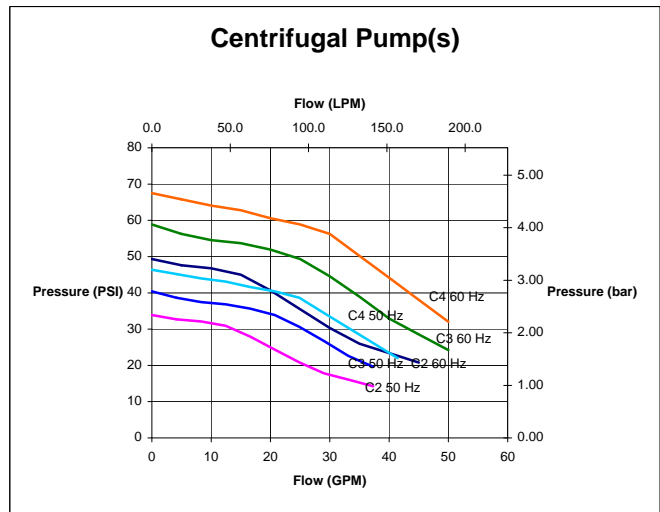
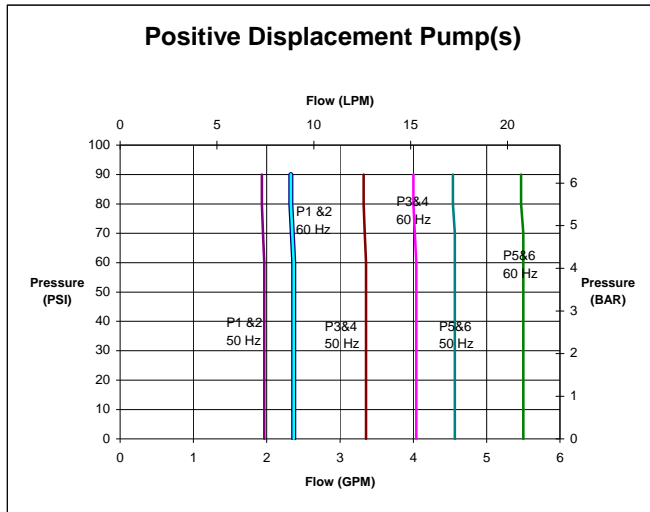
REFRIGERATED RE-CIRCULATING FLUID CHILLERS

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 PSI	2 65	2 65	2 65	4 65	4 65	4 65	5.5 65	7 55	12 53	18 62	24 58
Max Available Flow Range ⁽³⁾	GPM	3.5	3.5	3.5	5	5	5	26	26	38	48	48
Pump (Standard)	HP Code	0.33 P1	0.33 P1	0.33 P1	0.33 P3	0.33 P3	0.33 P3	.5 P5	1.5 C3	1.5 C3	2 C4	2 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
Compressor	HP	0.25	0.33	0.5	0.75	1	1.5	2	3.5	5	7.5	10
	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							
	230/1/60		7/13.5	9/15	13/25.5	15/28	21.5/34	29/45	45/62	47/64		
	230/3/60					11/24	16/28	17/33.5	31/47.5	35.5/52	57/67	60/70
	460/3/60					6/12	7.5/13	10/18	15/23	14/22	23/28	35/40
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	R134A	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