

PORTABLE CHILLERS

CF SERIES AIR-COOLED

- *1/4 to 1.5 Tons Capacity*
- *Microprocessor Control*
- *Air-Cooled Condenser*
- *Galvanized Steel Frame*
- *Nonferrous Coolant Circuit*
- *Non Ozone Depleting Refrigerants*
- *EDM Specific Designs*

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

TEMPERATURE RANGE

- 20° - 70°F

REFRIGERANT CIRCUIT

- Hermetic compressor
- Air-cooled condenser with fan induced air flow
- Filter-drier
- Liquid line solenoid valve
- Refrigerant sight glass with moisture indicator
- Thermostatic expansion valve
- Coaxial evaporator
- Full component insulation
- Environmentally friendly refrigerants

COOLANT CIRCUIT

- Brass vane pump
- Insulated non-ferrous reservoir
- Reservoir level sight glass

LIMIT DEVICES

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

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



CF-1A Shown

ELECTRICAL

- Nema rated electrical cabinet
- Process pump motor starter
- Compressor motor starter
- Fused transformer
- Factory installed power cord

FRAME

- Female NPT process connections
- Galvanized steel frame
- Enclosure panels (optional)
- 3" bearing casters

WARRANTY & SERVICE

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

PRICE & PERFORMANCE... for the LONG TERM

phone: 847-427-0414 web site: www.temptekchillers.com email: ennes@chillerconnect.com

TEMPTTEK®

since 1989

SPECIFICATIONS

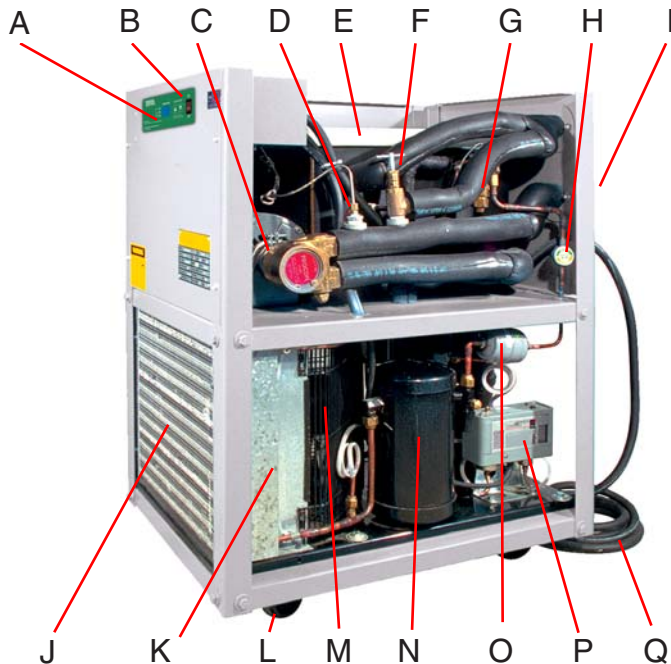
MODEL M1-		.25A	.33A	.5A	.75A	1A	1.5A
CAPACITY @ 50°F LWT	Tons ²	.29	.39	.50	.75	1	1.5
	KW ²	1	1.36	1.75	2.53	3.5	4.73
COMPRESSOR	HP	.25	.33	.50	.75	1	1.5
	Type ³	R	R	R	R	R	R
REFRIGERANT		134A	134A	134A	134A	134A	134A
PROCESS PUMP	HP	1/3	1/3	1/3	1/3	1/2	1/2
	GPM	.7	.9	1.2	1.8	2.4	3.6
	PSI	60	60	60	60	60	60
	Type ⁴	P	P	P	P	P	P
	Construction ⁵	B	B	B	B	B	B
CONNECTION	Process (to/from)	1/2	1/2	1/2	1/2	1/2	1/2
SIZES	Make-Up	--	--	--	--	--	--
AIR-COOLED	Type ⁶	F	F	F	F	F	F
CONDENSER	CFM x 1000	.25	.33	.45	.65	.71	1.1
	S.P. ⁷	--	--	--	--	--	--
	Ambient ⁸	90	90	90	90	90	90
FULL LOAD ⁹	115/1/60	13	15	17	21	29	--
	AMPERAGE						
230 volt	230/1/60	--	--	9	11	15	20
	460 volt	--	--	--	--	--	--
	575 volt	--	--	--	--	--	--
TANK CAPACITY (gallons)	Holding	4	4	4	4	4	4
	Tank Lid ¹⁰	S	S	S	S	S	S
	Auto Make Up ¹⁰	O	O	O	O	O	O
DIMENSIONS (inches)	Height	33	33	33	33	37	37
	Width	18	18	18	18	19	19
	Depth	24	24	24	24	25	25
WEIGHTS (pounds)	Shipping ¹¹	220	220	220	265	345	350

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Notes

1. 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.
2. 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.
3. R = hermetic reciprocating. SC = hermetic scroll.
4. P = positive displacement. C = centrifugal.
5. B = brass. SS = stainless steel. C = cast iron.
6. F = fan. B = blower.
7. Static pressure in inches of water.
8. Design ambient conditions. Loss of capacity and/or difficulty operating will occur at higher ambient.
9. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring.
10. S = standard. O = optional.
11. Approximate unit weight crated for shipment.



MACHINE COMPONENTS

- A - Chiller Control
- B - Power Switch
- C - Pump
- D - Temperature Sensor
- E - Reservoir
- F - Bypass Valve
- G - Expansion Valve
- H - Refrigerant Sight Glass
- I - Process Connections (not visible in photograph)
- J - Condenser
- K - Fan Assembly
- L - Caster
- M - Compressor (not visible in photograph)
- N - Liquid Receiver
- O - Filter- Drier
- P - High/ Low Pressure Switch
- Q - Power Cord

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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
- EDM Specific Designs

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

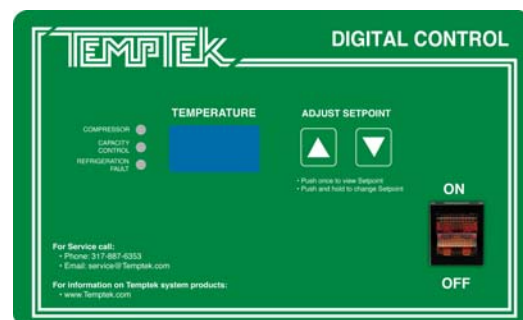
- 1 year on parts & labor
- Nationwide network of service contractors



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

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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	

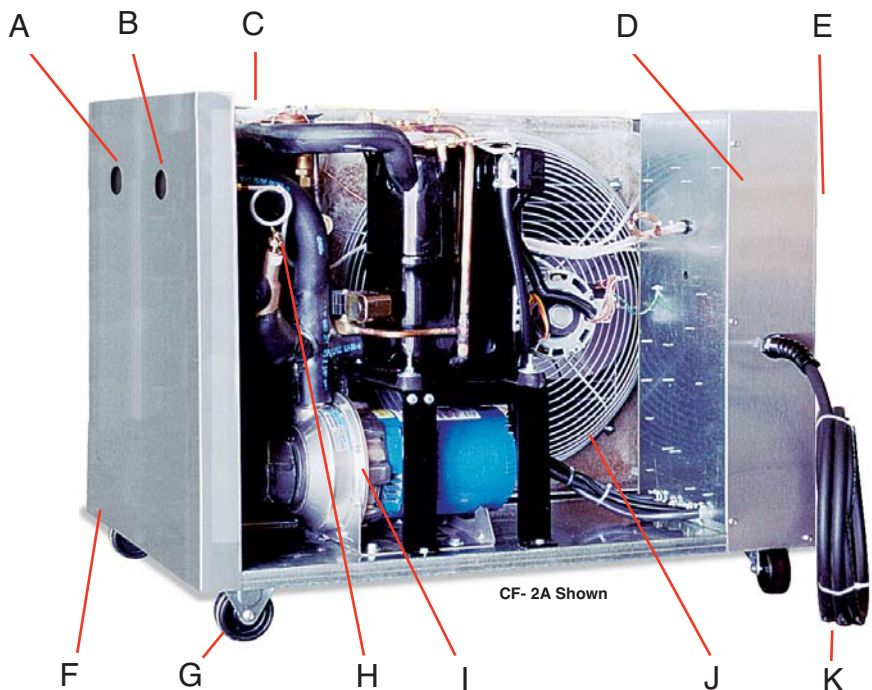
MODEL CF-		2W	3W	
CAPACITY @ 50°F LWT	Tons ²	2	3	
	KW ²	7.0	10.5	
COMPRESSOR	HP	2	3	
	Type ³	SC	SC	
REFRIGERANT		410A	410A	
PROCESS PUMP	HP	3/4	3/4	
	GPM	4.8	7.2	
	PSI	32	30	
	Type ⁴	C	C	
	Construction ⁵	SS	SS	
CONNECTION	Process (to/from)	3/4	3/4	
SIZES	Condenser	1/2	3/4	
	Make-Up	--	--	
WATER-COOLED	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 (Air-Cooled Models Only)
- K - 10' Power Cord



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