

The NESLAB Merlin Series of process chillers provides reliable temperature control for your critical applications. Powerful cooling capacities (725 watts to 4540 watts), a variety of standard features and options, and a space-saving design provide high performance at a great value. Stability levels of up to $\pm 0.1^{\circ}\text{C}$ keep critical processes consistent. Multiple configurations are available to meet your exact application requirements.

Key NESLAB Merlin Series Features:

- Footprints are up to 30% smaller than the competition, saving valuable floor space
- Easy to install, operate and maintain - saves precious time and money
- All units have a two-year warranty and are listed to UL, CE and CSA to ensure the utmost in safety, reliability and quality
- Circulate to open or closed containers
- Reservoir isolation valves eliminate reservoir overflow when pumping vertically
- Easy-view fluid reservoir
- Integral fluid pressure and flow adjustment
- Pressure gauge for fluid system diagnostics at a glance
- High/low temperature safeties are user adjustable



- Quick release front grille for easy condenser cleaning
- Reservoir drain for quick and tidy fluid changes

Typical Applications:

Lasers
Analytical instrumentation
Semiconductor manufacture

Medical imaging equipment
Process cooling
Reaction vessels
Condensers

Printing equipment
Electron microscopes

Specifications

Cat No.	M-25	M-33	M-75	M-100	M-150
Cooling Capacity	725 Watts at 20°C 2474 BTU/hr at 20°C 624 Kcal / hr at 20°C	1125 Watts at 20°C 3840 BTU/hr at 20°C 968 Kcal / hr at 20°C	2180 Watts at 20°C 7440 BTU/hr at 20°C 1875 Kcal / hr at 20°C	3500 Watts at 20°C 11946 BTU/hr at 20°C 3010 Kcal / hr at 20°C	4540 Watts at 20°C 15495 BTU/hr at 20°C 3905 Kcal / hr at 20°C
Temperature Range	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C	+5°C to +35°C
Stability	$\pm 0.1^{\circ}\text{C}$	$\pm 0.1^{\circ}\text{C}$	$\pm 0.15^{\circ}\text{C}$	$\pm 0.15^{\circ}\text{C}$	$\pm 0.15^{\circ}\text{C}$
Pump	MD-30/PD-1	MD-30/PD-1/PD-2	PD-1/PD-2	PD-2/CP-55	PD-2/CP-55
Reservoir Volume gal (ltrs)	0.5 (1.8)	0.5 (1.8)	0.5 (1.8)	0.5 (1.8)	0.5 (1.8)
Dimensions (H x W x D) mm	597 x 321 x 530	597 x 321 x 530	664 x 413 x 610	772 x 540 x 743	772 x 540 x 743
Power Requirements Volts / Hz	230 V 5 Amps	230 V 7 Amps	230 V 9 Amps	230 V / single phase 13 Amps	230 V / single phase 16 Amps

Specifications listed for standard units circulating 20°C water at 20°C ambient. Other fluids, fluid temperatures, or ambients will affect performance. Cooling capacity and amperage ratings based on units with PD-1 pumps (PD-2 for M100 and M150). Other pumps will affect performance.

Ordering Information

Cat No.	Description
M-25	M-25 Recirculating Chiller
M-33	M-33 Recirculating Chiller
M-75	M-75 Recirculating Chiller
M-100	M-100 Recirculating Chiller
M-150	M-150 Recirculating Chiller

* Note:- M100 and M150 units with CP-55 pump have a height of 36 $\frac{3}{8}$ " and a shipping weight of 310 lbs. Specifications subject to change.