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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

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*

	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
Setpoint Cooling Capacity 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	—
P1 — Positive Displacement Pump 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
P2 — Positive Displacement Pump 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
P3 — Centrifugal Pump 50 Hz	—	—	—	10 gpm @ 20 psid	10 gpm @ 20 psid
P4 — Centrifugal	—	—	—	15 gpm @ 57 psid	15 gpm @ 57 psid

Pump 60 Hz					
P4 — Centrifugal Pump 50 Hz	—	—	—	15 gpm @ 34 psid	15 gpm @ 34 psid

Unit Weight* (by pump type)	P1: P2: 57.2 kg (126 lb) 57.2 kg (126 lb)	P1: P2: 57.2 kg (126 lb) 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)
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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



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