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## Safety Summary



This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel. Also included are explanations of safety and hazardous materials icons used within the technical manual.

#### **EXPLANATION OF SAFETY WARNING ICONS**



BIOLOGICAL - abstract symbol bug shows that a material may contain bacteria or viruses that present a danger to life or health.



ELECTRICAL - electrical wire to arm with electricity symbol running through human body shows that shock hazard is present.



EXPLOSION - rapidly expanding symbol shows that the material may explode if subjected to high temperatures, sources of ignition or high pressure.



FIRE - flame shows that a material may ignite and cause burns.



FLYING PARTICLES - arrows bouncing off face with face shield shows that particles flying through the air will harm face.



HEAVY OBJECT - human figure stooping over heavy object shows physical injury potential from improper lifting technique.



HOT AREA - hand over object radiating heat shows that part is hot and can burn.



VAPOR - human figure in a cloud shows that material vapors present a danger to life or health



## Preparation

# Information about the Placement and Operation of the **20' Cold Storage 2 Go** Domestic Refrigeration Unit

Preparing your Site for the Refrigerated Container

- The surface where the container is to be placed must be stable enough to support the weight of the container (6,900 lbs.). Concrete, asphalt, gravel and crushed concrete all work well. The baring weight of the container is at the corners.
- 2) A reasonably level area is desirable. Wooden blocks or railroad ties may be used to level the container.
- 3) Make sure there is sufficient access for the delivery truck.
- 4) Have your electrician check that you have the **proper** electrical supply available near to where your container will be located.
- Position the machine end of the container no closer than 5 feet from a wall or other object that may block airflow or limit access.
- 6) The container should be perfectly level from side to side to allow the evaporator defrost drains to work properly. There should be a slight pitch toward the doors which will allow any water to drain particularly when



washing out the container.

# **Electrical Connection**

Electrical requirement: 240 volt / Single Phase / 30 Amps (Note: The interior light bulbs are 240 volts)



#### Voltage:

It is important to operate the unit at the correct voltage. This unit is equipped with both a booster transformer located just below the refrigeration unit and a voltage monitor located on the circuit breaker box. No less than 220 volts is recommended when the compressor is operating. The booster transformer comes pre-wired using the 208 terminal.

- 1) FIRST, TURN OFF THE MAIN BREAKER FROM THE BUILDING TO THE CONTAINER.
- 2) ATTACH THE WIRES TO THE LOCAL POWER SOURCE ACCORDING TO LOCAL ELECTRICAL CODES
- 3) MAKE SURE THAT THE MAIN BREAKER TO THE REFRIGERATION UNIT IS OFF
- 4) ENERGIZE THE LOCAL SOURCE
- 5) READ THE VOLTAGE MONITOR FOR INCOMING POWER LEVEL
- 6) IF THE LEVEL IS BELOW 230 VAC DO THE FOLLOWING



If the voltage is low, an adjustment can be made at the booster transformer. This should be done by a qualified and authorized person.

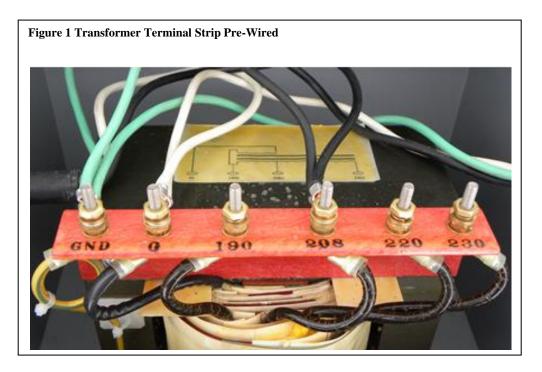
Open the hinged cover on the transformer. Measure with a volt meter, set to read AC volts on the

600 volt scale, between the 0 lug on the transformer wire and the other terminals. Note which

terminal is at 230 volts. TURN OFF POWER AT THE SOURCE



Move the wire that goes to the refrigeration unit from the 208 terminal to the terminal that measured closest to or at 230 VAC. REMEMBER to tighten the nuts on the terminal to secure. As a precaution check that all nuts are tight and secure. Loose connections can cause a variety of problems that at first may not seem power related.



Reference page 32 for further details



Secure the cover and turn on the main breaker. Recheck the voltage and, if necessary adjust by moving the wire to a higher or lower terminal that will supply the correct voltage.



## **Initial Start**

Initial Start-up:

After connecting the electrical power, it is advisable to

wait several hours (especially in cold weather) before starting the unit.

If a grinding noise is heard, shut off the unit and allow more time for the heater to work. Only

after allowing the heater to run, briefly turn the unit on and off to assist in the start-up.

Control Panel: Reference Figure 2 for location

The control panel is located on the left side of the refrigeration unit at the front of the container.

1) Unit on / off switch: Located on the outside of the control box door.

2) Electronic Controller: Located on the outside of the control box door, the

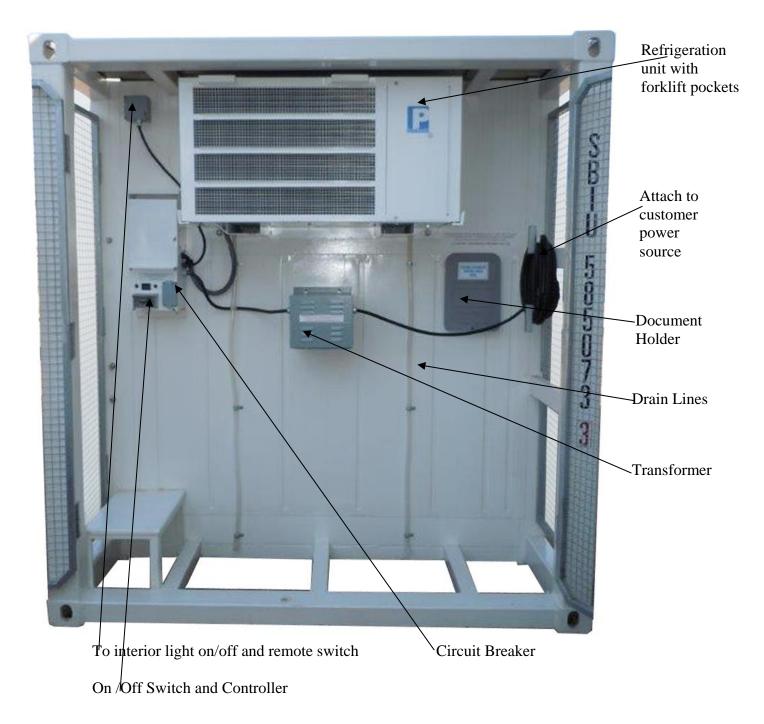
controller includes a temperature display, temperature set point adjustment

and manual defrost button. (see diagram, page ) Reference page 11 for illustration.

The electrical panel contains high voltage, Caution should be used when accessing the panel.

The panel door must be kept tightly closed at all times.





**Figure 2** Component Identification



## DIXELL CONTROLLER FRONT PANEL COMMANDS





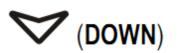


FREEZER OR COOLER POSITION

HOLD BUTTON UNTIL DISPLAY FLASHES – PRESS ARROWS UNTIL DESIRED TEMPERATURE APPEARS – PRESS SET



INCREASE THE DISPLAY VALUE



DECREASE THE DISPLAY VALUE



START MANUAL DEFROST



NOTE: The light bulbs are 230 volts and can be purchased from: : <u>https://www.interlight.biz/light-bulb/60A-220-240V-TUFF</u> info.php/products id/238

Main power circuit breaker:

Located on the front wall of the container below the refrigeration unit. AUTHORIZED PERSONNEL ONLY

Interior lights and timer switch:

Located on the right side wall, just inside the main door. The timer switch is designed to turn the refrigeration unit off when access to the container is needed and automatically turns the unit on after the pre-set time has expired. The timer can be set for up to 15 minutes or the unit can be turned on manually by returning the timer back to the on position.

\* ALWAYS TURN THE UNIT OFF WHEN THE DOORS ARE OPEN TO AVOID TEMPERATURE LOSS OR SEVERE ICING OF THE EVAPORATOR COIL. Initiating a manual defrost once or twice daily will prevent ice from accumulating on the

evaporator coil.

Thermometer:

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The thermometer located on the rear door should ONLY be used as a temperature indicator once the unit has been operating with the doors closed for several hours.

## USE

#### Loading your product:

The product should be loosely loaded allowing maximum airflow to surround your product. Do not block the airflow from the evaporator section. The supply air must able to reach the door end of the container.

#### Defrost:

This controller is programmed to defrost the evaporator coil every six (6) hours. If ice accumulates on the evaporator coil, the defrost cycle can be initiated manually by pressing the defrost button on the controller. It is expected that during every defrost cycle, water will drain from the two (2) hoses located on the front wall of the container. These hoses must be kept clear of ice, snow and debris at all times.

#### The Condenser coil:

This is the aluminum grill on the outside front of the refrigeration unit that needs to be kept clean. When dust and dirt builds up on the coil the unit will not cool properly. To clean the coil, first shut off the electrical power at the breaker on the container as well as the breaker in your building. Using a garden hose with a spray nozzle, GENTLY spray the coil to wash out the dirt. Using too much pressure will bend the aluminum fins and damage the unit. The water will not harm the refrigeration unit. Keep spraying until the water flowing from the coil is clean. Allow to dry for 20 minutes before starting.

# Before closing the container doors, ALWAYS check that no one is inside the container.



Support:

Email: <u>Reeferrepairs@seabox.com</u>

Include your company name, location, contact information, and briefly describe the support required.

# Refrigeration Unit SB151



#### MODULAR CONCEPT

The modular concept is a new design that enables the use of a single unit to satisfy the refrigeration load requirement. Every unit is pre-built at the plant and is equipped with a compressor, condenser and evaporator. Each unit is pre wired and pre-charged by qualified technicians. These units offer many advantages compared to conventional split units.

#### FEATURES OF THE SB151 MODULAR UNIT

- Quality control monitoring takes place throughout the fabrication process and three
   (3) leak tests are done. One each on the: condenser coil, evaporator coil, and piping system. A thorough operational test is performed on the unit to make sure it performs efficiently.
- 2) The quantity of refrigerant necessary is 10 lbs. compared with 14-16 lbs. on conventional units of the same capacity. This means that the cost associated with recharging and leak repair is reduced.
- 3) The number of solder joints is minimized, thus reducing the risk of a leak.
- 4) With easy access the inspection and maintenance is relatively easy.



- 5) The unit can be removed and replaced easily.
- 6) Because of the low cost, an extra or spare unit can be kept on standby.

- 7) Spare parts such as relays, driers, compressors, and valves, etc. are standard and readily available in the refrigeration industry.
- 8) The drain system is located within the unit, thus eliminating a complex and costly drain system.
- 9) The final electric wiring is simple to connect because the pre-wiring is done at the factory.
- 10) With short connections between components, the control of the oil migration is better therefore the chance of mechanical failure of the compressor is reduced.
- 11) Simple to install, even in the most remote areas, without the support of a technical refrigeration mechanic.



## COMPONENTS

- **Compressor:** The SB151 is equipped with a scroll compressor with internal thermal protection. The table on page 18 shows the compressor specifications.
- **Condenser:** The coil is manufactured of 3/8 inch copper tubing with 12 aluminum fins per inch.
- **Evaporator:** The coil is manufactured of 3/8 inch copper tubing with 8 aluminum fins per inch.
- **Fans:** Both the condenser and the evaporator use one (1) fan to circulate the air. Each fan is powered by one (1) 1/3 HP electric motor on the evaporator side and one (1) 1/3 HP electric motor on the condenser side. Reference the Table on page 20.
- **Controls:** There are 3 PENN electro-mechanical controls consisting of low pressure and high pressure safeties and condenser fan cycling and 2 DIXELL electronic controls consisting of a dual map combination temperature and defrost controller and a separate superheat controller.
- **Electric Heat:** 3 KW heat strips provide product protection at low ambient temperatures.
- **Defrost:** Hot gas defrost.
- Accessories: Drier, liquid glass indicator, electronic expansion valve, evaporator pressure regulator, and liquid receiver.
- **Casing:** The condenser casing is made out of satin finished steel that is cold bended and covered with primer and paint. The evaporator casing is made out of aluminum. The evaporator and condenser sections are joined together by an insulated partition to eliminate energy loss.



# Technical Data

## Technical Data Sheet

Voltage	230VAC	Single Phase / 30 Amps
Compressor		As per Copeland Performance
FLA rating	14.6 - 16.2 amps	Chart "A" attached
Condenser motor		
FLA rating	1.0 amps	
Evaporator motor		
FLA rating	.9 amps	
Heater amps	10 amps	
Heater	1 minute	solid-state device inside panel
delay-on-make		
CPR setting	Target range 25 - 30 Psi.	*During defrost amperage should not exceed
		26.8 as per Copeland Electrical Data Chart "B"
		attached
	Cut-In: 20 Psi. / Cut-Out: 5	
Low pressure	Psi.	
safety switch	Differential: 15 Psi.	
High pressure		
safety switch	400 Psi.	

condenser fan cycling switch	Cut-In: 250 Psi. / Cut-Out: 180 - 200 Psi. Differential: 50 - 70Psi.	Use higher differential to reduce short cycling
Electronic Expansion Valve	Factor superheat setting is 10°F	This setting should never be changed. If the Dixell which controls superheat should display a superheat reading that is more than 2 degees above or below this setting for a prolonged period of time, please refer to the troubleshooting guide to determine cause.
refrigerant type/amount	404A / 14.11 lbs.	
oil type	Polyolester Oil	
	65 decibels @ 10'	
Sound readings	60 decibels @ 20'	
weight	464 lbs.	



Controller – Parameters

Dual Map			
Position	Freezer	Cooler	
Minimum set-			
point	-10°F	+15°F	Dixell
Maximum set-			
point	+14°F	+50°F	Dixell
Interval between			
defrost cycles	6 hours	6 hours	Dixell
Time of first	6 hours after power	6 hours after power	
defrost cycle	is turned on/restored	is turned on/restored	Dixell
Defrost			
termination			
temperature	+55°F	+46°F	Dixell
Drain time	3 minutes	3 minutes	Dixell
Evaporator fan			
time delay	Evaporator coil @ 35°F	1 minutes	Dixell



Location of major components in the modular unit:

Air return: air return ventilation openings are located on the sides and the bottom of the evaporator. The dimensions of the openings are proportional to the air flow.

**Fans:** fans are located behind each coil. Fans are pushing the air through the evaporator coil and are pulling the air through the condenser coil, to perform an efficient heat transfer.

Defrost sequence: **Type of defrost:** hot gas system.

**Defrost cycles:** the defrost cycles should last 3 - 10 minutes, depending on the frost accumulation and the evaporator coil temperature. The defrost cycle is initiated by the timer, which will automatically close and open solenoid valves in the unit and stop the evaporator fan motor. These valves will allow the hot thermal fluid to flow through the evaporator coil to perform the defrost. The temperature control will automatically terminate the defrost cycle and after a drip and time delay, will activate the evaporator fan motors.

**Operational time:** at maximum capacity the unit should operate effectively approximately 23 out of 24 hours per day. The one hour lost is for defrosting cycles.

#### **Refrigerant:**

404A used in the units is ozone friendly. We are aware of the environmental problems associated with the use of chlorofluorocarbonates.



Specifications:

### COMPRESSOR

Model	Voltage	Quantity	HP	RLA	LRA
SB151	240/1/60	1	4	18	34.5

## ELECTRIC MOTORS

Model	Voltage	Evaporator HP	RLA	Condenser HP	RLA	Speed
SB151	240/1/60	1/3	2.1	1/3	2.1	1075 RPM

#### **REFRIGERATION UNIT**

Model	HP	Range	Refrigerant	Width	Height
SB151	4	-10°F/+50°F	404A	40"	22"

## **REFRIGERATION UNIT- continued**

Depth	RLA	LRA	Breaker
50"	26.8	34.5	30A



## UNIT CAPACITY @ 110° F CONDENSING

Model	-10°F	-5°F	0°F	$+5^{\circ}F$	+10°F
SB151	18,200	20,400	22,700	25,300	28,000

### UNIT CAPACITY @ 110° F CONDENSING – continued

+15°F	+20°F	+25°F	+30°F	+35°F	+40°F
30,900	34,000	37,300	40,800	44,500	48,500

### COMPRESSOR WINDING RESISTENCE

Model	VOLTS	PH	Max RLA	LRA	Winding	Resistance	Run CAP P/N
COPELAND	208/230	1	26.8	129	0.779 (S & C)	0.432 ( C & R)	914-0037-38
ZF13K4E-PFV							



## Maintenance:

Monthly:

Verify sight glass for level of refrigerant while unit is in operation.

Check all fan motors for noises, vibrations, etc.

Check evaporator coil for frost accumulation. To correct, try a manual defrost.

Check evaporator and condenser coil for cleanliness.

Seasonal operation:

Clean all coils.

Verify fan blades for damages, cracks, or free rotation.

Check level of oil in the compressor.

Check level of refrigerant after a few complete cooling cycles.

Pre-cool room for 48 hours and check defrost.

Adjust thermostat to desired temperature.



# Troubleshooting Guide

CONDITION	POSSIBLE CAUSE	REMEDY
1. UNIT DOES NOT RUN	External power source OFF	Turn on
	incorrect line voltage	check for 208-230 volts
No display on digital controller	on/off switch OFF or defective	Turn on or replace
	Circuit breaker tripped or OFF	reset or turn ON
Display is on and compressor is cool to the touch	charge. Check for restricted liquid li filter. Check if CPR valve is holding too much. Check if thermostatic hea TXV has lost its charge. If still unsu recover refrigerant, pull vacuum and in correct virgin charge.	
	liquid line solenoid is closed	Check if there is power on coil, if yes then replace defective coil. if no power to coil then check thermostat setting or pump- down switch inside container.
Display is on and compressor is hot to the touch	High pressure switch open	check condenser fan operation, check condenser fan cycle control settings and make sure condenser is clean
	compressor winding failure	turn off power, allow to cool and check actual ohm readings against those listed in Copeland electrical handbook- If readings are off significantly, replace compressor and check superheat setting.



CONDITION	POSSIBLE CAUSE	REMEDY
	crankcase pressure regulating valve is not throttling enough and overloading the compressor, causing the compressor to go off on internal overload	wait for compressor to restart, allow to reach temperature and then check amperage readings while in defrost, making sure to adjust CPR closed enough to keep amperage below 26.8 as outlined in Copeland electrical manual.
	scroll has overheated and internal bypass port has opened	turn off power and check oil level in crankcase. Add oil if necessary to maintain 1/2 glass. Allow to cool for 2 or more hours and then retry. If compressor begins pumping, keep gauges and temperature probes connected to make sure that superheat is not excessive for any significant period of time.
Display is on and compressor is hot to the		
touch	one or more defective start components	Check relay and capacitors
2. UNIT REGULARLY RUNS WAY ABO (note: set point lower range is limited to -10°	VE SET-POINT AND/OR HAS DIFFICULT F)	Y DROPPING DOWN TO SET-POINT
Excessive frost on compressor and superheat controller constantly displays a value substantially higher than 10F	Excessive superheat setting Possible Cause Liquid Slugging	Temporarily disconnect wires for temperature probe at terminals 13 and 14 on the Dixell superheat controller and connect them to an ohm meter. Check temperature of suction line at the evaporator with your own temperature probe strapped tightly to the suction line. Now compare values from the chart provided to determine if probe is in



Excessive frost on compressor and superheat controller constantly displays a value substantially higher than	Excessive superheat setting Possible Cause Liquid Slugging	calibration. If the temperature which corresponds to the resistance reading is higher than the actual reading you took by a significant amount, it is then determined to be faulty and it must be replaced as compressor damage will result.
10F		<ul> <li>77°F - 10 kOhm</li> <li>50°F - 19.9 kOhm</li> <li>32°F - 32.7 kOhm</li> <li>23°F - 42.3 kOhm</li> <li>14°F - 55.3 kOhm</li> <li>5°F - 72.9 kOhm</li> <li>-4°F - 97 kOhm</li> <li>If the temperature which corresponds to the resistance reading is in line with the actual reading then follow these steps to evaluate the pressure transducer accuracy. Temporarily disconnect wires for the pressure transducer at terminals 18 and 19 on the Dixell superheat controller.</li> <li>The PT5-18M has 4-20mA output. To check it, you can connect it as follow:</li> <li>There is linear dependence between pressure and current</li> <li>For 0 psig the current should be 4 mA</li> <li>For 130 psig the current should be 12 mA</li> <li>For 261 psig the current should be 20 mA</li> </ul>



Excessive frost on compressor and superheat controller constantly displays a value substantially higher than 10F	Excessive superheat setting Possible Cause Liquid Slugging	Check pressure of the suction line with your own gauge and compare mA values from the chart provided below to determine if the transducer is in calibration. If the pressure which corresponds to the resistance reading is lower than the reading you took by a significant amount, it is then determined to be faulty and it must be replaced as compressor damage will result.
	Condenser is dirty	turn off unit, clean condenser with hose and allow to dry before restarting
Refrigeration System	Evaporator is iced up	try manual defrost to clear the ice
	evaporator or condenser fan spinning	check run capacitor
	slow or opposite direction	
	CPR valve is throttling too much	adjust CPR spring inward to allow more



		refrigerant flow making sure amps remain below 26.8 during defrost
CONDITION	POSSIBLE CAUSE	REMEDY
	low on refrigerant charge	BEFORE adding refrigerant check all the above first and when possible, recover refrigerant, pull vacuum and weigh in correct charge. Search for and repair all leaks.
	Evaporator heater contactor stuck	replace
	Hot gas solenoid valve leaking by	turn off power, recover refrigerant, remove coil, disassemble valve body and remove debris that is holding up the plunger
Load	Product being introduced into container at a core temperature greater than setpoint by more than 10F	introduce less load or reduce setpoint slightly (careful not to cause harm to product by freezing it)
3 UNIT REGULARLY DRO (note: set-point upper range is	PS WAY BELOW SET-POINT, WILL NOT HEAT OR H limited to +50° F)	HAS INSUFFICIENT HEATING
	liquid line solenoid valve is leaking by	pump-down system, turn off power, remove coil, disassemble valve body and remove debris that is holding up the plunger
	defective heater	replace
	open circuit at limit switch	check for proper mounting location and/or



		replace if defective
	open circuit at heater lock-out relay	coil for heater contactor is wired in series
		to normally closed contacts on heater lock-
		out relay. Unless defective, heater can be
		energized so long as compressor remains
CONDITION	POSSIBLE CAUSE	off. Check for defective relay. REMEDY
CONDITION		
	open circuit at solid state time-delay	allow 5 minutes for delay-on-make to occur, check and/or adjust setting, replace
		if remains open
	defective fuse	check for dead shorts in heater circuit and
		repair same prior to replacing fuse
	Heater contactor defective	
		Replace
	Evaporator fan motor spinning slowly or in opposite direction	check capacitor and replace if defective
		check setpoint on controller and allow 5
	Temperature setting is too low	minutes for time-delay
	Loose terminal connections	Tighten
	Low line voltage	Check
4 UNIT WILL NOT DEFROST PROPERLY	Y	
	Door was left open or large load was	initiate manual defrost at the controller
	recently introduced	by pressing the water droplet symbol for 5



		seconds
	evaporator probe fault	check for tight and proper installation of evaporator probe. Check controller display for proper temperature reading at this probe. If probe is reading several degrees higher than actual, defrost will terminate prematurely. Replace probe if
CONDITION		defective.
5 ABNORMAL NOISE OR VIBRATIONS	POSSIBLE CAUSE large product loads are introduced regularly. Core temperature of product is greater than set-point by more than 10F.	REMEDY although designed only as a holding box, you might want to try to reduce the interval time between defrosts from 6 hours down to 4 hours. To do so, you must contact SEA BOX and a technician will come out to reprogram the controller. Note: adding too many defrost cycles will eventually give diminishing returns as this system is designed with an 18- hour run- time to keep up with a normal load.
Compressor	liquid slugging	Check TXV fuel-bulb for tight and proper installation. Check superheat and adjust TXV closed if necessary to maintain at least 10 F at the compressor. Do it in small steps and allow TXV to balance out after each adjustment.
	insufficient oil	add polyolester oil
Condenser or Evaporator Fan	Loose hub or worn motor bearingsBent fan blade	Check



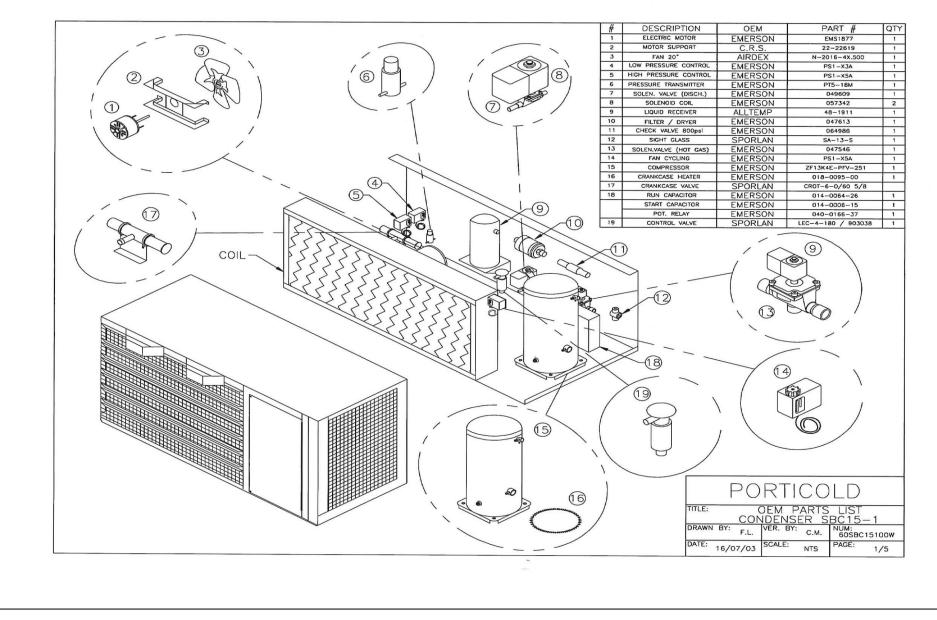
6 TEMPERATURE CONTROLLER		
MALFUNCTION		
6 TEMPERATURE CONTROLLER	sensor fault	check wiring, check installed location of 2
		sensors, and/or replace defective sensor
	incorrect program	re-install chip and download program
	defective controller	Remedy



Diagrams

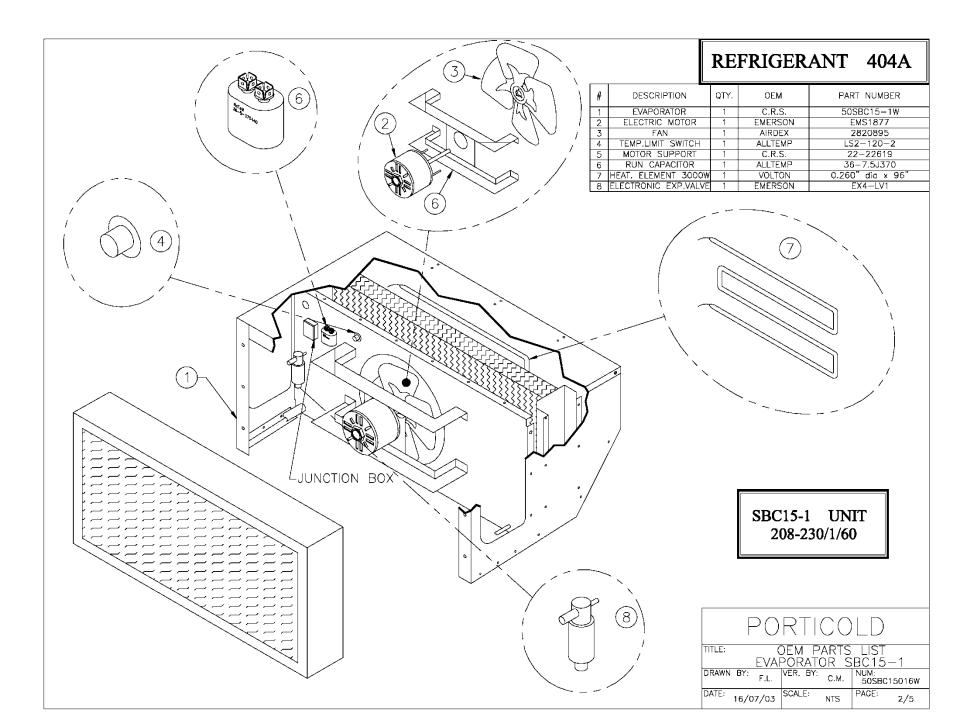
The parts illustrations are on the following pages.



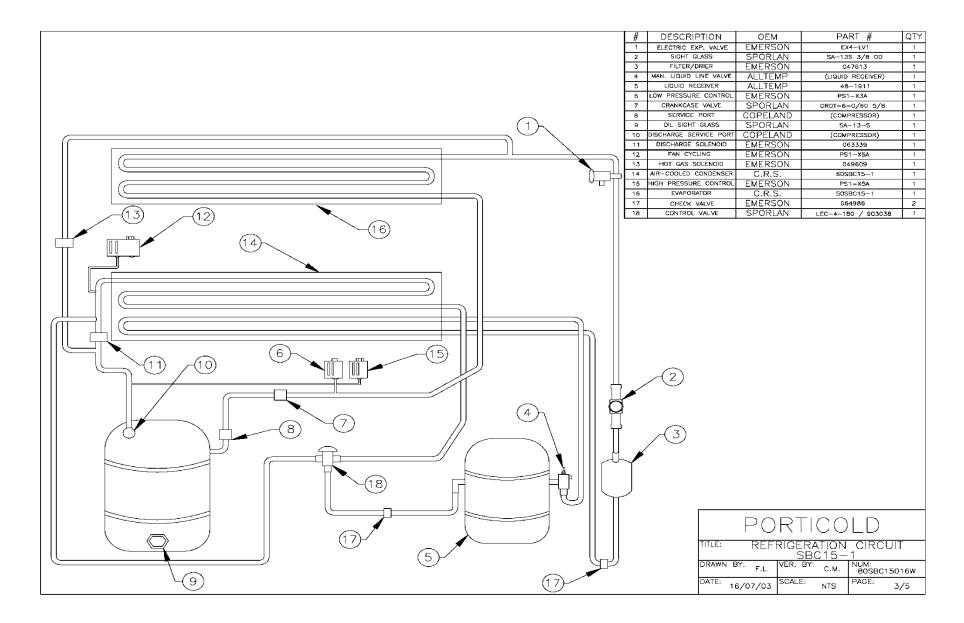


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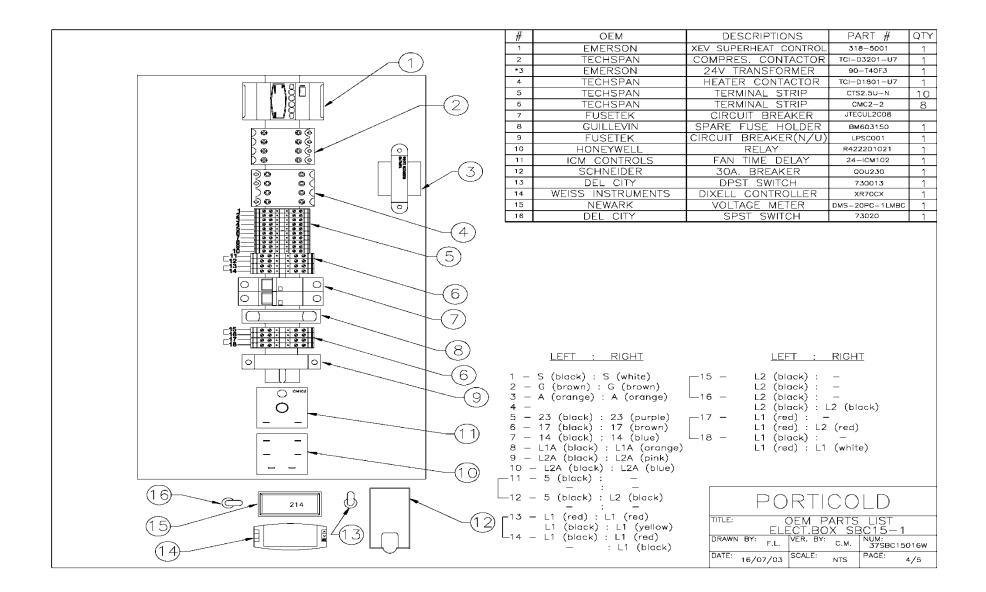






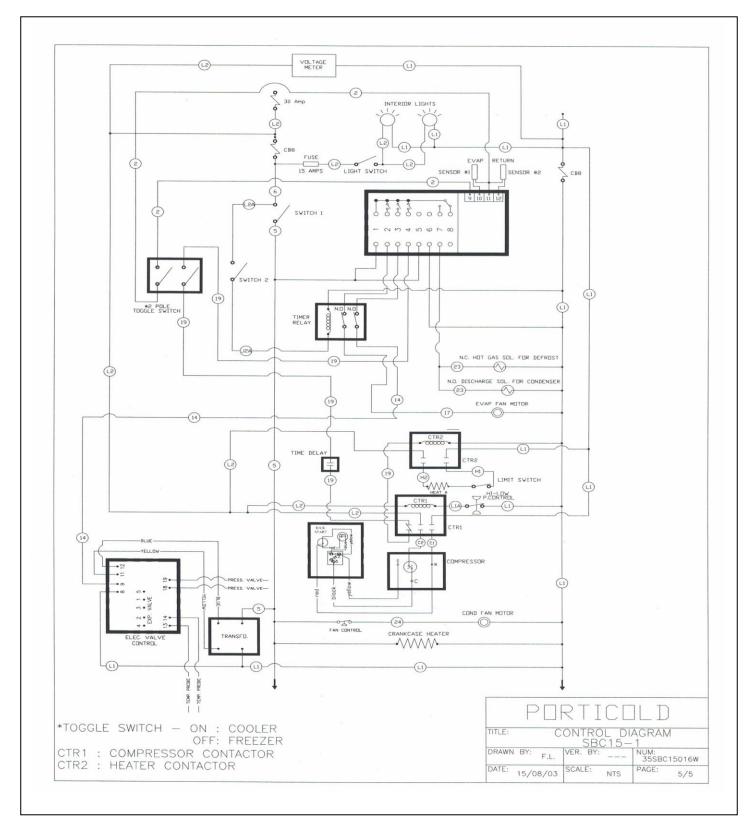








# Electrical Diagra



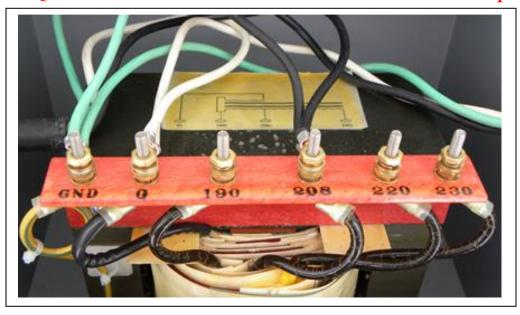
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Quick Reference Wiring - 1 Phase Buck and Boost Transformer REQUIRED VOLTAGE: 230 VAC 1 Phase 30 Amps





- Take a voltage reading at the main power source.
- If the voltage is less than 230 volts, utilize the buck and boost transformer.
- Open the hinged cover on the transformer.
- Measure with a volt meter, set to read AC volts on the 600 volt scale, between the 0 lug on the transformer wire and the other terminals.
- Note which terminal is at 230 volts. TURN OFF POWER AT THE SOURCE
- Connect the black wire coming from the power source to the terminal measuring closest to the incoming voltage. Move the black wire that goes to the refrigeration unit to the terminal that measured closest to or at 230 VAC.
- DO NOT ALLOW VOLTAGE TO EXCEED 240VAC
- Check that all nuts are tight and secure. Loose connections can cause a variety of problems that at first may not seem power related.
- Take voltage readings to confirm that the voltage is now at the desired level. REFERENCE PAGE 6 through 8 FOR MORE DETAILS



# **Domestic Reefers Series**

Unit number	Unit Number	Date	Revision
Start	Stop		Level Manual
585000	585019	10/2010	00
585020	585039	10/2011	01
585040	585069	08/2012	02
585070	585089	10/2013	03
585090	585119	09/2014	04
585120	585129	09/2015	05
585130	585138	07/2016	06
585139	585159	02/2017	07
	Refrigerant 14.11 lbs.	02/17/2017	08