



Rheology Solutions

Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.

*We hope the information you are seeking is contained within this file.
If you have any questions, or require further information please contact us.
We look forward to being of further service.*

Regards from the Team at Rheology Solutions.

RHEOLOGY SOLUTIONS PTY LTD. ACN 082 479 632

HEAD OFFICE: 15-19 Hillside Street, Bacchus Marsh, Victoria 3340 Australia. PO Box 754, Bacchus Marsh, Victoria 3340 Australia.

Telephone: +61 3 5367 7477 **Facsimile:** +61 3 5367 6477 **Email:** info@rheologysolutions.com **Website:** www.rheologysolutions.com

Versatile, dependable chillers provide years of cooling capability for critical applications that require large process cooling. Cooling capacities up to 24000 watts.

Thermo Scientific NESLAB ThermoFlex Recirculating Chillers



Ideal for diverse applications within the following markets

- Aerospace
- Industrial
- Laser
- Medical
- Printing
- Semiconductor

Innovative Platform

The 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.

Flexible Configuration

- Air-cooled and water-cooled condensers
- Multiple pumping options
- Easy to use controller
- Broad range of available options and accessories

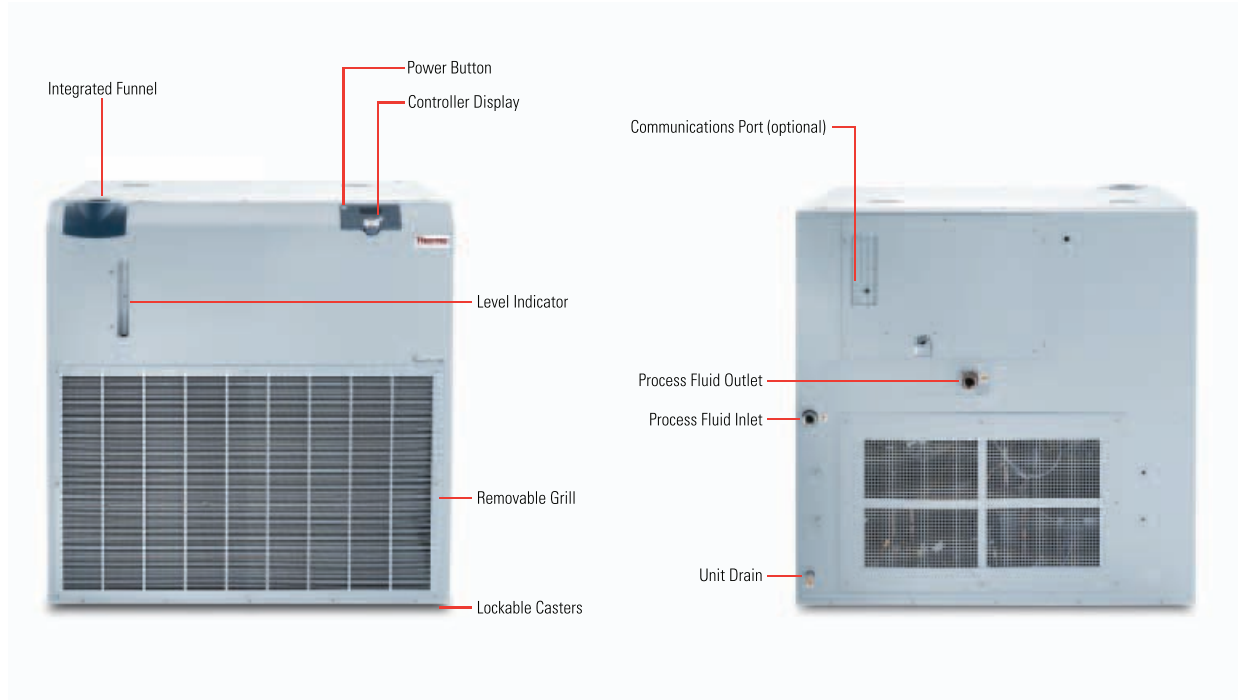
Ease of Use

- An intuitive user interface for ease of operation
- Water filters that can be changed while unit is in operation
- Quick start guide for seamless start-up in minutes

Configurable Design

- Wide range of available cooling capacities
- Variety of available options
- Installation flexibility

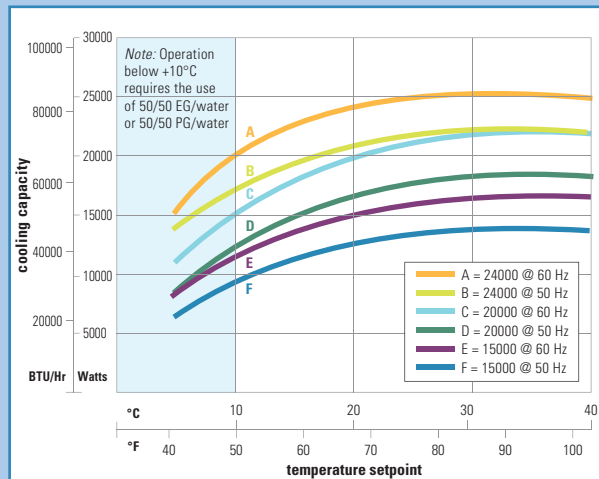
Features common to Thermo Scientific NESLAB ThermoFlex models



Options include:

Feature	Benefit
Anti Drainback	Prevents fluid from flowing back to the reservoir when the chiller is installed below the application.
Auto Refill	Allows for automatic refilling from a customer-supplied water source to ensure the proper fluid level is maintained.
DI Water	Partial flow internal DI cartridge minimizes footprint and provides fluid resistivity between 1 and 3 mOhm.
Flow Control with Flow Readout	The flow control valve allows the user to adjust the flow to the application. The flow readout allows for monitoring the flow rate to the application via controller readout.
RS232 & RS485 Digital/Analog Communication	Provides analog and digital communication for remote operation, monitoring and data logging. Includes a remote sensor port which allows for remote temperature control of an application when used with remote sensor (available as an accessory).
Air-Cooled Condenser	Uses ambient-temperature room air to remove application heat.
Water-Cooled Condenser	Uses facility water to remove application heat.

Cooling Capacity for NESLAB ThermoFlex 15000/20000/24000



Cooling capacity based on units with P3 pumps set at 10 gpm. Other pumps and flow rates will affect cooling capacity performance. Specifications subject to change.



Patented full flow filter ensures clean fluid to protect your application and maximize recirculation system life.



**NESLAB
ThermoFlex 15000**

**NESLAB
ThermoFlex 20000**

**NESLAB
ThermoFlex 24000**

	NESLAB ThermoFlex 15000	NESLAB ThermoFlex 20000	NESLAB ThermoFlex 24000
Standard 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)
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)
Temperature Stability	±0.1°C	±0.1°C	±0.1°C
Standard Cooling Capacity			
60 Hz at +20°C	15000 W / 51228 BTU	20000 W / 68304 BTU	24000 W / 81964 BTU
50 Hz at +20°C	12525 W / 42775 BTU	16700 W / 57043 BTU	21000 W / 71719 BTU
Reservoir Volume	17.9 liters (4.75 gallons)	17.9 liters (4.75 gallons)	17.9 liters (4.75 gallons)
Refrigerant	R407C	R407C	R407C
Physical Dimensions (H x W x D)	124.4 x 118.1 x 78.6 cm (49.0 x 46.5 x 30.9 in)	124.4 x 118.1 x 78.6 cm (49.0 x 46.5 x 30.9 in)	148.9 x 118.1 x 78.6 cm (58.6 x 46.5 x 30.9 in)
P3 — Centrifugal Pump			
60 Hz	10 gpm @ 32 psid/ 37.9 lpm @ 2.2 bar	10 gpm @ 32 psid/ 37.9 lpm @ 2.2 bar	10 gpm @ 32 psid/ 37.9 lpm @ 2.2 bar
50 Hz	10 gpm @ 20 psid/ 37.9 lpm @ 1.4 bar	10 gpm @ 20 psid/ 37.9 lpm @ 1.4 bar	10 gpm @ 20 psid/ 37.9 lpm @ 1.4 bar
P5 — Centrifugal Pump			
60 Hz	20 gpm @ 60 psid/ 75.7 lpm @ 4.1 bar	20 gpm @ 60 psid/ 75.7 lpm @ 4.1 bar	20 gpm @ 60 psid/ 75.7 lpm @ 4.1 bar
50 Hz	20 gpm @ 35 psid/ 75.7 lpm @ 2.4 bar	20 gpm @ 35 psid/ 75.7 lpm @ 2.4 bar	20 gpm @ 35 psid/ 75.7 lpm @ 2.4 bar
Unit Weight			
Air-Cooled	249.5 kg (550 lb)	249.5 kg (550 lb)	294.8 kg (650 lb)
Water-Cooled	231.3 kg (510 lb)	231.3 kg (510 lb)	231.3 kg (510 lb)
Voltage Options			
208-230V/60Hz/3	Available	Available	Available
460V/60Hz/3 & 400V/50Hz/3	Available	Available	Available
Standard Compliance (Note: compliance listings are pending)			

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.

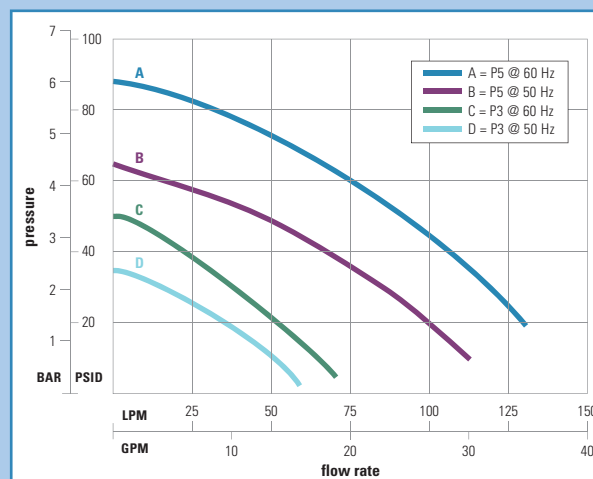
Other fluids, process temperatures, ambient temperatures, altitude, or operating voltages will affect performance. Cooling capacity based on units with P3 pumps set at 10 gpm.

Other pumps and flow rates will affect cooling capacity performance. Pressure values are the differential between the inlet and the outlet of the unit. Specifications subject to change.



Patented integrated funnel design allows for spill proof filling.

Pumping Capacity for Pump Options P3 & P5



Pressure values are the differential between the inlet and the outlet of the unit.

About Thermo Fisher Scientific

Thermo Fisher Scientific Inc. (NYSE: TMO) is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner and safer. With revenues of more than \$10 billion, we have approximately 35,000 employees and serve customers within pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies, as well as in environmental and process control industries. We create value for our key stakeholders through two premier brands, Thermo Scientific and Fisher Scientific, which offer a unique combination of continuous technology development and the most convenient purchasing options. Our products and services help accelerate the pace of scientific discovery, and solve analytical challenges ranging from complex research to routine testing to field applications. 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/tcprocess.

© 2010 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Results may vary under different operating conditions. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

North America: USA/Canada toll free: +1 (800) 258-0830; USA: +1 (603) 436-9444 • info.tc.us@thermofisher.com www.thermo.com/tc
Europe: Benelux: +31 (0) 76 579 55 55 • info.tc.nl@thermofisher.com; France: +33 (0) 1 60 92 48 00 • info.tc.fr@thermofisher.com
Germany: +49 (0) 721 4 09 44 44 • info.tc.de@thermofisher.com; United Kingdom: +44 (0) 1785 82 52 00 • info.tc.uk@thermofisher.com
Asia: China: +86 (21) 68 65 45 88 • sales.tc.china@thermofisher.com; India: +91 (22) 27 78 11 01 • contact.lpg.in@thermofisher.com
Countries not listed: +1 (603) 436-9444