

***XL SERIES PORTABLE AIR CONDITIONERS***

***Operation & Maintenance  
Manual***

***Standard Models  
1 to 10 Ton***





# **XL SERIES PORTABLE AIR COOLED AIR CONDITIONERS**

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MODELS	XL11AA	XL14AB	XL18AB	XL22AB
<b>Cooling Capacity BTU</b>	11,800	13,500	18,600	22,000
<b>*Optional Heating Capacity</b>	NA	NA	NA	NA
<b>Air Flow (CFM) Evap/Cond</b>	300/800	500/800	600/1200	600/1200
<b>Operating Conditions</b>	55°F - 105°F	55°F - 105°F	55°F - 105°F	55°F - 105°F
<b>Voltage•Phase</b>	115V • 1Ø	115V • 1Ø	115V • 1Ø	115V • 1Ø
<b>Supply Wire Size</b>	#14	#12	#12	#12
<b>Power (kw)</b>	1.2	1.5	2.1	2.2
<b>Current (amps)</b>	12.8	15.9	15.3	15.9
<b>Circuit Breaker Size (amps)</b>	15	20	20	20
<b>NEMA Plug Configuration</b>	5-15	5-20	5-20	5-20
<b>Dimensions HxDxW (in)</b>	46x30x24	46x30x24	50x35x24.5	46x30x34
<b>Weight (lbs)</b>	265/320	265/320	296/351	357/421
<b>Humidity Removed at 60% RH (gal/hr)</b>	.8	.85	1.2	1.5
<b>Drain Tank Capacity (gal)</b>	5	5	5	5
<b>Intake &amp; Exhaust Duct Flanges</b>	Included	Included	Included	Included
<b>Sound Level (db) with/without duct</b>	60/61	60/61	63/64	63/64
<b>Quantity of Nozzles</b>	2	2	2	2
<b>Fan Type • Evap/Cond</b>	Direct Drive	Direct Drive	Direct Drive	Direct Drive
<b>Refrigerant Charge (R22) oz</b>	38	38	58	54



MODELS	XL24BA	XL36BA	XL48BA	XL60BA
<b>Cooling Capacity BTU</b>	27,500	36,000	55,000	72,000
<b>*Optional Heating Capacity</b>	5kw (EH05) 17,000 btu	10kw (EH10) 34,000 btu	10kw (EH10) 34,000 btu	15kw (EH15) 51,000 btu
<b>Air Flow (CFM) Evap/Cond</b>	600/1200	900/1600	1500/2400	2000/3500
<b>Operating Conditions</b>	55°F - 105°F	55°F - 105°F	55°F - 105°F	55°F - 105°F
<b>Voltage•Phase</b>	208/230V • 1Ø	208/230V • 1Ø	208/230V • 1Ø	208/230V • 1Ø
<b>Supply Wire Size</b>	#10	#10	#8	#6
<b>Power (kw)</b>	2.4	3.4	5.3	7.3
<b>Current (amps)</b>	18.3	26.4	35.7	59.2/57.3
<b>Circuit Breaker Size (amps)</b>	30	40	50	80
<b>NEMA Plug Configuration</b>	6-20	L6-30P	Hard Wired	Hard Wired
<b>Dimensions HxDxW (in)</b>	46x30x34	46x30x38	56x32x38	64x32x46
<b>Weight (lbs)</b>	357/421	412/462	490/540	624/729
<b>Humidity Removed at 60% RH (gal/hr)</b>	1.6	2.5	4.0	4.8
<b>Drain Tank Capacity (gal)</b>	5	5	5	5
<b>Intake &amp; Exhaust Duct Flanges</b>	Included	Included	Included	Included
<b>Sound Level (db) with/without duct</b>	63/64	64/68	65/68	66/69 6
<b>Quantity of Nozzles</b>	2	3	3	Belt Drive
<b>Fan Type • Evap/Cond</b>	Direct Drive	Direct Drive	Direct Drive	
<b>Refrigerant Charge (R22) oz</b>	54	64	120	144



MODELS	XL36CA	XL48CA	XL60CA
<b>Cooling Capacity BTU</b>	36,000	55,000	72,000
<b>*Optional Heating Capacity</b>	10kw (EH10) 34,000 btu	10kw (EH10) 34,000 btu	15kw (EH15) 51,000 btu
<b>Air Flow (CFM) Evap/Cond</b>	900/1600	1500/2400	2000/3500
<b>Operating Conditions</b>	55°F - 105°F	55°F - 105°F	55°F - 105°F
<b>Voltage•Phase</b>	208/230V • 3ø	208/230V • 3ø	208/230V • 3ø
<b>Supply Wire Size</b>	#10	#10	#8
<b>Power (kw)</b>	3.4	5.3	7.3
<b>Current (amps)</b>	20.1	29.1	35.5/34.5
<b>Circuit Breaker Size (amps)</b>	30	45	50
<b>NEMA Plug Configuration</b>	Hard Wired	Hard Wired	Hard Wired
<b>Dimensions HxDxW (in)</b>	46x30x38	56x32x38	64x32x46
<b>Weight (lbs)</b>	412/462	490/540	624/729
<b>Humidity Removed at 60% RH (gal/hr)</b>	2.5	4.0	4.8
<b>Drain Tank Capacity (gal)</b>	5	5	5
<b>Intake &amp; Exhaust Duct Flanges</b>	Included	Included	Included
<b>Sound Level (db) with/without duct</b>	64/68	65/68	66/69
<b>Quantity of Nozzles</b>	3	3	6
<b>Fan Type • Evap/Cond</b>	Direct Drive	Direct Drive	Belt Drive
<b>Refrigerant Charge (R22) oz</b>	64	120	144



MODELS	XL36DA	XL48DA	XL60DA	XL60MV
<b>Cooling Capacity BTU</b>	36,000	55,000	72,000	72,000
<b>*Optional Heating Capacity</b>	10kw (EH10) 34,000 btu	10kw (EH10) 34,000 btu	15kw (EH15) 51,000 btu	15kw (EH15) 51,000 btu
<b>Air Flow (CFM) Evap/Cond</b>	900/1600	1500/2400	2000/3500	2000/3500
<b>Operating Conditions</b>	55°F - 105°F	55°F - 105°F	55°F - 105°F	55°F - 105°F
<b>Voltage•Phase</b>	460V • 3ø	460V • 3ø	460V • 3ø	208/230/460V • 3ø
<b>Supply Wire Size</b>	#12	#12	#12	#8/#12
<b>Power (kw)</b>	3.4	5.3	7.3	7.3
<b>Current (amps)</b>	10	13.9	18	35.5/34.5/18.0
<b>Circuit Breaker Size (amps)</b>	15	20	25	50/25
<b>NEMA Plug Configuration</b>	Hard Wired	Hard Wired	Hard Wired	Hard Wired
<b>Dimensions HxDxW (in)</b>	46x30x38	56x32x38	64x32x46	64x32x46
<b>Weight (lbs)</b>	412/462	490/540	624/729	624/729
<b>Humidity Removed at 60% RH (gal/hr)</b>	2.5	4.0	4.8	4.8
<b>Drain Tank Capacity (gal)</b>	5	5	5	5
<b>Intake &amp; Exhaust Duct Flanges</b>	Included	Included	Included	Included
<b>Sound Level (db) with/without duct</b>	64/68	65/68	66/69	66/69
<b>Quantity of Nozzles</b>	3	3	6	6
<b>Fan Type • Evap/Cond</b>	Direct Drive	Direct Drive	Belt Drive	Belt Drive
<b>Refrigerant Charge (R22) oz</b>	64	120	144	144





MODELS	XL120CA	XL120DA
<b>Cooling Capacity BTU</b>	160,000	160,000
<b>*Optional Heating Capacity</b>	30kw (EH30) 102,000 btu	30kw (EH30) 102,000 btu
<b>Air Flow (CFM) Evap/Cond</b>	4000/7000	4000/7000
<b>Operating Conditions</b>	55°F - 105°F	55°F - 105°F
<b>Voltage•Phase</b>	208/230V • 3ø	460V • 3ø
<b>Supply Wire Size</b>	#6	#6
<b>Power (kw)</b>	16.7	16.7
<b>Current (amps)</b>	69.3/66.1	34.4
<b>Circuit Breaker Size (amps)</b>	80	40
<b>NEMA Plug Configuration</b>	Hard Wired	Hard Wired
<b>Dimensions HxDxW (in)</b>	66x34x78	66x34x78
<b>Weight (lbs)</b>	1015/1200	1015/1200
<b>Humidity Removed at 60% RH (gal/hr)</b>	9.6	9.6
<b>Drain Tank Capacity (gal)</b>	N/A	N/A
<b>Intake &amp; Exhaust Duct Flanges</b>	Configurable	Configurable
<b>Sound Level (db) with/without duct</b>	68/72	68/72
<b>Quantity of Nozzles</b>	Configurable	Configurable
<b>Fan Type • Evap/Cond</b>	Belt Drive	Belt Drive
<b>Refrigerant Charge (R22) oz</b>	290	290

# INTRODUCTION

# 1

## ***1.1 General***

The Air Rover XL series portable air cooled air conditioner designed to provide cold refrigerated air. Units are designed to deliver from 12,000 to 160,000 btu/hr of air at an ambient temperature of 120° F. Evaporator air can be ducted into an environment or free blown using directional air flow nozzles. Condenser air is discharged outside of the cooled area from the back of the condenser section. The standard power requirements for these units are shown on the preceding specification pages.

## ***1.2 Standard Equipment:***

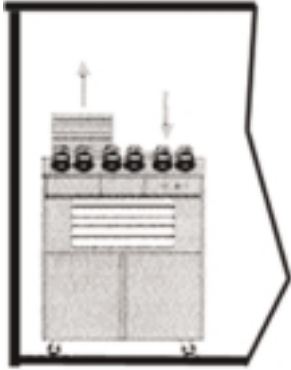
- Johnson Control Thermostats
- On/Off Switch; Cool/Vent Switch
- Caster Wheels - 2 with & 2 w/o brakes (not standard on 10 ton units)
- Chrome Grab Handles (not standard on 10 ton units)
- Evaporator discharge & condenser air connections for 10 thru 20 inch duct
- Evaporator and condenser air filters
- Condensate drain with standard 3/8" fitting (not available w/optional humidifier)

## ***1.3 Optional Equipment:***

- 12" dual wheel assemblies
- 5 to 30 kw Heat
- Heat/Cool Mode Switch
- Low & High Ambient Controls
- Visit us at [www.airrover.com](http://www.airrover.com) (or our commercial catalog) for a complete listing of all optional equipment

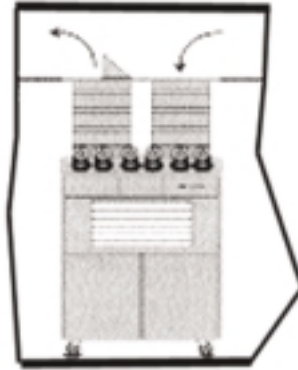
**1.4 Configurations**

Air Rover Air Conditioners can be installed in a variety of applications; a few of the more popular options are illustrated below. For special applications, contact the factory or your nearest air conditioning contractor for assistance.



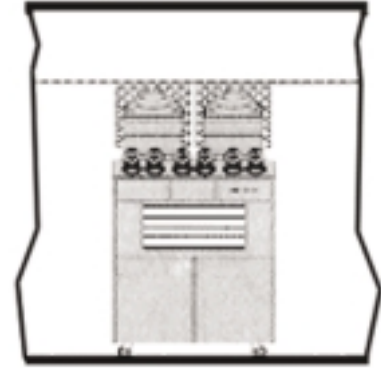
**Free-standing:**

In factories or warehouse hot spots the Free-standing Air Rover allows cooled, filtered air to spot cool a zone or specific hot spot. This is an ideal way to zone a factory for multiple zone cooling. Free-standing units are ductless and are available with ridged or flexible condenser air ducts for customized industrial applications. The Free-standing Air Rover complements the original concept of spot cooling.



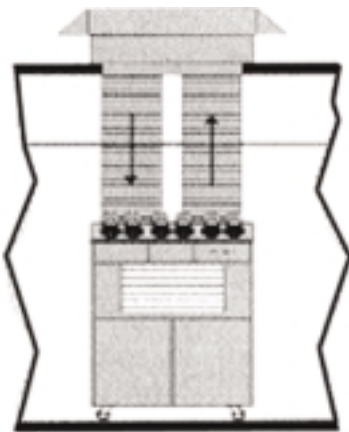
**Ceilpak:**

In interior building applications the Ceilpak is a common accessory system. The air space above a drop ceiling must be a common return plenum for the Ceilpak to be utilized. The Ceilpak comes with all items required for a complete drop ceiling/common return Air Rover Application. The Ceilpak is a spot cooling application.



**Wallpak/Winpak:**

The Wallpak and Winpak accessory systems can be used with exterior and interior window or wall openings. Field retrofitting or customizing may be necessary for some applications. In cooler climates where computer room or telecommunications areas are being conditioned, the damper head pressure controller unit option is recommended for low ambient applications. The Wallpak and Winpak are air conditioning applications.



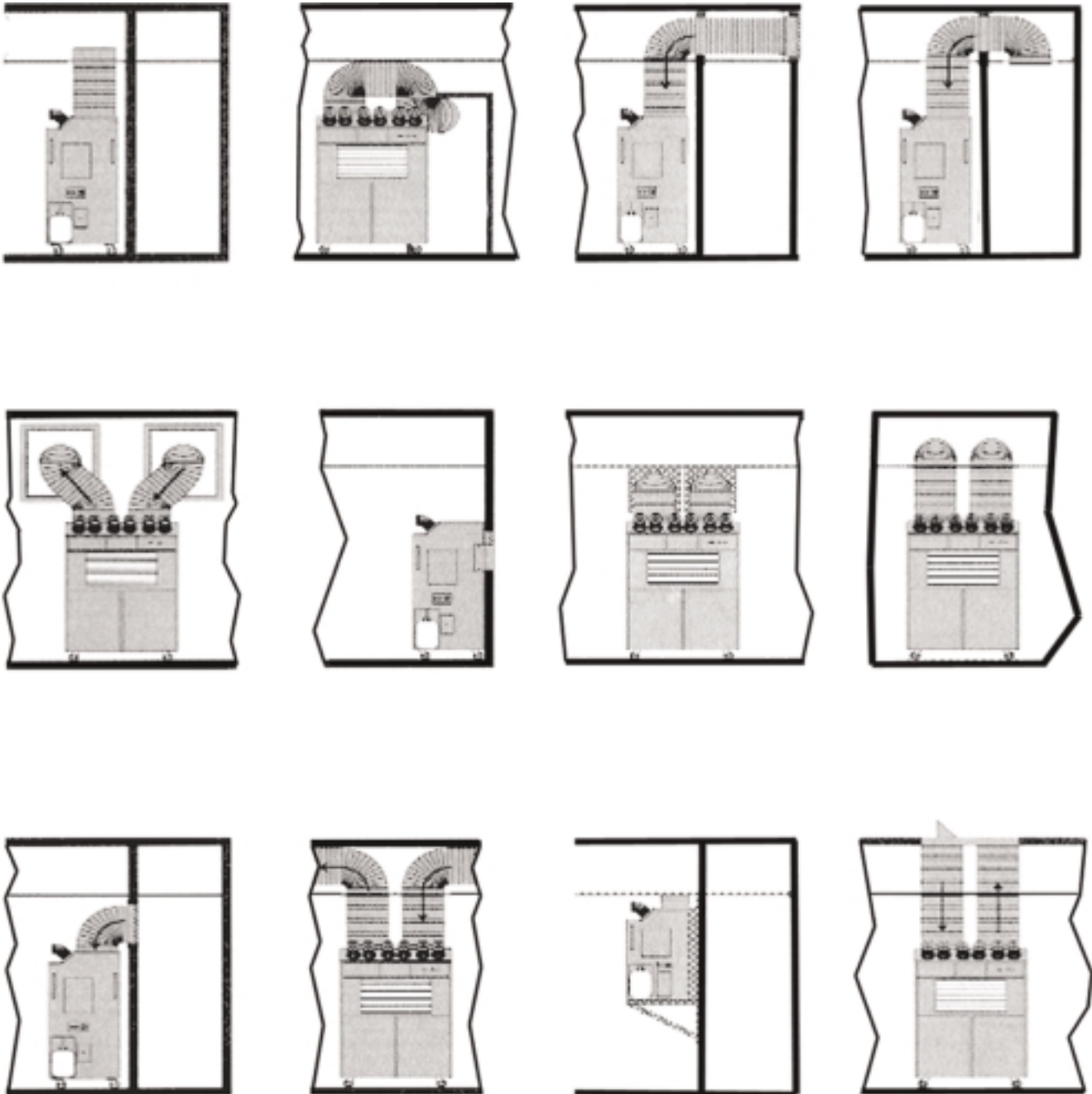
**Roofpak:**

The Roofpak accessory system can accommodate skylight or other roof openings. Some field retrofitting may be necessary for Roofpak installations. The Roofpak is an air conditioning application.

Other special application examples are shown on the following page. For these and other special applications we suggest you contract your nearest air conditioning contractor or the hvac department of your building or company for assistance.

1.4 Configurations (Continued)

Air Rover Air Conditioners can be installed in a variety of applications, a few of the more popular options are illustrated below. For special applications, contact the factory or your nearest air conditioning contractor for assistance.



# INSTALLATION

# 2

## *2.1 Sizing the Air Conditioner*

It is strongly recommended that the air conditioner be sized according to ASHRAE standards by using the "Cooling and Heating Load Calculation Manual" publication number GRP158, or an equivalent method such as the Air Conditioning Contractors of America publication "Load Calculation for Residential Winter and Summer Air Conditioning, Manual J."

## *2.2 Placement and Mounting of the Air Conditioner*

Normally the portable air conditioner is installed in a protected space inside the conditioned area. Condenser heat is ducted either to the outside, or to building air conditioning duct, depending on configuration.

### *2.3.1 Electrical*

All installations should be completed in accordance with the local electrical code. Units should be connected to supply boxes with copper wire only. Aluminum wire is to be avoided!

The power supply should be 60 hertz, with required amperage as called for on the appropriate wiring diagram (see section 6). The wiring diagram completely illustrates the internal wiring and power supply. Supply voltage must be within +10 or -5% of rating.

Run power supply to wall box using power cord supplied with unit or, in the case of cord connected units, with field supplied wiring as called for on the unit data plate or the appropriate wiring diagram in section 6 (wiring diagrams are also located on each unit).

Wiring: All wiring to unit must comply with N.E.C. and local codes.

### *2.3.2 Supply Voltage Check*

The voltage at the power supply side of the contactor should be checked. It should be within +10% or -5% of the voltage indicated on the unit data plate.

### 2.4.1 Condensate

Units are shipped with a 5 gallon condensate collection bottle. The bottle has a float switch which will shut the air conditioner off when the bottle is full. When the bottle is full, disconnect the float switch at the plug and empty it at a suitable drain. Reinstall the bottle making certain that the float switch has been reconnected and the drain tubing has been re-installed into the bottle. Units ordered with an optional condensate pump are shipped with 25 ft. of plastic tubing connected to the condensate pump. The tubing should discharge into a suitable sink or drain. Make certain that the tubing is tied down so that it does not "whip" when the pump discharges condensate water. Tubing discharge should not be higher than the unit. A P-trap is not required. (Note: 10 ton or larger units require condensate to be piped to a drain).

### 2.4.2 MODEL CP115-19 Pump Installation

Check to be certain that you have received the following items in your condensate pump upgrade kit. Pumps must be placed external to 10 ton or larger units.

- (1) Condensate pump
- (1) piece of  $\frac{3}{4}$ " I.D./ 1" O.D. vinyl tubing, 30" in length
- (1) piece of  $\frac{3}{8}$ " I.D./  $\frac{5}{8}$ " O.D. vinyl tubing, 25' in length
- (4) size 10 ( $1\frac{1}{8}$ ") hose clamps

Begin installation by locating the condensate bottle compartment on the right hand side of the unit. If necessary, remove the condensate bottle cover (see figure 1). Proceed as follows:

1. Remove bottle from compartment, tacking care not to damage the sensor wires connected to the top of the bottle (see figure 2 & 3).
2. Disconnect the white bottle full/pump overflow sensor wire and remove the bottle (see figure 3).
3. Place the condensate pump into the bottle compartment and connect the white connector on the pump (it has two red wires with yellow strips) to the connector from the unit (see figure 4 & 5).
4. Using one of the supplied hose clamps, attach the short length of 1" O.D. tubing to the copper elbow located at the top rear of the compartment. Place the other end of this hose into the large hole in the top of the condensate pump.

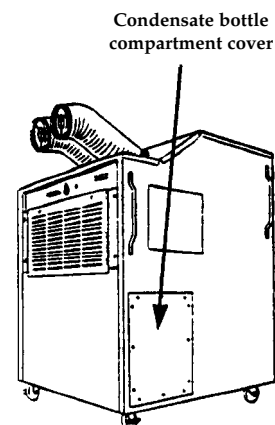


Figure 1 Location of condensate compartment

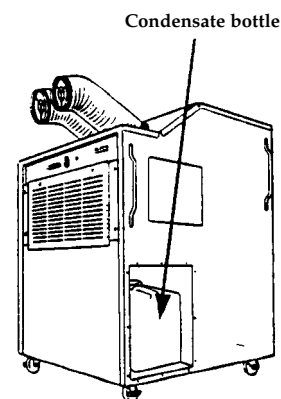


Figure 2 Unit with condensate compartment cover removed

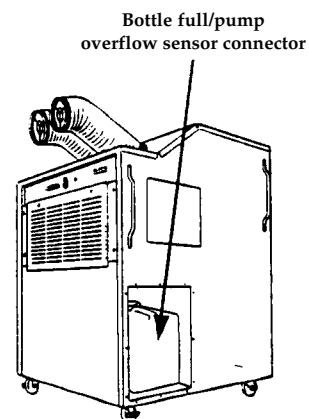


Figure 3 Bottle removed, preparing to install the pump

5. Using one of the supplied hose clamps, attach one end of the long piece of  $\frac{5}{8}$ " O.D. hose to the outlet connector on the pump. Run the other end of the hose to an appropriate drain. (This could be a floor drain, sink or other destination).

---

**CAUTION:** Take care not to create an external P-Trap by allowing the hose to sag along its length. Avoid creating kinks in the hose. Be certain the drain end of the hose is not more than 18 feet higher than the condensate pump or the pump will not operate properly.

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(If you have an XL11 or XL14 proceed to step 6. If you have an XL24, XL36 or XL60, omit step 6 and proceed to step 7).

6. Connect the power cord for the pump to an appropriately grounded 115 volt AC outlet. The pump will automatically begin operating when water is present in the pumps reservoir and will shut off when the reservoir is empty.
7. (For the XL24, XL36 and XL60 models). This step should be completed by a certified electrician only. All XL models other than the XL11 and XL14 are prewired internally for a condensation pump. The pump does not have a plug and is wired directly to a terminal block provided behind the thermostat panel (See figure 6). To attach wires, remove the panels labeled A & B and feed the wires up through the hole (1) in the top plate of the water bottle housing. Then feed wires through the hole (2) in the back plate of the control box in the front of the unit. The terminal block should be located just above the hole, 4th from the right.

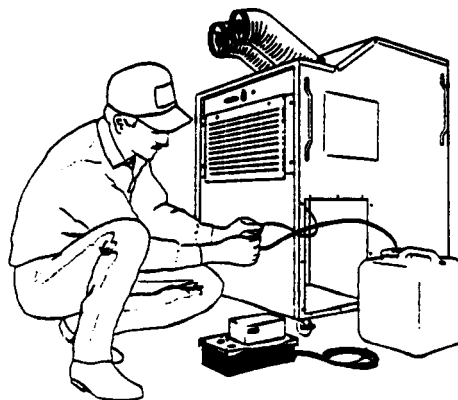


Figure 4 Disconnecting the bottle and installing the pump

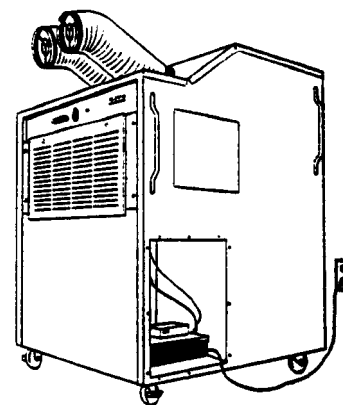


Figure 5 After installation on XL11 & XL14

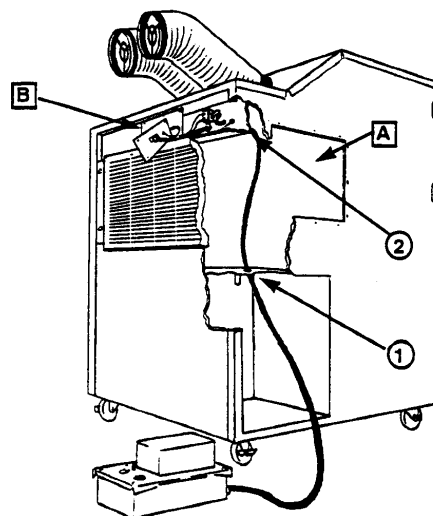


Figure 6 For XL24 thru XL60 models

## 2.5 Local Codes

All installation must be made in accordance with local electrical, heating, air conditioning and plumbing codes. National codes should be followed where local codes do not supersede. The local installer is responsible for knowing the local requirements, and for performing the installation accordingly.

## 2.6 Safety Factors

**WARNING: TO AVOID THE DANGER OF ELECTRICAL SHOCK BEFORE PERFORMING SERVICE OR MAINTENANCE OPERATIONS ON THE SYSTEM, REMOVE POWER CORD FROM WALL SOCKET (IN THE CASE OF CORD CONNECTED UNITS), OR TURN DISCONNECT SWITCH "OFF" ON PERMANENTLY WIRED UNITS. ELECTRICAL SHOCK COULD CAUSE PERSONAL INJURY.**

**WARNING: MAKE SURE UNIT IS PHASED PROPERLY FOR OPERATION. COMPRESSOR WILL RUN BACKWARDS IF NOT PHASED PROPLERY. (SEE WIRING DIAGRAM ON UNIT).**

Only trained and qualified service personnel should install, repair or service this equipment. Follow all safety codes. Wear safety glasses and work gloves. Use a quenching cloth for brazing operations, and place a fire extinguisher close to the work area.

Untrained personnel can perform the basic functions of maintenance such as cleaning coils and replacing filters. All other maintenance and operations should be performed by trained personnel.

When working on this equipment, always observe precautions described in the literature, tags and labels attached to the unit.

## 2.7 Safety Controls

Your Air Rover unit is equipped with safety controls which are designed to protect the unit in case of loss of air movement, plugged drain, over filled condensate bottle, or refrigeration charge. These safety controls should not be bypassed by a service man if there is a failure. Doing so may void the warranty.

## 2.8 Safety Devices

The low pressure switch is mounted on the return line to the compressor and opens when suction pressure becomes too low. This device is usually activated by a low refrigerant charge.

The high pressure switch is mounted on the discharge line leaving the compressor and is set to open at 460 psi. This device is usually activated by a low or loss of condenser air flow during the cooling cycle. The reset pressure is 290 psi.

The thermal overload is an integral part of the compressor and is installed by the compressor manufacturer. This device operates when the temperature and/or ampere ratings are exceeded and the compressor becomes too hot. The compressor can be restarted after it is allowed to cool to room temperature. This device will normally be operated by a low charge and the compressor is not being adequately cooled by returning cold refrigerant gas.



## ***2.9 Accessory System Installation***

### ***2.9.1 Wall/Window Package System***

The Air Rover Wall/Window Package System is designed for applications where it is required that the intake and exhaust condenser air be ducted through an opening in a wall. This “wall port” is normally in a wall to the outside but may also be in an interior wall. In the case of an interior wall, it must be remembered that hot exhaust air will be directed into the area on the opposite side of the wall from the unit and that this will cause a significant increase in temperature of this area. As well, if the distance from the condenser converter to the wall box duct mounting rings will be more than 6 feet, condenser ducts that are longer than standard may be required. Note: If this installation is being made in a computer room, tele-equipment room or other high heat load area and is to be operated during the winter months or when the outside ambient temperature is expected to be below 45°F, the Air Rover system must be equipped with low ambient controls.

The weather resistant louvered boxes are designed to be installed side by side in a single opening. To facilitate this, each box features a 2” wide flange on three of the four outside edges of the box and a 1/2” flange on the fourth “inner” edge of the box. These inner flanges are designed to overlap in the middle. Each box has a set of directional louvers mounted vertically. These louvers are designed to direct the airflow away from the inner edge of each box. That is to say, the left-hand intake box has louvers which angle to the left and the right-hand exhaust side box has louvers which angle to the right. Behind each set of vertical directional louvers is a set of horizontal louvers which angle down and forward. This second set of louvers are designed to make the boxes weather resistant and act to deflect rain, sleet and snow away from the box. Behind this set of louvers is a wire mesh bird screen designed to prevent foreign materials from entering the air flow system.

#### ***Complete WallPak System Parts List***

The WallPak Kit consists of the following items:

- 1 (1) Air Rover Portable Air Conditioning System
- 2 (2) 12.5’ lengths of Condenser duct material
- 3 (1) Left-hand weather resistant louvered box
- 4 (1) Right-hand weather resistant louvered box
- 5 (1) Wall port sleeve

#### ***Accessory WallPak System Parts List***

The Accessory WallPak Kit is designed for installations using an existing Air Rover Portable Air Conditioning System and consists of the following items:

- 1 (2) 12.5’ lengths of Condenser duct material
- 2 (1) Left-hand weather resistant louvered box
- 3 (1) Right-hand weather resistant louvered box
- 4 (1) Wall port sleeve

***Installing the Louvered Boxes***

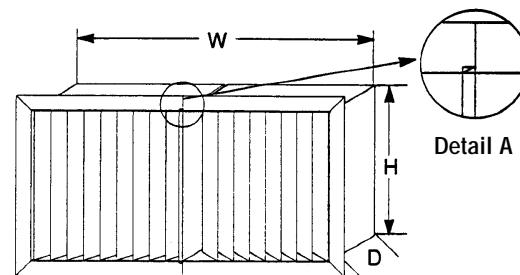
There are five standard louver box kits in the Air Rover product line. If you are installing this system in an existing opening, modifications may be required. As well, whenever you make modifications to the wall, care must be taken that any load bearing action the wall performs is not affected. For this reason, we recommended that you consult with a qualified mechanical contractor to perform this installation.

The following chart shows the minimum and recommended size openings for each. (All measurements are in inches.)

Part #	Description	Minimum Size	Recommended Size
WP10	Window Wall package for use with 10" duct material	14.75 x 29.25 x 7.00	15.00 x 29.50 x 7.00
WP12	Window Wall package for use with 12" duct material	14.75 x 29.25 x 7.00	15.00 x 29.50 x 7.00
WP16	Window Wall package for use with 16" duct material	20.78 x 40.81 x 7.00	21.12 x 41.12 x 7.00
WP18	Window Wall package for use with 18" duct material	20.78 x 40.81 x 7.00	21.12 x 41.12 x 7.00
WP20	Window Wall package for use with 20" duct material	20.78 x 40.81 x 7.00	21.12 x 41.12 x 7.00

The boxes should be installed with the small flanges overlapping each other in the center (see Figure 1, detail A). Installation should proceed as follows:

1. Cut the mounting hole in the wall to the required dimensions in the desired position. The inner surface of the port may be framed out with wood or metal. (This is recommended in order to assure a clean and trouble free installation). Install sleeve from inside and adjust as required.



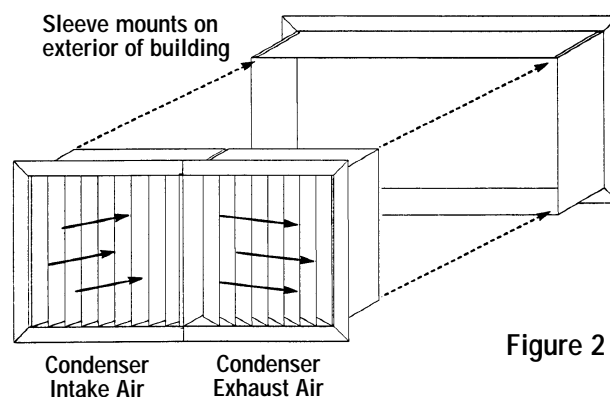
**Figure 1**

2. Slide the boxes into the hole from the outside making sure that the flange fits flush with the outside of the wall and that the duct mounting rings are on the unit side of the wall. Mount the left box to the left and the right box to the right. The correct orientation is with the inner rain louvers angled down and the vertical air louvers angled to either side of the port. We recommend that a good weather resistant caulk be applied between the mounting flange and the exterior wall in order to assure a good moisture seal. Mounting of the flange against the wall can be accomplished using fasteners appropriate to the material of the wall in question.

3. Position the unit next to the duct mounting rings.

4. Connect one length of flexible exhaust duct between the condenser converter intake ring and the mounting ring on the left-hand box. Connect the other length of duct between the condenser converter exhaust ring and the mounting ring on the right-hand box.

5. Position the unit as desired and set the thermostat to the desired room temperature. The unit will automatically cycle on and off as needed to maintain the temperature set on the thermostat.



**Figure 2**

### ***2.9.2 Drop Ceiling Package System***

The Air Rover Drop Ceiling installation kit is designed for applications where it is required that intake and exhaust condenser air be ducted into a return air space above a dropped ceiling. This return air space will be heated so it is desirable that the space be common return space or that the space be vented to the outside (similar to the way an attic would be in a residential home). This installation method is especially attractive in multi-story buildings or in an isolated area without access to outside air.

The CeilPak Kit is designed to be installed in the place of one 2' by 4' ceiling panel or two 2' by 2' ceiling panels. The panels may be placed side by side, or spaced apart from each other. The panels will rest on the metal hanging grid in the same manner as the ceiling panel(s) they replace or may be hung with wire using the mounting holes provided in each corner of each panel. As well, if it is desired that the distance between the mounting rings on the panels and the mounting rings on the condenser converter unit be greater than about 10 feet, it may be necessary to obtain flexible duct longer than the standard 12.5 foot long duct provided.

#### ***Standard Ceiling Package Parts List***

The CP10-A consists of the following items:

- 1 (2) 12.5' lengths of 10" diameter condenser duct material
- 2 (1) 2' by 2' combination ceiling panel with connectors for condenser air intake and exhaust (includes deflector to throw hot exhaust air away from intake).

The CP12-A consists of the following items:

- 1 (2) 12.5' lengths of 12" diameter condenser duct material
- 2 (1) 2' by 2' ceiling panel with connector for condenser air intake
- 3 (1) 2' by 2' ceiling panel with connector for condenser air exhaust (includes deflector to throw hot exhaust air away from intake).

The CP16-A consists of the following items:

- 1 (2) 12.5' lengths of 16" diameter condenser duct material
- 2 (1) 2' by 2' ceiling panel with connector for condenser air intake
- 3 (1) 2' by 2' ceiling panel with connector for condenser air exhaust (includes deflector to throw hot exhaust air away from intake).

The CP18-A consists of the following items:

- 1 (2) 12.5' lengths of 18" diameter condenser duct material
- 2 (1) 2' by 2' ceiling panel with connector for condenser air intake
- 3 (1) 2' by 2' ceiling panel with connector for condenser air exhaust (includes deflector to throw hot exhaust air away from intake).

### *Additional Materials Required*

If your dropped ceiling consists of 2' by 4' panels, you will need a length of ceiling panel hanging frame material to place between the two ceiling panels. In the case of the CP10-A you will either need an additional 2' by 2' panel or alternatively you can cut the 2' by 4' panel you will be removing to fit the space that will be left.

### *Installation Procedure Existing 2' by 2' Ceiling Grid*

1. Determine desired position for the air conditioner. For the CP10-A, remove (1) ceiling tile and replace it with the supplied panel. For all other kits, remove (2) ceiling tiles and install the intake panel on the right of the unit and the exhaust panel on the left. (Right and left is determined by facing the front of the air conditioner. The exhaust will now be on your left and the intake will be on your right. The exhaust panel can be identified by the deflector mounted on top of it). Make sure the duct rings face down into the room. Be certain to anchor at each corner using wire to tie each corner to the support system for the drop ceiling. (This is done in the same manner as the ceiling grid for the drop ceiling is supported).
2. Position the unit under the duct mounting rings.
3. Connect one length of flexible exhaust duct between the condenser air intake ring and the mounting ring on the right-hand panel ring. Connect the other length of duct between the condenser converter exhaust ring and the mounting ring on the left-hand panel.
4. Position the unit, as desired, and set the thermostat to the desired room temperature. The unit will automatically cycle on and off as needed to maintain the temperature set on the thermostat.

# OPERATION

# 3

### 3.1 Cooling Mode

When the Air Rover portable air conditioner is operated in cooling cycle, the hot gas is pumped by the compressor to the outdoor air-to-refrigerant heat exchanger (Fig. 3-1). Heat is removed by the condenser air flow, and the hot gas condenses to become a liquid. The refrigerant then flows through a metering device (expansion valve) to the indoor air-to-refrigerant heat exchanger. The liquid then evaporates, becoming a gas, and at the same time absorbs heat from the air passing over the surface of the air coil. The refrigerant then flows as low pressure gas back to the suction side of the compressor to then begin the cooling cycle again.

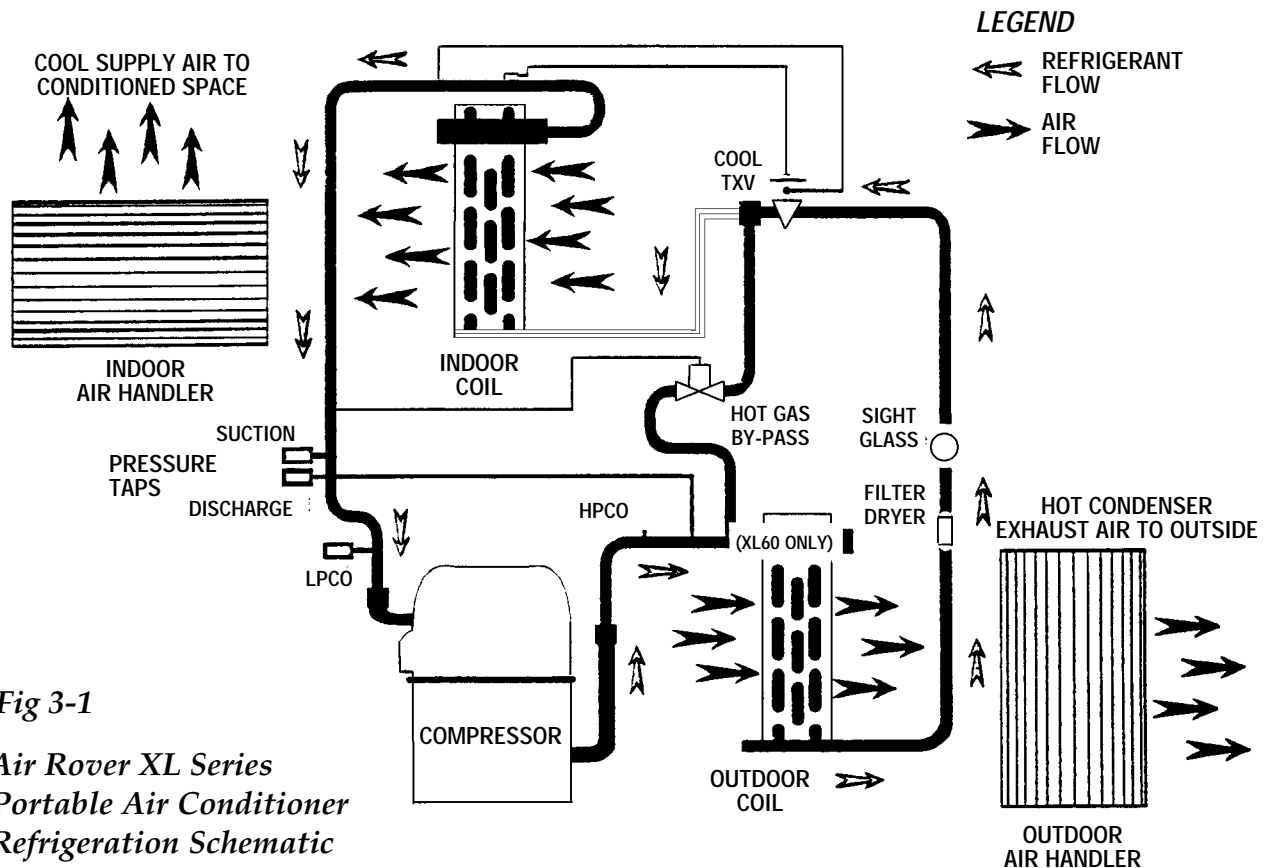
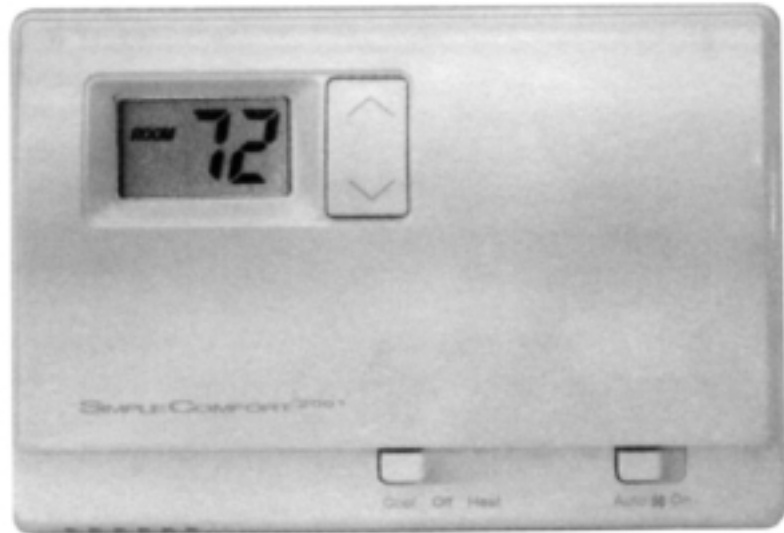


Fig 3-1  
Air Rover XL Series  
Portable Air Conditioner  
Refrigeration Schematic

### 3.2 Thermostatic Controls - Air Rover Electronic Temperature Control System

- Controls Single Stage Heating/Cooling Systems
- Single Stage Heat Pump Systems
- Compatible with Gas, Oil or Electric Systems
- 30 Minute Power Loss Memory Retention
- For Use with 24 VAC/VDC Systems



#### General Description:

- The SimpleComfort<sup>® 2001</sup> thermostat is a hardwired, digital, mercury-free, non-programmable, electronic thermostat.
- Compatible with single stage heating systems, heating/cooling systems and heat pump systems. Works with gas, oil or electric systems.
- Compatible as a master thermostat in zoned system applications.
- Separate setpoints for Heating and Cooling.
- Freeze Protection Feature: Protects pipes from freezing! If the room temperature drops to 40°F the thermostat automatically turns on the heat. The thermostat must be in the “heat” position.
- Built-in Compressor Protection for Air Conditioners: To protect the A/C’s compressor, there is a 5 minute delay between the system turning off and the A/C starting.
- 30 minute power loss memory retention protection.

#### System Customization:

- Choose Fahrenheit or Celsius display. Three available temperature differential settings.

#### Safety Considerations:

- Always turn the thermostat off before installing, removing, cleaning or servicing. Turn off the power at the main power source by unscrewing fuse or switching off circuit breaker.
- Do not switch to “Cool” if room temperature is below 50°F (10°C), this could damaged your A/C system and cause injury.
- Do not install on voltages higher than 30 VAC/VDC.
- All wiring must conform to local and national building and electrical codes and ordinances.

***Safety Considerations (continued):***

- While cleaning, do not get soap directly on thermostat switches or LCD readout. Only use a damp cloth, with a mild soap, to wipe outside of thermostat cover.

***Operation -******Setting the Room Temperature (Setpoint Temperature):***

**Step 1:** Press one of the arrow buttons; the current temperature setting displays.

**Step 2:** Press the ▼ or ▲ arrow buttons until the desired temperature setting displays.

The new temperature setting is automatically saved. After 5 seconds, the display returns to showing the current room temperature.

***Setting a New Temperature Differential:***

The default temperature differential is 1°. When your room temperature varies by 1°F, the thermostat turns on your system. If you notice your system turning on and off too frequently, increase the temperature differential.

**Step 1:** Reset thermostat by removing power for 10 seconds.

**Step 2:** For the first 10 seconds of operation, the temperature differential is displayed.  
Press the ▼ or ▲ arrow buttons to select desired setting.

***Changing Fahrenheit to Celsius:***

The temperature displays in degrees Fahrenheit as a factory set default. Follow these steps to change to degrees Celsius.

**Step 1:** Remove power, then remove cover.

**Step 2:** Move the jumper select marked "F" & "C". See Parts Diagram.

**Step 3:** Press the RESET button once, reinstall the cover and reapply power.

Your LCD readout changes accordingly.

***Starting the Thermostat:***

**Step 1:** Move the "Fan Auto/On" switch into the "Auto" position.

**Step 2:** Move the "Cool/Off/Heat" switch to "Cool" or "Heat" (if electric heat is installed), depending on the season.

**A Quick Test:**

**Caution:** Do not switch system to cool if the outdoor temperature is below 50°F (10°C). This can damage the air conditioning system and may cause personal injury.

Do not short jumper across terminals on the gas valve or at the system control to test installation.

**Action:** Set the "Cool/Off/Heat" switch to "Cool" Press the ▼ button until the temperature setting is 3°F below the room temperature.

**Result:** The A/C system and fan should turn on.

**Action:** Set the "Cool/Off/Heat" switch to "Off".

**Result:** The A/C system should turn off. (There may be a fan delay).

**Action:** Set the "Cool/Off/Heat" switch to "Heat". Press the ▲ button until the temperature setting is 3°F above the room temperature.

**Result:** The heating system and fan should turn on. (There may be a time delay depending on your system).

**Action:** Set the "Cool/Off/Heat" switch to "Off".

**Result:** The heating system should turn off. (There may be a fan delay).

**Action:** Set the "Fan/ Auto/On" switch to "On". (Continuous indoor fan operation).

**Result:** The blower fan should turn on.

**Action:** Set the "Fan/ Auto/On" switch to "Auto".

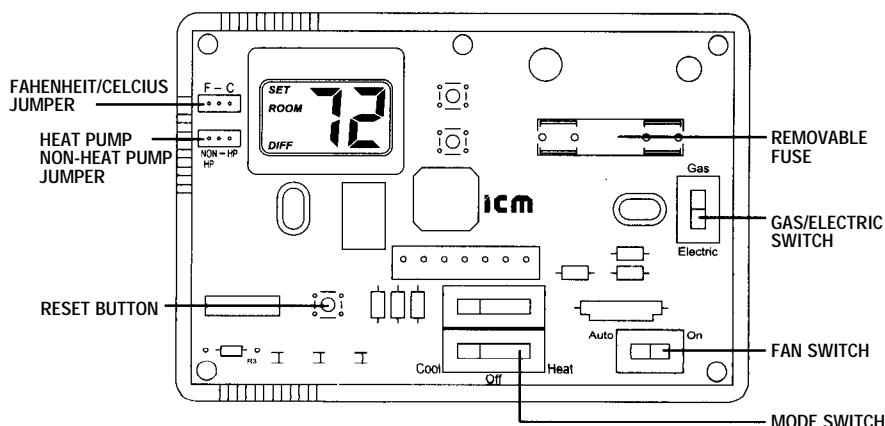
**Result:** The blower fan should turn off.

If the above test was successful, you have a proper installation.

**If not:** Double check that wires are securely connected and connected to the proper terminal. Check the fuse. Consult the troubleshooting section.



*Parts Diagram*



*Specifications*

*Input*

- Input voltage: 18-30 VAC/VDC

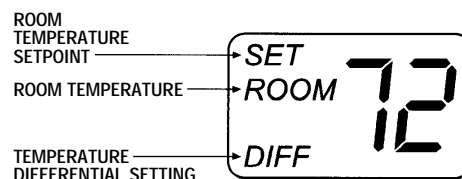
*Output*

- Max: 1 amp per terminal. (3 amp total for all terminals).

*Temperature Ranges*

- Temperature Control Range: 45°F to 90°F (7°C to 32°C).
- Differential Range: 1°F to 3°F (0.5°C to 1.5°C).
- Accuracy: +/- 1°F (+/- 0.5°C).

Note: This thermostat is designed for: Single stage gas, oil or electric heating/cooling systems and heat pump systems. It will retain your setpoint temperatures in memory for up to 30 minutes during a power outage.



*Troubleshooting*

Problem	Solution
The system isn't turning on.	Check the wiring (See Installation). Check the fuse (Replace fuse if it has opened to protect the system).
LCD is blank.	Check the wiring (See Installation).
Thermostat is not properly controlling the fan.	Check that the fan switch setting matches your system (gas or electric).
Thermostat is continuously turning on and off.	Increase the temperature differential.
Temperature display is not accurate.	Your thermostat has two options for temperature readout: Fahrenheit (default) or Celsius. Check that the "jumper" is properly set to your preference.

# MAINTENANCE CHECKS

# 4

## *4.1 Filter*

Check evaporative filter on regular monthly schedule. Replace as required.

## *4.2 Condenser Air Flow*

Check periodically to make certain condenser air ducts are not kinked or obstructed and that the condenser air flow is not restricted.

## *4.3 Air Flow From Registers*

When fiberglass ducting has been installed, it is sometimes possible for the duct to be punctured or for joints to work loose. If the performance of your unit has deteriorated, that is, temperature are not what they were or air is not being delivered, the duct needs to be checked for possible leakage. Ducting should always be insulated or constructed from fiberglass board of at least one inch thickness.

## *4.4 Annual Maintenance*

An annual maintenance check by a qualified service company is highly recommended. They can check for correct condenser air flow, operating temperatures and general condition of the system. Proper maintenance is an assurance of efficient operation, and results in holding down operating costs.

## *4.5 Charging The Unit*

The Air Rover portable air conditioner is a package unit, and does not have receivers, accumulators or long refrigerant line sets. It is, therefore, sensitive to both undercharged and overcharged conditions. If the amount of refrigerant in the circuit is in question, it is imperative that charging be done correctly. Unit should be charged to clear sight glass in maximum cooling mode .

## *4.6 What To Do If Unit Fails To Operate*

In case of failure, the first step is always to check the electrical panel to see if power has been interrupted. A service call may be avoided by checking to see if a breaker has been tripped. Most installations will have an electrical disconnect near the unit in addition to the main electrical panel. Either of these may be in the "off" position; reset it. If it continues to trip, call your installer and explain the situation.

# TROUBLESHOOTING

# 5

## 5.1 General

This section contains troubleshooting procedures and recommended corrective actions to follow in the event of a problem with your air conditioner. In the event of a failure, the first step is to check the electrical power to see if power has been interrupted or a breaker has tripped. The main power switch should be checked to insure it has not been turned off. Failure to perform or poor performance may also be caused by dirty filters and/or obstructed evaporator return and/or condenser intake. If operation is not restored by checking these general items, continue to the procedures below.

## 5.2 Troubleshooting Chart

PROBLEM	POSSIBLE CAUSES	CHECKS AND CORRECTIONS
Entire unit does not run	Tripped breaker	Reset breaker.
	Broken or loose wires	Replace or tighten the wires.
	Voltage supply low	If voltage is below minimum voltage specified on data plate, contact your power company.
	Low voltage circuit	Check 24 volt transformer for burnout or voltage lower than 22 volts. Replace transformer.
	Faulty Toggle Switch	Check voltage through switch. If switch remains open or voltage drops through switch then replace toggle switch.
Unit operates, not cooling properly	Electronic Proportional Thermostat	Set the thermostat on lowest temperature setting; unit should cool. If unit fails to cool the thermostat could be faulty. Check that you receive 0-10VDC proportional signal. If no output signal, check for 24vac input voltage. If input voltage present but no output, replace thermostat.
	Outdoor air flow; high head pressure	Check for dirty outdoor coil. Check condenser inlet and outlet for restrictions.
	Air flow	Lack of adequate air flow or improper distribution of air. Check the motor speed or duct sizing. Check the filter; it should be inspected every three months and changed if dirty. Remove or add resistance accordingly.
	Blower motor defective	Check blower motor and check for loose or broken belt(s). If it does not operate, check for open overload. If motor is not overheated, replace it.
	Refrigerant charge	Low refrigerant charge will cause inefficient operation. Adjust only after checking air flow.
	Incorrect wiring	Check for broken, loose or incorrect wires.
	Evaporator Control Valve	Check that thermostat calls for 0 to 10vac output. Check evaporator refrigerant pressure for valve operation.

<i>PROBLEM</i>	<i>POSSIBLE CAUSES</i>	<i>CHECKS AND CORRECTIONS</i>
Unit operates, not cooling properly (continued)	Blower runs backwards	Reverse the two motor leads inside the motor connection compartment. Instructions are shown on the back of the cover plate.
	Compressor	Check for defective compressor. If discharge pressure too low and suction pressure too high, compressor is not pumping properly. Replace.
	Refrigerant system	Check strainer and expansion valves for possible restrictions to refrigerant flow. The refrigerant system may be contaminated with moisture, non-condensable substances and/or particles. Dehydrate, evacuate, and recharge the system.
Evaporator ices over	Clogged air filter	Check filter. Clean or replace if found to be too dirty.
	Evaporator blower motor	Check for overheated evaporator motor tripping off on overload. Tripped overload. Replace motor if necessary.
	Unit operating at too low room temperature	If room temperature drops below 55°F, the evaporator may ice over.
	Thermostat	Check setting, calibration and wiring. Replace if necessary.
	High or low pressure controls	Check for loose or broken wires at compressor, capacitor or contactor. The unit could be "off" on high or low pressure cut out control. If the unit still fails to run, check for faulty pressure switch by jumping the high and low pressure controls individually. Replace if defective.
	Voltage supply low	If voltage is below minimum voltage specified on the data plate, contact your local power company.
Indoor fan motor does not run	Seized bearings	Shaft will not turn. Replace motor.
	Excessive amps	Refer to data plate. Probe lead wires or motor for amps. If incorrect, replace motor.
	Internal overload tripped	Check for excessive amp draw. Replace motor.
	Open windings	Ohm motor leads to check for open winding. If found, replace motor.
Compressor does not run	Compressor overload	In all cases an internal temperature sensitive compressor overload is used. If the compressor dome is too hot to touch, the overload will not reset until the compressor cools down. If the compressor is cool and the overload does not reset, there is a defective overload. Replace the compressor.
	Compressor motor grounded	Internal winding grounded to the compressor shell. Replace the compressor. If the compressor burns out, install filter drier at suction line.

<i>PROBLEM</i>	<i>POSSIBLE CAUSES</i>	<i>CHECKS AND CORRECTIONS</i>
Compressor does not run (continued)	Compressor windings open	Check continuity of the compressor windings with an ohm meter. If the windings are open, replace the compressor.
	Seized compressor	Compressor goes to lock rotor on initial start. Replace compressor.
	Unit trips high pressure switch	Excessive head pressure and restricted condenser air flow. Check for overcharging.
Unit short cycles	Unit trips low pressure switch	Restricted evaporator air flow. Check refrigerant charge.
	Wiring and controls	Loose wiring connections or defective control contactor.
Noisy operation	Compressor	Make sure the compressor is not in direct contact with the base or sides of the cabinet. The hold-down bolts used for shipping should be loosened so that the compressor is floating freely on its isolator mounts. Excessive noise will occur if the compressor has a broken valve or loose discharge tube. Replace the compressor.
	Blower and blower motor	Check for blower wheel hitting the housing. Adjust for clearance and alignment. Check for bent blower and replace if damaged. Check for loose blower wheel on shaft and tighten if needed. Check for defective bearings. Repair or replace as needed.
	Contactors	A clattering or humming noise in the contactor could be due to control voltages of less than 22 volts. Check for low supply voltage, low transformer output or extra long runs of thermostat wires. If the contactor contacts are pitted or corroded or the coil is defective, repair or replace.
	Rattles and vibrations	Check for loose screws, panels, or internal components. Tighten and secure. Copper piping could be hitting the metal surfaces. Carefully readjust by bending slightly.

# SCHEMATIC DIAGRAM

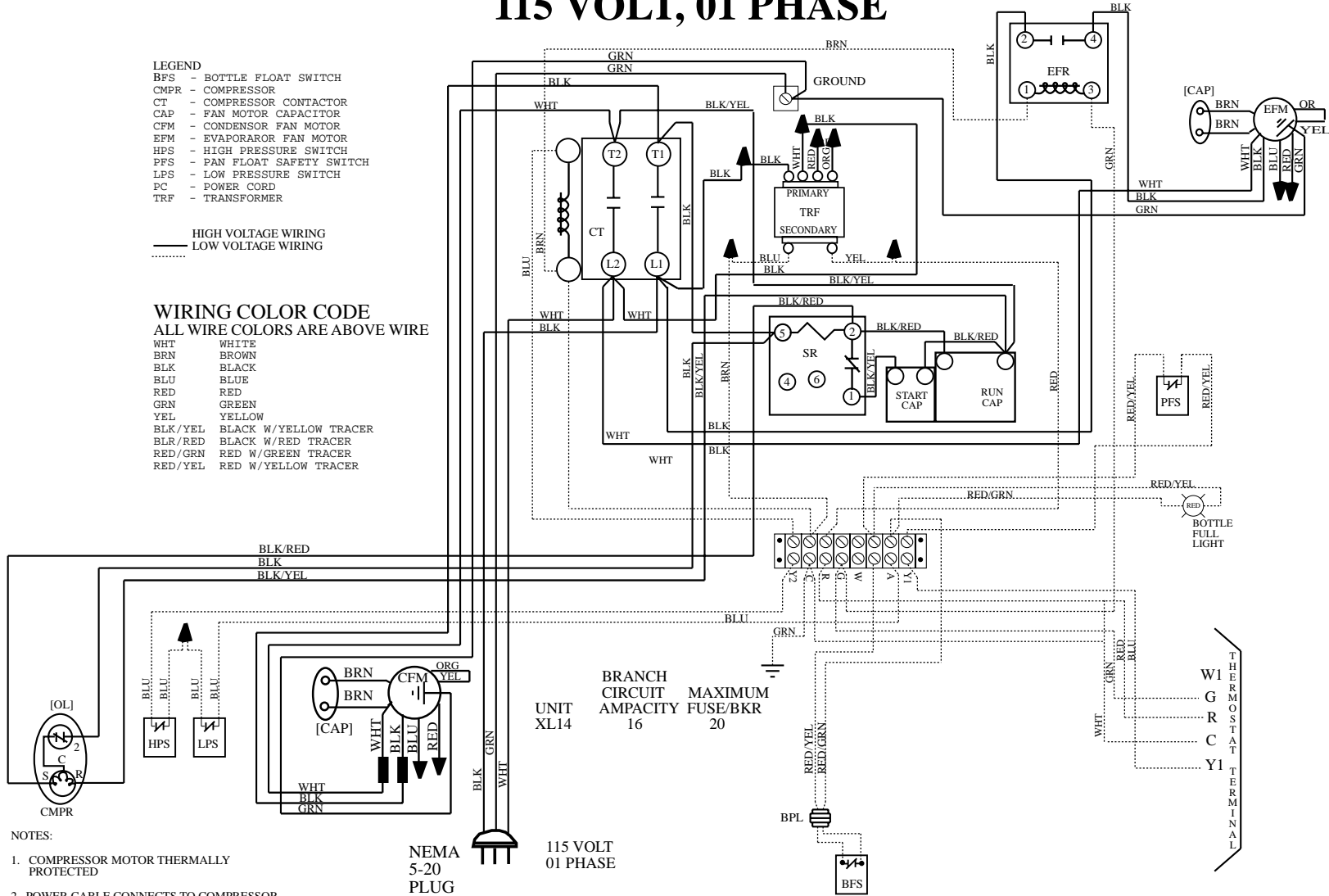
# 6

The following pages contain schematic and wiring diagrams for the entire XL line. Please be certain you are referring to the correct diagram. The following diagrams are listed in this section.

Model	Description	Page No.
XL11AA	115 VAC, Single Phase Wirig Diagram .....	30
XL14AB	115 VAC, Single Phase Wirig Diagram .....	31
XL18AB	115 VAC, Single Phase Wiring Diagram .....	32
XL22AB	115 VAC, Single Phase Wiring Diagram .....	33
XL24BA	208/230 VAC, Single Phase Wiring Diagram .....	34
XL36BA	208/230 VAC, Single Phase Wiring Diagram .....	35
XL48BA	208/230 VAC, Single Phase Wiring Diagram .....	36
XL60BA	208/230 VAC, Single Phase Wiring Diagram .....	37
XL36CA	208/230 VAC, Three Phase Wiring Diagram .....	38
XL48CA	208/230 VAC, Three Phase Wiring Diagram .....	39
XL60CA	208/230 VAC, Three Phase Wiring Diagram .....	40
XL36DA	460 VAC, Three Phase Wiring Diagram .....	41
XL48DA	460 VAC, Three Phase Wiring Diagram .....	42
XL60DA	460 VAC, Three Phase Wiring Diagram .....	43
XL60MV	208/230/460 VAC, Three Phase Wiring Diagram .....	44
XL120CA	208/230 VAC, Three Phase Wiring Diagram .....	45
XL120DA	460 VAC, Three Phase Wiring Diagram .....	46



# 115 VOLT, 01 PHASE



- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CAP - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EFM - EVAPORATOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOAT SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 - - - - - LOW VOLTAGE WIRING

**WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- BLK/YEL BLACK W/YELLOW TRACER
- BLK/RED BLACK W/RED TRACER
- RED/GRN RED W/GREEN TRACER
- RED/YEL RED W/YELLOW TRACER

**NOTES:**

1. COMPRESSOR MOTOR THERMALLY PROTECTED
2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR'S FOLLOWS: BLK TO L1; WHT TO L2; GRN TO GROUND LUG

NEMA 5-20 PLUG  
 115 VOLT 01 PHASE

BRANCH CIRCUIT UNIT XL14  
 MAXIMUM AMPACITY 16  
 FUSE/BKR 20

<b>REQUIRES 20 AMP DEDICATED SERVICE</b>	<p><b>NOTICE:</b> This drawing may contain confidential proprietary information belonging to Air Rover Inc. Reproduction, use or disclosure of this information to unauthorized persons requires the express written permission of Air Rover Inc. This drawing is subject to return on demand.</p>	<p>FOR USE WITH MODELS: XL14</p>	<p><b>WARNING ANY UNAUTHORIZED REPAIRS WILL VOID WARRANTY</b></p>	<p><b>AIR ROVER COMPANY</b>          EAST TEXAS CENTER          ROUTE 1, BOX 280          TYLER, TEXAS 75708</p>
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# 115 VOLT, 01 PHASE

**LEGEND**

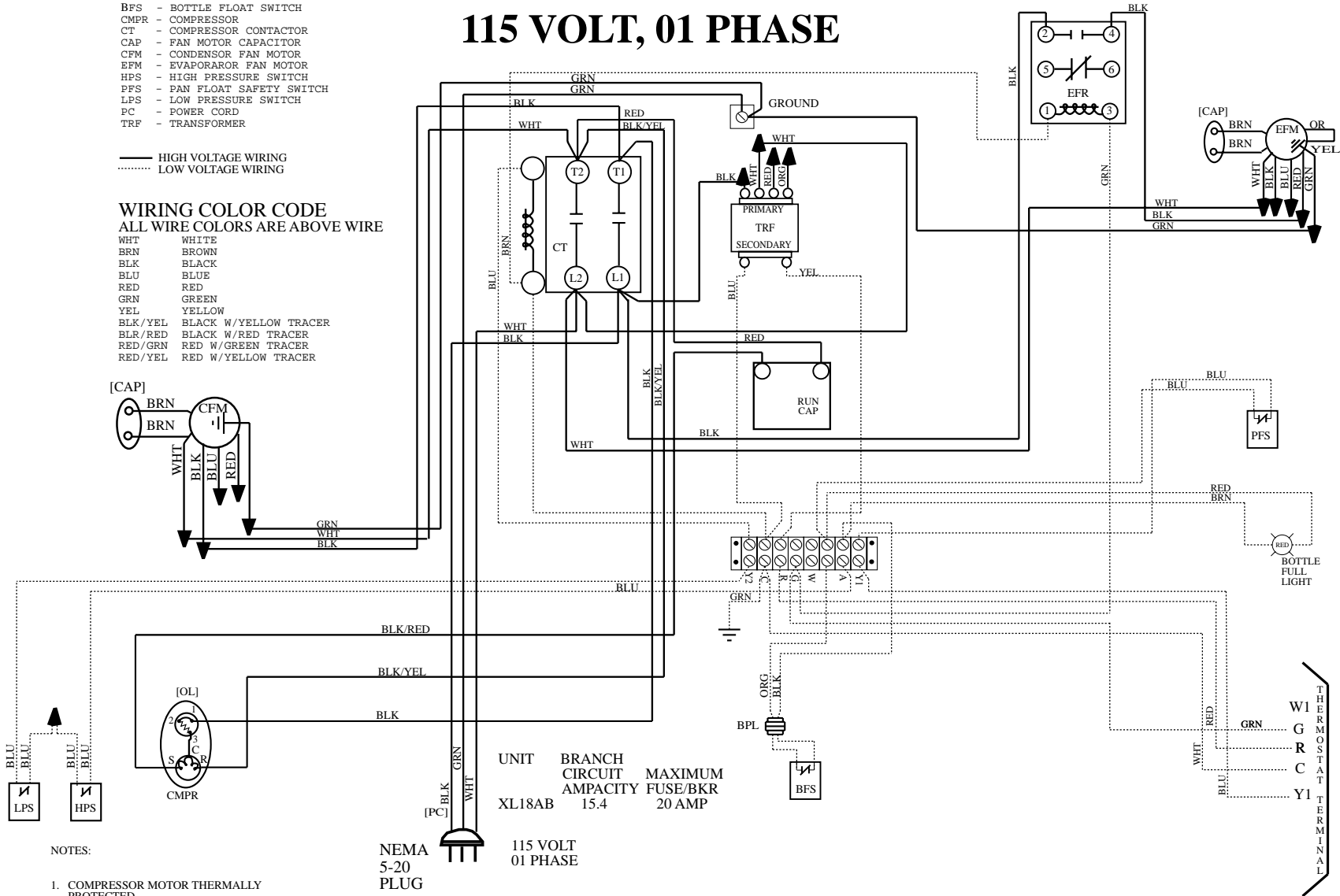
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- HIGH VOLTAGE WIRING
- ..... LOW VOLTAGE WIRING

**WIRING COLOR CODE**

ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- BLK/YEL BLACK W/YELLOW TRACER
- BLR/RED BLACK W/RED TRACER
- RED/GRN RED W/GREEN TRACER
- RED/YEL RED W/YELLOW TRACER



UNIT	BRANCH CIRCUIT AMPACITY	MAXIMUM FUSE/BKR
XL18AB	15.4	20 AMP

NEMA 5-20 PLUG 115 VOLT 01 PHASE

- NOTES:
1. COMPRESSOR MOTOR THERMALLY PROTECTED
  2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; GRN TO GROUND LUG

<p><b>REQUIRES 20 AMP DEDICATED SERVICE</b></p>	<p>NOTICE: This drawing may contain confidential proprietary information belonging to Air Rover Inc. Reproduction, use or disclosure of this information to unauthorized persons requires the express written permission of Air Rover Inc. This drawing is subject to return on demand.</p>	<p>FOR USE WITH MODELS: <b>XL18AB ROTARY</b></p>	<p><b>WARNING ANY UNAUTHORIZED REPAIRS WILL VOID WARRANTY</b></p>
<p><b>AIR ROVER</b> COMPANY EAST TEXAS CENTER ROUTE 1, BOX 280</p>			

# 115 VOLT, 01 PHASE

**LEGEND**

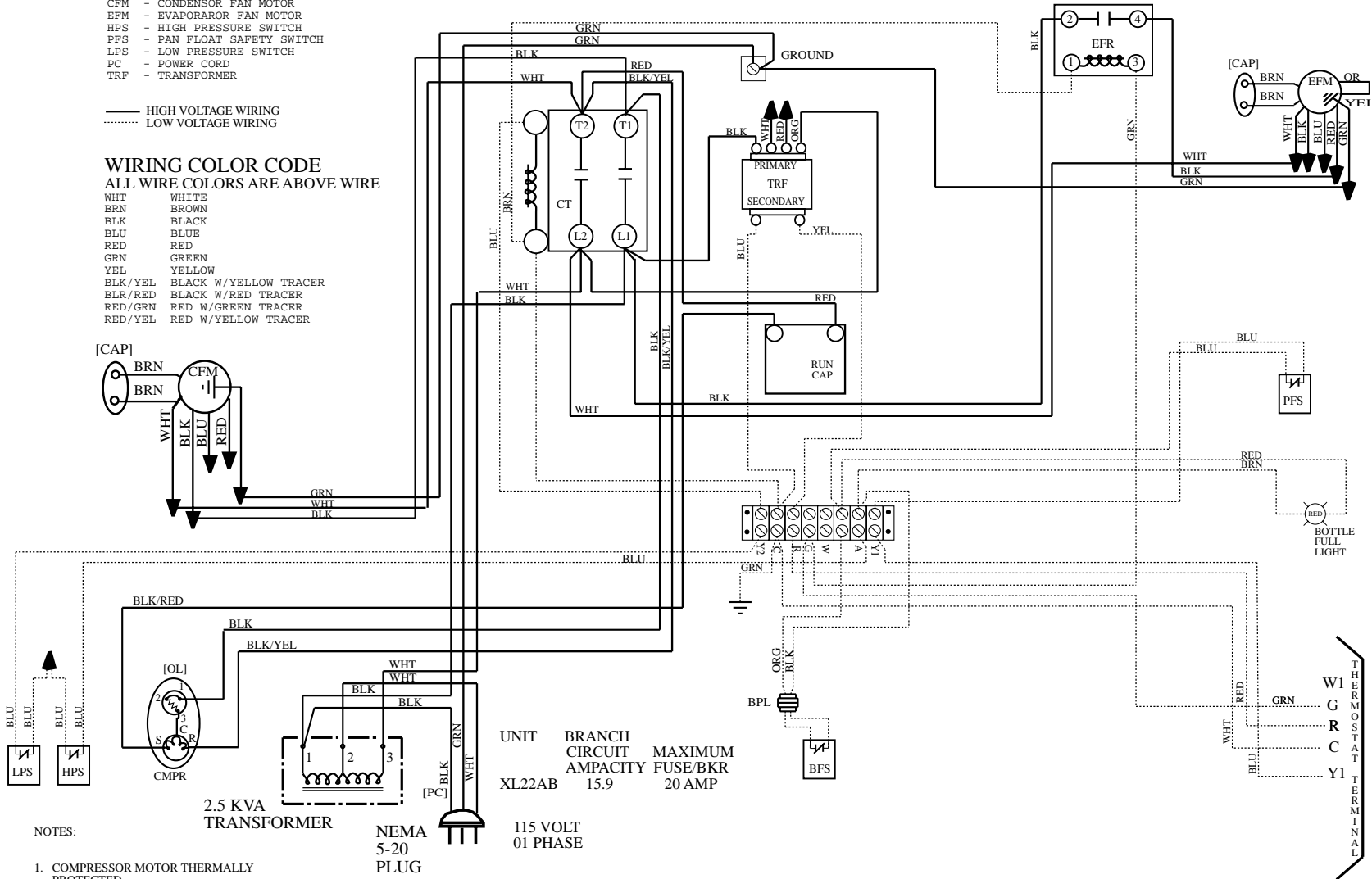
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- HPS - HIGH PRESSURE SWITCH
- PFS - PAN FLOAT SAFETY SWITCH
- LPS - LOW PRESSURE SWITCH
- PC - POWER CORD
- TRF - TRANSFORMER

- HIGH VOLTAGE WIRING
- ..... LOW VOLTAGE WIRING

**WIRING COLOR CODE**

ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- BLK/YEL BLACK W/YELLOW TRACER
- BLR/RED BLACK W/RED TRACER
- RED/GRN RED W/GREEN TRACER
- RED/YEL RED W/YELLOW TRACER



UNIT	BRANCH CIRCUIT	MAXIMUM AMPACITY	FUSE/BKR
XL22AB		15.9	20 AMP

115 VOLT  
01 PHASE

- NOTES:
1. COMPRESSOR MOTOR THERMALLY PROTECTED
  2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; GRN TO GROUND LUG

**REQUIRES  
20 AMP  
DEDICATED  
SERVICE**

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FOR USE WITH MODELS:  
**XL22AB  
ROTARY**

**WARNING  
ANY  
UNAUTHORIZED  
REPAIRS WILL  
VOID  
WARRANTY**

**AIR ROVER  
COMPANY**  
EAST TEXAS CENTER  
ROUTE 1, BOX 280

# 208/230 VOLT, 01 PHASE

**LEGEND**

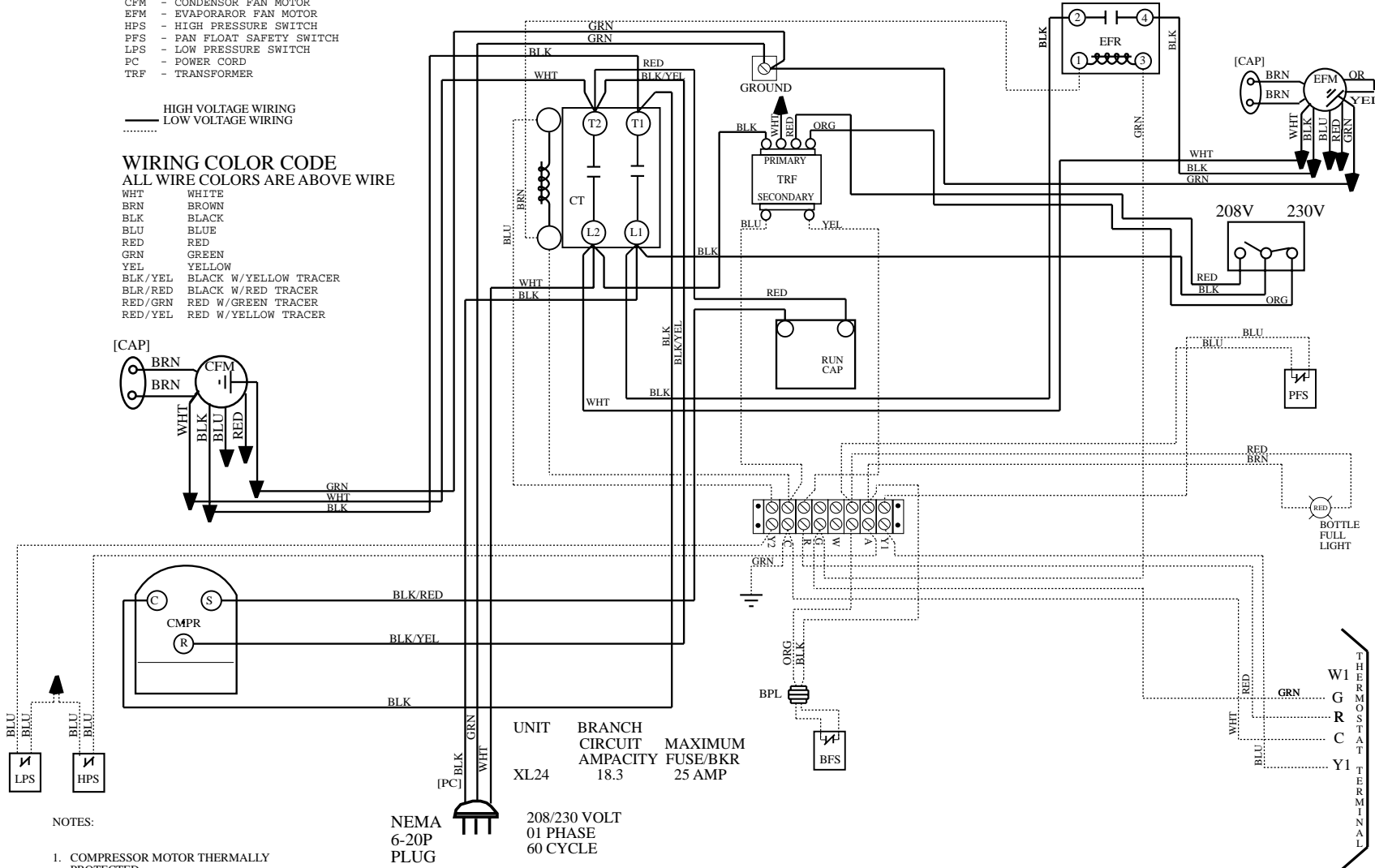
- BFS - BOTTLE FLOAT SWITCH
- CMPR - COMPRESSOR
- CT - COMPRESSOR CONTACTOR
- CAP - FAN MOTOR CAPACITOR
- CFM - CONDENSOR FAN MOTOR
- EFM - EVAPORATOR FAN MOTOR
- HPS - HIGH PRESSURE SWITCH
- PFS - PAN FLOAT SAFETY SWITCH
- LPS - LOW PRESSURE SWITCH
- PC - POWER CORD
- TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 - - - - - LOW VOLTAGE WIRING

**WIRING COLOR CODE**

ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- BLK/YEL BLACK W/YELLOW TRACER
- BLR/RED BLACK W/RED TRACER
- RED/GRN RED W/GREEN TRACER
- RED/YEL RED W/YELLOW TRACER



**NOTES:**

1. COMPRESSOR MOTOR THERMALLY PROTECTED
2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2  
GRN TO GROUND LUG

UNIT	BRANCH CIRCUIT AMPACITY	MAXIMUM FUSE/BKR
XL24	18.3	25 AMP

NEMA 6-20P PLUG  
 208/230 VOLT  
 01 PHASE  
 60 CYCLE

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FOR USE WITH MODELS:  
 XL24  
 SCROLL

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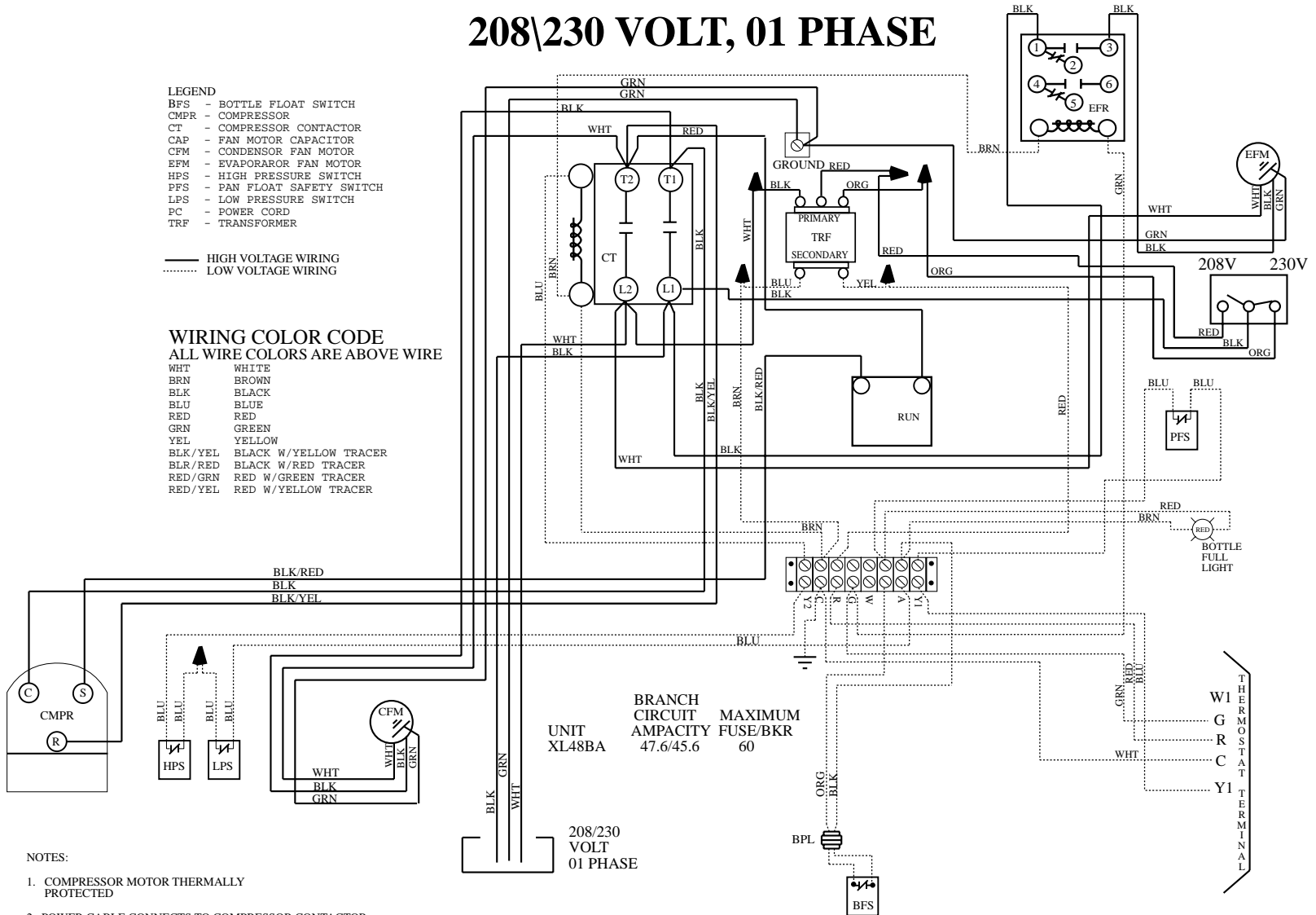
# 208\230 VOLT, 01 PHASE

- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CAP - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EFM - EVAPORAROR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOAT SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 ..... LOW VOLTAGE WIRING

**WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- BLK/YEL BLACK W/YELLOW TRACER
- BLR/RED BLACK W/RED TRACER
- RED/GRN RED W/GREEN TRACER
- RED/YEL RED W/YELLOW TRACER



BRANCH  
 CIRCUIT MAXIMUM  
 UNIT AMPACITY FUSE/BKR  
 XL48BA 47.6/45.6 60

208/230  
 VOLT  
 01 PHASE

- NOTES:**
1. COMPRESSOR MOTOR THERMALLY PROTECTED
  2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; GRN TO GROUND LUG
  3. UNIT IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS

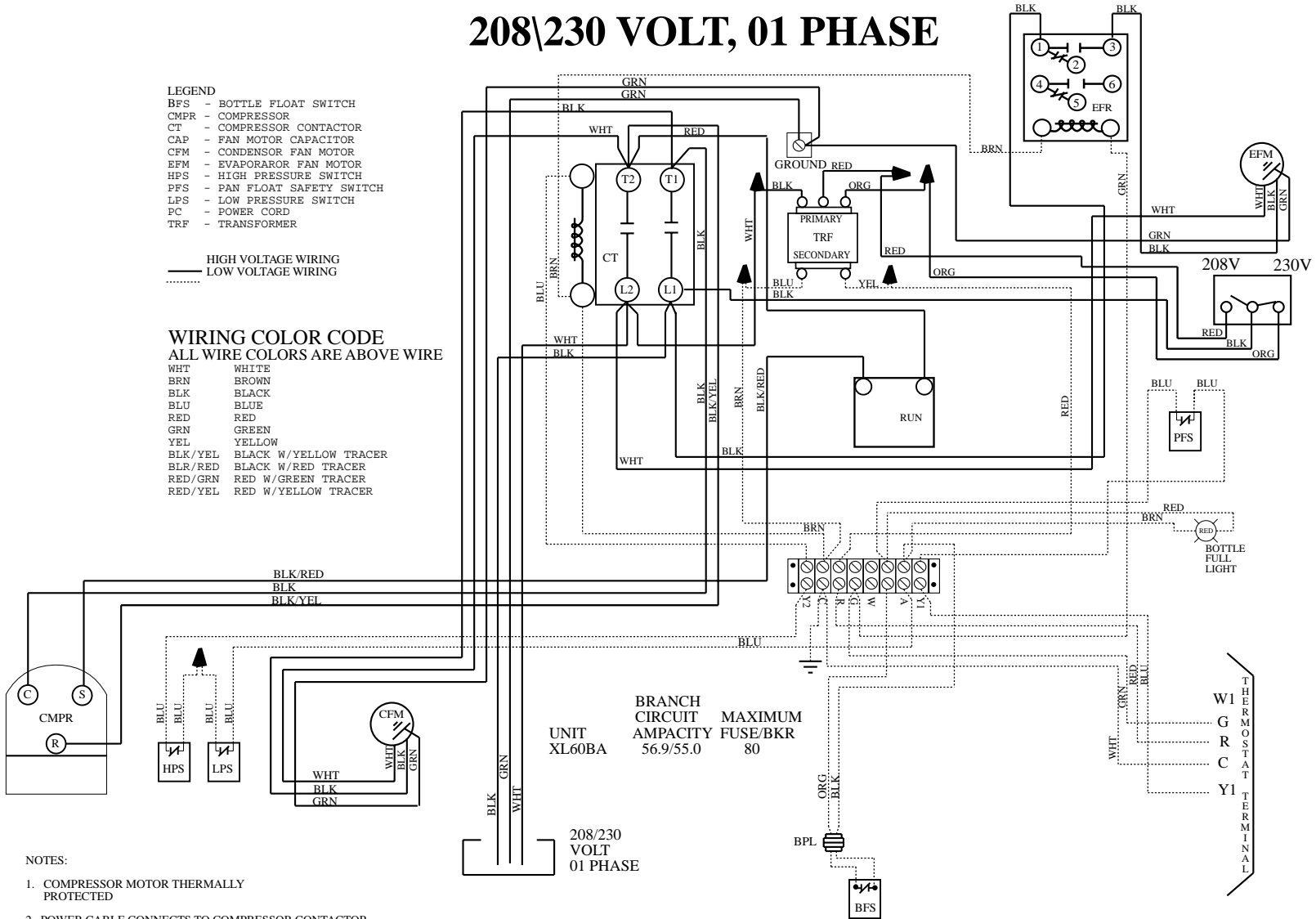
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# 208\230 VOLT, 01 PHASE

- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CAP - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EPM - EVAPORATOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOATE SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 - - - - - LOW VOLTAGE WIRING

- WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE
- WHT WHITE
  - BRN BROWN
  - BLK BLACK
  - BLU BLUE
  - RED RED
  - GRN GREEN
  - YEL YELLOW
  - BLK/YEL BLACK W/YELLOW TRACER
  - BLR/RED BLACK W/RED TRACER
  - RED/GRN RED W/GREEN TRACER
  - RED/YEL RED W/YELLOW TRACER



**NOTES:**

1. COMPRESSOR MOTOR THERMALLY PROTECTED
2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; GRN TO GROUND LUG
3. UNIT IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS

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FOR USE WITH MODELS:  
 XL60-BA  
 SCROLL

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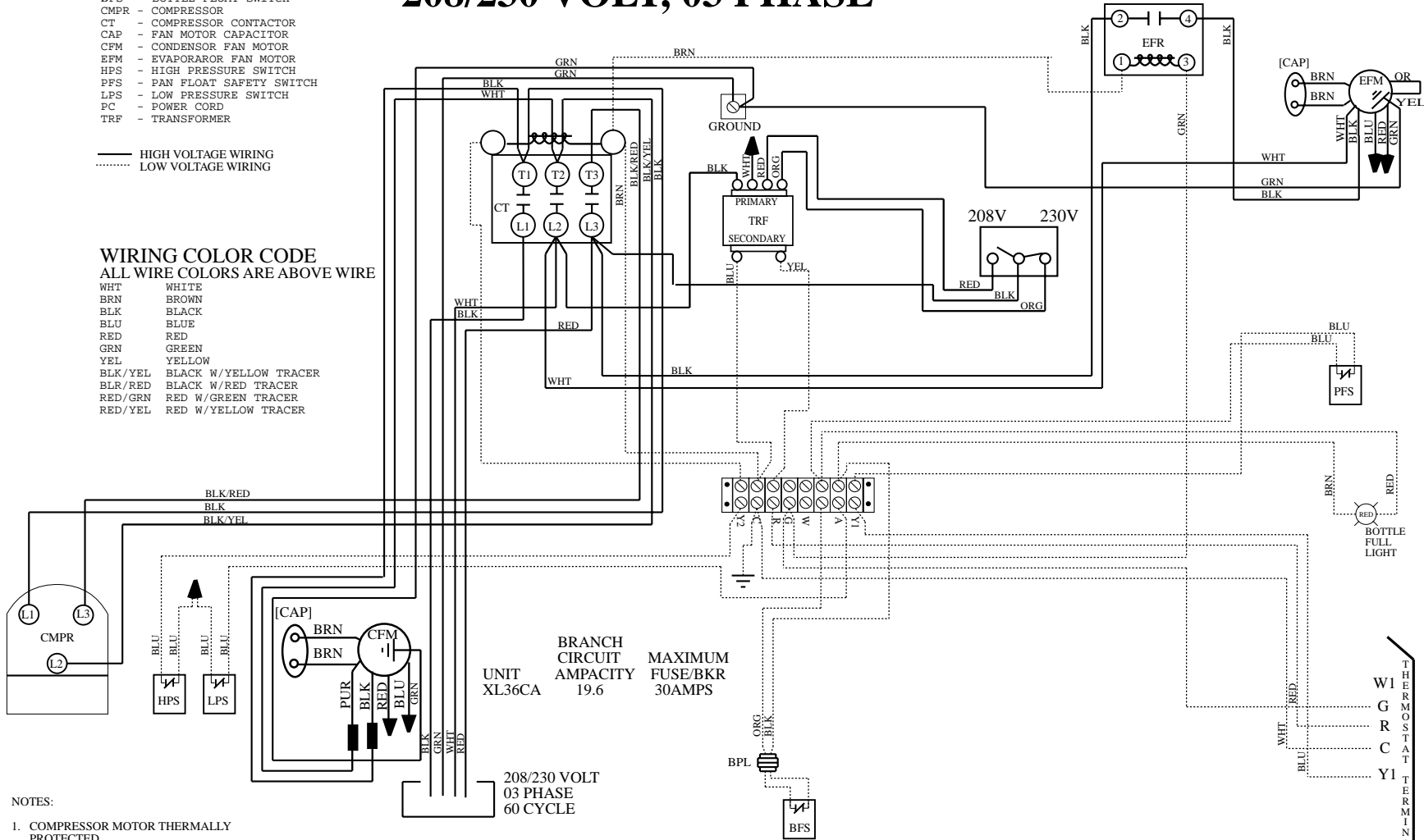
# 208/230 VOLT, 03 PHASE

- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CAP - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EFM - EVAPORATOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOAT SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 ..... LOW VOLTAGE WIRING

**WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- BLK/YEL BLACK W/YELLOW TRACER
- BLK/RED BLACK W/RED TRACER
- RED/GRN RED W/GREEN TRACER
- RED/YEL RED W/YELLOW TRACER



BRANCH  
 CIRCUIT  
 UNIT AMPACITY 19.6  
 XL36CA MAXIMUM FUSE/BKR 30AMPS

208/230 VOLT  
 03 PHASE  
 60 CYCLE

- NOTES:**
1. COMPRESSOR MOTOR THERMALLY PROTECTED
  2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; RED TO L3; GRN TO GROUND LUG
  3. UNIT IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS

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	<p>XL36CA                  SCROLL</p>		

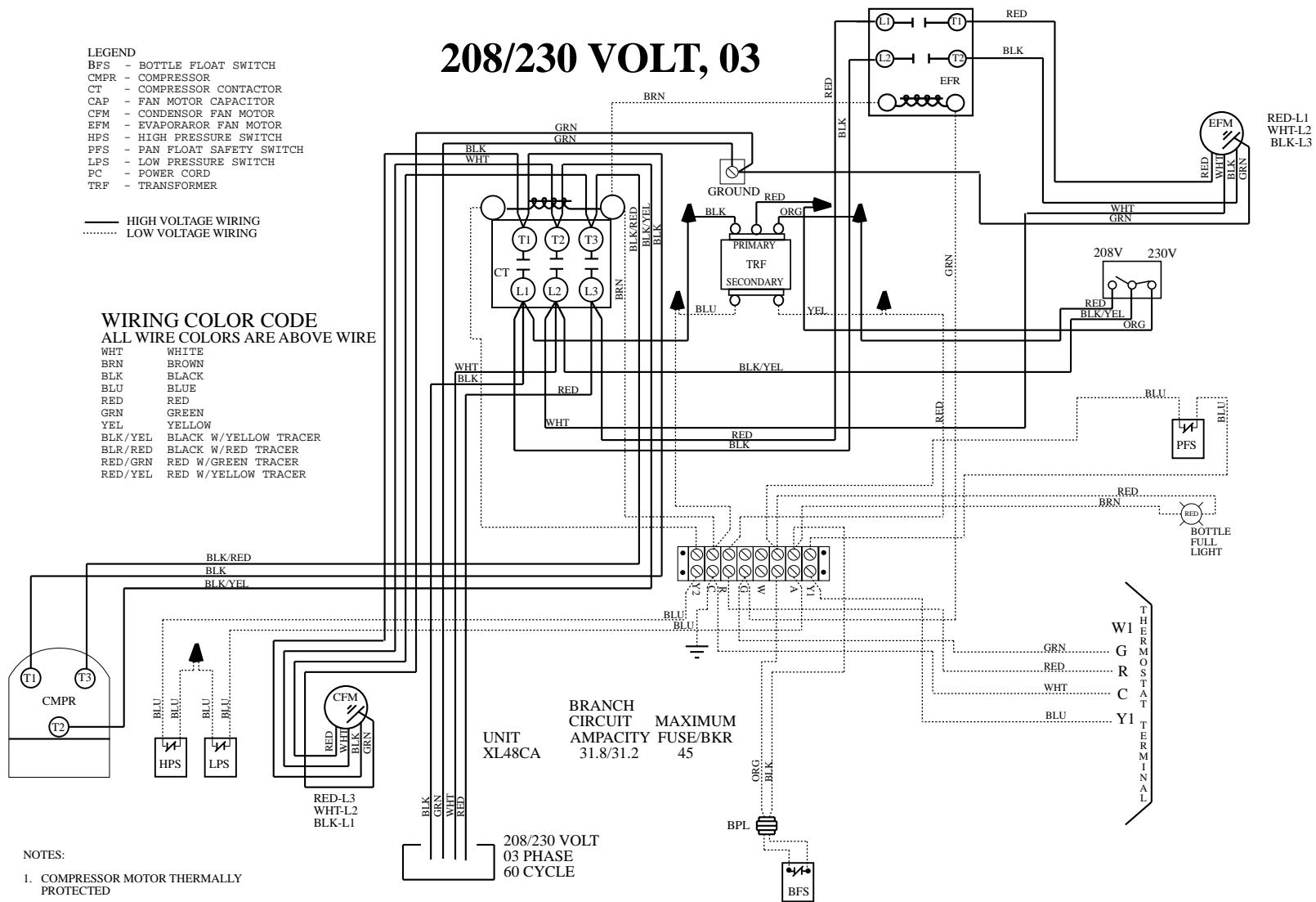
- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CAP - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EFM - EVAPORATOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOAT SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 ..... LOW VOLTAGE WIRING

**WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- BLK/YEL BLACK W/YELLOW TRACER
- BLR/RED BLACK W/RED TRACER
- RED/GRN RED W/GREEN TRACER
- RED/YEL RED W/YELLOW TRACER

**208/230 VOLT, 03**



**NOTES:**

1. COMPRESSOR MOTOR THERMALLY PROTECTED
2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; RED TO L3; GRN TO GROUND LUG
3. UNIT IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS

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FOR USE WITH MODELS:  
 XL48-CA  
 SCROLL

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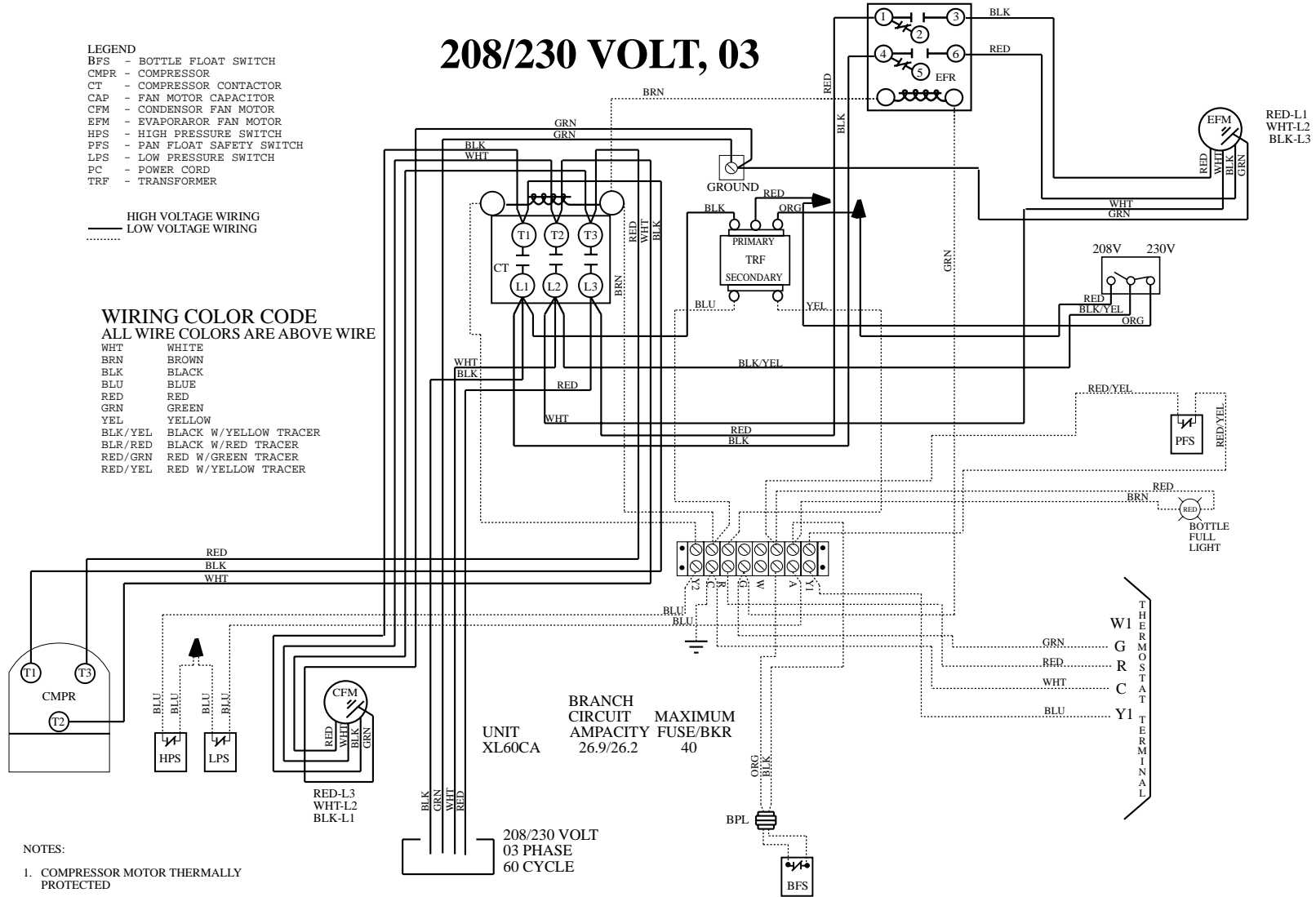
# 208/230 VOLT, 03

- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR CONTACTOR
  - CT - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EFM - EVAPORATOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOAT SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

———— HIGH VOLTAGE WIRING  
 ..... LOW VOLTAGE WIRING

**WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- BLK/YEL BLACK W/YELLOW TRACER
- BLK/RED BLACK W/RED TRACER
- RED/GRN RED W/GREEN TRACER
- RED/YEL RED W/YELLOW TRACER



**NOTES:**

1. COMPRESSOR MOTOR THERMALLY PROTECTED
2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; RED TO L3; GRN TO GROUND LUG
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FOR USE WITH MODELS:  
 XL60-CA  
 SCROLL

**WARNING**  
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 WARRANTY

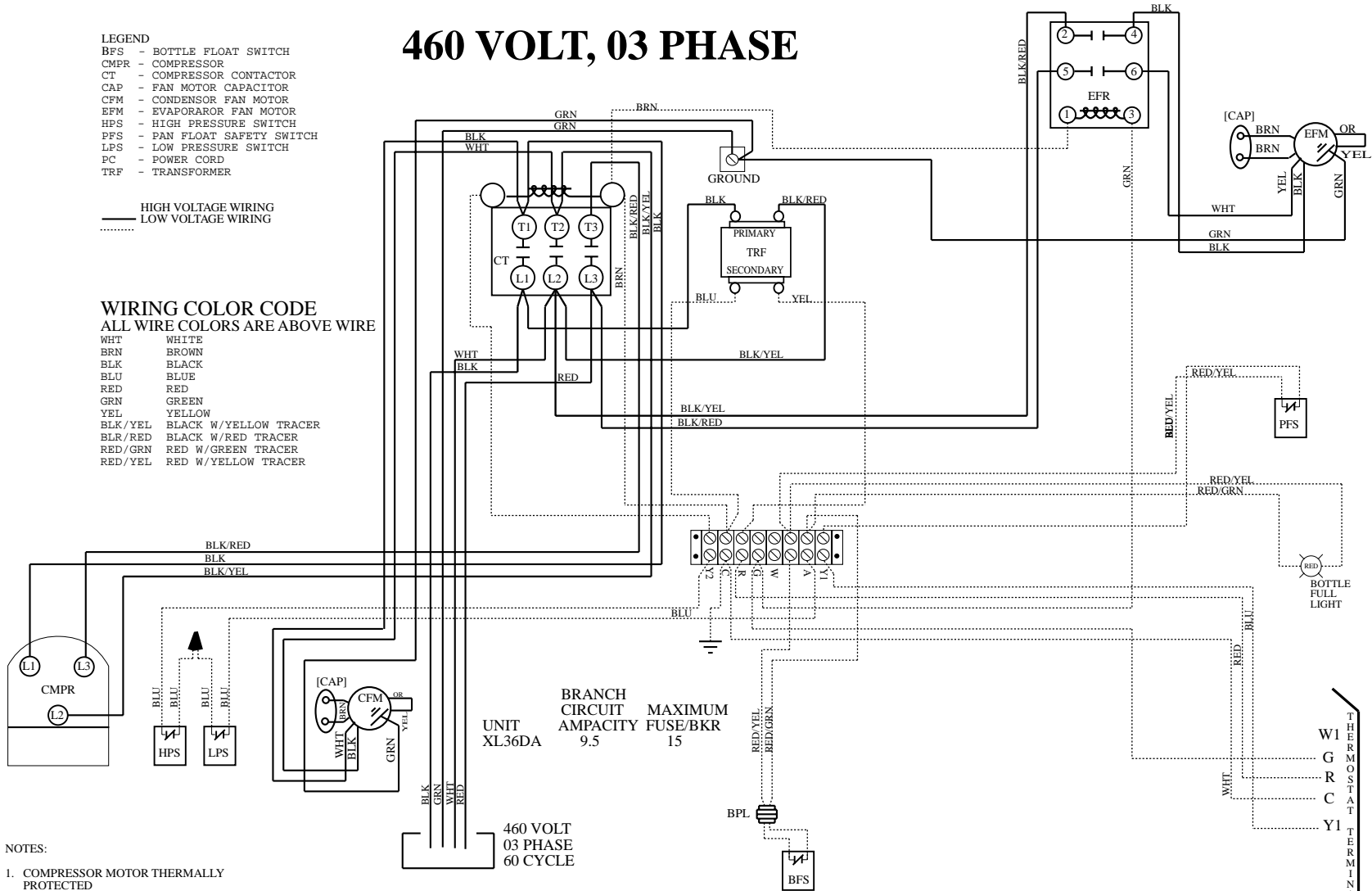
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# 460 VOLT, 03 PHASE

- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CAP - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EFM - EVAPORATOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOAT SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 ..... LOW VOLTAGE WIRING

- WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE
- WHT WHITE
  - BRN BROWN
  - BLK BLACK
  - BLU BLUE
  - RED RED
  - GRN GREEN
  - YEL YELLOW
  - BLK/YEL BLACK W/YELLOW TRACER
  - BLR/RED BLACK W/RED TRACER
  - RED/GRN RED W/GREEN TRACER
  - RED/YEL RED W/YELLOW TRACER



BRANCH  
 CIRCUIT MAXIMUM  
 UNIT AMPACITY FUSE/BKR  
 XL36DA 9.5 15

460 VOLT  
 03 PHASE  
 60 CYCLE

**NOTES:**

1. COMPRESSOR MOTOR THERMALLY PROTECTED
2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; RED TO L3; GRN TO GROUND LUG
3. UNIT IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS

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FOR USE WITH MODELS:

XL36DA

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 WARRANTY

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 COMPANY

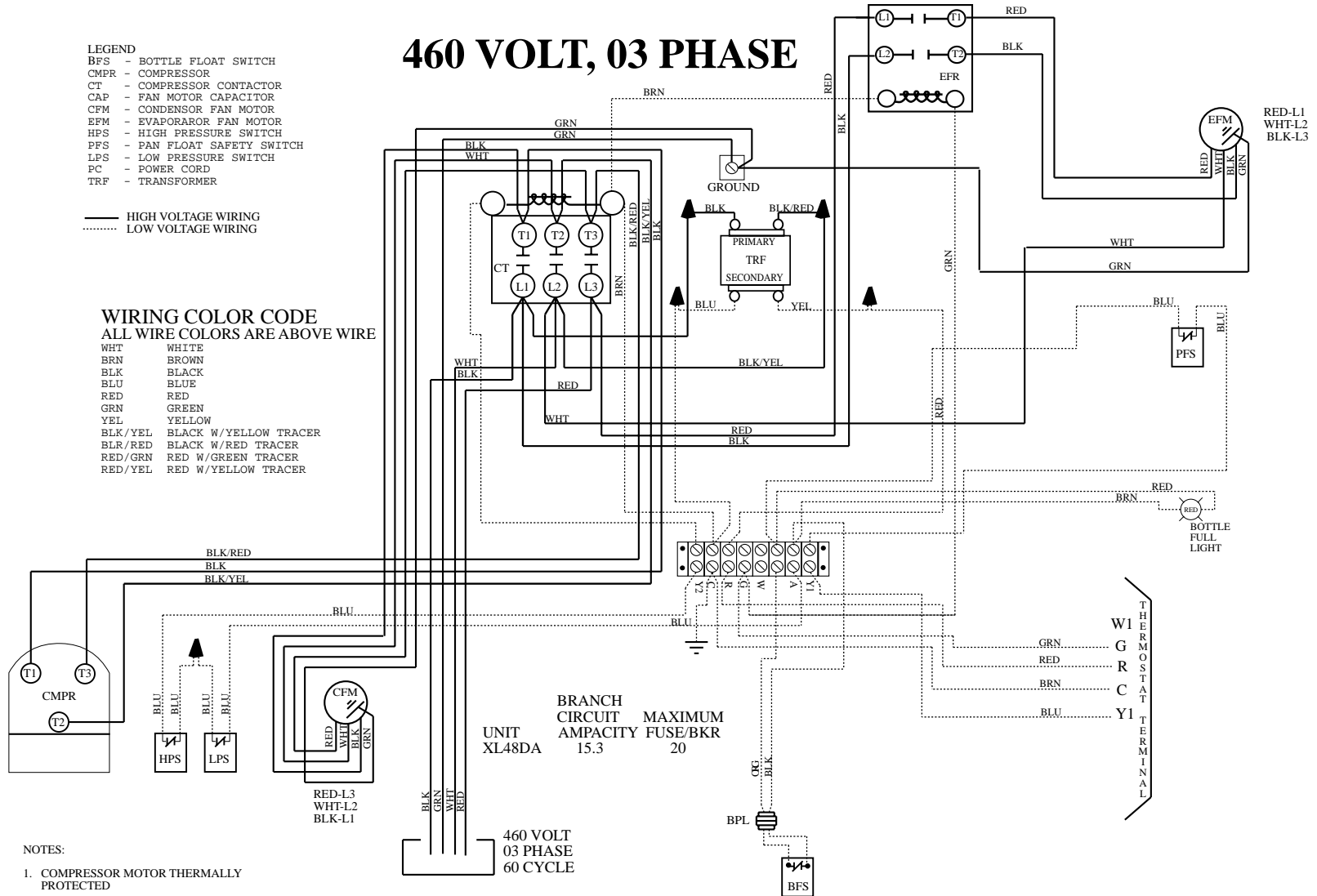
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 TYLER, TEXAS 75708

# 460 VOLT, 03 PHASE

- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CAP - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EFM - EVAPORATOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOAT SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 ..... LOW VOLTAGE WIRING

- WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE
- WHT WHITE
  - BRN BROWN
  - BLK BLACK
  - BLU BLUE
  - RED RED
  - GRN GREEN
  - YEL YELLOW
  - BLK/YEL BLACK W/YELLOW TRACER
  - BLK/RED BLACK W/RED TRACER
  - RED/GRN RED W/GREEN TRACER
  - RED/YEL RED W/YELLOW TRACER



- NOTES:**
1. COMPRESSOR MOTOR THERMALLY PROTECTED
  2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; RED TO L3; GRN TO GROUND LUG
  3. UNIT IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS

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# 460 VOLT, 03 PHASE

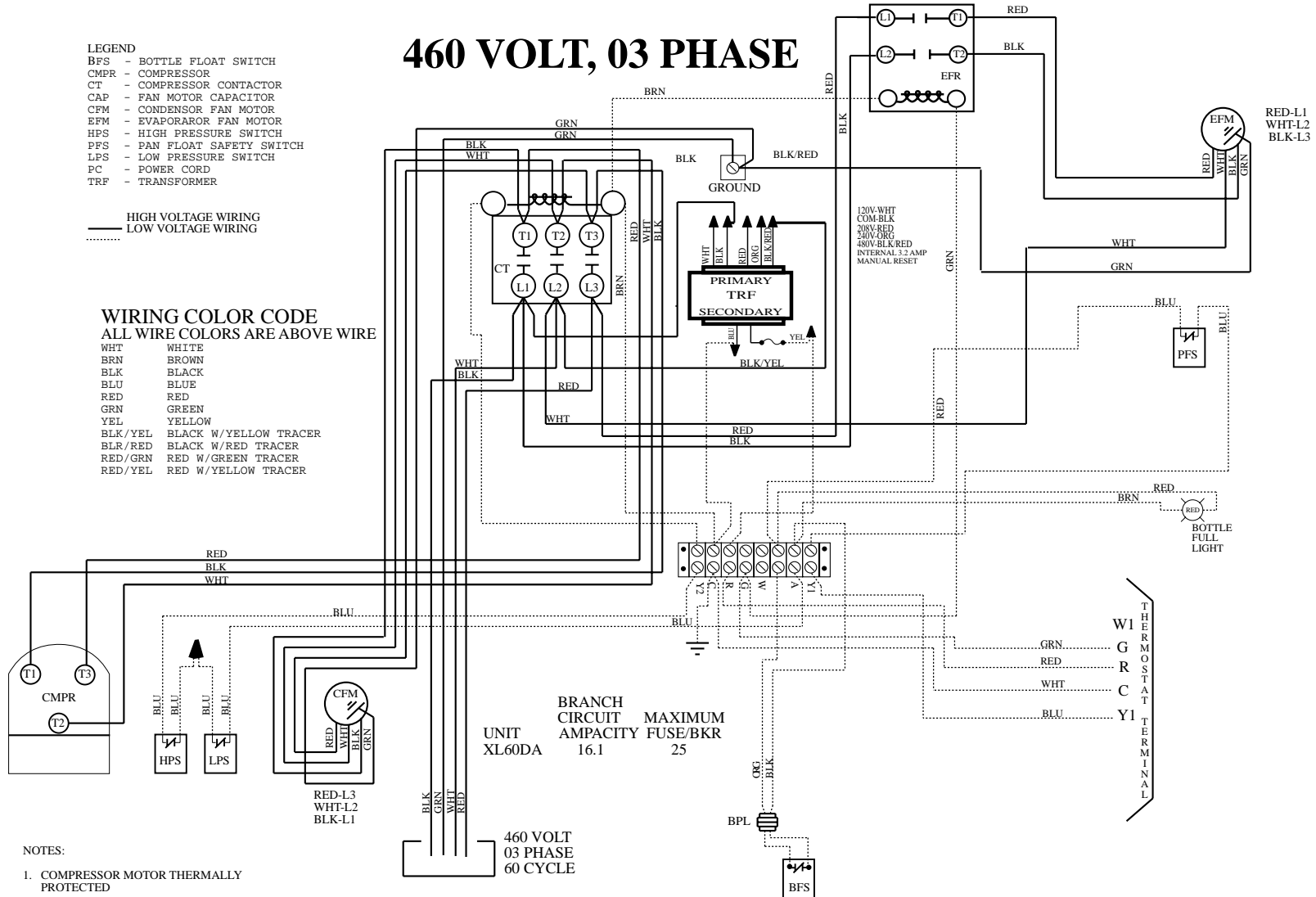
- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CAP - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EFM - EVAPORATOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOAT SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 ..... LOW VOLTAGE WIRING

## WIRING COLOR CODE

ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- BLK/YEL BLACK W/YELLOW TRACER
- BLR/RED BLACK W/RED TRACER
- RED/GRN RED W/GREEN TRACER
- RED/YEL RED W/YELLOW TRACER



**NOTES:**

1. COMPRESSOR MOTOR THERMALLY PROTECTED
2. POWER CABLE CONNECTS TO COMPRESSOR CONTACTOR AS FOLLOWS: BLK TO L1; WHT TO L2; RED TO L3; GRN TO GROUND LUG
3. UNIT IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS

UNIT	BRANCH CIRCUIT	MAXIMUM AMPACITY	FUSE/BKR
XL60DA	16.1	25	

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FOR USE WITH MODELS:  
 XL60-DA  
 SCROLL

**WARNING**  
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 VOID  
 WARRANTY

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 COMPANY  
 EAST TEXAS CENTER  
 ROUTE 1, BOX 280  
 TYLER, TEXAS 75708

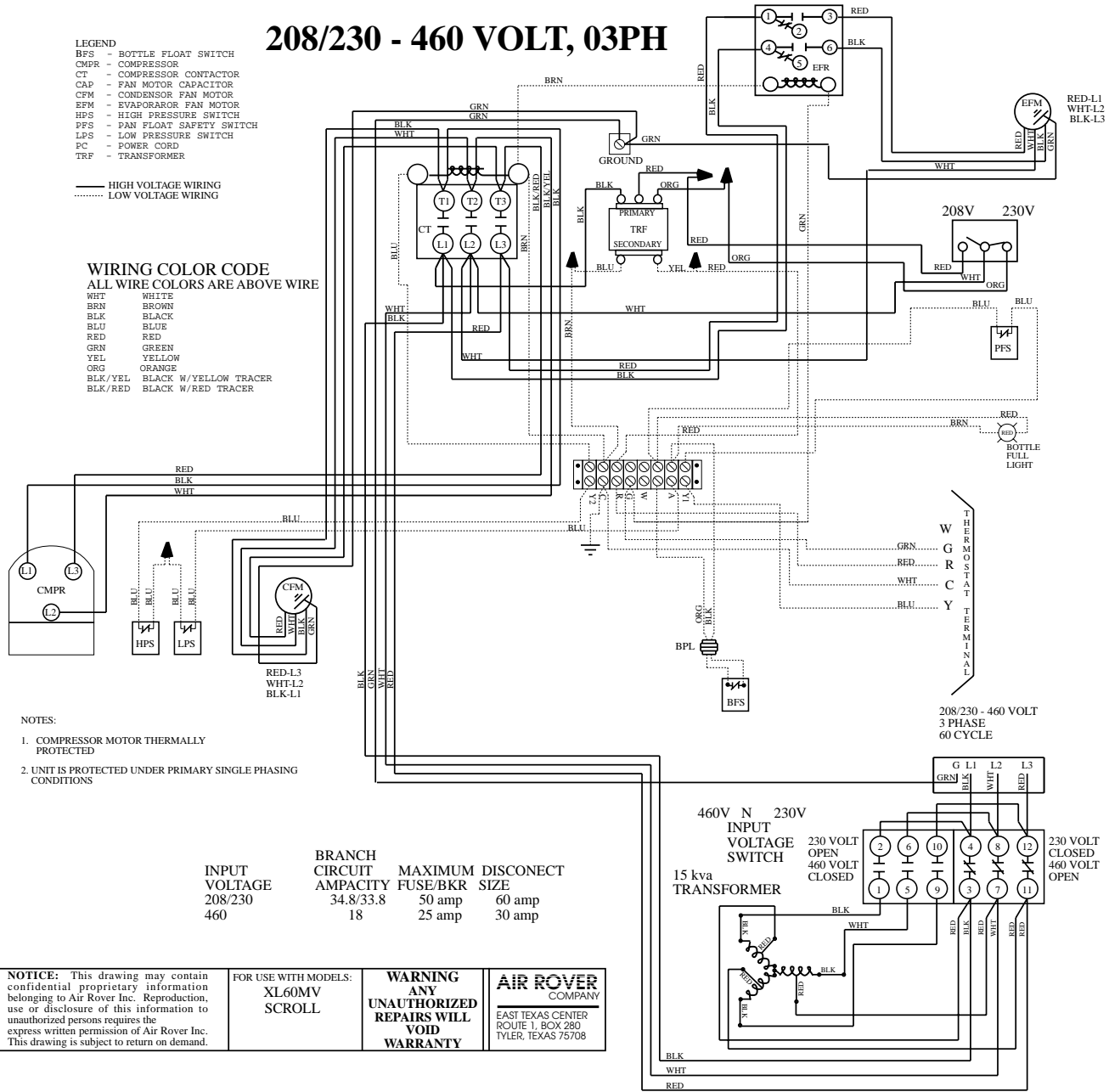
# 208/230 - 460 VOLT, 03PH

- LEGEND**
- BFS - BOTTLE FLOAT SWITCH
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CAP - FAN MOTOR CAPACITOR
  - CFM - CONDENSOR FAN MOTOR
  - EFM - EVAPORATOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - PFS - PAN FLOAT SAFETY SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PC - POWER CORD
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
 ..... LOW VOLTAGE WIRING

**WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- ORG ORANGE
- BLK/YEL BLACK W/YELLOW TRACER
- BLK/RED BLACK W/RED TRACER



- NOTES:**
1. COMPRESSOR MOTOR THERMALLY PROTECTED
  2. UNIT IS PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS

INPUT VOLTAGE	BRANCH CIRCUIT AMPACITY	MAXIMUM FUSE/BKR SIZE	DISCONNECT SIZE
208/230	34.8/33.8	50 amp	60 amp
460	18	25 amp	30 amp

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# 208/230 VOLT, 3 PHASE

UNIT  
XL120CA

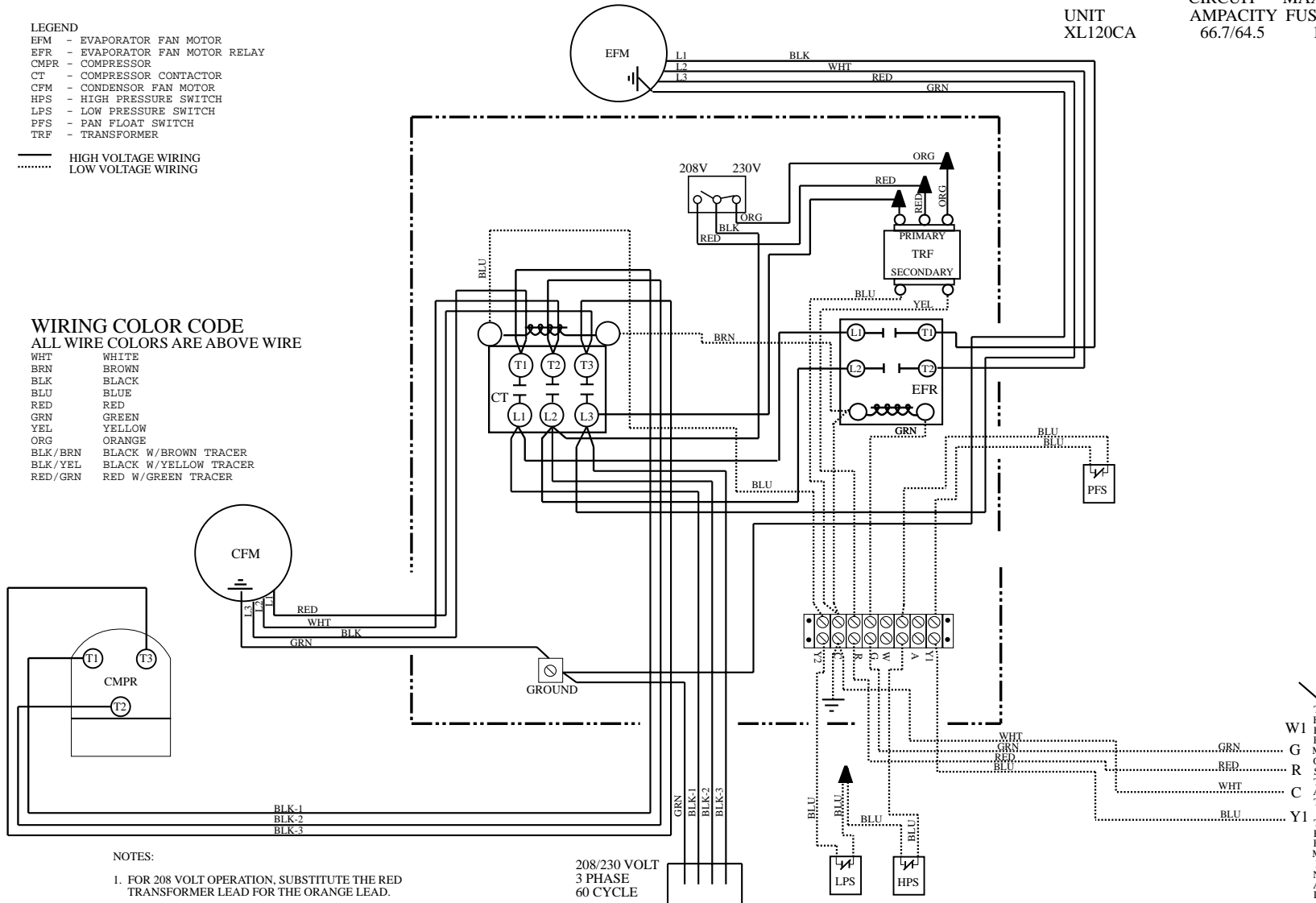
BRANCH  
CIRCUIT  
AMPACITY 66.7/64.5  
MAXIMUM  
FUSE/BKR 100

- LEGEND**
- EFM - EVAPORATOR FAN MOTOR
  - EFR - EVAPORATOR FAN MOTOR RELAY
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CFM - CONDENSOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PFS - PAN FLOAT SWITCH
  - TRF - TRANSFORMER

———— HIGH VOLTAGE WIRING  
 ..... LOW VOLTAGE WIRING

**WIRING COLOR CODE**  
 ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- ORG ORANGE
- BLK/BRN BLACK W/BROWN TRACER
- BLK/YEL BLACK W/YELLOW TRACER
- RED/GRN RED W/GREEN TRACER



**NOTES:**

1. FOR 208 VOLT OPERATION, SUBSTITUTE THE RED TRANSFORMER LEAD FOR THE ORANGE LEAD.
2. TRANSFORMER HAS MANUAL RESET LOW VOLTAGE CIRCUIT BREAKER
3. COMPRESSOR MOTOR THERMALLY PROTECTED.

208/230 VOLT  
 3 PHASE  
 60 CYCLE

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FOR USE WITH MODELS:

**XL120CA  
 SCROLL**

**WARNING  
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 REPAIRS WILL  
 VOID  
 WARRANTY**

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EAST TEXAS CENTER  
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# 460 VOLT, 3 PHASE

UNIT  
XL120DA

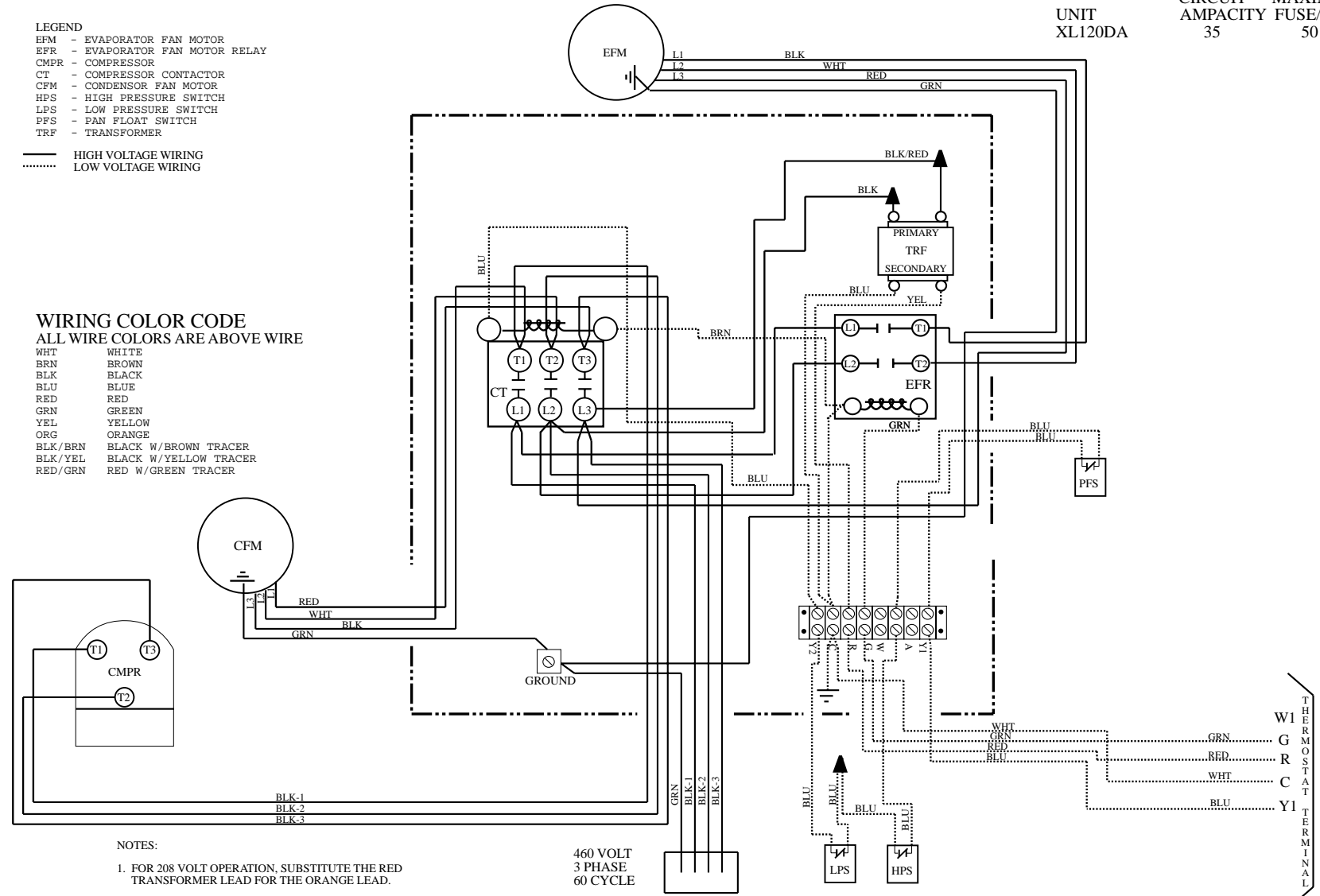
BRANCH  
CIRCUIT  
AMPACITY 35  
MAXIMUM  
FUSE/BKR 50

- LEGEND**
- EFM - EVAPORATOR FAN MOTOR
  - EFR - EVAPORATOR FAN MOTOR RELAY
  - CMPR - COMPRESSOR
  - CT - COMPRESSOR CONTACTOR
  - CFM - CONDENSOR FAN MOTOR
  - HPS - HIGH PRESSURE SWITCH
  - LPS - LOW PRESSURE SWITCH
  - PFS - PAN FLOAT SWITCH
  - TRF - TRANSFORMER

— HIGH VOLTAGE WIRING  
- - - - - LOW VOLTAGE WIRING

**WIRING COLOR CODE**  
ALL WIRE COLORS ARE ABOVE WIRE

- WHT WHITE
- BRN BROWN
- BLK BLACK
- BLU BLUE
- RED RED
- GRN GREEN
- YEL YELLOW
- ORG ORANGE
- BLK/BRN BLACK W/BROWN TRACER
- BLK/YEL BLACK W/YELLOW TRACER
- RED/GRN RED W/GREEN TRACER



- NOTES:**
1. FOR 208 VOLT OPERATION, SUBSTITUTE THE RED TRANSFORMER LEAD FOR THE ORANGE LEAD.
  2. TRANSFORMER HAS MANUAL RESET LOW VOLTAGE CIRCUIT BREAKER
  3. COMPRESSOR MOTOR THERMALLY PROTECTED.

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FOR USE WITH MODELS:  
**XL120DA**  
**SCROLL**

**WARNING**  
ANY  
**UNAUTHORIZED**  
REPAIRS WILL  
VOID  
**WARRANTY**

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TYLER, TEXAS 75708

# PARTS LIST

# 7

The following pages contain the Parts Lists for the XL series model numbers:

Model	Description	Page No.
XL11AA	115 VAC, Single Phase .....	.48
XL14AB	115 VAC, Single Phase .....	.49
XL18AB	115VAC, Single Phase .....	.50
XL22AB	115 VAC, Single Phase .....	.51
XL24BA	208/230 VAC, Single Phase .....	.52
XL36BA	208/230 VAC, Single Phase .....	.53
XL48BA	208/230 VAC, Single Phase .....	.54
XL60BA	208/230 VAC, Single Phase .....	.55
XL36CA	208/230 VAC, Three Phase .....	.56
XL48CA	208/230 VAC, Three Phase .....	.57
XL60CA	208/230 VAC, Three Phase .....	.58
XL36DA	460 VAC, Three Phase .....	.59
XL48DA	460 VAC, Three Phase .....	.60
XL60DA	460 VAC, Three Phase .....	.61
XL60MV	208/230/460 VAC, Three Phase .....	.62
XL120CA	208/230 VAC, Three Phase .....	.63
XL120DA	460 VAC, Three Phase .....	.64



Table A-1

## XL11AA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1			
2	1 EA	Condenser Blower	01-0020
3	1 EA	Evaporator Blower	01-0051
4	1 EA	Condenser Coil	02-0084
5	1 EA	Evaporator Coil	02-0168
6	1 EA	Compressor	03-0233
7	2 EA	Run Capacitor, 12005 (Evap)	04-0001
8	1 EA	Run Capacitor, 12021	04-0008
9	1 EA	Contactator, 91321	04-0034
10	1 EA	Relay, 820ARR3B09	04-0051
11	1 EA	Transformer, 50354	04-0055
12	1 EA	Condenser Motor	06-0001
13	1 EA	Evaporator Motor	06-0004
14	1 EA	Copper Tubing Kit	07-0100
15	1 EA	Evaporator Metal Filter	09-0002
16	1 EA	Condenser Filter	09-0005
17	2 EA	3" Caster W/O Brake	10-0001
18	2 EA	3" Caster W/ Brake	10-0002
19	4 EA	Chrome Grab Handle	10-0005
20	1 EA	Thermostat, (All Units)	13-0034
21	1 EA	Sight Glass PSG35	17-0001
22	1 EA	Copper Drier, 1638	17-0002
23	1 EA	Expansion Valve	17-0005
24	1 EA	Hot Gas Bypass Valve	17-0015
25	2 EA	Service Port W/Stem	17-0035
26	1 EA	Return Air Grill	18-0001
27	1 EA	Drain Pan Float Switch	20-0001
28	1 EA	Low Pressure Switch	20-0008
29	1 EA	High Pressure Switch	20-0009
30	1 EA	Ground Lug	22-0001
31	2 EA	Capacitor Cap	22-0014
32	2 EA	Self Adh Cable Tie Mount	22-0018
33	1 EA	Low Voltage Terminal Block	22-0030
34	LBS	Refrigerant	23-0001
35	1 EA	CB Cap	25-0001
36	4 EA	CB Corner	25-0005
37	2 EA	Motor Mount	33-0001
38	1 EA	Red Light	35-0002
39	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-2

## XL14AB PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0020
2	1 EA	Evaporator Blower	01-0051
3	1 EA	Condenser Coil	02-0084
4	1 EA	Evaporator Coil	02-0168
5	1 EA	Compressor	03-0230
6	2 EA	Run Capacitor, 12005 (Evap)	04-0001
7	1 EA	Run Capacitor, 12015	04-0003
8	1 EA	Contactator, 91321	04-0034
9	1 EA	Relay, 90360	04-0042
10	1 EA	Transformer, 50354	04-0055
11	1 EA	Condenser Motor	06-0001
12	1 EA	Evaporator Motor	06-0008
13	1 EA	Copper Tubing Kit	07-0101
14	1 EA	Evaporator Metal Filter	09-0002
15	1 EA	Condenser Filter	09-0005
16	2 EA	3" Caster W/O Brake	10-0001
17	2 EA	3" Caster W/Brake	10-0002
18	4 EA	Chrome Grab Handle	10-0005
19	1 EA	Thermostat, (All Units)	13-0034
20	1 EA	Sight Glass PSG35	17-0001
21	1 EA	Copper Drier, 1638	17-0002
22	1 EA	Expansion Valve	17-0005
23	1 EA	Hot Gas Bypass Valve	17-0015
24	2 EA	Service Port W/Stem	17-0035
25	1 EA	Return Air Grill	18-0001
26	1 EA	Drain Pan Float Switch	20-0001
27	1 EA	Low Pressure Switch	20-0008
28	1 EA	High Pressure Switch	20-0009
29	1 EA	Ground Lug	22-0001
30	2 EA	Capacitor Cap	22-0014
31	2 EA	Self Adh Cable Tie Mount,	22-0018
32	1 EA	Low Voltage Terminal Block	22-0030
33	LBS	Refrigerant R-22	23-0001
34	1 EA	CB Cap	25-0001
35	4 EA	CB Corner	25-0005
36	2 EA	Motor Mount	33-0001
37	1 EA	Red Light	35-0002
38	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-3

## XL18AB PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0020
2	1 EA	Evaporator Blower	01-0048
3	1 EA	Evaporator Coil	02-0085
4	1 EA	Condenser Coil	02-0186
5	1 EA	Compressor	03-0231
6	2 EA	Run Capacitor, 12005 (Evap)	04-0001
7	1 EA	Run Capacitor, 12023	04-0010
8	1 EA	Contactator, 91321	04-0034
9	1 EA	Relay, 90360	04-0042
10	1 EA	Transformer, 50354	04-0055
11	1 EA	Evaporator Motor	06-0008
12	1 EA	Condenser Motor	06-0018
13	1 EA	Copper Tubing Kit	07-0108
14	1 EA	Evaporator Metal Filter	09-0002
15	1 EA	Condenser Filter	09-0011
16	2 EA	3" Caster W/O Brake	10-0001
17	2 EA	3" Caster W/ Brake	10-0002
18	4 EA	Chrome Grab Handle	10-0005
19	1 EA	Thermostat, (All Units)	13-0034
20	1 EA	Sight Glass PSG35	17-0001
21	1 EA	Copper Drier, 1638	17-1062
22	1 EA	Expansion Valve	17-0005
23	1 EA	Hot Gas Bypass Valve	17-0018
24	2 EA	Service Port W/Stem	17-0035
25	1 EA	Return Air Grill	18-0001
26	1 EA	Drain Pan Float Switch	20-0001
27	1 EA	Low Pressure Switch	20-0008
28	1 EA	High Pressure Switch	20-0009
29	1 EA	Ground Lug	22-0001
30	2 EA	Capacitor Cap	22-0014
31	2 EA	Self Adh Cable Tie Mount,	22-0018
32	1 EA	Low Voltage Terminal Block	22-0030
33	LBS	Refrigerant	23-0001
34	1 EA	CB Cap	25-0001
35	4 EA	CB Corner	25-0005
36	1 EA	5 Gallon Condensate Bottle	28-0010
37	2 EA	Motor Mount	33-0001
38	1 EA	Red Light	35-0002
39	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-4

## XL22AB PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0024
2	1 EA	Evaporator Blower	01-0048
3	1 EA	Condenser Coil	02-0040
4	1 EA	Evaporator Coil	02-0172
5	1 EA	Compressor	03-0439
6	2 EA	Run Capacitor, 12005 (Evap)	04-0001
7	1 EA	Run Capacitor, 12018	04-0006
8	1 EA	Contactator, 91321	04-0034
9	1 EA	Relay, 90360	04-0042
10	1 EA	Transformer, 50354	04-0055
11	1 EA	Transformer, 2.5KVA	04-0089
12	1 EA	Condenser Motor	06-0001
13	1 EA	Evaporator Motor	06-0008
14	1 EA	Copper Tubing Kit	07-0100
15	1 EA	Evaporator Metal Filter	09-0004
16	1 EA	Condenser Filter	09-0006
17	2 EA	3" Caster W/O Brake	10-0001
18	2 EA	3" Caster W/ Brake	10-0002
19	4 EA	Chrome Grab Handle	10-0005
20	1 EA	Thermostat, (All Units)	13-0034
21	1 EA	Sight Glass PSG35	17-0001
22	1 EA	Copper Drier, 1638	17-0002
23	1 EA	Expansion Valve	17-0006
24	1 EA	Hot Gas Bypass Valve	17-1068
25	1 EA	Service Port W/Stem	17-0035
26	1 EA	Return Air Grill	18-0002
27	1 EA	Drain Pan Float Switch	20-0001
28	1 EA	Low Pressure Switch	20-0008
29	1 EA	High Pressure Switch	20-0009
30	1 EA	Ground Lug	22-0001
31	2 EA	Capacitor Cap	22-0014
32	2 EA	Self Adh Cable Tie Mount	22-0018
33	1 EA	Low Voltage Terminal Block	22-0030
34	LBS	Refrigerant R-22	23-0001
35	1 EA	CB Corner	25-0005
36	4 EA	CB Cap	25-0012
37	2 EA	Motor Mount	33-0001
38	1 EA	Red Light	35-0002
39	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-5

## XL24BA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0024
2	1 EA	Evaporator Blower	01-0048
3	1 EA	Condenser Coil	02-0040
4	1 EA	Evaporator Coil	02-0172
5	1 EA	Compressor	03-0224
6	2 EA	Run Capacitor, 12005 (Evap)	04-0001
7	1 EA	Run Capacitor, 12018	04-0007
8	1 EA	Contactator, 91321	04-0034
9	1 EA	Relay, 90360	04-0042
10	1 EA	Transformer, 50354	04-0055
11	1 EA	Condenser Motor	06-0001
12	1 EA	Evaporator Motor	06-0008
13	1 EA	Copper Tubing Kit	07-0102
14	1 EA	Evaporator Metal Filter	09-0004
15	1 EA	Condenser Filter	09-0006
16	2 EA	3" Caster W/O Brake	10-0001
17	2 EA	3" Caster W/ Brake	10-0002
18	4 EA	Chrome Grab Handle	10-0005
19	1 EA	Thermostat, (All Units)	13-0034
20	1 EA	Sight Glass PSG35	17-0001
21	1 EA	Copper Drier, 1638	17-0002
22	1 EA	Expansion Valve	17-0006
23	1 EA	Hot Gas Bypass Valve	17-1068
24	1 EA	Service Port W/Stem	17-0035
25	1 EA	Return Air Grill	18-0002
26	1 EA	Drain Pan Float Switch	20-0001
27	1 EA	Rocker Switch	20-0006
28	1 EA	Low Pressure Switch	20-0008
29	1 EA	High Pressure Switch	20-0009
30	1 EA	Ground Lug	22-0001
31	2 EA	Capacitor Cap	22-0014
32	2 EA	Self Adh Cable Tie Mount	22-0018
33	1 EA	Low Voltage Terminal Block	22-0030
34	LBS	Refrigerant R-22	23-0001
35	1 EA	CB Corner	25-0005
36	4 EA	CB Cap	25-0012
37	2 EA	Motor Mount	33-0001
38	1 EA	Red Light	35-0002
39	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-6

## XL36BA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0028
2	1 EA	Evaporator Blower	01-0012
3	1 EA	Condenser Coil	02-0068
4	1 EA	Evaporator Coil	02-0184
5	1 EA	Compressor	03-0228
6	2 EA	Run Capacitor, 12005 (Evap.)	04-0001
7	1 EA	Run Capacitor, 12008 (Condenser)	04-0002
8	1 EA	Contactator, 91321	04-0034
9	1 EA	Relay, 90360	04-0042
10	1 EA	Transformer, 50354	04-0055
11	1 EA	Condenser Motor	06-0002
12	1 EA	Evaporator Motor	06-0008
13	1 EA	Copper Tubing Kit	07-0104
14	1 EA	Evaporator Metal Filter	09-0001
15	1 EA	Condenser Filter	09-0007
16	2 EA	3" Caster W/O Brake	10-0001
17	2 EA	3" Caster W/ Brake	10-0002
18	4 EA	Chrome Grab Handle	10-0005
19	1 EA	Thermostat, (All Units)	13-0034
20	1 EA	Sight Glass PSG35	17-0001
21	1 EA	Copper Drier, 1638	17-0002
22	1 EA	Expansion Valve	17-0006
23	1 EA	Hot Gas Bypass Valve	17-0016
24	1 EA	Service Port W/Stem	17-0035
25	1 EA	Return Air Grill	18-0003
26	1 EA	Drain Pan Float Switch	20-0001
27	1 EA	Low Pressure Switch	20-0008
28	1 EA	High Pressure Switch	20-0009
29	1 EA	Ground Lug	22-0001
30	2 EA	Capacitor Cap	22-0014
31	2 EA	Self Adh Cable Tie Mount	22-0018
32	1 EA	Low Voltage Terminal Block	22-0030
33	LBS	Refrigerant R-22	23-0001
34	1 EA	CB Cap	25-0002
35	4 EA	CB Corner	25-0005
36	2 EA	Motor Mount 3M147 (Evap)	33-0001
37	2 EA	Motor Mount	33-0011
38	1 EA	Red Light	35-0002
39	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-7

## XL48BA PARTS LIST

	Qty. Used	Description	Part No.
1	1 EA	Evaporator Blower	01-0036
2	1 EA	Condenser Blower	01-0032
3	1 EA	Condenser Coil	02-0056
4	1 EA	Evaporator Coil	02-0176
5	1 EA	Compressor	03-0410
6	2 EA	Run Capacitor, 12005 (Evap.)	04-0001
7	1 EA	Run Capacitor, 12008 (Condenser)	04-0002
8	1 EA	Contactora, 91331	04-0033
9	1 EA	Relay, 90360	04-0041
10	1 EA	Relay, 16099 or 04-0001-34	04-0048
11	1 EA	Transformer, 50354	04-0055
12	1 EA	Condenser Motor	06-0005
13	1 EA	Evaporator Motor	06-0007
14	1 EA	Copper Tubing Kit	07-0105
15	1 EA	Evaporator Metal Filter	09-0003
16	1 EA	Condenser Filter	09-0008
17	2 EA	4" Caster W/O Brake	10-0003
18	2 EA	4" Caster W/ Brake	10-0004
19	4 EA	Chrome Grab Handle	10-0005
20	1 EA	Thermostat, (All Units)	13-0034
21	2 EA	Evaporator Motor Pulley, 8350	16-0001
22	2 EA	Pulley, AC50 X 3/4"	16-0004
23	2 EA	Pulley, Fenner	16-0005
24	1 EA	Belt, 4L390/A37	16-0007
25	1 EA	Belt, 4L370/A35	16-0008
26	1 EA	Evaporator Blower Pulley, AC10 X 3/4"	16-0009
27	1 EA	Sight Glass PSG35	17-0001
28	1 EA	Copper Drier, C-163-S	17-0003
29	1 EA	Expansion Valve	17-0008
30	1 EA	Hot Gas Bypass Valve	17-0016
31	1 EA	Service Port W/Stem	17-0035
32	1 EA	Return Air Grill	18-0004
33	1 EA	Drain Pan Float Switch	20-0001
34	1 EA	Rocker Switch, SS1205-BG	20-0006
35	1 EA	Low Pressure Switch	20-0008
36	1 EA	High Pressure Switch	20-0009
37	1 EA	Ground Lug	22-0001
38	2 EA	Capacitor Cap	22-0014
39	2 EA	Self Adh Cable Tie Mount	22-0018
40	1 EA	Low Voltage Terminal Block	22-0030
41	LBS	Refrigerant R-22	23-0001
42	4 EA	CB Corner	25-0005
43	1 EA	CB Cap	25-0009
44	2 EA	Motor Mount 3M147 (Evap)	33-0001
45	1 EA	Red Light	35-0002
46	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-8

## XL60BA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0032
2	1 EA	Evaporator Blower	01-0036
3	1 EA	Condenser Coil	02-0056
4	1 EA	Evaporator Coil	02-0176
5	1 EA	Compressor	03-0410
6	2 EA	Run Capacitor, 12050	04-0014
7	1 EA	Contactoer, 91331	04-0033
8	1 EA	Relay, 16099 or 04-0001-034	04-0048
9	1 EA	Transformer, 50354	04-0055
10	1 EA	Condenser Motor	06-0005
11	1 EA	Evaporator Motor	06-0007
12	1 EA	Copper Tubing Kit	07-0105
13	1 EA	Evaporator Metal Filter	09-0003
14	1 EA	Condenser Filter	09-0008
15	2 EA	4" Caster W/O Brake	10-0003
16	2 EA	4" Caster W/ Brake	10-0004
17	4 EA	Chrome Grab Handle	10-0005
18	1 EA	Thermostat, (All Units)	13-0034
19	2 EA	Evaporator Motor Pulley, 8350	16-0001
20	1 EA	Fenner Pulley	16-0004
21	1 EA	AC50 X 3/4" Pulley	16-0005
22	1 EA	Belt	16-0007
23	1 EA	Belt	16-0008
24	1 EA	Evaporator Blower Pulley, AC60 X 3/4"	16-0009
25	1 EA	Sight Glass PSG35	17-0001
26	1 EA	Copper Drier, C-163-S	17-0003
27	1 EA	Expansion Valve	17-0008
28	1 EA	Hot Gas Bypass Valve	17-0016
29	1 EA	Service Port W/Stem	17-0035
30	1 EA	Return Air Grill	18-0004
31	1 EA	Drain Pan Float Switch	20-0001
32	1 EA	Rocker Switch, SS1205-BG	20-0006
33	1 EA	Low Pressure Switch	20-0008
34	1 EA	High Pressure Switch	20-0009
35	1 EA	Ground Lug	22-0001
36	2 EA	Capacitor Cap	22-0014
37	2 EA	Self Adh Cable Tie Mount	22-0018
38	1 EA	Low Voltage Terminal Block	22-0030
39	LBS	Refrigerant R-22	23-0001
40	4 EA	CB Corner	25-0005
41	1 EA	CB Cap	25-0009
42	2 EA	Motor Mount 3M147 (Evap)	33-0001
43	2 EA	Motor Mount	33-0011
44	1 EA	Red Light	35-0002
45	1 EA	5 Gallon Condensate Bottle Assembly	59-0001



Table A-9

## XL36CA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Evaporator Blower	01-0012
2	1 EA	Condenser Blower	01-0028
3	1 EA	Condenser Coil	02-0068
4	1 EA	Evaporator Coil	02-0184
5	1 EA	Compressor	03-0002
6	1 EA	Contactator, 91231	04-0031
7	1 EA	Relay, 90360	04-0042
8	1 EA	Transformer, 50354	04-0057
9	1 EA	Condenser Motor	06-0002
10	1 EA	Evaporator Motor	06-0008
11	1 EA	Copper Tubing Kit	07-0104
12	1 EA	Evaporator Metal Filter	09-0001
13	1 EA	Condenser Filter	09-0007
14	2 EA	3" Caster W/O Brake	10-0001
15	2 EA	3" Caster W/ Brake	10-0002
16	4 EA	Chrome Grab Handle	10-0005
17	1 EA	Thermostat,, (All Units)	13-0034
18	1 EA	Sight Glass PSG35	17-0001
19	1 EA	Copper Drier, 1638	17-0002
20	1 EA	Expansion Valve	17-0007
21	1 EA	Hot Gas Bypass Valve	17-0016
22	1 EA	Service Port W/Stem	17-0035
23	1 EA	Return Air Grill	18-0003
24	1 EA	Drain Pan Float Switch	20-0001
25	1 EA	Rocker Switch, SS1205-BG	20-0006
26	1 EA	Low Pressure Switch	20-0008
27	1 EA	High Pressure Switch	20-0009
28	1 EA	Ground Lug	22-0001
29	2 EA	Capacitor Cap	22-0014
30	2 EA	Self Adh Cable Tie Mount	22-0018
31	1 EA	Low Voltage Terminal Block	22-0030
32	LBS	Refrigerant R-22	23-0001
33	1 EA	CB Cap	25-0002
34	4 EA	CB Corner	25-0005
35	2 EA	Motor Mount 3M147 (Evap)	33-0001
36	2 EA	Motor Mount	33-0011
37	1 EA	Red Light	35-0002
38	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-10

## XL48CA PARTS LIST

	Qty. Used	Description	Part No.
1	1 EA	Evaporator Blower	01-0032
2	1 EA	Condenser Blower	01-0028
3	1 EA	Condenser Coil	02-0068
4	1 EA	Evaporator Coil	02-0184
5	1 EA	Compressor, SRY682BC5T, Scroll	03-0002
6	1 EA	Contactator, 91231	04-0031
7	1 EA	Relay, 90360	04-0042
8	1 EA	Transformer, 50354	04-0055
9	1 EA	Condenser Motor	06-0002
10	1 EA	Evaporator Motor	06-0008
11	1 EA	Copper Tubing Kit	07-0104
12	1 EA	Evaporator Metal Filter	09-0001
13	1 EA	Condenser Filter	09-0007
14	2 EA	4" Caster W/O Brake	10-0003
15	2 EA	4" Caster W/ Brake	10-0004
16	4 EA	Chrome Grab Handle	10-0005
17	1 EA	Thermostat, (All Units)	13-0034
18	1 EA	Evaporator Motor Pulley , 8350 X 5/8"	16-0001
19	1 EA	Pulley, 8350 X 7/8"	16-0002
20	1 EA	Pulley, AC45 X 3/4"	16-0003
21	2 EA	Pulley, AC50 X 3/4"	16-0004
22	2 EA	Pulley, Fenner	16-0005
23	1 EA	Belt, 4L390/A37	16-0007
24	1 EA	Belt, 4L370/A35	16-0008
25	1 EA	Sight Glass PSG35	17-0001
26	1 EA	Copper Drier, 1638	17-0003
27	1 EA	Expansion Valve	17-0008
28	1 EA	Hot Gas Bypass Valve	17-0016
29	1 EA	Service Port W/Stem	17-0035
30	1 EA	Return Air Grill	18-0004
31	1 EA	Drain Pan Float Switch	20-0001
32	1 EA	Rocker Switch, SS1205-BG	20-0006
33	1 EA	Low Pressure Switch	20-0008
34	1 EA	High Pressure Switch	20-0009
35	1 EA	Ground Lug	22-0001
36	2 EA	Capacitor Cap	22-0014
37	2 EA	Self Adh Cable Tie Mount	22-0018
38	1 EA	Low Voltage Terminal Block	22-0030
39	LBS	Refrigerant R-22	23-0001
40	1 EA	CB Corner	25-0005
41	4 EA	CB Cap	25-0009
42	2 EA	Motor Mount 3M147 (Evap)	33-0001
43	2 EA	Motor Mount	33-0011
44	1 EA	Red Light	35-0002
45	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-11

## XL60CA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0032
2	1 EA	Evaporator Blower	01-0036
3	1 EA	Condenser Coil	02-0056
4	1 EA	Evaporator Coil	02-0176
5	1 EA	Compressor	03-0416
6	1 EA	Contactora, 913231	04-0033
7	1 EA	Relay, 90340	04-0041
8	1 EA	Transformer, 50354	04-0055
9	1 EA	Evaporator Motor	06-0003
10	1 EA	Condenser Motor	06-0006
11	1 EA	Copper Tubing Kit	07-0105
12	1 EA	Evaporator Metal Filter	09-0003
13	1 EA	Condenser Filter	09-0008
14	2 EA	4" Caster W/O Brake	10-0003
15	2 EA	4" Caster W/ Brake	10-0004
16	4 EA	Chrome Grab Handle	10-0005
17	1 EA	Thermostat, (All Units)	13-0034
18	1 EA	Evaporator Motor Pulley , 8350 X 5/8"	16-0001
19	1 EA	Pulley, 8350 X 7/8"	16-0002
20	1 EA	Pulley, AC45 X 3/4"	16-0003
21	2 EA	Pulley, AC50 X 3/4"	16-0004
22	2 EA	Pulley, Fenner	16-0005
23	1 EA	Belt, 4L390/A37	16-0007
24	1 EA	Belt, 4L370/A35	16-0008
25	1 EA	Sight Glass PSG35	17-0001
26	1 EA	Copper Drier, 1638	17-0003
27	1 EA	Expansion Valve	17-0008
28	1 EA	Hot Gas Bypass Valve	17-0016
29	1 EA	Service Port W/Stem	17-0035
30	1 EA	Return Air Grill	18-0004
31	1 EA	Drain Pan Float Switch	20-0001
32	1 EA	Rocker Switch, SS1205-BG	20-0006
33	1 EA	Low Pressure Switch	20-0008
34	1 EA	High Pressure Switch	20-0009
35	1 EA	Ground Lug	22-0001
36	2 EA	Capacitor Cap	22-0014
37	2 EA	Self Adh Cable Tie Mount	22-0018
38	1 EA	Low Voltage Terminal Block	22-0030
39	LBS	Refrigerant R-22	23-0001
40	1 EA	CB Corner	25-0005
41	4 EA	CB Cap	25-0009
42	2 EA	Motor Mount	33-0011
43	1 EA	Red Light	35-0002
44	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-12

## XL36DA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Evaporator Blower	01-0012
2	1 EA	Condenser Blower	01-0028
3	1 EA	Condenser Coil	02-0068
4	1 EA	Evaporator Coil	02-0184
5	1 EA	Compressor	03-0435
6	1 EA	Contactora, 91231	04-0031
7	1 EA	Relay, 90360	04-0042
8	1 EA	Transformer, 50354	04-0055
9	1 EA	Condenser Motor	06-0002
10	1 EA	Evaporator Motor	06-0008
11	1 EA	Copper Tubing Kit	07-0104
12	1 EA	Evaporator Metal Filter	09-0001
13	1 EA	Condenser Filter	09-0007
14	2 EA	3" Caster W/O Brake	10-0001
15	2 EA	3" Caster W/ Brake	10-0002
16	4 EA	Chrome Grab Handle	10-0005
17	1 EA	Thermostat, (All Units)	13-0034
18	1 EA	Sight Glass PSG35	17-0001
19	1 EA	Copper Drier, 1638	17-0002
20	1 EA	Expansion Valve	17-0007
21	1 EA	Hot Gas Bypass Valve	17-0016
22	1 EA	Service Port W/Stem	17-0035
23	1 EA	Return Air Grill	18-0003
24	1 EA	Drain Pan Float Switch	20-0001
25	1 EA	Rocker Switch, SS1205-BG	20-0006
26	1 EA	Low Pressure Switch	20-0008
27	1 EA	High Pressure Switch	20-0009
28	1 EA	Ground Lug	22-0001
29	2 EA	Capacitor Cap	22-0014
30	2 EA	Self Adh Cable Tie Mount	22-0018
31	1 EA	Low Voltage Terminal Block	22-0030
32	LBS	Refrigerant R-22	23-0001
33	1 EA	CB Cap	25-0002
34	4 EA	CB Corner	25-0005
35	1 EA	Motor Mount 3M147 (Evap)	33-0001
36	2 EA	Motor Mount	33-0011
37	1 EA	Red Light	35-0002
38	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-13

## XL48DA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0032
2	1 EA	Evaporator Blower	01-0036
3	1 EA	Condenser Coil	02-0056
4	1 EA	Evaporator Coil	02-0176
5	1 EA	Compressor	03-0420
6	1 EA	Contactora, 91331	04-0033
7	1 EA	Contactora, 91321	04-0032
8	1 EA	Relay, 90360	04-0042
9	1 EA	Transformer, 50326	04-0058
10	1 EA	Evaporator Motor	06-0003
11	1 EA	Condenser Motor	06-0006
12	1 EA	Copper Tubing Kit	07-0105
13	1 EA	Evaporator Metal Filter	09-0003
14	1 EA	Condenser Filter	09-0008
15	2 EA	4" Caster W/O Brake	10-0003
16	2 EA	4" Caster W/ Brake	10-0004
17	4 EA	Chrome Grab Handle	10-0005
18	1 EA	Thermostat, (All Units)	13-0034
19	1 EA	Evaporator Motor Pulley 8350 X 5/8"	16-0001
20	1 EA	Pulley, 8350 X 7/8"	16-0002
21	1 EA	Pulley, AC45 X 3/4"	16-0003
22	2 EA	Pulley, AC50 X 3/4"	16-0004
23	2 EA	Pulley, Fenner	16-0005
24	1 EA	Belt, 4L390/A37	16-0007
25	1 EA	Belt, 4L370/A35	16-0008
26	1 EA	Sight Glass PSG35	17-0001
27	1 EA	Copper Drier, C-163S	17-0003
28	1 EA	Expansion Valve	17-0008
29	1 EA	Hot Gas Bypass Valve	17-0016
30	1 EA	Service Port W/Stem	17-0035
31	1 EA	Return Air Grill	18-0004
32	1 EA	Drain Pan Float Switch	20-0001
33	1 EA	Low Pressure Switch	20-0008
34	1 EA	High Pressure Switch	20-0009
35	1 EA	Ground Lug	22-0001
36	2 EA	Capacitor Cap	22-0014
37	2 EA	Self Adh Cable Tie Mount	22-0018
38	1 EA	Low Voltage Terminal Block	22-0030
39	LBS	Refrigerant R-22	23-0001
40	4 EA	CB Corner	25-0005
41	1 EA	CB Cap	25-0009
42	2 EA	Motor Mount	33-0011
43	1 EA	Red Light	35-0002
44	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-14

## XL60DA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0032
2	1 EA	Evaporator Blower	01-0036
3	1 EA	Condenser Coil	02-0056
4	1 EA	Evaporator Coil	02-0176
5	1 EA	Compressor	03-0410
6	1 EA	Contactora, 91331	04-0033
7	1 EA	Contactora, 91321	04-0034
8	1 EA	Relay, 90360	04-0042
9	1 EA	Transformer, 50326	04-0058
10	1 EA	Evaporator Motor	06-0003
11	1 EA	Condenser Motor	06-0006
12	1 EA	Copper Tubing Kit	07-0105
13	1 EA	Evaporator Metal Filter	09-0003
14	1 EA	Condenser Filter	09-0008
15	2 EA	4" Caster W/O Brake	10-0003
16	2 EA	4" Caster W/ Brake	10-0004
17	4 EA	Chrome Grab Handle	10-0005
18	1 EA	Thermostat, (All Units)	13-0034
19	1 EA	Pulley, 8350 X 7/8"	16-0002
20	1 EA	Pulley, AC45 X 3/4"	16-0003
21	1 EA	Pulley, AC50 X 3/4"	16-0004
22	1 EA	Fenner Pulley, FS0013	16-0005
23	1 EA	Belt, 4L390/A37	16-0007
24	1 EA	Belt, 4L370/A35	16-0008
25	1 EA	Sight Glass PSG35	17-0001
26	1 EA	Copper Drier, C-163-S	17-0003
27	1 EA	Expansion Valve	17-0008
28	1 EA	Hot Gas Bypass Valve	17-0016
29	1 EA	Service Port W/Stem	17-0035
30	1 EA	Return Air Grill	18-0004
31	1 EA	Drain Pan Float Switch	20-0001
32	1 EA	Rocker Switch, SS1205-BG	20-0006
33	1 EA	Low Pressure Switch	20-0008
34	1 EA	High Pressure Switch	20-0009
35	1 EA	Ground Lug	22-0001
36	2 EA	Capacitor Cap	22-0014
37	2 EA	Self Adh Cable Tie Mount	22-0018
38	1 EA	Low Voltage Terminal Block	22-0030
39	LBS	Refrigerant R-22	23-0001
40	1 EA	CB Corner	25-0005
41	4 EA	CB Cap	25-0009
42	4 EA	Motor Mount	33-0011
43	1 EA	Red Light	35-0002
44	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-15

## XL60MV PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Evaporator Blower	01-0012
2	1 EA	Condenser Blower	01-0028
3	1 EA	Condenser Coil	02-0068
4	1 EA	Evaporator Coil	02-0184
5	1 EA	Compressor	03-0435
6	1 EA	Contactator, 91321	04-0031
7	1 EA	Relay, 90360	04-0042
8	1 EA	Transformer, 50354	04-0055
9	1 EA	Condenser Motor	06-0002
10	1 EA	Evaporator Motor	06-0008
11	1 EA	Copper Tubing Kit	07-0104
12	1 EA	Evaporator Metal Filter	09-0001
13	1 EA	Condenser Filter	09-0007
14	2 EA	3" Caster W/O Brake	10-0001
15	2 EA	3" Caster W/ Brake	10-0002
16	4 EA	Chrome Grab Handle	10-0005
17	1 EA	Thermostat, (All Units)	13-0034
18	1 EA	Sight Glass PSG35	17-0001
19	1 EA	Copper Drier, 1638	17-0002
20	1 EA	Expansion Valve	17-0007
21	1 EA	Hot Gas Bypass Valve	17-0016
22	1 EA	Service Port W/Stem	17-0035
23	1 EA	Return Air Grill	18-0003
24	1 EA	Drain Pan Float Switch	20-0001
25	1 EA	Rocker Switch, SS1205-BG	20-0006
26	1 EA	Low Pressure Switch	20-0008
27	1 EA	High Pressure Switch	20-0009
28	1 EA	Ground Lug	22-0001
29	2 EA	Capacitor Cap	22-0014
30	2 EA	Self Adh Cable Tie Mount	22-0018
31	1 EA	Low Voltage Terminal Block	22-0030
32	1 EA	Terminal Block	22-0031
33	LBS	Refrigerant R-22	23-0001
34	1 EA	CB Cap	25-0002
35	4 EA	CB Corner	25-0005
36	2 EA	Motor Mount 3M147 (Evap)	33-0001
37	2 EA	Motor Mount	33-0011
38	1 EA	Red Light	35-0002
39	1 EA	5 Gallon Condensate Bottle Assembly	59-0001

Table A-16

## XL120CA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0032
2	1 EA	Condenser Blower	01-0053
3	1 EA	Condenser Coil	02-0071
4	1 EA	Evaporator Coil	02-0072
5	1 EA	Compressor	03-0229
6	21EA	Contactora, 91321	04-0034
7	1 EA	Contactora, 60205	04-0036
8	1 EA	Transformer	04-0057
9	1 EA	Condenser Motor	06-0006
10	1 EA	Condenser Motor, H408	06-0010
11	4 EA	Chrome Handle F31-8	10-0005
12	1 EA	Thermostat (All Units)	13-0034
13	1 EA	Evaporator Motor Pulley	16-0001
14	1 EA	Evaporator Blower Pulley	16-0009
15	2 EA	Condenser Motor Pulley	16-0010
16	2 EA	Condenser Blower Pulley Belt	16-0011
17	1 EA	Belt, B48	16-0015
18	2 EA	Condenser Blower Pulley	16-0023
19	2 EA	Valve, Hot Gas By-Pass (ADRHE-6	17-0019
20	1 EA	Service Port w/Stem 1/4	17-0035
21	1 EA	Expansion Valve	17-1007
22	1EA	Sight Glass	17-1070
23	1 EA	Steel Drier (C-164-S)	17-1071
24	1EA	Drain Pain Float Switch	20-0001
25	1 EA	Low Pressure Switch	20-0008
26	1 EA	High Pressure Switch	20-0009
27	1 EA	Ground Lug, ADR11	22-0001
28	1 EA	Terminal Block	22-0030
29	2.1 LBS	Refrigerant - R22	23-0001



Table A-17

## XL120DA PARTS LIST

	<i>Qty. Used</i>	<i>Description</i>	<i>Part No.</i>
1	1 EA	Condenser Blower	01-0032
2	1 EA	Condenser Blower	01-0053
3	1 EA	Condenser Coil	02-0071
4	1 EA	Evaporator Coil	02-0072
5	1 EA	Compressor	03-1137
6	21EA	Contactora, 91321	04-0034
7	1 EA	Contactora, 60205	04-0036
8	1 EA	Transformer	04-0057
9	1 EA	Condenser Motor	06-0006
10	1 EA	Condenser Motor, H408	06-0010
11	4 EA	Chrome Handle F31-8	10-0005
12	1 EA	Thermostat (All Units)	13-0034
13	1 EA	Evaporator Motor Pulley	16-0001
14	1 EA	Evaporator Blower Pulley	16-0009
15	2 EA	Condenser Motor Pulley	16-0010
16	2 EA	Condenser Blower Pulley Belt	16-0011
17	1 EA	Belt, B48	16-0015
18	2 EA	Condenser Blower Pulley	16-0023
19	2 EA	Valve, Hot Gas By-Pass (ADRHE-6	17-0019
20	1 EA	Service Port w/Stem 1/4	17-0035
21	1 EA	Expansion Valve	17-1007
22	1EA	Sight Glass	17-1070
23	1 EA	Steel Drier (C-164-S)	17-1071
24	1EA	Drain Pan Float Swtch (overflow)	20-0001
25	1 EA	Low Pressure Switch	20-0008
26	1 EA	High Pressure Switch	20-0009
27	1 EA	Ground Lug, ADR11	22-0001
28	1 EA	Terminal Block	22-0030
29	2.1 LBS	Refrigerant - R22	23-0001



## **WARRANTY**

If any part of your Air Rover Portable Air Conditioner fails because of a manufacturing defect within a twelve month period from date of original purchase, Air Rover, Inc. will furnish, without charge F.O.B. Tyler, Texas, the required replacement part, as well for a period of ninety (90) days from the date of original purchase any transportation, related service labor, and diagnosis calls, that have been previously authorized by Air Rover, Inc., and included in this warranty. In addition, if the Hermetic compressor fails because of a manufacturing defect within the second through the third year from the date of original purchase, Air Rover, Inc. will furnish without charge, F.O.B. Tyler, Texas the required replacement. Any transportation, related service labor, diagnosis calls, filters, driers and/or refrigerant are not included.

All warranty work must have written authorization prior to service. No warranty work will be paid without written authorization from Air Rover, Inc.

To obtain service under this warranty, the customer must contact Air Rover, Inc. Service Department at (U.S.) 1-800-858-6287, or (903) 877-3430 and request a Service Repair Authorization (SRA) Number. All transportation costs, related service labor charges, and/or diagnostic call charges must be authorized prior to commencement of the service. Authorization must be obtained before any replacement parts, other than those provided by Air Rover, Inc. are installed.

This warranty does not cover damages caused by improper installation, misuse of equipment or negligent servicing. Units that are to be used where ambient outside temperatures will be less than 45° F are not covered by this warranty unless said units are equipped with optional low ambient controls. Furthermore, units that are to be used where the evaporator temperature may reach or exceed 100° for extended periods will not be covered by this warranty unless said units are equipped with optional high ambient controls. As well, units that are to be used for process cooling will not be covered by this warranty because such units require special adaptations which are specific to each purpose.

This warranty constitutes the exclusive remedy of any purchaser of Air Rover, Inc. Portable Air Conditioners and is in lieu of all other warranties, expressed or implied, including, without limitation, any implied warranty or merchantability of fitness for use, to the fullest extent permitted by law. In no event shall Air Rover, Inc. be liable for incidental or consequential damages.

This warranty applies to products purchased and retained for use in the United States, as well as units shipped for use in Canada and Mexico. Units used in the aforementioned countries are honored under Air Rover, Incorporated's standard 90 day labor, 1 year parts and workmanship, and 3 year compressor warranty. However, units used for rental purposes are not covered by this warranty.

**THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE AND COUNTRY TO COUNTRY.** Some states and countries do not allow limitations or exclusions, so the above limitations or exclusions may not apply to you.



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