

OTC Series: Portable Air-cooled Chillers



Features

- 0.25 to 10 Tons (0.6 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
- Outdoor packages (OD1)
- Multiple pump upgrades
- Extended warranty
- Pressure gauges (PG1)
- Anti-drain backs packages (AD2)
- Condenser filters (CFT)
- 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-.25A | OTC-.33A | 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 | 3.2 | 3.2 | 4 | 4 | 4 | 5.5 | 7 | 12 | 18 | 24 |
| | PSI | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 55 | 53 | 61 | 58 |
| Max Available Flow Range ⁽³⁾ | GPM | 3.2 | 3.2 | 4 | 5.2 | 5.2 | 5.2 | 26 | 26 | 38 | 48 | 48 |
| Pump (Standard) | HP | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.5 | 1.5 | 1.5 | 2 | 2 |
| | Model | P1 | P1 | P1 | P3 | P3 | P3 | P5 | RB | C3 | C4 | 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 | 2.8 | 3.4 | 6 | 8 | 10.5 | 19.1 | 28.8 | 42.2 |
| | BTU/hr | 2,000 | 2,800 | 4,570 | 9,460 | 11,460 | 20,400 | 27,300 | 35,820 | 65,280 | 98,400 | 144,000 |
| | tons | 0.25 | 0.33 | 0.4 | 0.8 | 0.96 | 1.7 | 2.1 | 3.6 | 5.4 | 8.2 | 12 |
| Compressor | HP | 0.25 | 0.33 | 0.5 | 0.75 | 1.8 | 1.8 | 3 | 3.5 | 5 | 7.5 | 10 |
| | Type | H | H | H | H | S | S | S | S | S | S | S |
| Full Load Amps | Consult factory for available FLA | | | | | | | | | | | |
| Dimensions ⁽⁵⁾ | Height | 22.5" | 22.5" | 22.5" | 22.5" | 28" | 28" | 35" | 35" | 55" | 55" | 55" |
| | Width | 15" | 15" | 15" | 24" | 31" | 31" | 36.5" | 36.5" | 38" | 38" | 38" |
| | Depth | 23" | 23" | 23" | 24.5" | 30" | 30" | 36.5" | 36.5" | 62" | 62" | 62" |
| Weight | lbs. | 130 | 130 | 155 | 205 | 210 | 215 | 425 | 455 | 815 | 855 | 900 |
| Internal Reservoir | Gallon | 0.75 | 0.75 | 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 | ± 0.2 | ± 0.2 | ± 0.5 | ± 0.5 | ± 0.5 |
| Refrigerant | Type | R134A | R134A | 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 68 °F LWT and 95 °F ambient air 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



