

# PORTABLE CHILLERS

# CF-A SERIES

AIR-COOLED

- 5 to 30 Tons Capacity
- Microprocessor Based Chiller Control
- Air-Cooled Condenser
- Steel Frame & Lift-Off Cabinetry
- Scroll Compressor
- Brazed Plate Evaporator
- Non Ozone Depleting Refrigerants

The **CF-A 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

- Scroll compressor
- Air-cool condenser
- Fan induced air flow
- Filter-drier
- Liquid line solenoid valve
- Refrigerant sight glass with moisture indicator
- Thermostatic expansion valve
- Hot gas by-pass capacity control
- Braze plate evaporator
- Full component insulation
- Environmentally friendly refrigerants

## COOLANT CIRCUIT

- Stainless steel process pump on 5-20 ton models
- Cast iron process pump on 25 - 40 ton models
- Insulated non-ferrous reservoir
- All non-ferrous construction

## LIMIT DEVICES

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

## ELECTRICAL

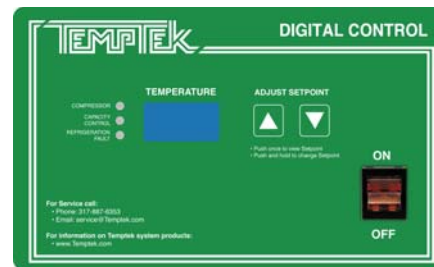
- Nema rated electrical cabinet
- Process pump motor starter
- Compressor motor starter
- Fused transformer
- Power entry terminal block

## WARRANTY & SERVICE

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



CF-10A 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

## FRAME

- Female NPT process connections
- Powder coated steel frame
- 4" bearing casters

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

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# TEMPEK

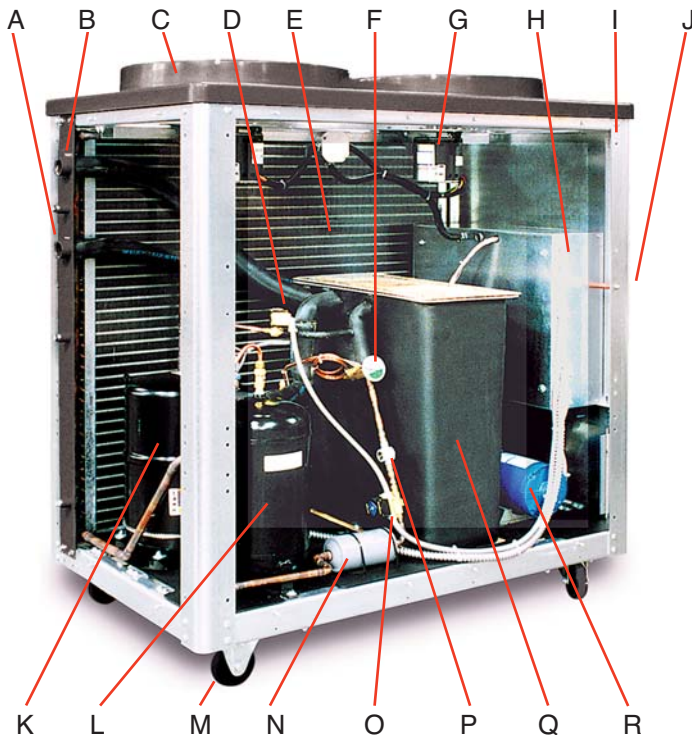
since 1989

# SPECIFICATIONS

MODEL CF-		5A	7.5A	10A	15AF	15AB	20AF	20AB	25A	30A
CAPACITY @ 50°F LWT	Tons <sup>2</sup>	4.9	7.2	9.8	14.5	14.5	18.5	18.5	23.1	30
	KW <sup>2</sup>	17.2	25.3	34.4	50.9	50.9	65.0	65.0	81.0	105.3
COMPRESSOR	HP	5	7½	10	15	15	20	20	25	30
	Type <sup>3</sup>	SC	SC	SC	SC	SC	SC	SC	SC	SC
REFRIGERANT		410A	410A	410A	410A	410A	410A	410A	410A	410A
PROCESS PUMP	HP	2	2	2	3	3	3	3	5	5
	GPM	12	18	24	36	36	48	48	60	72
	PSI	52	50	48	55	55	50	50	59	57
	Type <sup>4</sup>	C	C	C	C	C	C	C	C	C
	Construction <sup>5</sup>	SS	SS	SS	SS	SS	SS	SS	SS	SS
CONNECTION	Process (to/from)	1¼	1¼	1¼	2	2	2	2	2	2
SIZES	Make-Up	½	½	½	½	½	½	½	½	½
AIR-COOLED	Type <sup>6</sup>	F	F	F	F	B	F	B	B	B
CONDENSER	CFM x 1000	5	10	10	15	15	20	20	20	30
	S.P. <sup>7</sup>	--	--	--	--	1.35	--	1.35	1.35	1.35
	Ambient <sup>8</sup>	95	95	95	95	95	95	95	95	95
FULL LOAD <sup>9</sup> AMPERAGE	230/3/60 volt	34	48	56	80	87	92	103	148	184
	460/3/60 volt	17	24	28	40	44	46	51.5	74	92
	575/3/60 volt	14	19	23	32	31	37	42	60	74
TANK CAPACITY (gallons)	Holding	25	25	25	65	65	65	65	65	65
	Tank Lid <sup>10</sup>	S	S	S	S	S	S	S	s	S
	Auto Make Up <sup>10</sup>	S	S	S	S	S	S	S	s	S
DIMENSIONS (inches)	Height	60	60	60	66	96	66	96	96	96
	Width	34	34	34	59	58	59	58	58	58
	Depth	40	56	56	58	70	58	70	70	70
WEIGHTS (pounds)	Shipping <sup>11</sup>	800	1,100	1,100	1,600	2,300	2,000	2,600	3,200	3,400

## 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.
- 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 Process Connection
- B - To Process Connection
- C - Protective Fan Shroud
- D - Hot Gas Bypass Valve
- E - Air-Cooled Condenser
- F - Expansion Valve
- G - Fan Motor
- H - Electrical Cabinet
- I - Steel Frame
- J - Instrument (not viewed in picture)
- K - Liquid Receiver
- L - Compressor
- M - Castor
- N - Filter-drier
- O - Liquid Line Solenoid Valve
- P - Refrigerant Sight Glass
- Q - Insulated reservoir
- R - Centrifugal pump

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