

## REFRIGERATED RE-CIRCULATING FLUID CHILLERS

### OTM Series - Portable Water Cooled

For Machine Tool, High Flow and other Industrial Applications

### Models OTM-.5W to 10W



Model OTM-5.0W to 10W shown

#### Features:

- 0.57 to 12.1 ton (2 to 42 kW) cooling capacity
- Standard OPTI TEMP patented *advanced refrigeration control* (ARC) circuitry
- Micro processor based PID auto tuning controller with digital display
- Programmable high temp alarm or high/low temp alarm, for temp out of tolerance
- Temp output in °C or °F
- Dual frequency compatibility
- Operating temperature ranges up to 90°C
- Rugged powder coated steel cabinetry
- Stainless steel MNPT process connection
- 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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#### Options:

##### Controls / Interlocks

- PLC controller
- RS232 and RS485 communication
- Ethernet ready controller
- Remote start/stop
- Audible alarm with silence
- Visual alarm beacon
- Remote control tether
- 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.

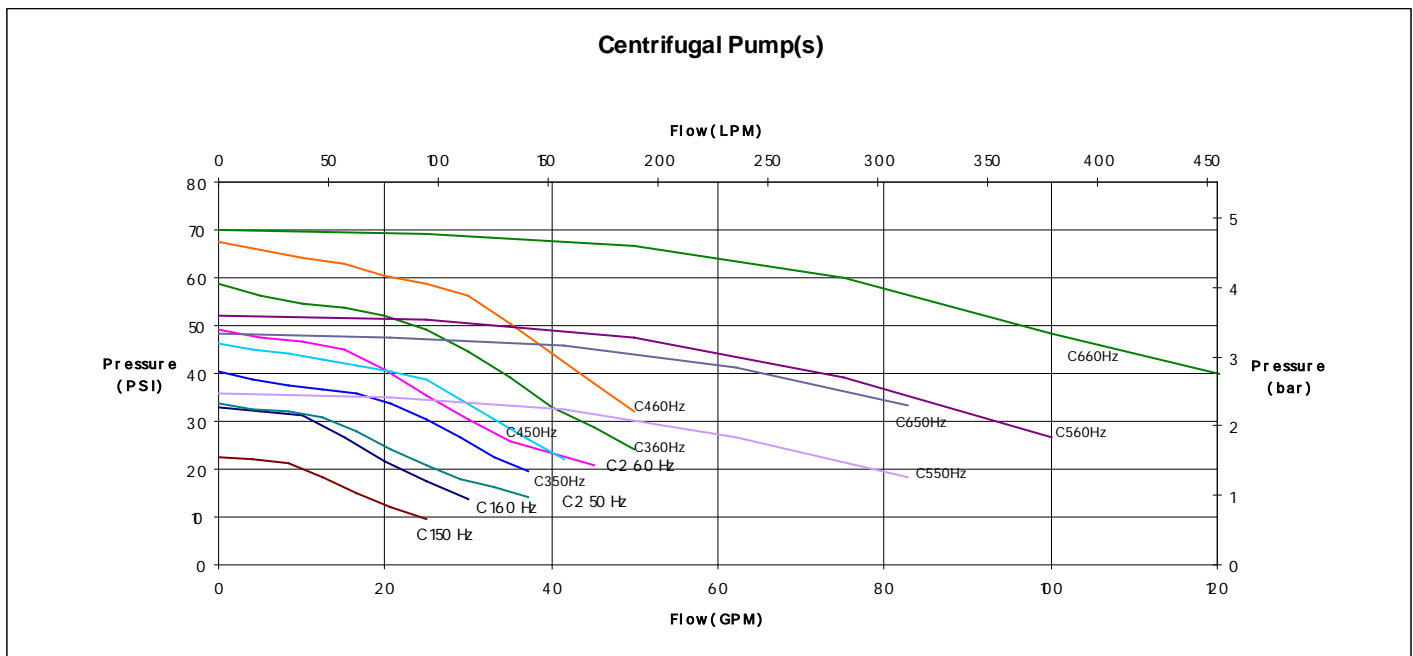
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### Specifications<sup>(1)</sup>:

| Description                         | OTM      | .5W   | 1.0W   | 1.5W   | 2.0W   | 3.0W   | 5.0W   | 7.5W   | 10W     |
|-------------------------------------|----------|-------|--------|--------|--------|--------|--------|--------|---------|
| Standard Flow Rating <sup>(2)</sup> | GPM at   | 12    | 12     | 12     | 18     | 18     | 26     | 30     | 30      |
|                                     | PSI      | 30    | 30     | 30     | 43     | 43     | 48     | 55     | 55      |
| Max Available Flow Range            | GPM      | 18    | 18     | 18     | 30     | 30     | 48     | 48     | 48      |
| Pump (Standard)                     | HP       | 0.5   | 0.5    | 0.5    | 1      | 1      | 1.5    | 2      | 2       |
|                                     | Code     | C1    | C1     | C1     | C2     | C2     | C3     | C4     | C4      |
| Connection                          | MPT      | 1     | 1      | 1      | 1.25   | 1.25   | 2      | 2      | 2       |
| Capacity <sup>(3)</sup>             | KW       | 2.0   | 4.5    | 5.9    | 7.5    | 12.1   | 20.3   | 24.5   | 42.6    |
|                                     | BTU/hr   | 6,840 | 15,360 | 20,160 | 25,530 | 41,390 | 69,290 | 83,450 | 145,450 |
|                                     | tons     | 0.57  | 1.28   | 1.68   | 2.13   | 3.45   | 5.77   | 6.95   | 12.1    |
| Compressor                          | HP       | 0.5   | 1.5    | 2.25   | 3.0    | 3.0    | 5.0    | 6.0    | 10      |
|                                     | Type     | H     | H      | H      | H      | H      | H      | S      | S       |
| Full Load Amps <sup>(4)</sup>       | 115/1/60 | 23.6  |        |        |        |        |        |        |         |
|                                     | 100/1/50 | 17.4  |        |        |        |        |        |        |         |
|                                     | 230/1/60 | 11.6  | 18.5   | 20.4   | 28.0   | 33.1   | 52.9   |        |         |
|                                     | 230/1/50 | 8.5   | 14.3   | 15.9   | 21.5   | 25.2   | 41.7   |        |         |
|                                     | 230/3/60 |       | 11.4   | 13.4   | 16.6   | 19.1   | 32.0   | 27.5   | 45.4    |
|                                     | 460/3/60 |       | 6.3    | 7.5    | 7.7    | 9.6    | 14.6   | 13.4   | 22.3    |
| Dimensions <sup>(5)</sup>           | Height   | 25    | 25     | 25     | 36     | 36     | 45     | 45     | 45      |
|                                     | Width    | 28    | 28     | 28     | 42     | 42     | 46     | 46     | 46      |
|                                     | Depth    | 25    | 25     | 25     | 36     | 36     | 46     | 46     | 46      |
| Weight                              | lbs.     | 230   | 285    | 305    | 305    | 500    | 715    | 770    | 795     |
| Internal Reservoir                  | Gallon   | 10    | 10     | 10     | 20     | 20     | 30     | 30     | 30      |
| Temp Stability <sup>(6)</sup>       | °C       | ± 0.2 | ± 0.2  | ± 0.2  | ± 0.2  | ± 0.2  | ± 0.5  | ± 0.5  | ± 0.5   |
| Refrigerant                         | Type     | R134A | R134A  | R134A  | R134A  | R134A  | R22    | R22    | R22     |

(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 water temperature. 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 or castors. (6) Cooling stability only. Optional heating stability ± 2.0°F.

### Pump Curves:



Standard pumps shown, other optional pumps available