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Product Specifications

Reliable, easy-to-use chillers optimized for the most demanding applications. Cooling capacities up to 5000 watts.

Thermo Scientific NESLAB ThermoFlex™

Recirculating Chillers





Ideal for diverse applications within the following markets

- Analytical
- Laser
- Medical
- Metrology
- Packaging
- Printing
- Research
- Semiconductor
- University

Innovative Platform

The new Thermo Scientific NESLAB ThermoFlex platform was developed with customer input from concept to design. The result is an easy-to-use, easy-to-maintain high performance chiller platform configurable to the most demanding applications.

Superior Performance

- Improved cooling capacity
- Increased reliability
- Ease of maintenance

Ease of Use

- Innovative, patented packaging for rapid installation
- Quick start guide for seamless start-up in minutes
- An intuitive user interface for ease of operation
- Air and water filters that can be changed while unit is in operation

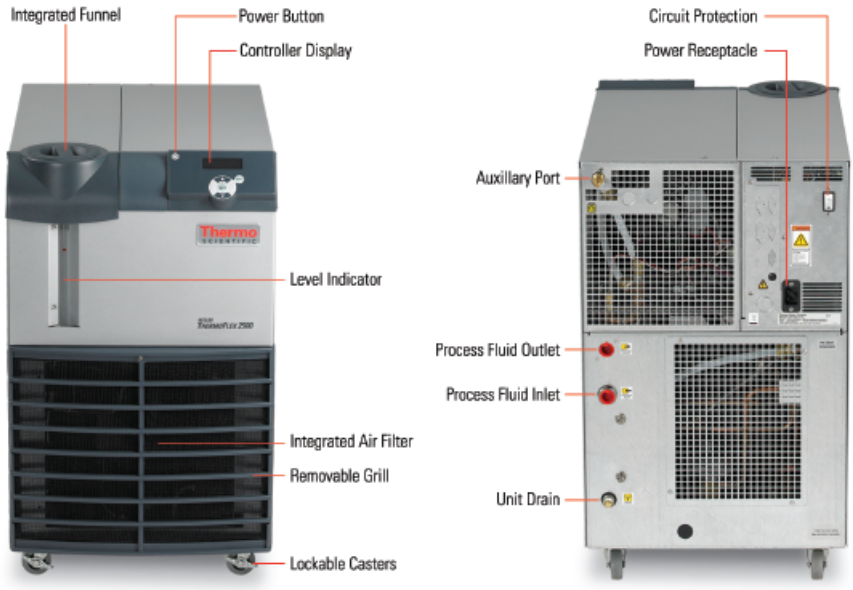
Configurable to Meet Application Needs

- Modular design
- Variety of available options
- Variety of available cooling capacities
- Installation flexibility

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Innovative Design

Features common to Thermo Scientific NESLAB ThermoFlex models



Options

Fluid Recirculation

- *Pressure Relief* – Allows for regulation of the chiller's outlet pressure and is available as an internal or external option.
- *Flow Control with Flow Readout* – Controls flow to the application and displays the flow rate on the controller.
- *Pressure Relief with Flow Readout* – Pressure relief valve allows for regulation of the chiller's outlet pressure and displays the flow rate on the controller.
- *Auto Refill* – Allows for automatic refilling to ensure the proper fluid level is maintained.
- *Anti Drainback* – Prevents the reservoir from overflowing when a chiller is installed below the application.
- *DI Water* – Maintains fluid resistivity and is available as an internal or external option.

Communications

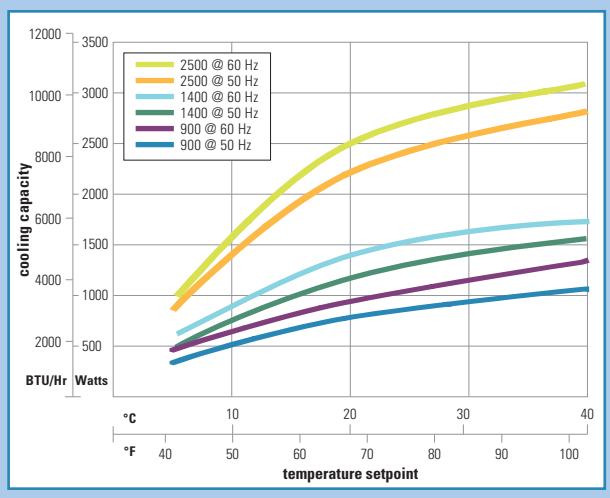
- *RS-232 & RS-485 Digital Communication* – Allows for remote operation, monitoring and data logging.
- *Analog I/O* – Provides analog communication for remote operation and monitoring.

Versatility

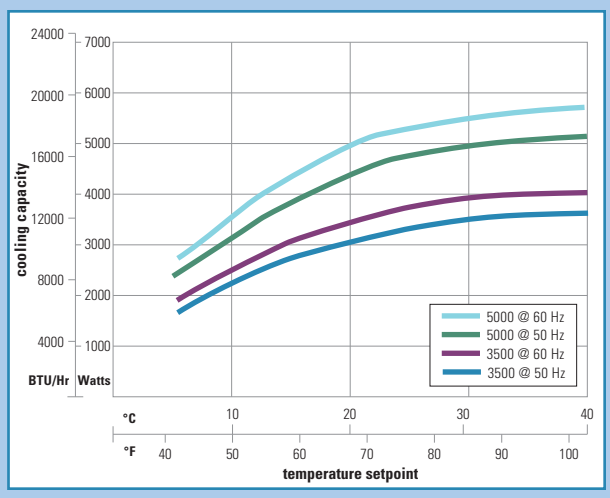
- *Global Voltage* – Allows the user to select the desired current and voltage to enable operation anywhere worldwide.
- *Air cooled Condenser* – Uses ambient air to remove application heat.
- *Water Cooled Condenser* – Uses facility water to remove application heat.
- *Remote Sensor* – Allows for remote temperature control of an application.
- *SEMI S2 Compliance*

Cooling Capacity

Cooling Capacity for NESLAB ThermoFlex 900/1400/2500



Cooling Capacity for NESLAB ThermoFlex 3500/5000



Thermo Scientific NESLAB ThermoFlex

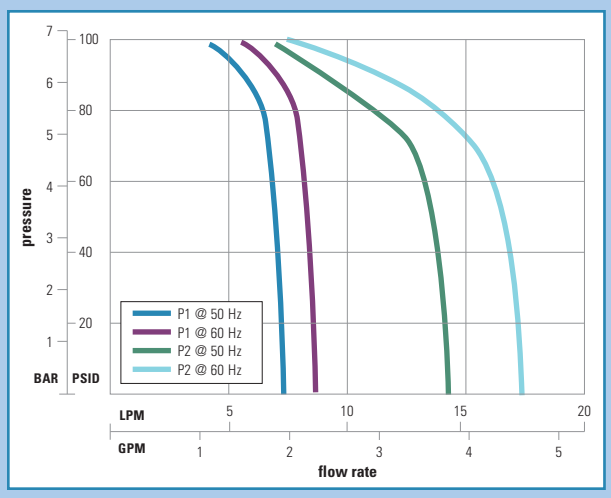


	NESLAB ThermoFlex 900	NESLAB ThermoFlex 1400	NESLAB ThermoFlex 2500	NESLAB ThermoFlex 3500	NESLAB ThermoFlex 5000
Setpoint Temperature Range	+5°C to +40°C (+41°F to +104°F)	+5°C to +40°C (+41°F to +104°F)	+5°C to +40°C (+41°F to +104°F)	+5°C to +40°C (+41°F to +104°F)	+5°C to +40°C (+41°F to +104°F)
Ambient Temperature Range	+10°C to +40°C (+50°F to +104°F)	+10°C to +40°C (+50°F to +104°F)	+10°C to +40°C (+50°F to +104°F)	+10°C to +40°C (+50°F to +104°F)	+10°C to +40°C (+50°F to +104°F)
Temperature Stability	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C
Setpoint Cooling Capacity					
60 Hz at +20°C	900 W / 3074 BTU	1400 W / 4781 BTU	2500 W / 8538 BTU	3500 W / 11953 BTU	5000 W / 17076 BTU
50 Hz at +20°C	750 W / 2561 BTU	1170 W / 3996 BTU	2200W / 7513 BTU	3050 W / 10416 BTU	4400 W / 15027 BTU
Reservoir Volume	7.2 liters (1.9 gallons)	7.2 liters (1.9 gallons)	7.2 liters (1.9 gallons)	7.2 liters (1.9 gallons)	7.2 liters (1.9 gallons)
Physical Dimensions (H x W x D)	69.4 x 36.0 x 62.4 cm (27.3 x 14.2 x 24.6 in)	69.4 x 36.0 x 62.4 cm (27.3 x 14.2 x 24.6 in)	74.1 x 43.8 x 67.6 cm (29.2 x 17.3 x 26.6 in)	101.6 x 49.4 x 79.0 cm (40.0 x 19.5 x 31.1 in)	101.6 x 49.4 x 79.0 cm (40.0 x 19.5 x 31.1 in)
P1 — Positive Displacement Pump					
60 Hz	2.1 gpm @ 60 psid	2.1 gpm @ 60 psid	2.1 gpm @ 60 psid	2.1 gpm @ 60 psid	—
50 Hz	1.7 gpm @ 60 psid	1.7 gpm @ 60 psid	1.7 gpm @ 60 psid	1.7 gpm @ 60 psid	—
P2 — Positive Displacement Pump					
60 Hz	4.1 gpm @ 60 psid	4.1 gpm @ 60 psid	4.1 gpm @ 60 psid	4.1 gpm @ 60 psid	4.1 gpm @ 60 psid
50 Hz	3.3 gpm @ 60 psid	3.3 gpm @ 60 psid	3.3 gpm @ 60 psid	3.3 gpm @ 60 psid	3.3 gpm @ 60 psid
P3 — Centrifugal Pump					
60 Hz	—	—	—	10 gpm @ 32 psid	10 gpm @ 32 psid
50 Hz	—	—	—	10 gpm @ 20 psid	10 gpm @ 20 psid
P4 — Centrifugal Pump					
60 Hz	—	—	—	15 gpm @ 57 psid	15 gpm @ 57 psid
50 Hz	—	—	—	15 gpm @ 34 psid	15 gpm @ 34 psid
Unit Weight* (by pump type)	P1: 57.2 kg (126 lb) P2: 57.2 kg (126 lb)	P1: 57.2 kg (126 lb) P2: 57.2 kg (126 lb)	P1: 80.3 kg (177 lb) P2: 80.3 kg (177 lb)	P1: 120 kg (264 lb) P2: 120 kg (264 lb) P3: 123 kg (270 lb) P4: 138 kg (303 lb)	P2: 120 kg (264 lb) P3: 123 kg (270 lb) P4: 138 kg (303 lb)
Voltage Options					
115V/60Hz & 100V/50Hz	Available	Available	—	—	—
100V/60Hz	Available	Available	—	—	—
208-230V/60Hz & 200V/50 Hz	Available	Available	Available	Available	Available
200V/60Hz†	Available	Available	Available	Available	Available
230V/50Hz	Available	Available	Available	Available	Available
Global Voltage 50Hz/60Hz	Available	Available	Available	Available**	Available**
Standard Compliance	CE CSA US				

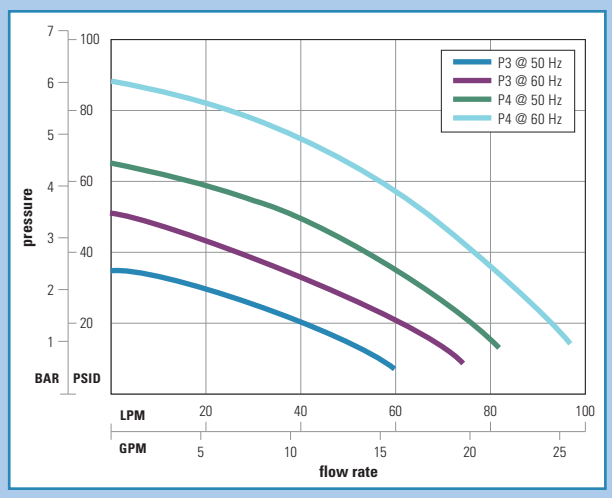
Specifications obtained at sea level using water as the recirculating fluid, at a +20°C process setpoint, +25°C ambient condition, at nominal operating voltage. Other fluids, fluid temperatures, ambient temperatures, altitude or operating voltages will affect performance.

** Unit weight is for air-cooled units. Subtract 14 kg (30 lb) for water-cooled units. †This selection requires the global voltage option. **Add 12 kg (27 lb) to unit weight.*

Pumping Capacity for Pump Options P1 & P2**



Pumping Capacity for Pump Options P3 & P4**



***Pump curves are nominal value.*

About Thermo Fisher Scientific

Thermo Fisher Scientific (NYSE: TMO) is the world leader in serving science, enabling our customers to make the world healthier, cleaner and safer. With annual revenues of $10 billion, we have more than 30,000 employees and serve over 350,000 customers within pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies, as well as environmental and industrial processing settings. Serving our customers through two premier brands, Thermo Scientific and Fisher Scientific, we help solve analytical challenges from routine testing to complex research and discovery. Thermo Scientific offers customers a complete range of high-end analytical instruments as well as laboratory equipment, software, services, consumables and reagents to enable integrated laboratory workflow solutions. Fisher Scientific provides a complete portfolio of laboratory equipment, chemicals, supplies and services used in healthcare, scientific research, safety and education. Together, we offer the most convenient purchasing options to customers and continuously advance our technologies to accelerate the pace of scientific discovery, enhance value for customers and fuel growth for shareholders and employees alike. Visit www.thermofisher.com.

For more information about Thermo Scientific NESLAB recirculating chillers, visit www.thermo.com/thermoflex, or see our comprehensive range of temperature control equipment at www.thermo.com/tc.

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