

# 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.

## 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

## WARRANTY & SERVICE

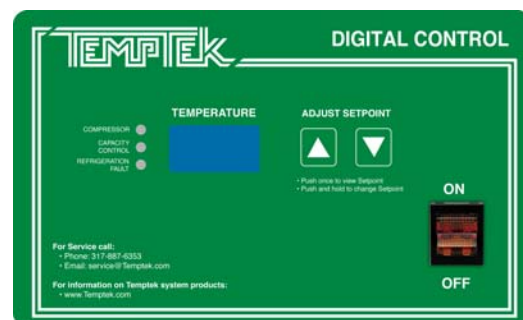
- 1 year on parts & labor
- Nationwide network of service contractors



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

**PRICE & PERFORMANCE... for the LONG TERM**

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# TEMPEK

since 1989

# SPECIFICATIONS

MODEL CF-		2A	3A	4A	
CAPACITY @ 50°F LWT	Tons <sup>2</sup>	2	2.9	4	
	KW <sup>2</sup>	7.0	10.8	14.0	
COMPRESSOR	HP	2	3	4	
	Type <sup>3</sup>	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 <sup>4</sup>	C	C	C	
	Construction <sup>5</sup>	SS	SS	SS	
CONNECTION	Process (to/from)	3/4	1	1 1/4	
SIZES	Make-Up	--	--	--	
AIR-COOLED	Type <sup>6</sup>	F	F	F	
CONDENSER	CFM x 1000	2	3	5	
	S.P. <sup>7</sup>	--	--	--	
	Ambient <sup>8</sup>	95	95	95	
FULL LOAD <sup>11</sup>	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 <sup>12</sup>	O	O	S
	Auto Make Up <sup>12</sup>	O	O	O	
DIMENSIONS	Height	30	43	60	
	(inches)	Width	37	34	34
	Depth	24	40	40	
WEIGHTS (pounds)	Shipping <sup>13</sup>	415	600	800	

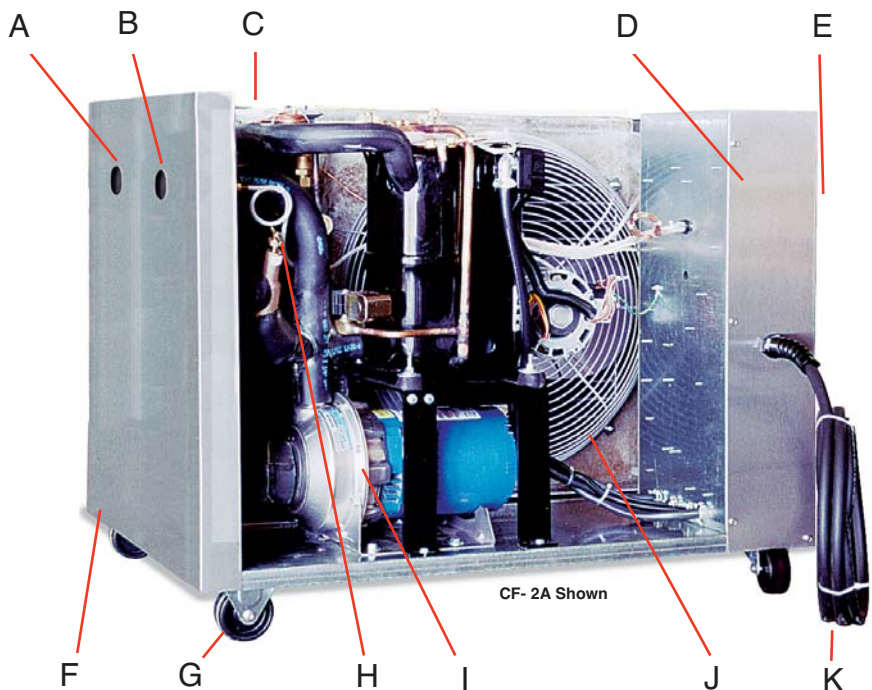
MODEL CF-		2W	3W	
CAPACITY @ 50°F LWT	Tons <sup>2</sup>	2	3	
	KW <sup>2</sup>	7.0	10.5	
COMPRESSOR	HP	2	3	
	Type <sup>3</sup>	SC	SC	
REFRIGERANT		410A	410A	
PROCESS PUMP	HP	3/4	3/4	
	GPM	4.8	7.2	
	PSI	32	30	
	Type <sup>4</sup>	C	C	
	Construction <sup>5</sup>	SS	SS	
CONNECTION	Process (to/from)	3/4	3/4	
SIZES	Condenser	1/2	3/4	
	Make-Up	--	--	
WATER-COOLED	City <sup>9</sup>	3	6	
CONDENSER	Tower <sup>10</sup>	6	9	
FULL LOAD <sup>11</sup>	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 <sup>12</sup>	O	O
	Auto Make Up <sup>12</sup>	O	O	
DIMENSIONS	Height	30	30	
	(inches)	Width	37	37
	Depth	24	24	
WEIGHTS (pounds)	Shipping <sup>13</sup>	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 (Air-Cooled Models Only)
- K - 10' Power Cord



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