OTC Series – Rack Mount Air Cooled

Models OTC-R16A to R100A

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

Model OTC-R16A

Model OTC-R33A to R100A

Features:

- 0.15 to 0.95 ton (0.5 to 3.35kW) of cooling capacity
- OPTI TEMP patented *advanced refrigeration control* (ARC) circuitry standard
- Micro-processor based PID auto tuning controller with digital display
- 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:

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Features (Cont):

- S.S. 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

- RS232 and RS485 communication
- Ethernet ready controller
- Remote start/stop
- Audible alarm with silence
- Low water indicator
- Programmable high temp or high/low temp alarm
- Low Flow Indication
- Fluid monitoring and control devices

Electrical

- 24V control systems
- CE compliance
- NRTL certifications

Mechanical

- SS wetted construction materials
- Multiple pump upgrades
- Operating temperature ranges up to 90°C
- Extended warranty

Other

- OPTISHIELD® corrosion inhibitors

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

Specifications[1]:

Description	OTC	R16A	R33A	R50A	R75A	R100A
Standard Flow Rating[2]	GPM at PSI	0.8 10	2.3 65	2.3 65	4 65	4 65
Max Available Flow Range	GPM	1.6	3.5	3.5	5.5	5.5
Pump (Standard)	HP Code	0.022 Mag Drive	0.33 P1	0.33 P1	0.33 P3	0.33 P3
Connection	MNPT	¼ CPC	0.5	0.5	0.5	0.5
Capacity[3]	KW	.50	1.0	1.6	2.75	3.35
	BTU/hr	1606	3412	5459	9383	11430
	tons	0.13	0.28	0.45	0.78	0.95
Compressor	HP	.15	0.33	0.5	0.75	1.0
	Type	Rotary	H	H	H	H
Rated Load Amps[4]	115/1/60	2.8	13.9	16.8	N/A	N/A
	100/1/50		13.3	16.8	N/A	N/A
	230/1/60	1.4	7.4	8.7	11.5	11.8
	230/1/50		6.1	7.2	9.5	9.8
Dimensions[5]	Height	5.25"	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) Capacity based on 68°F LWT and 90°F ambient air temperature. Capacities may be ± 5% as reserved by compressor manufacturer. (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 engineering. (5) Dimensions are approximate and do include filter. (6) Cooling stability only.

Pump Curves:

Pump curves available upon request from Opti Temp.