

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**

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

Authorized Dealer
Southgate Process Equipment, Inc.
87 Hickory Springs IND. Drive
Canton, GA 30115
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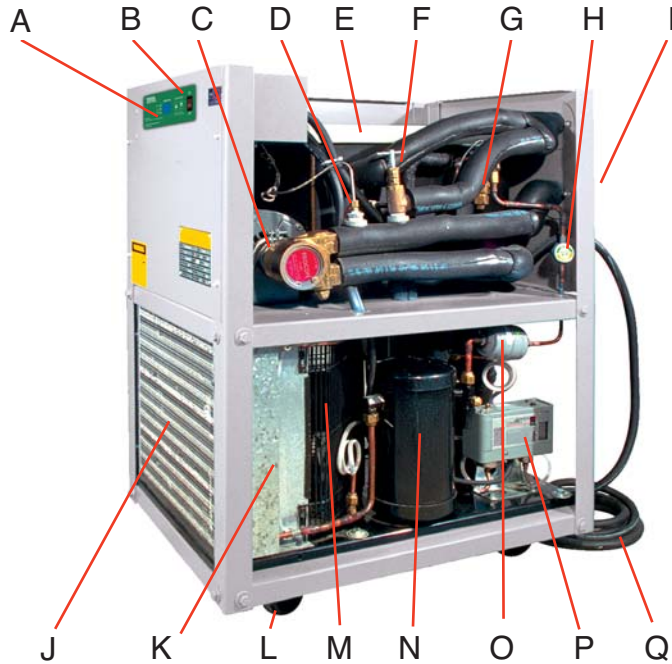
PRICE & PERFORMANCE... for the LONG TERM

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COMPONENTS

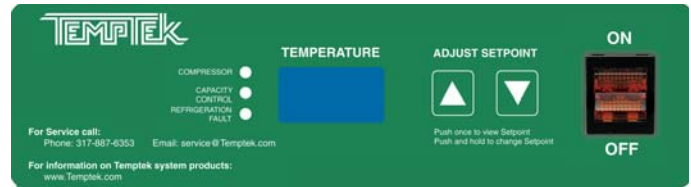


MACHINE COMPONENTS

- 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

INSTRUMENT

The standard chiller control for 1/4 to 1-1/2 ton chillers provides basic temperature and machine status monitoring.



SPECIFICATIONS

MODEL CF-		.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	5.26
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 ⁶	--	--	--	--	--	--
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	230/1/60	--	--	9	11	15	20
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

FEATURES:

- Accurate control
- Large & Bright LED temperature display
- Digital Setpoint selection with soft touch keys
- Illuminated Chiller On / Off switch
- Compressor On light
- Basic chiller diagnostics with Refrigeration Fault light
- Capacity control light

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.

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