

REFRIGERATED RE-CIRCULATING FLUID CHILLERS

OTC Series – Rack Mount Air Cooled

For Laser, Semiconductor, Medical, X-Ray
& Laboratory Applications

Models OTC-R16A to R100A



OTC-R75A

Features:

- 0.13 to 0.94 ton (0.5 to 3.3kW) of cooling capacity
- OPTI TEMP patented *advanced refrigeration control* (ARC) circuitry standard
- PLC based controller
- RS485 communication
- Critical water level
- Temp output in °C or °F
- Dual frequency compatible
- Non-ferrous wetted construction
- Rugged powder coated steel cabinetry
- Stainless steel MNPT process connections
- Reservoir level indicator
- Particle filter standard
- NEMA 1 electrical enclosure
- Front mounted drain connection

Contact Information:

OPTI TEMP Inc.
1500 International Dr.
Traverse City, MI 49686
P: 231-946-2931
F: 231-946-0128

Features (Cont):

- Copper brazed plate evaporator
- High efficiency micro channel condenser
- Low decibel fan motor
- Compact module design for easy component access
- 10' Power cord
- One year limited warranty

Options:

Controls / Interlocks

- Remote start/stop
- Audible alarm with silence
- Low water indicator
- Programmable high temp or high/low temp alarm
- Low flow indication alarm

Electrical

- 24V control systems
- CE compliance
- NRTL certifications

Mechanical

- SS wetted construction materials
- Multiple pump upgrades
- Operating temperature ranges up to 104°F
- Extended warranty

Other

- OPTISHIELD® corrosion inhibitors

E: information@optitemp.com

OPTISHIELD® Corrosion Solutions

www.optishield.net

by **OPTI TEMP**

REFRIGERATED RE-CIRCULATING FLUID CHILLERS

Specifications ⁽¹⁾:

Description	OTC	R16A	R33A	R50A	R75A	R100A
Standard Flow Rating ⁽²⁾	GPM at	1.0	3.2	3.2	4	4
	PSI	9.5	65	65	65	65
Max Available Flow Range	GPM	1.6	3.5	3.5	5.5	5.5
Pump (Standard)	HP	0.022	0.33	0.33	0.33	0.33
	Code	Mag Drive	P1	P1	P3	P3
Connection	MNPT	¼ CPC	0.5	0.5	0.5	0.5
Capacity ⁽³⁾	KW	.50	1.0	1.6	2.50	3.30
	BTU/hr	1606	3412	5459	8530	11,260
	tons	0.13	0.28	0.45	0.71	0.94
Compressor	HP	.15	0.33	0.5	0.75	1.0
	Type	Rotary	H	H	H	H
Rated Load Amps ⁽⁴⁾	115/1/60	4.5	13.9	16.8	N/A	N/A
	100/1/50	4.5	13.3	16.8	N/A	N/A
	230/1/60	2.3	7.4	8.7	11.5	11.8
	230/1/50		6.1	7.2	9.5	9.8
Dimension ⁽⁵⁾	Height	5.25" (3U)	15.75" (9U)	15.75" (9U)	15.75" (9U)	15.75" (9U)
	Width	19"	19"	19"	19"	19"
	Depth	20"	29.88"	29.88"	29.88"	29.88"
Weight	lbs.	38	150	155	165	165
Internal Reservoir	Gallon	.125	0.75	0.75	0.75	0.75
Temp Stability ⁽⁶⁾	°F	± 0.2	± 0.2	± 0.2	± 0.2	± 0.2
Refrigerant	Type	R134A	R134A	R134A	R134A	R134A

(1) As a result of continuous improvement efforts, specifications are subject to change without notice or liability. (2) Pump pressures at pump discharge. (3) R16A, R33A, and R50A capacity based on 68°F LWT and 95°F ambient. R75A & R100A capacity based on 68°F LWT and 80°F* or 81-90°F** ambient air temperature. (4) Rated load amps for models with standard pumps. Consult applications engineering for models with optional pumps. Rated load amps must be used for sizing disconnects and supply wiring. Contact factory for 50 Hz applications. (5) Dimensions are approximate and do include filter. (6) Cooling stability only.

Pump Curves:

Pump curves available upon request from Opti Temp.