

REFRIGERATED RE-CIRCULATING FLUID CHILLERS

OTC Series - Portable Water Cooled

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



Model OTC-.5W shown

Features:

- 0.57 to 12 Tons (2 to 42 kW) of cooling 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 90°C
- 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 OTC-.5W to OTC-10W 0.57 to 10 Tons (2 to 35 kW)

Options:

Controls / Interlocks

- 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
- UV filters
- Immersion heaters
- Remote temp sensing
- Fluid circuit insulation
- Manifolds
- Drain kits
- Extended warranty

Other

- Fluid conductivity control systems
- Automatic fluid pH control systems
- 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		OTC-.5W	OTC-.75W	OTC-1.0W	OTC-1.5W	OTC-2.0W	OTC-3.0W	OTC-5.0W	OTC-7.5W	OTC-10W
Standard Flow Rating ⁽²⁾	GPM at PSI	3.2 65	4 65	4 65	4 65	5.5 65	7 55	12 53	18 56	24 53
Pump (Standard)	HP	0.33	0.33	0.33	0.33	.5	1.5	1.5	2	2
	Code	P1	P3	P3	P3	P5	C3	C3	C4	C4
Cooling Fluid	GPM	1	1.6	2	3	5	7	14	21	28
	Connection (MPT)	0.5	0.5	0.5	0.5	1	1	1	1.25	1.5
Process Connection	MPT	0.5	0.5	0.5	0.5	1	1	1	1.25	1.5
Capacity ⁽³⁾	KW	2.0	3.0	4.5	5.9	7.5	12.1	20.3	24.5	35
	BTU/hr	6,840	10,360	15,360	20,160	25,530	41,390	69,290	83,450	120,000
	tons	0.57	0.86	1.28	1.68	2.13	3.45	5.77	6.95	10
Compressor	HP	0.5	0.75	1.5	2.25	3.0	3.0	5.0	6.0	10
	Type	H	H	H	H	H	H	H	S	S
Full Load Amps ⁽⁴⁾	115/1/60	19.8	25.0							
	100/1/50	16.5	20.8							
	230/1/60	9.7	14.3	16.6	18.5	28.0	33.1	52.9		
	230/1/50	8.1	11.9	13.8	15.4	21.5	25.2	41.7		
	230/3/60			12.4	14.4	16.6	19.1	32.0	27.5	45.4
	460/3/60			7.5	8.9	7.7	9.6	14.6	13.4	22.3
Dimensions ⁽⁵⁾	Height	22.5"	22.5"	27.5"	27.5"	26.5"	26.5"	55"	55"	55"
	Width	24"	24"	28"	28"	36"	36"	38"	38"	38"
	Depth	24.5"	24.5"	25"	25"	36"	36"	62"	62"	62"
Weight	lbs.	155	205	205	215	350	455	815	855	900
Internal Reservoir	Gallon	0.75	1	2.5	2.5	2.5	2.5	20	20	20
Temp Stability ⁽⁶⁾	°F	± 0.2	± 0.2	± 0.2	± 0.2	± 0.2	± 0.2	± 0.5	± 0.5	± 0.5
Refrigerant	Type	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) Capacity based on 55 °F LWT and 75 °F incoming fluid temp. Capacities may be ± 5% as reserved by compressor manufacturer. (4) 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. (5) Dimensions are approximate and do not include filters. (6) Cooling stability only. Optional heating stability ± 2.0°F.

Pump Curves:

