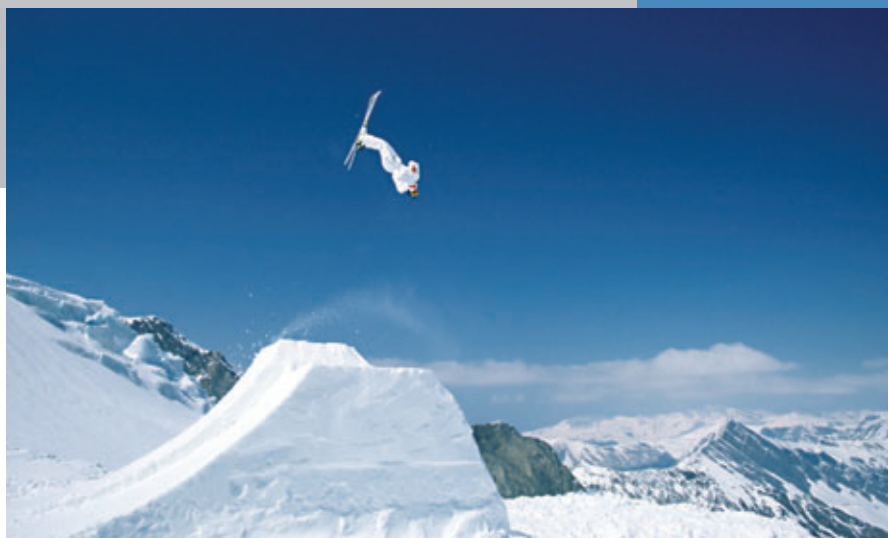


Reliable, easy-to-use chillers
optimized for the most demanding
applications

NESLAB ThermoFlex Basis Recirculating Chiller

Delivers a continuous cooling capacity
900 watts up to 1400 watts



Ideal for diverse applications
within the following markets:

- Analytical instrumentation
- Laser
- Medical equipment
- Packaging
- Research
- University



High Reliability

You can expect years of consistent operation from the NESLAB ThermoFlex recirculating chiller. The unit features a robust refrigeration system designed for continuous use in a variety of installations. The recirculation system incorporates highly reliable plumbing connections to eliminate leaks. Integrated air and fluid filters minimize wear to mechanical parts, which lowers lifetime maintenance costs and improves system reliability.

Superior Performance

ThermoFlex chillers offer up to 10% greater cooling capacity than comparable units. The breadth of available options allows you to optimize chiller performance based on your application requirements.

Easy to Use

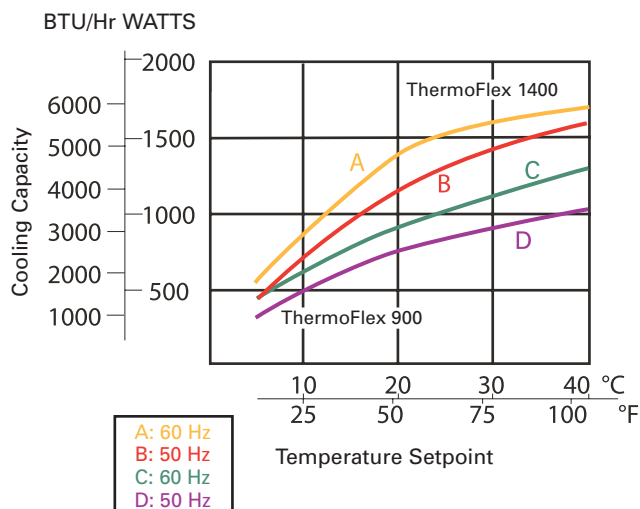
The quick-start guide enables trouble-free system start up. Snap in-and-out air and fluid filters promote quick and simple maintenance. The innovative recirculation system includes an integrated funnel and visual indicator for operator convenience. An intuitive controller allows customer-defined alarms to be set for various parameters, ensuring your process is always in control.

Configurable to Meet Application Needs

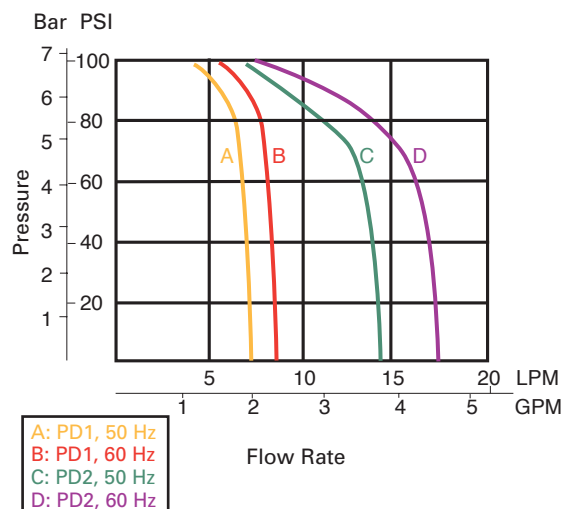
The NESLAB ThermoFlex recirculating chiller can be configured with a variety of plug & play options. The result is a reliable, easy-to-maintain, high performance unit that can be optimized for the most demanding cooling applications.

Product Specifications	NESLAB ThermoFlex 900	NESLAB ThermoFlex 1400
Setpoint Temperature Range	5°C - 40°C 41°F - 104°F	5°C - 40°C 41°F - 104°F
Ambient Temperature Range	10°C - 40°C 50°F - 104°F	10°C - 40°C 50°F - 104°F
Temperature Stability	±0,1°C	±0,1°C
Setpoint Cooling Capacity at 20°C (see graph below for cooling curves)		
60 Hz	900 W (3072 BTU)	1400 W (4778 BTU)
50 Hz	750 W (2560 BTU)	1170 W (3995 BTU)
Reservoir Volume		
Gallons	1.9	1.9
Liters	7.2	7.2
Footprint or dimensions (HxWxD)		
Inches	27.4 x 14.2 x 24.7	27.4 x 14.2 x 24.7
cm	69.9 x 36.1 x 62.7	69.9 x 36.1 x 62.7
Unit Weight		
lb	126	126
kg	57.2	57.2
Pumps (see graph below for performance curves)		
PD1 - Positive Displacement		
60 Hz	2.1 gpm @ 60 psi	2.1 gpm @ 60 psi
50 Hz	5.3 l/min / 4 bar	5.3 l/min / 4 bar
PD2 - Positive Displacement		
60 Hz	4.1 gpm @ 60 psi	4.1 gpm @ 60 psi
50 Hz	12.5 l/min / 4 bar	12.5 l/min / 4 bar
Power options		
Option 1	100V/50Hz/1 Phase 15A	100V/50Hz/1 Phase 20A
Option 2	100V/60Hz/1 Phase 15A	100V/60Hz/1 Phase 20A
Option 3	115V/60Hz/1 Phase 15A	115V/60Hz/1 Phase 20A
Option 4	208-230V/60Hz/1 Phase 15A	208-230V/60Hz/1 Phase 15A
Option 5	230V/50Hz/1 Phase Amp 16A	230V/50Hz/1 Phase Amp 16A
Compliance		
	NRTL Certified to CSA and UL Standards; CE-Marked	NRTL Certified to CSA and UL Standards; CE-Marked

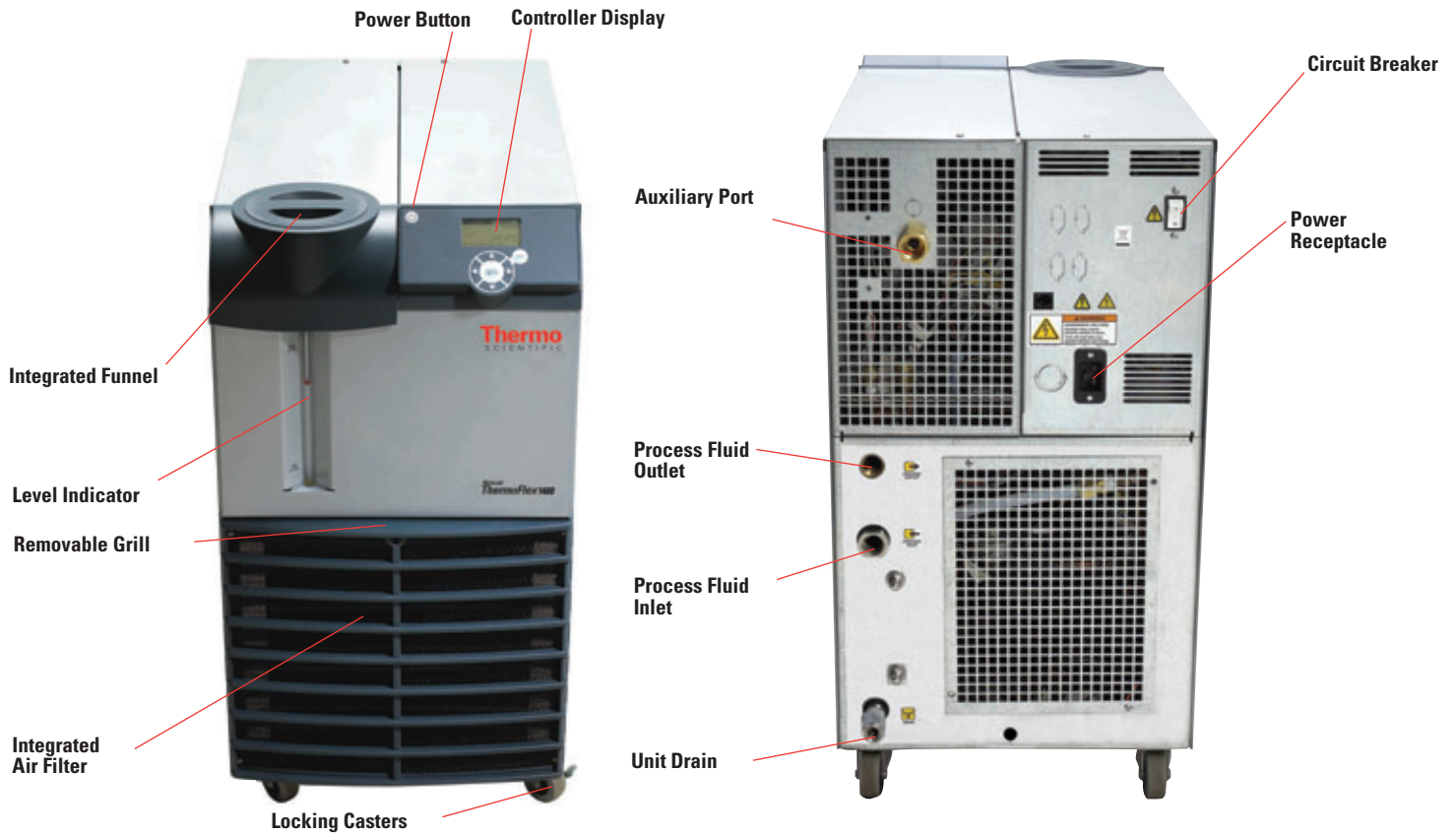
Cooling Capacity



Pumping Capacity



Specifications obtained 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 or altitude will affect performance. Specifications subject to change.



Options

Feature	Benefit
Auto refill	Allows for self-filling of the chiller to ensure that the proper level in reservoir is maintained, saving valuable time.
Anti-drainback	Ensures reservoir does not overflow when chiller is shut down. This allows the chiller to be installed more than 24 ft. below the application.
DI resistivity internal	DI filtration internal to the chiller is used to maintain the resistivity level below 3 Mohm, with an alarm at 1 Mohm. This minimizes footprint and eliminates downtime needed to change the filter, while ensuring constant quality of DI water to your application.
Pressure relief	Easily adjustable pressure relief valve allows for control of the outlet pressure from the chiller to be regulated, ensuring your process performance requirements are met.
Flow Control	Utilizes a 3-way valve that allows you to control the amount of flow to the application. The process flow is measured on the return to the unit, ensuring the appropriate amount of flow is provided to the application.
Pressure/Flow Control	Allows you to control the pressure as well as the flow in your application. Utilizes a pressure relief valve and monitors the flow through the process return and displays the reading on the controller.
Water-Cooled	Uses facility water to cool the system, minimizing heat dissipation into the environment.

Accessories

Feature	Details
Installation Kit	Supply and return plumbing available in 25 and 50 ft lengths, suitable for temperatures up to +80°C.
Fluid Quality Kit	Complete fluid quality system includes algaecide and corrosion inhibitor to ensure your process has optimal fluid quality.
Ethylene Glycol	Laboratory-grade ethylene glycol allows circulation to temperatures down to -20°C in a 50/50 mixture with water. Available in a 5 gallon container.
Propylene Glycol	Laboratory-grade propylene glycol allows circulation to temperatures down to -20°C in a 50/50 mixture with water. Available in a 5 gallon container.
Maintenance Kit	Includes condenser air filters and in-line fluid filters for ease of maintenance.

Order Information

Description	Order No
TF9 B A 230/50 P1	130-0002
TF9 B A 230/50 P1 IPR	130-0004
TF9 B A 230/50 P2	130-0005
TF9 B A 230/50 P2 IPR	130-0003
TF14 B A 230/50 P1	130-1004
TF14 B A 230/50 P1 IPR	130-1002
TF14 B W 230/50 P1	130-1006
TF14 B W 230/50 P1 IPR	130-1008
TF14 B A 230/50 P2	130-1009
TF14 B A 230/50 P2 IPR	130-1003
TF14 B W 230/50 P2	130-1010
TF14 B W 230/50 P2 IPR	130-1012

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