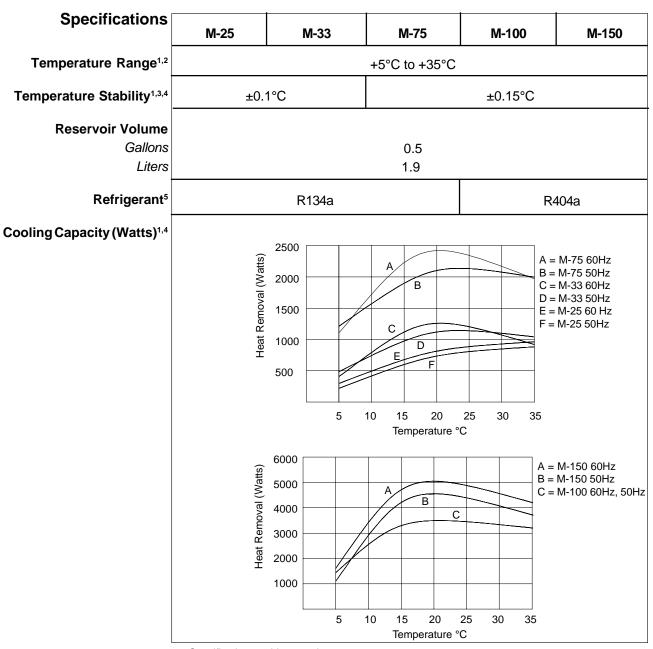
## **Description**

The Merlin Recirculating Chiller is designed to provide a continuous supply of cooling fluid at a constant temperature and volume. The unit consists of an air-cooled refrigeration system, plate heat exchanger, recirculating pump, polyethylene reservoir, and a microprocessor temperature controller.

Throughout the manual, you will be asked to consult the unit's serial number label for specific information. The label is located on the rear of the unit.

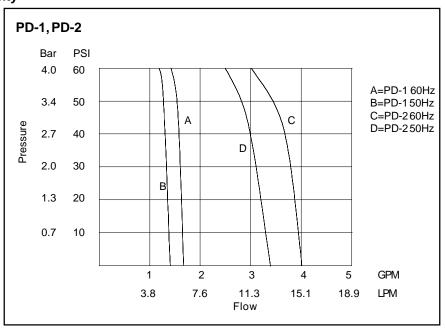


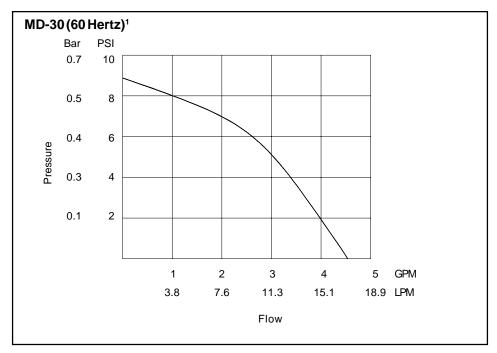
- 1. Specifications subject to change.
- 2. Modified temperature ranges to either -15°C or to +90°C are available.
- At the chiller. Display resolution 1.0°C. 0.1°C display resolution is available using the controller's Setup/Tuning Loop, see page 20.
- Circulating water at 20°C ambient. Cooling capacity will vary depending on fluid temperature, ambient temperature, and cooling fluid.
- 5. Standard temperature range units.

## **Pump Options**

0, 1, 1,					
Standard temperature range units					
Unit	Standard	Optional			
M-25	MD-30 or PD-1	None			
M-33	MD-30 or PD-1	PD-2			
M-75	PD-1	PD-2			
M-100	PD-2	CP-55			
M-150	PD-2	CP-55			
100	102				
	nperature range units	0. 00			
		Optional			
High/Low ten Unit	nperature range units				
High/Low ten	nperature range units Standard	Optional			
High/Low ten Unit M-25 M-33	nperature range units Standard PD-1	<b>Optional</b> None			
High/Low ten Unit M-25	nperature range units Standard PD-1 PD-1	<b>Optional</b> None PD-2			

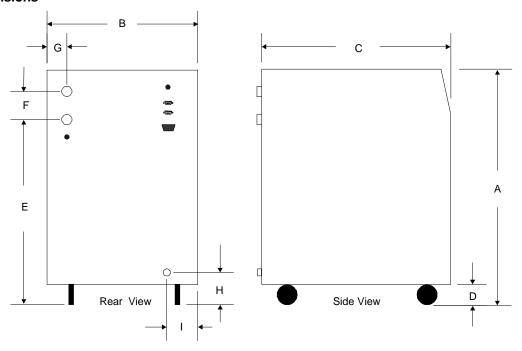
## **Pump Capacity**





1. The MD-30 is not available for 50 Hertz units.

## **Unit Dimensions**



Unit Dimensions	M-25	M-33	M-75	M-100	M-150
Dimension A <sup>1</sup>	23 7/8	23 7/8	26 5/8	30 1/4	30 1/4
Dimension B <sup>1</sup>	12 5/8	12 5/8	16 1/4	21 1/4	21 1/4
Dimension C <sup>1</sup>	20 1/8	20 1/8	23 3/8	28 5/8	28 5/8
Dimension D <sup>2</sup>	2	2	2	3	3
Dimension E <sup>3</sup>	18 7/8	18 7/8	21 1/8	24 3/4	24 3/4
Dimension F <sup>4</sup>	3	3	3	3	3
Dimension G⁵	3/4	3/4	2	1 1/2	1 1/2
Dimension H <sup>6</sup>	4	4	3	7 3/4	7 3/4
Dimension I <sup>7</sup>	4 1/4	4 1/4	3 1/2	5	5
Crate Dimensions (D x W x H)8	26x18½x36	26x18½x36	29¼x22¼x39	351/4x27x42	351/4x27x42
Shipping Weight <sup>9</sup>	150	150	200	290	290
Air Intake (ft³/min)¹0	178	178	385	755	755

- Dimension A is the height of the unit. Units with CP-55 pumps are 6" higher. The unit width and depth (dimensions B and C) are the case dimensions, add approximately 1/2 inch to include the plumbing connections.
- 2. Dimension D is the distance from the floor to the bottom of the unit case (height of the casters).
- 3. Dimension E is the distance from the floor to the center of the outlet connection.
- 4. Dimension F is the distance between the center of the outlet and inlet connections.
- $5. \quad \hbox{Dimension $G$ is the distance from the unit's side to the center of the outlet and inlet connections.}$
- 6. Dimension H is the distance from the floor to the center of the drain connection.
- 7. Dimension I is the distance from the unit's side to the center of the drain connection.
- 8. Crate dimensions for units with CP-55 pumps are 6 inches higher. All packages tested to ISTA 2B.
- 9. Shipping weight in pounds, ±10 pounds.
- 10. Air intake for 60 Hz units.

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