

PORTABLE CHILLERS

CF SERIES
AIR & WATER-COOLED

- **2 to 3 Tons Capacity**
- **Microprocessor Based Chiller Control**
- **Single Refrigerant Zone**
- **Steel Frame & Cabinetry**
- **Hermetic Compressor**
- **Brazed Plate Evaporator**
- **Non Ozone Depleting Refrigerants**

The **CF Series** portable chiller provides precision temperature control from an economically affordable and reliable unit. Perfect for applications such as plastic injection molding, blow molding, extrusion and other industrial applications. Product features include:

TEMPERATURE RANGE

- 20° - 65°F

REFRIGERANT CIRCUIT

- Hermetic scroll compressor
- Compressor suction service valve
- Compressor discharge service valve
- Braze plate evaporator
- Air-cooled condenser with fan induced air flow on CF-2A & CF-3A
- Water-cooled condenser on CF-2W and CF-3W models
- Liquid line solenoid valve
- Sight glass with moisture indicator
- Thermostatic expansion valve
- Hot gas by-pass capacity control
- Environmentally friendly refrigerants

COOLANT CIRCUIT

- Large capacity process pump
- Insulated internal reservoir

ELECTRICAL

- Nema 1 construction
- Process pump motor starter
- Compressor motor starter
- Fused transformer
- Power entry terminal block

LIMIT DEVICES

- Compressor motor overload protection
- Refrigerant high pressure switch
- Refrigerant low pressure switch
- Instrument control circuit fuse

FRAME

- Female NPT process connections
- Galvanized steel frame
- Polyethylene cover panel
- Casters



CF- 2A Shown



CF- 2W Shown

CHILLER CONTROL INSTRUMENT

- Microprocessor based controller
- Large temperature display window
- To process temperature display in °F and °C
- Illuminated Power On switch
- Indicator lights for *Compressor* and *Hot Gas Bypass*
- Diagnostic light for *Refrigerant Fault*
- Soft key setpoint selectors

WARRANTY & SERVICE

- 1 year on parts & labor
- Nationwide network of service contractors

PRICE & PERFORMANCE... for the LONG TERM

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SPECIFICATIONS

MODEL CF-		2A	3A	4A	
CAPACITY @ 50°F LWT	Tons ²	2	2.9	4	
	KW ²	7.0	10.8	14.0	
COMPRESSOR	HP	2	3	4	
	Type ³	SC	SC	SC	
REFRIGERANT		410A	410A	410A	
PROCESS PUMP	HP	3/4	3/4	3/4	
	GPM	4.8	7.2	9.6	
	PSI	32	30	30	
	Type ⁴	C	C	C	
	Construction ⁵	SS	SS	SS	
CONNECTION	Process (to/from)	3/4	1	1 1/4	
SIZES	Make-Up	--	--	--	
AIR-COOLED	Type ⁶	F	F	F	
CONDENSER	CFM x 1000	2	3	5	
	S.P. ⁷	--	--	--	
	Ambient ⁸	95	95	95	
FULL LOAD ¹¹	115/1/60	--	--	--	
AMPERAGE	230/1/60	--	--	--	
	230 volt	17	20	24	
	460 volt	8.5	10	12	
	575 volt	--	--	--	
TANK CAPACITY	Holding	7 1/2	7 1/2	25	
	(gallons)	Tank Lid ¹²	O	O	S
	Auto Make Up ¹²	O	O	O	
DIMENSIONS	Height	30	43	60	
	(inches)	Width	37	34	34
	Depth	24	40	40	
WEIGHTS (pounds)	Shipping ¹³	415	600	800	

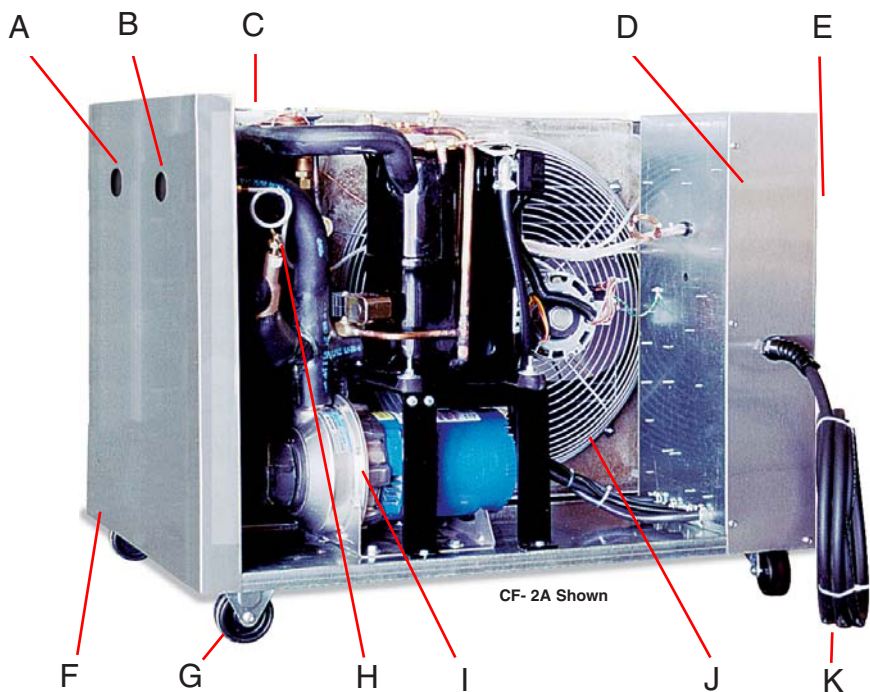
MODEL CF-		2W	3W	
CAPACITY @ 50°F LWT	Tons ²	2	3	
	KW ²	7.0	10.5	
COMPRESSOR	HP	2	3	
	Type ³	SC	SC	
REFRIGERANT		410A	410A	
PROCESS PUMP	HP	3/4	3/4	
	GPM	4.8	7.2	
	PSI	32	30	
	Type ⁴	C	C	
	Construction ⁵	SS	SS	
CONNECTION	Process (to/from)	3/4	3/4	
SIZES	Condenser	1/2	3/4	
	Make-Up	--	--	
WATER-COOLED	City ⁹	3	6	
CONDENSER	Tower ¹⁰	6	9	
FULL LOAD ¹¹	115/1/60	--	--	
AMPERAGE	230/1/60	--	--	
	230 volt	16	18	
	460 volt	8	9	
	575 volt	7	8	
TANK CAPACITY	Holding	7 1/2	7 1/2	
	(gallons)	Tank Lid ¹²	O	O
	Auto Make Up ¹²	O	O	
DIMENSIONS	Height	30	30	
	(inches)	Width	37	37
	Depth	24	24	
WEIGHTS (pounds)	Shipping ¹³	445	470	

Notes

- Since product innovation and improvement is our constant goal, all features and specifications are subject to change without notice or liability. Selection of certain optional features may change listed specifications.
- Tons or Kilowatts capacity at 12,000 Btu/hr/ton @ 50°F LWT, 95°F ambient and 115°F condensing. Capacity multipliers are 50°F - 1.00; 40°F - .80; 30°F - .60; 20°F - .40. The minimum recommended operating temperature when no glycol is used is 48°F.
- R = hermetic reciprocating. SC = hermetic scroll.
- P = positive displacement. C = centrifugal.
- B = brass. SS = stainless steel. C = cast iron.
- F = fan. B = blower.
- Static pressure in inches of water.
- Design ambient conditions. Loss of capacity and/or difficulty operating will occur at higher ambient.
- City water requirements based on 60°F water supply at 20 PSI differential with a clean condenser.
- Tower water requirements based on 85°F water supply at 20 PSI differential with a clean condenser.
- Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring.
- S = standard. O = optional.
- Approximate unit weight crated for shipment.

MECHANICAL COMPONENTS

- A - From Processor Connection
- B - To Processor Connection
- C - Reservoir Tank
- D - Electrical Cabinet
- E - Instrument (not visible from this angle)
- F - Galvanized Steel Cabinet
- G - Caster
- H - Optional Coolant Bypass Valve
- I - Centrifugal Pump
- J - Air-Cooled Condenser/ Fan Assembly
- K - 10' Power Cord



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