

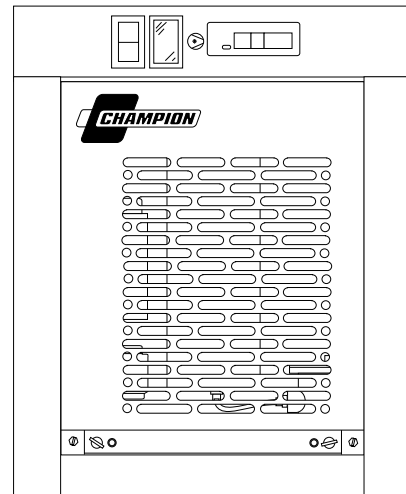


CRR SERIES REFRIGERATED DRYERS

MODELS: CRR25, CRR35, CRR50, CRR75, CRR100, CRR125, CRR150

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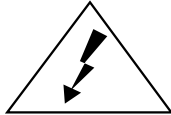


GENERAL SAFETY INFORMATION



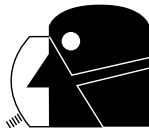
1. PRESSURIZED DEVICES:

This equipment is a pressure containing device. Do not exceed maximum operating pressure as shown on equipment serial number tag. Make sure equipment is depressurized before working on or disassembling it for service.



2. ELECTRICAL:

This equipment requires electricity to operate. Install equipment in compliance with all applicable electrical codes. Standard equipment is supplied with electrical enclosures not intended for installation in hazardous environments. Disconnect power supply to equipment when performing any electrical service work.



3. BREATHING AIR:

Air treated by this equipment may not be suitable for breathing without further purification. Refer to applicable standards and specifications for the requirements for breathing quality air.

RECEIVING, MOVING, AND UNPACKING

A. RECEIVING

This shipment has been thoroughly checked, packed and inspected before leaving our plant. It was received in good condition by the carrier and was so acknowledged.

Check for Visible Loss or Damage.

If this shipment shows evidence of loss or damage at time of delivery to you, insist that a notation of this loss or damage be made on the delivery receipt by the carrier's agent.

B. UNPACKING

Check for Concealed Loss or Damage.

When a shipment has been delivered to you in apparent good order, but concealed damage is found upon unpacking, notify the carrier immediately and insist on his agent inspecting the shipment. Concealed damage claims are not our responsibility as our terms are F.O.B. point of shipment.

C. MOVING

In moving or transporting dryer, do not tip dryer onto its side.

D. STORAGE

Important - Do not store dryer in temperatures above 130°F, 54.4°C.

IMPORTANT:
 READ PRIOR TO STARTING THIS EQUIPMENT

1.0 Installation

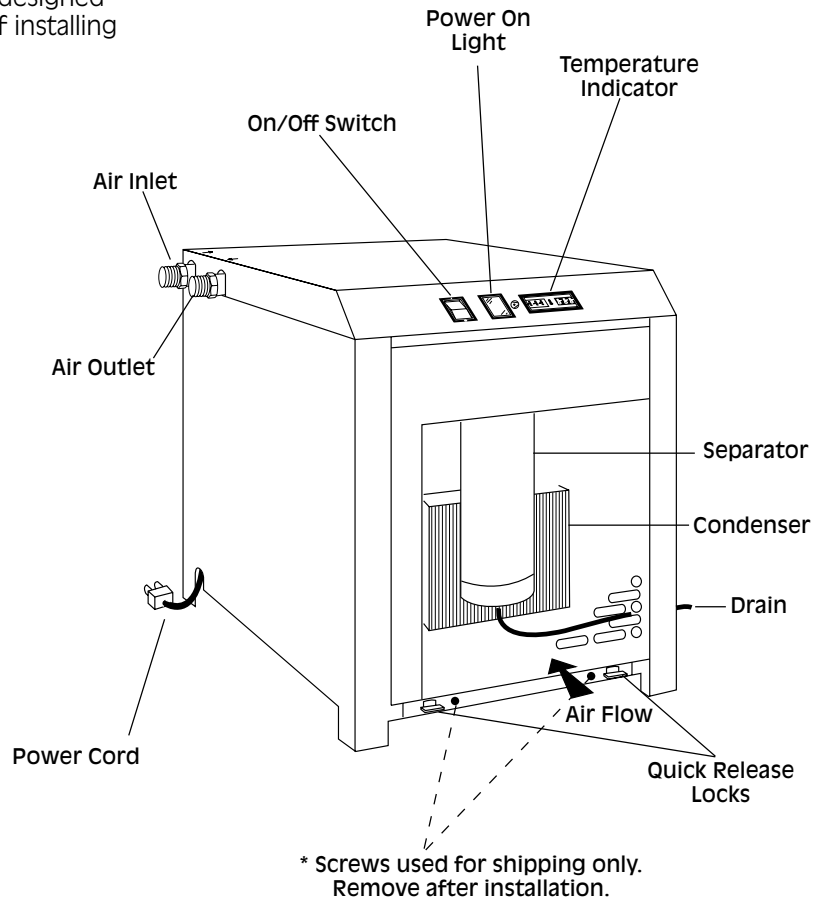
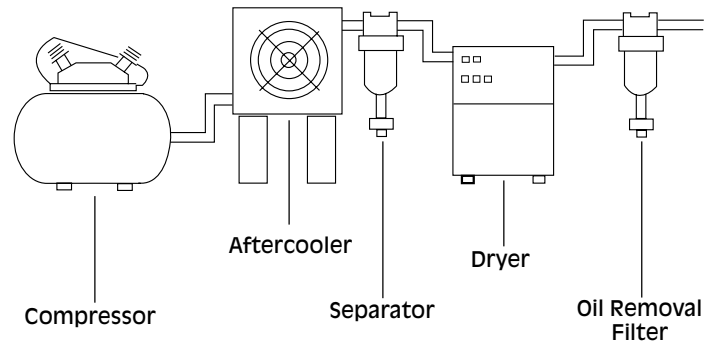
1.1 Location

- A. For typical placement in a compressed air system, see drawing.
- B. Air compressor intake—Locate air compressor so that contaminants potentially harmful to the dryer (e.g. ammonia) are not drawn into the air system.
- C. Clearances
 Free air flow - Allow at least 12 inches (305 mm) on the front and each side of the cabinet and 6 inches (152 mm) at the back of the cabinet for free air flow.
 Service - To facilitate maintenance leave 24 inches (610 mm) of clearance in front of dryer.
- D. Standard units are designed to operate in ambients from 45 to 110°F (7 to 43°C).
- E. Installations in altitudes above 4500 feet (1370 meters)
 – Dryer is adjusted to operate in altitudes up to 4500 feet (1370 meters). If dryer is installed in an altitude above this, and has not been preset at the factory for this altitude, contact manufacturer's Service Department.

NOTE: Outdoor installation—Standard units are designed for indoor installation. Contact manufacturer if installing outdoors.

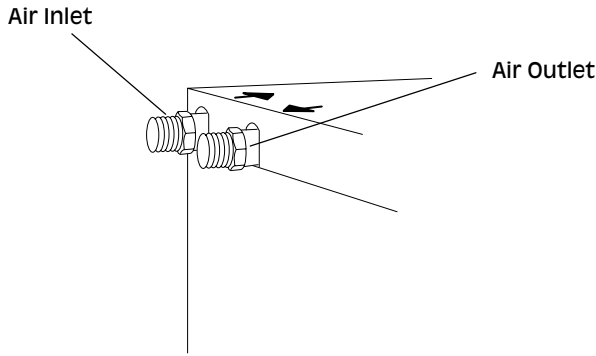
1.2 Mounting

Mount on floor or shelf free from vibration.



1.3 Piping connections

- A. Air Inlet—Connect compressed air line from air source to air inlet.



WARNING: Refer to Serial Number Tag for maximum working pressure. Do not exceed dryer's Maximum Working Pressure.

NOTE:
Install dryer in air system at highest pressure possible (e.g. before pressure reducing valves).

NOTE:
Install dryer at coolest compressed air temperature possible. Maximum inlet compressed air temperature: 120°F (49°C). If inlet air exceeds this temperature, precool the air with an aftercooler.

- B. Air Outlet—Connect air outlet to downstream air lines.
- C. By-pass piping—
If servicing the dryer without interrupting the air supply is desired, piping should include inlet and outlet valves and an air by-pass valve.
- D. Water cooled models—cooling water inlet and outlet
 1. Connect cooling water supply to cooling water inlet.
 2. Connect cooling water return line to cooling water outlet connection.

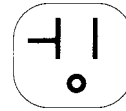
NOTE:
Strainer and water regulating valve are supplied on water cooled models.

1.4 Electrical connections

- A. Dryer is designed to operate on the voltage, phase, and frequency listed on the serial number tag.
- B. Dryer is supplied with a cord and plug. Install in a receptacle of proper voltage.

NOTE:
Refrigeration condensing unit is designed to run continuously and should NOT be wired to cycle on/off with the air compressor.

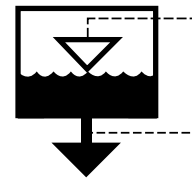
NOTE:
Models 150 (115V only)—install plug in receptacle rated for 20 amps.



1.5 Moisture separator

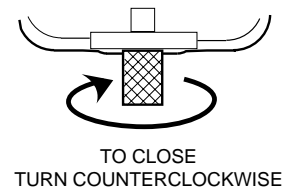
- A. Separator has an internal drain which automatically discharges collected condensate. It may be desirable to pipe the condensate from the Automatic Drain outlet to a suitable drain.

NOTE:
Discharge is at system pressure. Drain line should be anchored.



NOTE:
Condensate may contain oil. Comply with applicable laws concerning proper disposal.

- B. Separator has a knurled fitting with flexible drain tubing attached. Be sure knurled fitting is tightened by turning it counter-clockwise before operating dryer.



2.0 Operation

2.1 Minimum/Maximum operating conditions

- A. Maximum inlet air pressure: refer to dryer serial number tag
- B. Minimum inlet air pressure: 30 psig (2.1 kgf/cm²)
- C. Maximum inlet air temperature: 120°F (49°C)
- D. Maximum ambient temperature:
Air-cooled models: 110°F (43°C)
Water-cooled models: 130°F (54°C)
- E. Minimum ambient temperature: 45°F (7°C)

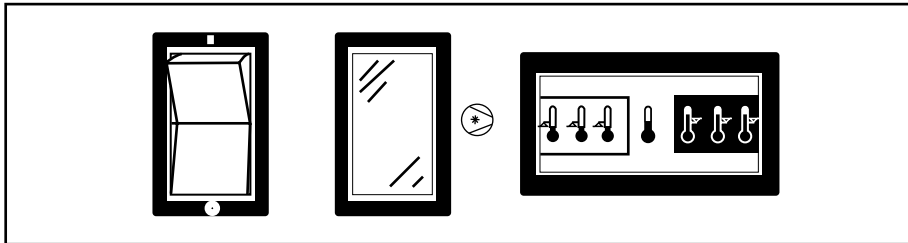
2.2 Start-up

Energize compressor by positioning the on/off switch in the on (I) position. Compressor on light will illuminate.

2.3 Operating check points

Check the following on a periodic basis:

- A. Green power on light is illuminated.
- B. Dewpoint indicator is in green area.
- C. Condensate is discharging from drain.



On/Off Switch

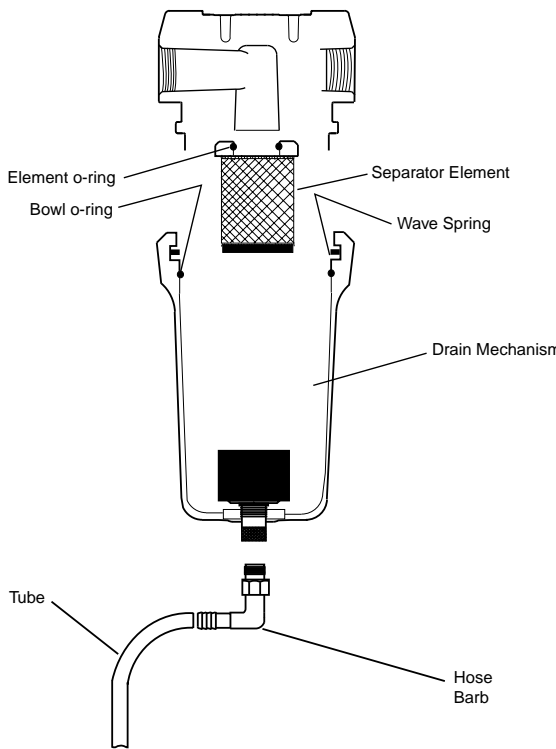
Power-On Light

Dewpoint Indicator (Green)

3.0 Maintenance

- 3.1 Condenser coil—
Clean off accumulated dust and dirt monthly.
- 3.2 Moisture separator—
Replace filter element when pressure drop across dryer is excessive or annually.
- 3.3 Check separator daily to be sure automatic drain is discharging.
- 3.4 Replace drain mechanism annually.

To facilitate service, maintenance kits are available.



Sizing

Determining dryer capacity at actual operating conditions

To determine the maximum inlet flow capacity of a dryer at various operating conditions, multiply the rated capacity from Table 1 by the multipliers shown in Table 2.

Example: How many scfm can an air-cooled model 125 handle when compressed air to be dried is at 80 psig and 90°F; ambient air temperature is 80°F; and a 35°F dew point temperature is desired?

Answer: 125 x 1.17 x 1.12 x 1.0 = 163.8 scfm.

TABLE 1

Rated capacity (scfm) and pressure drop @ 100 psig inlet pressure, 100°F inlet temperature, and 100°F ambient temperature

| MODEL | 25 | 35 | 50 | 75 | 100 | 125 | 150 |
|--|-------|-------|----|----|-----|-----|-----|
| Rated capacity of air-cooled models (scfm) | 25 | 35 | 50 | 75 | 100 | 125 | 150 |
| | 60 Hz | 50 Hz | | | | | |
| | 21 | 29 | 42 | 63 | 84 | 105 | 125 |

TABLE 2

Air capacity correction factors (Multipliers)

| INLET PRESSURES | | INLET COMPRESSED AIR CONDITIONS | | | | |
|-----------------|---------------------|---------------------------------|--------------|---------------|---------------|---------------|
| | | INLET TEMPERATURES | | | | |
| psig | kgf/cm ² | 80°F 27°C | 90°F 32°C | 100°F 38°C | 110°F 43°C | 120°F 49°C |
| 50 | 3.5 | 1.35 | 1.05 | 0.84 | 0.69 | 0.56 |
| 80 | 5.6 | 1.50 | 1.17 | 0.95 | 0.79 | 0.66 |
| 100 | 7.0 | 1.55 | 1.23 | 1.00 | 0.82 | 0.70 |
| 125 | 8.8 | 1.63 | 1.31 | 1.07 | 0.91 | 0.74 |
| 150 | 10.5 | 1.70 | 1.37 | 1.13 | 0.95 | 0.80 |
| 175 | 12.3 | 1.75 | 1.42 | 1.18 | 0.99 | 0.84 |
| 200 | 14.0 | 1.80 | 1.47 | 1.22 | 1.03 | 0.89 |

| COOLING MEDIUM* | | | OUTLET DEWPOINT | | |
|---------------------|----|------------|-----------------------|----|------------|
| AMBIENT TEMPERATURE | | MULTIPLIER | DEW POINT TEMPERATURE | | MULTIPLIER |
| °F | °C | | °F | °C | |
| 80 | 27 | 1.12 | 38 | 3 | 1.0 |
| 90 | 32 | 1.06 | 40 | 4 | 1.1 |
| 100 | 38 | 1.00 | 45 | 7 | 1.2 |
| 110 | 43 | 0.94 | 50 | 10 | 1.3 |

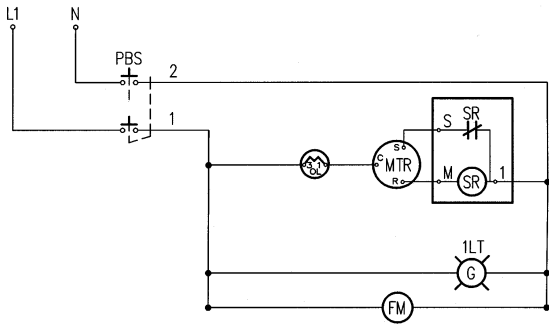
*Air-cooled models; water-cooled models use 1.15 multiplier if cooling water is below 35°C, 95°F.

Engineering Data

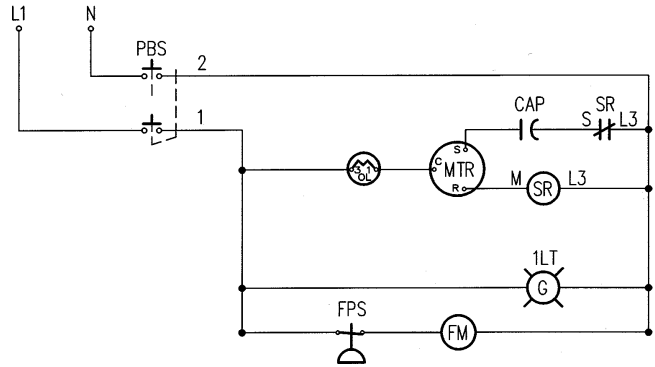
| Minimum – Maximum Operating Conditions | | | 25 | 35 | 50 | 75 | 100 / 125 | 150 |
|---|--|--|---|-------------|-------------|-------------|------------------|-------------|
| Min.-Max. Inlet Air Pressure (compressed air at inlet to dryer) | | | 30 psig (2.1 kgf/cm ²) - 250 psig (17.6 kgf/cm ²) | | | | | |
| Max. Inlet Air Temp. (compressed air at inlet to dryer) | | | 120°F (49°C) | | | | | |
| Min.-Max. Ambient Temperature | | | Air-cooled 45°F (7°C) - 110°F (43°C) Water-cooled 45°F (7°C) - 130°F (54°C) | | | | | |
| Refrigeration System Data | | | Hermetic - Resistance Start, Induction Run - Non-Cycling | | | | | |
| Compressor Type | | | Hermetic - Resistance Start, Induction Run - Non-Cycling | | | | | |
| Refrigeration Compressor Horsepower | | | 1/6 | 1/5 | 1/4 | 1/3 | 1/2 | 3/4 |
| BTU/HR – Refrigeration Only @ 35°F Evaporator & 100°F Ambient 60 Hz / 50 Hz | | | 1010 / 842 | 1380 / 1150 | 2160 / 1800 | 2780 / 2317 | 4430 / 3692 | 6020 / 5017 |
| Refrigerant Type | | | R-134a | R-134a | R-134a | R-134a | R-134a | R-134a |
| Refrigerant Charge | | | See dryer serial number tag | | | | | |
| Suction Pressure Setting (controlled by hot gas by-pass valve) | | | 31.5 psig | 31.5 psig | 31.5 psig | 31.5 psig | 31.5 psig | 31.5 psig |
| Condenser Fan Switch Setting (in-out) (psig) | | | NA | NA | NA | NA | NA | 110-70 |
| Air Flow Across Condenser (cfm) 60 Hz / 50 Hz | | | 105 / 98 | 235 / 196 | 275 / 229 | 220 / 183 | 350 / 292 | 530 / 440 |
| Condenser Cooling Water Requirements (gpm @ 85°F) (water-cooled models only) (40 psig min. pressure) | | | NA | NA | NA | NA | NA | 2.2 / 1.8 |
| Electrical | | | | | | | | |
| Nominal Voltages | | | 115/1/60 | | | | | |
| Max.-Min. Voltage | | | 127-104 | 127-104 | 127-104 | 127-104 | 127-104 | 127-104 |
| Rated Load Amps | | | 3.4 | 3.9 | 5.9 | 7.4 | 10.3 | 14.7 |
| Locked Rotor Amps | | | 18.0 | 22.0 | 28.0 | 35.0 | 48.0 | 66.3 |
| Minimum Circuit Ampacity | | | 4.0 | 4.7 | 7.3 | 9.1 | 12.4 | 18.3 |
| Branch Circuit Fuse Size (amps) | | | 15 | 15 | 15 | 15 | 20 | 25 |
| Watts @ 35°F Evaporator & 100°F Ambient | | | 280 | 290 | 465 | 600 | 815 | 1060 |
| Resistance (ohms) Single phase | | | --- | --- | --- | --- | --- | 3.15 |
| Start C/S | | | | | | | | |
| Run C/R | | | --- | --- | --- | --- | --- | 0.416 |
| Overload | | | Thermal & Current (Auto reset) | | | | | |
| Nominal Voltages | | | 208-230/1/60 | | | | | |
| Max.-Min. Voltage | | | 253-187 | 253-187 | 253-187 | 253-198 | 253-187 | 253-198 |
| Rated Load Amps | | | 1.8 | 2.1 | 3.0 | 4.1 | 5.1 | 8.3 |
| Locked Rotor Amps | | | 8.5 | 13.7 | 14.4 | 19.0 | 23.0 | 33.5 |
| Minimum Circuit Ampacity | | | 2.2 | 2.6 | 3.7 | 5.1 | 5.2 | 10.5 |
| Branch Circuit Fuse Size (amps) | | | 15 | 15 | 15 | 15 | 15 | 15 |
| Watts @ 35°F Evaporator & 100°F Ambient | | | 280 | 290 | 470 | 600 | 815 | 1060 |
| Resistance (ohms) Single phase | | | --- | --- | --- | --- | --- | 7.92 |
| Start C/S | | | | | | | | |
| Run C/R | | | --- | --- | --- | --- | --- | 1.55 |
| Overload | | | Thermal & Current (Auto reset) | | | | | |
| Nominal Voltages | | | 220-240/1/50 | | | | | |
| Max.-Min. Voltage | | | 264-198 | 264-198 | 264-198 | 264-198 | 264-198 | 264-198 |
| Rated Load Amps | | | 1.6 | 1.8 | 2.6 | 3.5 | 4.2 | 7.6 |
| Locked Rotor Amps | | | 8.7 | 10.7 | 14.5 | 15.2 | 21.0 | 53.0 |
| Minimum Circuit Ampacity | | | 2.0 | 2.2 | 3.2 | 4.4 | 5.2 | 9.9 |
| Branch Circuit Fuse Size (amps) | | | 15 | 15 | 15 | 15 | 15 | 15 |
| Watts @ 35°F Evaporator & 100°F Ambient | | | 223 | 257 | 395 | 507 | 669 | 930 |
| Resistance (ohms) Single phase | | | --- | --- | --- | --- | --- | 10.49 |
| Start C/S | | | | | | | | |
| Run C/R | | | --- | --- | --- | --- | --- | 1.8 |
| Overload | | | Thermal & Current (Auto reset) | | | | | |

Electrical Schematic

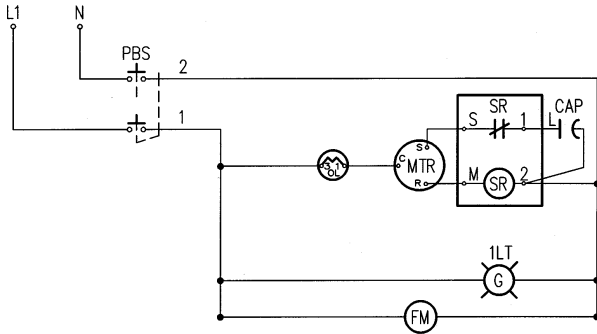
Models 25, 35 - 115V/60 Hz; 208-230V/60Hz; 220-240V/50 Hz
 Model 50 - 115V/60 Hz; 220-240V/50 Hz
 Model 75 - 115V/60 Hz



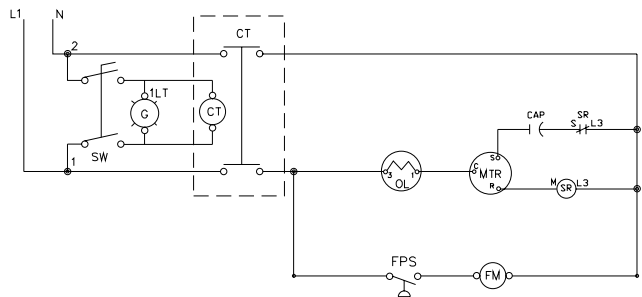
Model 150 - 230V/60 Hz



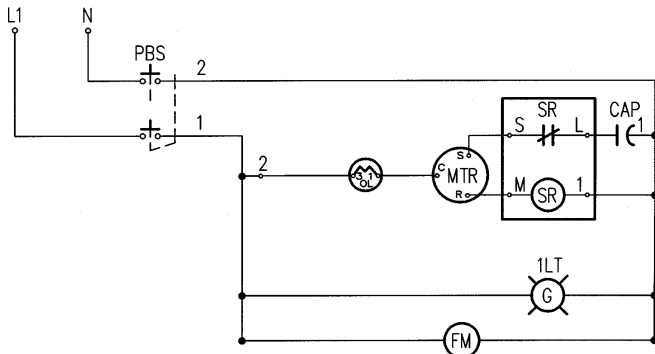
Model 50 - 208-230V/60Hz
 Model 75 - 208-230V/60 Hz; 220-240V/50 Hz



Model 150 - 115V/60 Hz



Models 100, 125 - All Voltages

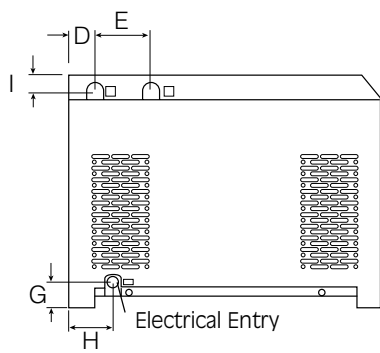


Legend

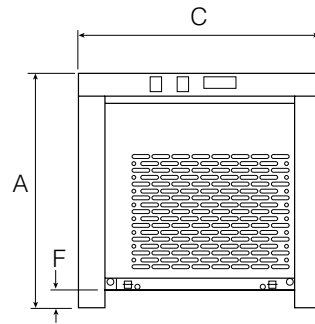
- PBS - Push button switch
- 1LT - Power-on light
- SR - Start Relay
- CAP - Start Capacitor
- MTR - Compressor
- FM - Fan Motor
- OL - Overload
- FPS - Fan Pressure Switch (Only on 150 scfm)
- CT - Contactor w/115v coil
- SW - On/Off Switch

Dimensions/Weights

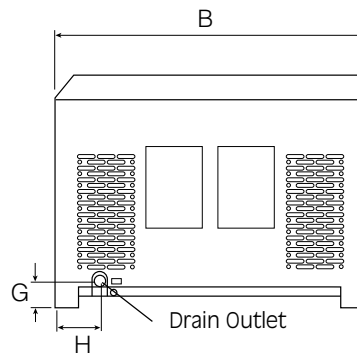
| Model | Dimensions inches | | | | | | |
|---------------------------------|----------------------|---------|----------|----------|----------|----------|----------|
| | 25 | 35 | 50 | 75 | 100 | 125 | 150 |
| A | 17 | 17 | 19-15/16 | 21-9/16 | 21-9/16 | 26-15/16 | 26-15/16 |
| B | 22 | 22 | 24-7/16 | 28-11/16 | 28-11/16 | 30-1/8 | 30-1/8 |
| C | 17 | 17 | 17 | 20 | 20 | 23-3/4 | 23-3/4 |
| D | 1-13/16 | 1-13/16 | 1-15/16 | 1-15/16 | 1-15/16 | 2-3/16 | 2-3/16 |
| E | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| F | 15/16 | 15/16 | 15/16 | 15/16 | 15/16 | 15/16 | 15/16 |
| G | 1-7/8 | 1-7/8 | 1-7/8 | 1-7/8 | 1-7/8 | 1-7/8 | 1-7/8 |
| H | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| I | 1-3/16 | 1-3/16 | 1-3/16 | 1-3/16 | 1-3/16 | 1-3/16 | 1-3/16 |
| Inlet/Outlet Connections | 3/4 | 3/4 | 1 | 1 | 1 | 1-1/2 | 1-1/2 |
| Weights lbs | 105 | 118 | 156 | 180 | 198 | 229 | 230 |



Left Side View



Front View



Right Side View

Troubleshooting Guide

| SYMPTOM | POSSIBLE CAUSE(S) | CORRECTIVE ACTION |
|---|---|---|
| A. Water downstream of dryer | <ol style="list-style-type: none"> 1. Residual free moisture remaining in downstream pipelines 2. Air by-pass system is open 3. Inlet and Outlet connections are reversed 4. Temperatures surrounding air lines downstream of dryer have dropped below dryers dew point rating 5. Excessive free moisture (bulk liquid) at dryer inlet 6. Condensate not being automatically drained Drain mechanism is clogged or inoperative. Drain line is restricted or frozen. Electric drains–timer not set to allow for sufficient condensate removal 7. Dryer overloaded resulting in elevated dew point. 8. Refrigeration system not functioning properly resulting in elevated dew point. | <p>Blow out system with dry air</p> <p>Check valve positions Check for correct connection</p> <p>Insulate or heat trace air lines exposed to low ambients or dry air to lower dew point</p> <p>Install separator ahead of dryer</p> <p>Replace drain mechanism if inoperative</p> <p>Open drain line Electric drains–reset time so that all liquid is discharged</p> <p>Check inlet air temperature and pressure, flow rate (compressor capacity) and ambient air or water temperature. See D below</p> |
| B. High pressure drop across dryer | <ol style="list-style-type: none"> 1. Excessive air flow 2. Freezing of moisture in evaporator because of refrigeration system improperly functioning. 3. Separator filter element clogged. | <p>Check flow rate See D below</p> <p>Replace filter element.</p> |
| C. Dew point indicator in red area | <ol style="list-style-type: none"> 1. Dryer overloaded resulting in high air outlet temperature. 2. Refrigeration system not functioning properly resulting in high air outlet temperature. | <p>See A 7</p> <p>See D below</p> |
| D. Refrigeration system not functioning properly | <ol style="list-style-type: none"> 1. Compressor on light off <ol style="list-style-type: none"> a. Power failure b. Line disconnect switch open c. Blown fuses, open breaker d. Faulty wiring, loose terminals 2. Refrigerant compressor cycles on and off <ol style="list-style-type: none"> a. High or low ambient conditions b. Air-cooled models–Dirty, clogged condenser fins, obstructed air flow across condenser, or non functioning fan motor or fan control switch. c. Water-cooled models–Cooling water temperature too high, or flow too low, faulty water regulating valve, clogged water strainer. | <p>Check power to unit Close disconnect switch Check for continuity Have electrician check electrical connections</p> <p>Check min./max. temperature ranges Clean condenser and check for free air flow, if problem persists contact qualified refrigeration repairman or manufacturer’s service department.</p> <p>Clean strainer, check water flow and temperature, if problem persists contact qualified refrigeration repairman or manufacturer’s service department.</p> |

Parts List

| PARTS DESCRIPTION | 25 | | | 35 | | | 50 | | |
|------------------------------|----------------------|--------------|--------------|----------------------|--------------|--------------|----------------------|--------------|--------------|
| | 115/1/60 100/1/50 | 208-230/1/60 | 220-240/1/50 | 115/1/60 100/1/50 | 208-230/1/60 | 220-240/1/50 | 115/1/60 100/1/50 | 208-230/1/60 | 220-240/1/50 |
| Condensing Unit (air-cooled) | C41301207 | C41301208 | C41301209 | C41301218 | C41301219 | C413012110 | C413012210 | C413012211 | C413012215 |
| Compressor Only | C413010834 | C413010861 | C413010835 | C413010838 | C413010839 | C413010840 | C413010841 | C413010842 | C413010843 |
| Overload | C59255702 | C92557824 | C59255703 | C59255781 | C59255782 | C59255783 | C59255784 | C59255785 | C59255786 |
| Start Relay | C59456555 | C594568324 | C59456556 | C59456831 | C59456832 | C59456833 | C59456834 | C59456835 | C59456836 |
| Start Capacitor | — | — | — | — | — | — | — | C591010323 | — |
| Fan Motor | C61052391 | C61052374 | C61052374 | C610523827 | C610523828 | C610523828 | C610523829 | C610523830 | C610523830 |
| Fan Blade | C41402282 | C41402282 | C41402282 | C414022717 | C414022717 | C414022717 | C414022718 | C414022718 | C414022718 |
| Condenser (air-cooled) | C413011026 | C413011026 | C413011026 | C413011118 | C413011118 | C413011118 | C413011119 | C413011119 | C413011119 |
| Dryer | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 |
| Hot gas by-pass valve | CC98021 | C98021 | C98021 | C98021 | C98021 | C98021 | C98021 | C98021 | C98021 |
| By-pass valve strainer | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 |
| Light assy., green | C635045711 | C63504574 | C63504574 | C6635045711 | C63504574 | C63504574 | C6635045711 | C63504574 | C63504574 |
| Dew Point Indicator | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 |
| On/off switch | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 |
| Maintenance Kit | CRRMK2 | CRRMK2 | CRRMK2 | CRRMK2 | CRRMK2 | CRRMK2 | CRRMK3 | CRRMK3 | CRRMK3 |
| Element | C35BE | C35BE | C35BE | C35BE | C35BE | C35BE | C60BE | C60BE | C60BE |
| Drain | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 |

| PARTS DESCRIPTION | 75 | | | 100 & 125 | | | 150 | | |
|------------------------------|----------------------|--------------|--------------|----------------------|--------------|--------------|----------------------|--------------|--------------|
| | 115/1/60 100/1/50 | 208-230/1/60 | 220-240/1/50 | 115/1/60 100/1/50 | 208-230/1/60 | 220-240/1/50 | 115/1/60 100/1/50 | 208-230/1/60 | 220-240/1/50 |
| Condensing Unit (air-cooled) | C413012212 | C413012213 | C413012214 | C413012312 | C413012313 | C413012314 | C413013431 | C413013432 | C413013433 |
| Compressor Only | C413010844 | C413010845 | C413010846 | C413010847 | C413010848 | C413010849 | C413010850 | C413010851 | C413010852 |
| Overload | C59255787 | C59255788 | C59255789 | C592557810 | C592557811 | C592557812 | C592557813 | C592557814 | C592557815 |
| Start Relay | C59456837 | C59456838 | C59456839 | C594568310 | C594568311 | C594568312 | C594568313 | C594568314 | C594568315 |
| Start Capacitor | — | C591010326 | C5910.103.27 | C591010328 | C591010329 | C591010329 | C591010337 | C591010338 | C591010339 |
| Fan Motor | C610523831 | C610523832 | C610523832 | C610523833 | C610523834 | C610523834 | C610523835 | C610523836 | C610523836 |
| Fan Blade | C414022719 | C414022725 | C414022725 | C414022720 | C414022720 | C414022720 | C414022721 | C414022721 | C414022721 |
| Condenser (air-cooled) | C413011120 | C413011120 | C413011120 | C413011121 | C413011121 | C413011121 | C413011122 | C413011122 | C413011122 |
| Dryer | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 | C413016514 |
| Fan Pressure Switch | — | — | — | — | — | — | C413013813 | C413013813 | C413013813 |
| Hot gas by-pass valve | C98021 | C98021 | C98021 | C98021 | C98021 | C98021 | C98021 | C98021 | C98021 |
| By-pass valve strainer | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 | C41307018 |
| Light assy., green | C6635045711 | C63504574 | C63504574 | C6635045711 | C63504574 | C63504574 | C6635045711 | C63504574 | C63504574 |
| Dew Point Indicator | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 | C66852831 |
| On/off switch | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 | C61107066 |
| Condenser (water-cooled) | — | — | — | — | — | — | C413013434 | C413013435 | C413013436 |
| Water Control Valve | — | — | — | — | — | — | C413014522 | C413014522 | C413014522 |
| Water Strainer | — | — | — | — | — | — | C47317351 | C47317351 | C47317351 |
| Screen, water strainer | — | — | — | — | — | — | C47317355 | C47317355 | C47317355 |
| Contactora | — | — | — | — | — | — | C591013411 | — | — |
| Maintenance Kit | CRRMK4 | CRRMK4 | CRRMK4 | * | * | * | CRRMK5 | CRRMK5 | CRRMK5 |
| Element | C100BE | C100BE | C100BE | ** | ** | ** | C170BE | C170BE | C170BE |
| Drain | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 | C446015110 |

* Model 100 - CRRMK4
Model 125 - CRRMK5

** Model 100 - C100BE
Model 125 - C170BE

WARRANTY

The manufacturer warrants the product manufactured by it, when properly installed, operated, applied, and maintained in accordance with procedures and recommendations outlined in manufacturer's instruction manuals, to be free from defects in material or workmanship for a period as specified below, provided such defect is discovered and brought to the manufacturer's attention within the aforesaid warranty period.

The manufacturer will repair or replace any product or part determined to be defective by the manufacturer within the warranty period, provided such defect occurred in normal service and not as a result of misuse, abuse, neglect or accident. Normal maintenance items requiring routine replacement are not warranted. The warranty covers parts and labor for the warranty period unless otherwise specified. Repair or replacement shall be made at the factory or the installation site, at the sole option of the manufacturer. Any service performed on the product by anyone other than the manufacturer must first be authorized by the manufacturer.

Unauthorized service voids the warranty and any resulting charge or subsequent claim will not be paid. Products repaired or replaced under warranty shall be warranted for the unexpired portion of the warranty applying to the original product.

The foregoing is the exclusive remedy of any buyer of the manufacturer's product. The maximum damages liability of the manufacturer is the original purchase price of the product or part.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL, OR STATUTORY, AND IS EXPRESSLY IN LIEU OF THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. THE MANUFACTURER SHALL NOT BE LIABLE FOR LOSS OR DAMAGE BY REASON OF STRICT LIABILITY IN TORT OR ITS NEGLIGENCE IN WHATEVER MANNER INCLUDING DESIGN, MANUFACTURE OR INSPECTION OF THE EQUIPMENT OR ITS FAILURE TO DISCOVER, REPORT, REPAIR, OR MODIFY LATENT DEFECTS INHERENT THEREIN.

THE MANUFACTURER, HIS REPRESENTATIVE OR DISTRIBUTOR SHALL NOT BE LIABLE FOR LOSS OF USE OF THE PRODUCT OR OTHER INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES INCURRED BY THE BUYER, WHETHER ARISING FROM BREACH OF WARRANTY, NEGLIGENCE OR STRICT LIABILITY IN TORT.

The manufacturer does not warrant any product, part, material, component, or accessory manufactured by others and sold or supplied in connection with the sale of manufacturer's products.

Warranty Period

Parts and labor for two (2) years from the date of shipment from the factory; heat exchangers are covered (parts only) for an additional three (3) years (total of five (5)). On units that manufacturer requests be returned to the factory, a one time removal/reinstallation labor allowance as noted in the Service Warranty Policies and Procedures Handbook will apply. Freight to the factory from the installation site and to the installation site from the factory will be paid by the manufacturer; means of transportation to be specified by manufacturer.

AUTHORIZATION FROM THE SERVICE DEPARTMENT IS NECESSARY BEFORE MATERIAL IS RETURNED TO THE FACTORY OR IN-WARRANTY REPAIRS ARE MADE.

SERVICE DEPARTMENT: (724) 746-1100



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Due to Champion's continuing product development program, specification and materials are subject to change without notice.