

# 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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**TEMPTTEK**

since 1989

# SPECIFICATIONS

## CF SPECIFICATIONS 2 - 3 TONS

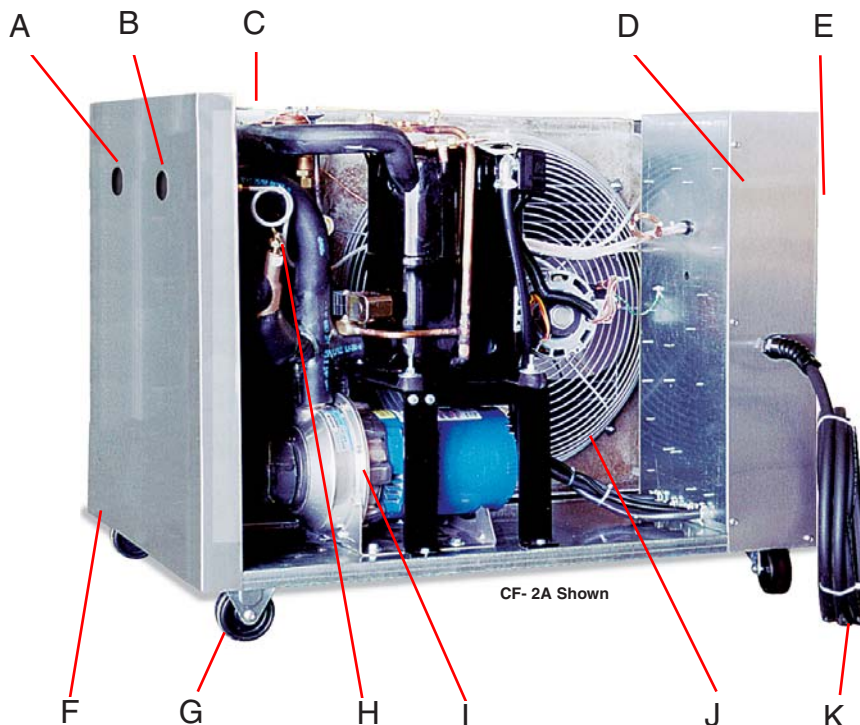
MODEL		CF-2A	CF-2W	CF-3A	CF-3W
<b>COMPRESSOR</b>	Capacity <sup>1</sup>	2	2	3	3
	HP	2	2	3	3
	Type <sup>2</sup>	H	H	H	H
<b>PROCESS PUMP<sup>3</sup></b>	HP	3/4	3/4	3/4	3/4
	GPM	4.8	4.8	7.2	7.2
	PSI	32	32	30	30
<b>CONNECTION SIZES (inches)</b>	Process	3/4	3/4	1	3/4
	Condenser	n/a	1/2	n/a	3/4
<b>WATER-COOLED CONDENSER</b>	Tower <sup>4</sup>	n/a	6	n/a	9
<b>Flow Requirements</b>	City <sup>5</sup>	n/a	3	n/a	6
<b>AIR-COOLED CONDENSER</b>	# of Fans	1	n/a	1	n/a
	HP each	1/2	n/a	1/2	n/a
	CFM <sup>6</sup>	2,000	n/a	3,000	n/a
<b>FULL LOAD AMPERAGE<sup>7</sup></b>	230 / 3 / 60	13	13	31	18
	460 / 3 / 60	7	6	16	9
<b>REFRIGERANT</b>	Type HCFC	410A	410A	410A	410A
<b>TANK CAPACITY</b>	Gallons	7-1/2	7-1/2	7-1/2	7-1/2
<b>DIMENSIONS (inches)</b>	Height	30	30	43	30
	Width	37	37	34	37
	Depth	24	24	40	24
<b>WEIGHTS (pounds)</b>	Shipping <sup>8</sup>	415	445	845	470

**Notes:**

1. Tons capacity at 12,000 BTU/ton @ 50°F LWT @ 115°F condensing temperature. Capacities may be +/- 5% as reserved by the compressor manufacturer.
2. Capacity multipliers are 50 degrees F - 1.00; 40 degrees F - .80; 30 degrees F - .60; 20 degrees F - .40. The minimum recommended operating temperature when no glycol is used is 48 degrees F.
3. H - hermetic scroll compressor used on this model.
4. Consult with factory for exact characteristics relating to pump curves.
5. City water requirements based on 60 degrees F water supply at 20 PSI with a clean condenser.
6. Tower water requirements based on 85degrees F water supply at 20 PSI with a clean condenser.
7. Static pressure in inches of water.
8. Full load amps are higher than run load amps and must be used for sizing disconnects and supply wiring. Service disconnect by owner. Actual running amps at design conditions.
9. 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



CF- 2A Shown



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