

OTT Series: Water-cooled Low Temperature Test Chiller

Our low-temperature test chiller is designed for reliable and accurate temperature control, with a cooling capacity of 4.5 to 28.5 kW (based on a -20°C leaving fluid temperature) and an operating temperature range from -30 to 88°C. Equipped with Opti Temp patented advanced refrigeration control circuitry, this chiller delivers precise temperature control and is energy efficient. Its customizability, rugged construction, and user-friendly interface make it ideal for a wide range of testing applications.



Features

- 4.5 to 28.5 kW of cooling capacity based on a -20°C leaving water temperature and 24°C condensing water temperature.
- Operating temperature ranges of -30 to 88°C
- Heater circuit (PI Controlled)
- Magnetically-coupled, seal-less, SS Pumps
- Patented advanced refrigeration control circuitry
- Modbus RS485 and TCP/IP communication
- Temperature output in °C or °F
- User-friendly interface and remote-control capabilities
- Glycol and specialty fluid compatibility
- Rugged powder coated steel cabinetry
- NEMA 1 electrical enclosure
- One-year limited warranty

Additional Options & Features

Electrical and Controls

- Advanced PLC Controller
- Panel Mounted Touchscreen
- Refrigeration Pressure Transducers
- Return Fluid Temp. Display
- Remote Temperature Sensing and Control
- Flow Rate Monitoring

Mechanical

- Specialty Wetted Materials
- Multiple Pump Upgrades
- Fluid Pressure Gauges
- Anti Drain Back Packages
- Fluid Circuit Insulation
- Casters
- Low Fluid Indication

Fluid Conditioning

- PI Controlled Heating
- Flow Rate Controllability
- Fluid Circuit Insulation
- Glycol & Specialty Fluids

For a quotation, please contact information@optitemp.com

Specifications

		OTT Series Water Cooled Test Chillers					
Description and Capacities ⁽¹⁾⁽²⁾⁽⁶⁾	Units	OTT-5W	OTT-7.5W	OTT-10W	OTT-15W	OTT-20W	OTT-30W
+20°C LFT, 24°C facility water temp.	kW	12.5	24.0	29.0	40.0	45.0	70.0
-20°C LFT, 24°C facility water temp.	kW	4.5	8.5	11.0	16.3	18.0	28.5
-30°C LFT, 24°C facility water temp.	kW	1.3	3.0	4.3	7.1	7.8	13.5
Compressor	Nom. HP	5.0	12.0	14.0	18.0	23.0	34.0
	Type	Semi-Hermetic					
Operating Fluid Temperature Range	°C	-30 to 88°C					
Dimensions (inches) ⁽³⁾	Height	54	54	54	54	54	54
	Width	38	38	38	38	38	72
	Depth	64	64	64	88	88	64
Connection Size (MNPT)	inch	1	1	1	1.5	1.5	2
Weight	lbs	1,200	1,200	1,200	1,400	1,400	2,800
Reservoir Size	Gallons	20	20	20	20	20	25
Refrigerant ⁽⁴⁾		R-404A	R-404A	R-404A	R-404A	R-404A	R-404A
Description	Code	OTT-5W	OTT-7.5W	OTT-10W	OTT-15W	OTT-20W	OTT-30W
Pump Capacity ⁽²⁾		15 GPM (56 l/min)				21 GPM (80 l/min)	
Electrical Configuration	236	208-230V/3ph/60Hz (187-253V/3ph/60Hz or 180-242V/3ph/50Hz)					
	436	460V/3ph/60Hz (414-506V/3ph/60Hz or 361-462V/3ph/50Hz)					
Advanced PLC Controller	CR2	incl.	incl.	incl.	incl.	incl.	incl.
Panel Mounted Color Touch Screen	HM1	incl.	incl.	incl.	incl.	incl.	incl.
Refrigeration Pressure Transducers	PT2	incl.	incl.	incl.	incl.	incl.	incl.
Fluid Pressure Gauge	PG2	incl.	incl.	incl.	incl.	incl.	incl.
PI Heating Package - Compressor OR Heat on	HT3	incl.	incl.	incl.	incl.	incl.	incl.
Heater Capacity	kW	10	10	10	10	10	15
Return Fluid Temperature (display only)	RTS	incl.	incl.	incl.	incl.	incl.	incl.
Fluid Circuit Insulation	FC1	incl.	incl.	incl.	incl.	incl.	incl.
Low Fluid Indication	LW2	incl.	incl.	incl.	incl.	incl.	incl.

(1) As a result of continuous improvement efforts, specifications are subject to change without notice or liability. (2) Capacities based on 60Hz operation. (3) Dimensions and weights are approximate. (4) R449a refrigerant available on request. (5) Pump pricing is not included and will be selected for the specific application. (6) May be ±5% as reserved by compressor manufacturer.

Air-cooled units are also available, please contact information@optitemp.com