

OTC Series: Portable Water-cooled Chillers



Features

- 0.5 to 10 Tons (2 to 35 kW) of cooling capacity
- Opti Temp patented advanced refrigeration control circuitry
- Digital PLC controller with RS485 communication
- Temperature 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
- NEMA 1 electrical enclosure standard
- Copper brazed plate evaporator
- One-year limited warranty

Additional Options & Features

Electrical and Controls

- NEMA 4 (outdoor) controls
- 24V control systems
- Phase monitor
- Power cord extensions
- CE compliance
- UL & CSA certifications
- Color touchscreen display (HM1)
- Low flow indication (LF2)
- Flow meter (FS2)
- Low water indication (LW2)
- Temperature deviation alarm (TA1)
- Pressure transducer (PT2)
- Audible alarm with silence (AA2)
- Audible & Visual Alarm Beacon (AV1)
- Remote start/stop (RS2)

Mechanical

- Specialty wetted construction materials
- Multiple pump upgrades
- Extended warranty
- Pressure gauges (PG1)
- Anti-drain backs packages (AD2)
- Isolation ball valves (BV1)
- Stainless steel reservoirs (RE1)
- Casters (CA1)
- Remote temperature sensing and control
- Custom paint (PNT)

Fluid Conditioning

- Start-up heating packages
- PI control heating
- Particle filters
- Active DI control system (D02)
- Passive DI control system (D01)
- pH control package (PH1)
- UV filtration (UVB)
- OPTISHIELD® Corrosion Inhibitor

For a quotation, please contact information@optitemp.com

Specifications ⁽¹⁾

Description		OTC-.5A	OTC-.75A	OTC-1.0A	OTC-1.5A	OTC-2.0A	OTC-3.0A	OTC-5.0A	OTC-7.5A	OTC-10A
Standard Flow Rating ⁽²⁾	GPM	3.2	4	4	4	5.5	11	20	30	30
	PSI	65	65	65	65	65	70	52	55	55
Max Available Flow Range ⁽³⁾	GPM	4	5.2	5.2	5.2	26	26	38	48	48
Pump (Standard)	HP	0.33	0.33	0.33	0.33	0.5	1.0	1.5	2	2
	Model	P1	P3	P3	P3	P5	RB	C3	C4	C4
Connection	MPT	0.5"	0.5"	0.5"	0.5"	1"	1"	1"	1.25"	1.5"
Capacity ⁽⁴⁾	kW	2.0	3.0	4.5	5.9	7.5	112.1	20	24.5	42.5
	BTU/hr	6,840	10,360	15,360	20,160	25,530	41,390	69,300	83,450	145,000
	tons	0.5	0.85	1.3	1.7	2.1	3.4	5.7	7	10
Compressor	HP	0.5	0.75	1.8	1.8	3	3.5	5	7.5	10
	Type	H	H	S	S	S	S	S	S	S
Full Load Amps	Consult factory for available FLA									
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"	26"	26"	36"	36"	62"	62"	62"
Weight	lbs.	155	205	210	215	425	455	815	855	900
Internal Reservoir	Gallon	0.75	2.5	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	R407C	R407C	R407C	R407C	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 75 °F incoming fluid temperature. Capacities may be ± 5% as reserved by compressor manufacturer. 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



