

Section II General Information

Description

The CFT Recirculating Chiller is designed to provide a continuous supply of cooling fluid at a constant temperature and volume.

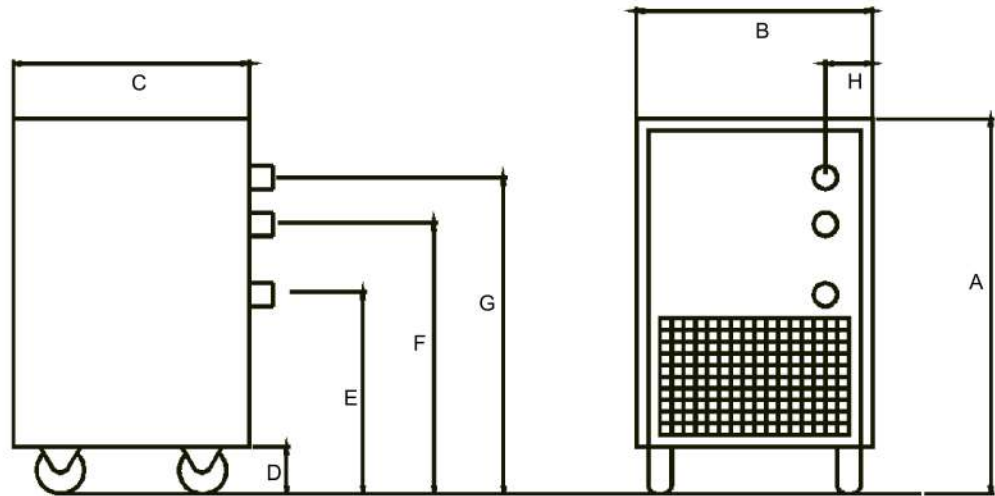
The unit consists of an air-cooled refrigeration system, a sealable reservoir, recirculating pump, and a temperature controller.

Throughout the manual, you will be asked to consult the unit's serial number label or the pump identification label for specific information. Both labels are located on the rear of the unit.

Specifications

	CFT-25	CFT-33	CFT-75	CFT-150	CFT-300	
Cooling Capacity¹						
	60Hz	580 Watts	950 Watts	2100 Watts	4500Watts	10650 Watts
	50Hz	475 Watts	1000 Watts	1900 Watts	3735 Watts	9000 Watts
Temperature Range	+5°C to +30°C			+5°C to +35°C		
	Temperature Stability^{2,3}					
<i>Analog Temperature Controller</i>	±1.0°C					
<i>Digital Temperature Controller</i>	±0.5°				±1.0°	
Reservoir Volume						
	<i>Gallons</i>	0.5	1.1	1.8	5.6	
	<i>Liters</i>	1.9	4.1	6.8	21.3	
Refrigerant	R134a			R22		

1. Circulating water at 20°C, at 20°C ambient. Cooling capacity will vary depending on fluid temperature, ambient temperature, and cooling fluid. A PD-1 pump was used in the CFT-25, a PD-2 in the other units.
2. Stability determined for CFT-150 analog unit with 75% heat load @ 20°C circulating temperature.
3. CFT-300 stability determined with 86% heat load.

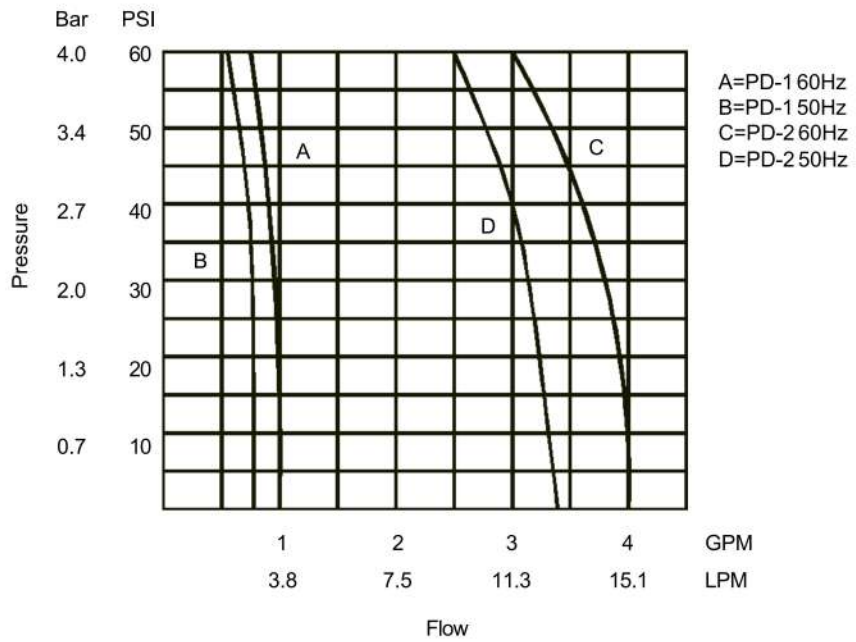
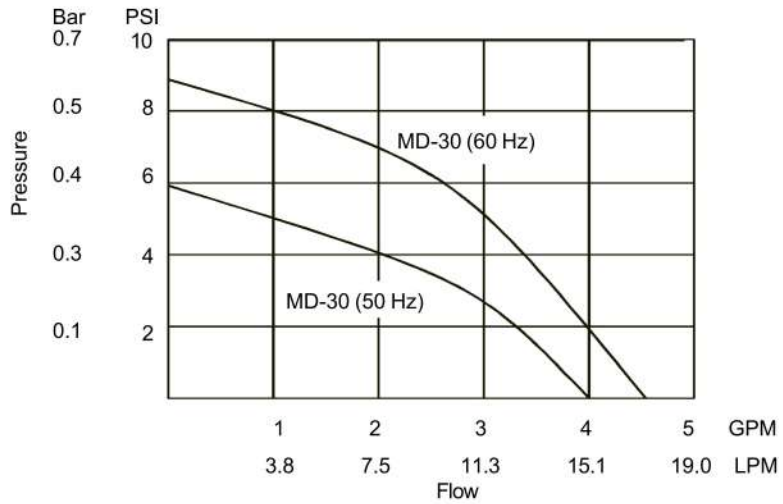


	CFT25	CFT33	CFT75	CFT150	CFT300
Unit Dimensions					
<i>Dimension A</i>	22	24½	26½	36¾	43
<i>Dimension B</i>	12½	14¾	14 7/8	21¾	25½
<i>Dimension C</i>	21	22	24½	27¾	28½
<i>Dimension D</i>	2¾	2½	2½	3½	2¾
<i>Dimension E</i>	NA	NA	NA	NA	29
<i>Dimension F</i>	17 1/16	18½	22	32¼	38¼
<i>Dimension G</i>	20 1/16	21½	25	35¼	41¼
<i>Dimension H</i>	1½	1	1 1/8	1 1/8	1
Crate Dimensions (H x W x D)	31x23x28	31x23x32	32x23x40	33x29x42	35x33x56
Shipping Weight	110	161	181	320	450
Air Intake	280	375	800	1050	2500
Electrical Requirements					
<i>Volts</i>	115V	115V	208/230V	208/2300V	208/230V
<i>Hertz</i>	60Hz	60Hz	60Hz	60Hz	60Hz
<i>Phase</i>	1	1	1	1	3
<i>Plug</i>	NEMA5-15P	NEMA5-20P	NEMAL6-15P	NEMAL6-20P	NA

1. Dimension A is the height of the unit. The unit width and depth (dimensions B and C) are the case dimensions. Add approximately 2 inches to include the plumbing connections.
2. Dimension D is the distance from the floor to the bottom of the unit case (height of the castors).
3. Dimension E is the distance from the floor to the center of the DRAIN connection (CFT-300 only).
4. Dimension F is the distance from the floor of the center of the OUTLET connection.
5. Dimension G is the distance from the floor of the center of the INLET connection.
6. Dimension H is the distance from the unit's left side to the center of the INLET, OUTLET and DRAIN connections.
7. Weights are given in pounds
8. Air intake is given in cubic feet per minute.

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Pump Capacity¹



1. To determine which pump is installed, refer to the label on the rear of your unit.