



INSTALLATION AND OPERATION INSTRUCTIONS

4400 SERIES POWER PAKS



MODELS	
4400 Series	
4404	4414-230
4410	4410W
4414	4414W
4420	4420W



IMPORTANT INFORMATION

To register your product, visit our web site at **www.perlick.com**. Click on **Commercial**, then **Service**. You will see the link to **Warranty Registration Form**. You must complete and submit this form or the installation date will revert back to the ship date.

Permanently mount the enclosed Warning/Safety Instruction label in a visible location near the CO2 regulator.

This manual has been prepared to assist you in the installation of your Century Remote Beer System and to acquaint you with its operation and maintenance.

We dedicate considerable time to ensure that our products provide the highest level of customer satisfaction. If service is required, your dealer can provide you with a list of qualified service agents. For your own protection, never return merchandise for credit without our approval.

We thank you for selecting a Perlick product and assure you of our continuing interest in your satisfaction.

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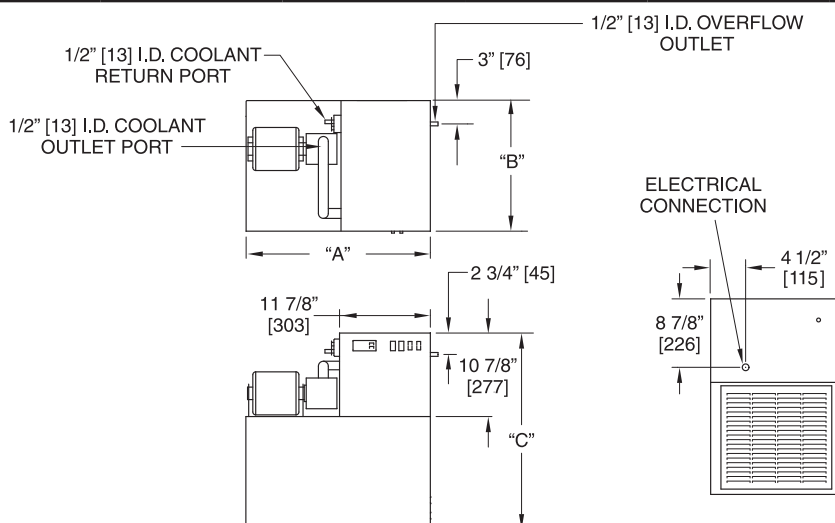


4400 SERIES POWER PAKS - AIR COOLED

Operation/Installation Manual

MODEL NOS.		4404	4410	4414	4414-230	4420
DIMENSIONS: EXTERIOR (mm)	Length "A"	24¼" (616)	24¼" (616)	24¼" (616)	26¾" (679)	26¾" (679)
	Width "B"	17¼" (438)	17¼" (438)	17¼" (438)	20¼" (519)	20¼" (519)
	Height "C"	25½" (648)	25½" (648)	25½" (648)	31" (782)	31" (782)
	A minimum of six inches of clearance should be allowed around the entire unit for proper performance. Additional clearance should be considered for above the unit and in front of the unit for serviceability.					
ELECTRICAL	Voltage	120 V	120 V	120 V	115 - 208/230 V**	115 - 208/230 V**
	Frequency	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
	Phase	1 Ø	1 Ø	1 Ø	1 Ø**	1 Ø**
SINGLE PUMP	RLA (Rated Load Amps)	15.1	15.7	17.1	10.5	21.9
	MCA (Min. Circuit Ampacity)	17.2	18.0	19.6	12.2	26.4
	MOCP (Max. over Current Protection)	25	25	25	15	40.0
DUAL PUMPS (add -2 to model #)	RLA (Rated Load Amps)	N/A	21.8	22.7	13.3	24.7
	MCA (Min. Circuit Ampacity)	N/A	24.1	29.6	15.0	29.2
	MOCP (Max. over Current Protection)	N/A	30.0	40.0	20.0	45.0
TRIPLE PUMPS (add -3 to model #)	RLA (Rated Load Amps)	N/A	N/A	N/A	16.1	27.5
	MCA (Min. Circuit Ampacity)	N/A	N/A	N/A	17.8	32.0
	MOCP (Max. over Current Protection)	N/A	N/A	N/A	20.0	50.0
COMPRESSOR		1/3 HP	1/2 HP	3/4 HP	3/4 HP	1.5 HP
EVAPORATOR RATING @ 20°F (BTUH)		3420	3800	6000	6300	12000
HEAT REJECTION (MAX)		4080	6080	9600	10080	19200
REFRIGERANT		R-134a	R-134a	R-134a	R-134a	R-134a
SHIPPING WEIGHT LBS (kg)		140 (64)	153 (69)	180 (82)	205 (93)	255 (116)
CABINET		Stainless Steel				
CIRCULATING PUMP		100 GPH/130 PSIG				
RESERVOIR CAPACITY		1.75 gal	1.75 gal	1.75 gal	1.75 gal	1.75 gal
REFRIGERATION		Constant Pressure Expansion Valve, Condensing Unit with Service Valves				
REFRIGERANT CHARGE (grams)		14.0 oz/397 g	12.0 oz/340 g	9.5 oz/269 g	11.0 oz/312 g	16.0 oz/453 g
GLYCOL CONCENTRATION		30%	30%	30%	30%	30%
OPTIONAL ACCESSORIES	4430 115V pump kit for 4410 Power Pak (field installed) 4431 115V pump kit for 4414 Power Pak (field installed) 4432 208/230V pump kit for 4414/230V and 4420 Power Paks (field installed) 4435 BLM Receptacle 4408SS Wall Bracket for 4404 and 4410 only C21499BSS Stainless Steel Table Stand 61790 Dual Tier Rack 61790P1 Triple Tier Rack C22296A-20 Cord Kit for 120V single pump Power Paks only (Field installed)					

** 4 WIRE AC POWER SOURCE REQUIRED
(Ground, Neutral, Hot-Power, Hot-Power)
AC: 115 - 208/240v, 60 HZ, Split Single Phase



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4400 SERIES POWER PAKS - WATER COOLED

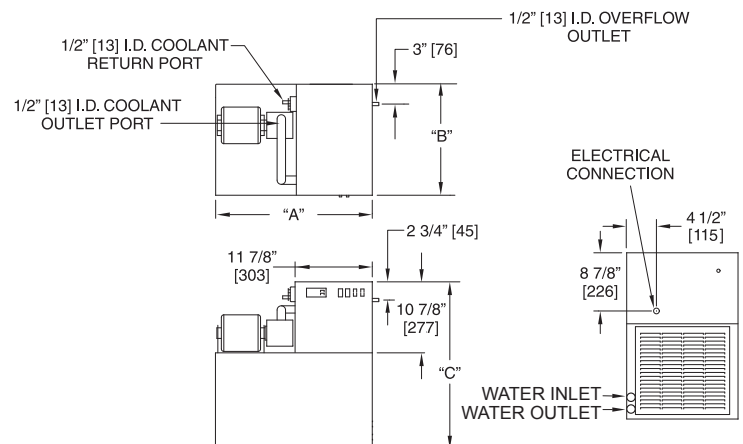
Operation/Installation Manual



MODEL NOS.		4410W	4414W	4420W
DIMENSIONS: EXTERIOR (mm)	Length "A"	24 1/4" (616)	26 3/4" (679)	26 3/4" (679)
	Width "B"	17 1/4" (438)	20 1/4" (519)	20 1/4" (519)
	Height "C"	25 1/2" (648)	31" (782)	31" (782)
	A minimum of six inches of clearance should be allowed around the entire unit for proper performance. Additional clearance should be considered for above the unit and in front of the unit for servcability.			
ELECTRICAL	Voltage	120 V	120 V	115 - 208/230 V**
	Frequency	60 Hz	60 Hz	60 Hz
	Phase	1 Ø	1 Ø	1 Ø**
SINGLE PUMP	RLA (Rated Load Amps)	17.1	17.4	20.8
	MCA (Min. Circuit Ampacity)	19.9	20.4	25.3
	MOCP (Max. over Current Protection)	30.0	30.0	40.0
DUAL PUMPS (add -2 to model #)	RLA (Rated Load Amps)	23.2	23.0	23.6
	MCA (Min. Circuit Ampacity)	26.0	26.0	28.1
	MOCP (Max. over Current Protection)	35.0	35.0	45.0
TRIPLE PUMPS (add -3 to model #)	RLA (Rated Load Amps)	N/A	28.6	26.4
	MCA (Min. Circuit Ampacity)	N/A	31.6	30.9
	MOCP (Max. over Current Protection)	N/A	40.0	45.0
COMPRESSOR		1/2 HP	3/4 HP	1-1/2 HP
EVAPORATOR RATING @ 20°F (BTUH)		4080	6870	13,800
HEAT REJECTION (MAX)		2450	4122	6500
REFRIGERANT		R-134a	R-134a	R-134a
SHIPPING WEIGHT LBS (kg)		143 (65)	205 (93)	255 (116)
CABINET	Stainless Steel			
CIRCULATING PUMP	100 GPH/130 PSIG			
RESERVOIR CAPACITY		1.75 gal	1.75 gal	1.75 gal
REFRIGERATION	Constant Pressure Expansion Valve, Condensing Unit with Service Valves			
REFRIGERANT CHARGE (grams)		14.5 oz / 410 g	22.0 oz / 623 g	22.0 oz / 623 g
GLYCOL CONCENTRATION		30%	30%	30%
PLUMBING REQUIREMENTS				
INLET & OUTLET	All employ 1/2" O.D. Quick Connect Fittings			
FLOW RATE (gpm) @ 75°F		0.6	0.9	1.2
PRESSURE DROP (psig)		0.2	0.4	0.5
MAX SUPPLY PRESSURE	All Models: Incoming Water Pressure not to exceed 150 psig			

OPTIONAL ACCESSORIES	4430 115V pump kit for 4410 Power Pak (field installed)
	4431 115V pump kit for 4414 Power Pak (field installed)
	4435 BLM Receptacle
	44085S Wall Bracket for 4404 and 4410 only
	57782 Set of four adjustable legs
	54838 Water hammer arrestor (add if incoming water is under 65°F)
	61790 Dual tier rack
	61791+1 Triple tier rack
	61792+2 Quad tier rack
	C22296A-20 Cord Kit for 120V single pump Power Paks only (Field Installed)
	C21499B5S Stainless Steel Table Stand

** 4 WIRE AC POWER SOURCE REQUIRED
(Ground, Neutral, Hot-Power, Hot-Power)
AC: 115 - 208/240v, 60 HZ, Split Single Phase



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4400 SERIES POWER PAKS - GENERAL INFORMATION

Operation/Installation Manual

Accessories

Power Cord Kit

C2296A-20--12/3 Cord, 20A, Nema Plug 5-20P, Dedicated Circuit Models - See above electrical specifications

Power Pak Racks

61790, 61790+1, 61790+2 - All Models

Power Pak Wall Mounting Brackets

For Models [4404](#) & [4410](#) only

Coolant Solution-[63299-1](#)

One gallon Perlick Coolant solution, 30% DowFrost HD/70% Distilled Water

Coolant Connector Kit

[63335](#) - All Models

Leg Set - All Models

[57782](#) . . . Set of four, 5 ³/₄"-7 ¹/₂" adjustable legs

Pump Kits

[4430](#) - Pump kit, 115V, 6.1 A, 100 gph, 130 psig
Models [4410](#), [4410W](#)

[4431](#) - Pump kit, 115V, 5.6 A, 100 gph, 130 psig
Models 4414, 4414W

[4432](#) - Pump kit, 230V, 2.8 A, 100 gph, 130 psig
Models 4414-230, 4420

PRODUCT DESCRIPTION

Power Paks have always been an integral part of a Perlick Century Beer System. The 4400 Series Power Pak product line has been expanded to satisfy longer beer runs. A Power Pak circulates coolant solution (food grade propylene glycol with distilled water) from walk-in cooler to the dispensing station(s) and back, maintaining the desired dispensing temperature at the faucet. The 4400 series Power Pak incorporate a 1/3 hp ball bearing, maintenance free motor with a 100 gallon per hour 150 psig positive displacement pump for optimum performance. The 4400 series Power Pak product line employs a direct expansion form of refrigeration increasing the units' efficiency as well as making the units more compact. These units also employ an electronic temperature control with digital readout. This state of the art control controls the performance of the unit as well as giving the user a visual indication of the how the unit is working as well as giving the user a visual indication of the how the unit is working as well as early indication if something may be going wrong through the use of internal alarms.



WARNING: California Prop 65 Notice

These products may expose you to chemicals including Chromium, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information on whether a product in this list contains these chemicals, please refer to the specific product page at perlick.com. Or to find out more about Prop 65, go to P65Warnings.ca.gov.

INSTALLATION

IMPORTANT SAFETY WARNINGS!

- Follow all National and Regional Codes.
- Read Installation and Operating Instructions carefully before attempting to install, operate or maintain the product.
- Protect yourself and others by observing all safety information.
- Electrical hazards exist and can cause injuries if not serviced by properly trained personnel.
- Failure to comply with instructions could result in personal injury and/or property damage!
- Retain instructions for future reference.
- Never operate the circulating pump without coolant in the reservoir.

NOTE: Air-cooled Power Paks must be installed in areas with adequate ventilation to maintain ambient temperatures of less than 105°F to achieve optimum performance and satisfy warranty requirements.

INSTALLING THE POWER PAK

Prior to installing a 4400 Series Power Pak, it is imperative that the method of connecting it to the electrical service has been determined. Ensure that the electrical service to power the Power Pak will handle the load requirements. Perlick has a Power Cord specifically designed for a Power Pak, which has a RLA of 16 amps or less, and a MCA of 20 amps or less. All units with RLA greater than 16 amps and a MCA of greater than 20 amps should have the Power Pak hard-wired to electrical service.

ALL MODELS

- Determine the ideal placement of the Power Pak. Locate the connection point to the truck housing and place the Power Pak as close to this point as possible. **NOTE: If the Power Pak is to be located on top of the walk-in cooler, it is imperative that proper ventilation is provided to prevent system failure due to overheating. Inadequate ventilation will void warranty.**

- Place the Power Pak and Ensure that it is level to provide proper overflow protection. **REMINDER: Allow a minimum of six inches of clearance on the louvered ends of the cabinet for proper airflow. Allow accessibility room on the top of the cabinet for serviceability.**
- Remove the top panels (2).
- Ensure Power Switches for Condensing Unit and Pump(s) are in the OFF position. Make the electrical connections per their illustrations. NOTE: Electrical circuit should be a dedicated circuit for use only with the Power Pak. The circuit should be sized in accordance with the electrical requirements of each unit as well as in compliance with all National and Local Codes.
- Plumb overflow port to a suitable reservoir/drain.

WATER-COOLED MODELS

- In addition to the above installation instruction:
- Care should be exercised in locating the Power Pak so that the unit will never be exposed to temperatures below freezing.
- If the Power Pak is installing more than 5 feet higher than the remote outlet drain point (i.e., location of the floor drain) of the condenser, a vacuum breaker or open vent line should be provided to prevent the discharge line from creating a partial vacuum condition in the condenser water system.
- If a water-circulating pump is used it should be placed on the water supply side of the condenser, so water is being pushed through the condenser.
- A potable water supply is required as well as a drain or reclamation system. Make water supply connection to fitting labeled as the water inlet. Make outlet connection to fitting labeled as the water outlet connection. Both the inlet and outlet fittings supplied with the Power Pak are 1/2" Quick Connect fittings.
- This equipment when equipped with a water-cooled condenser, connected to a portable water supply system is to be installed with adequate backflow protection to comply with applicable federal, state and local codes. (Backflow protection not included.)

CONNECTING POWER PAK TO TRUNK HOUSING

400 Series Power Paks require rigid fittings with a minimum pressure rating of 150 psig. Use Coolant Connector Kit #63335 to connect Power Pak to Trunk Housing.

- Inspect pump outlet port for debris. Insert barbed fitting #63307 into pump outlet port.
- Inspect Glycol Return Manifold inlet for debris. Insert barbed fitting #63307 into return manifold inlet port.
- Cut supplied coolant tubing, #54588, to required length to reach from Power Pak to Trunk Housing connection point.
- Cut tubular insulation sleeve, #C12700, in half and install over previously cut coolant tubing.
- Take Oetiker clamps, #54871-210, and install over coolant tubing ends.
- Push coolant lines, one each over pump outlet barbed fitting #63307 and return manifold barbed fitting #63307.
- Position Oetikers over barbed fitting and clamp securely.
- Slide tubular insulation sleeves tightly against connection points. Use insulation tape as necessary to ensure an air tight seal to prevent excessive heat gain or condensation problems.
- Drill a 3-1/2" diameter hole in walk-in cooler to accommodate coolant lines.
- Install insulation donuts over hole (both inside and outside of cooler walls).
- Slide large insulation sleeve, #57478, over remaining coolant tubing exposed to warm air conditions including inside walk-in cooler from Power Pak to Trunk Housing connection point. Seal and tape all seams to prevent excessive heat gain or condensation problems.
- Slide coolant lines through 3-1/2" donut hole previously cut in walk-in cooler wall.

- Position Trunk Housing coolant lines and Coolant Connector kit lines in horizontal position, to alleviate condensation runoff into Trunk Housing.
- Cut Trunk Housing coolant lines with tubing cutter to ensure clean burr free ends.
- Take Oetikers clamps #54871-210, and install over coolant connector kit tubing ends.
- Slide coolant connector kit tubing over the trunk housing coolant lines and secure using the Oetikers.
- Complete the insulation process by ensuring that all coolant lines are well insulated including all seams to prevent excessive condensation and heat gain.
- Seal donut hole to ensure an air tight seal to prevent walk-in cooler problems as well as condensation.

CONNECTING TRUNK HOUSING COOLANT LINES TO DISPENSING HEAD

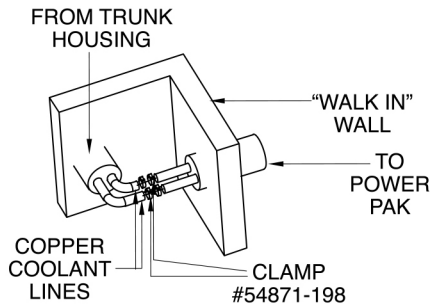
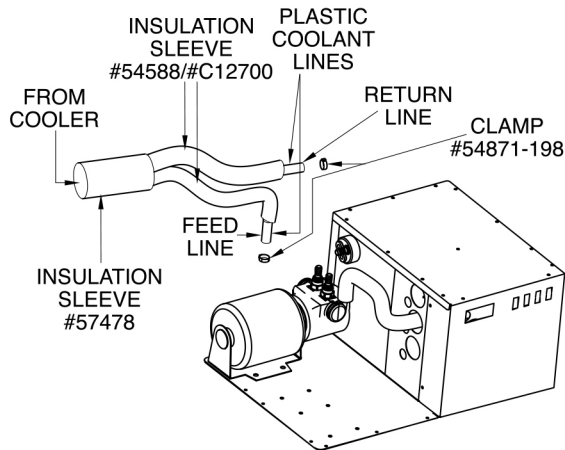
- Position the trunk housing so that beverage lines can be connected with a minimum cutting.
- Split trunk housing approximately 12 inches from the end to allow working room for the connections.
- Cut and deburr copper coolant lines coming from trunk housing and dispensing head. Stagger the lengths.
- Connect trunk housing coolant lines to dispensing head coolant lines using clamps, hose and 3/8" x 1/2" union, included in Head connecting kit, #63486. Ensure that coolant lines are fully clamped to guarantee a leak free connection.

4400 SERIES POWER PAKS - INSTALLATION

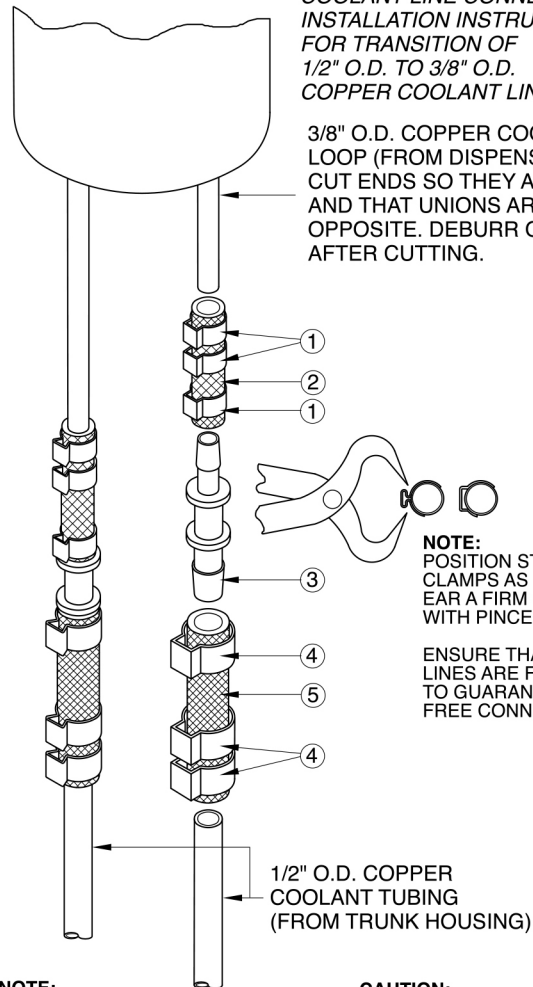
Operation/Installation Manual



INSTRUCTION DRAWING FOR 4400 SERIES POWER PAK COOLANT CONNECTOR KIT INSTALLATION INSTRUCTIONS



INSIDE "WALK IN" COOLER



COOLANT LINE CONNECTOR KIT INSTALLATION INSTRUCTIONS FOR TRANSITION OF 1/2" O.D. TO 3/8" O.D. COPPER COOLANT LINES.

3/8" O.D. COPPER COOLANT LOOP (FROM DISPENSING STATION). CUT ENDS SO THEY ARE STAGGERED AND THAT UNIONS ARE NOT DIRECTLY OPPOSITE. DEBURR O.D. AND I.D. AFTER CUTTING.

NOTE:
POSITION STEPLESS EAR CLAMPS AS SHOWN. GIVE EAR A FIRM SQUEEZE WITH PINCERS.

ENSURE THAT COOLANT LINES ARE FULLY CLAMPED TO GUARANTEE A LEAK FREE CONNECTION.

NOTE:
POSITION BEER LINES TO MAKE CONTACT WITH COOLANT LINES AND NOT OVER EARS OF CLAMP.

CAUTION:
MAXIMUM PRESSURE 150 P.S.I.G.

CONNECTOR KIT (1/2" O.D. TO 3/8" O.D.) #63486

ITEM	DESCRIPTION	PART NO.
①	STEPLESS CLAMP (NO. 15.70)	C31958
②	BRAIDED HOSE (F/3/8" O.D.)-3.0"	C14230B
③	HOSE UNION (3/8" TO 1/2")	63331
④	STEPLESS CLAMP (F1/2" O.D.)	54871-198
⑤	BRAIDED HOSE (F/1/2" O.D.)-3.0"	54589-1



4400 SERIES POWER PAKS - START-UP

Operation/Installation Manual

SYSTEM START-UP

Use only Perlick Approved Coolant Solution, #63299-1, all other solutions and mixtures will void the Perlick warranty. The Coolant Solution has been pre-mixed for optimum performance and wear protection. The Power Pak reservoir holds approximately 1.75 gallons of solution. It takes approximately 1 gallon of Coolant Solution to fill every 60 feet of Perlick Trunk Housing.

- Never operate the circulating pumps without coolant in the reservoir.
- Fill Power Pak reservoir with Perlick Coolant Solution.
- Turn condensing unit switch and pump switch to the ON position. Coolant solution level will begin to drop in reservoir.
- Continue adding Perlick Coolant Solution until no air bubbles are apparent from the Coolant return line. **NOTE: Never allow for the Coolant level in the reservoir to drop below the heat exchanger tube inlet. Allowing the level to drop below the inlet will allow air into the lines.**
- Fill Power Pak reservoir until both the return line fitting port and the overflow tube port are submerged under Coolant Solution. Watch return line fitting port for additional Coolant Solution may need to be added.
- Thoroughly check all field connection points for leaks.
- Monitor Power Pak Temperature read-out to ensure Power Pak is working properly. Dependent on length of trunk housing run(s) and surrounding ambient conditions, these factors will determine how long it takes for the Power Pak to cut-out on the temperature control.

DIGITAL TEMPERATURE CONTROLLER

The 4400 Series Power Pak comes equipped with a Factory Programmed Electronic Thermostat with display. The Thermostat has numerous factory settings, which should never be adjusted or tampered with to ensure proper operation of the Power Pak. The Thermostat has been factory programmed to cut-out at 30°F with a hysteresis/differential of 4°F.

Front Panel Commands—Normal Operation

SET:

To display target set point.

DEFROST:

To start a manual defrost. (This feature is available, however, the parameters for actuation are programmed, such that, no defrost is available).

Front Panel Commands—Programming Mode

SET:

Selects a parameter or confirms an operation.

UP ARROW:

Browses the parameter codes or increases the displayed value.

DOWN ARROW:

Browses the parameter codes or decreases the displayed value.

Meaning of LEDS

LED	MODE	FUNCTION
SNOWFLAKE	ON	Compressor Enabled
SNOWFLAKE Phase (flashing with DEFROST)	FLASHING	Programing Anti-short cycle delay enabled
DEFROST Phase (flashing with SNOWFLAKE)	FLASHING	Programming Drip time in progress

How to see the SETPOINT

- Press and immediately release the SET key: the display will show the Set point value.
- Press and immediately release the SET key or wait for 5 seconds to display the probe value again.

How to change the SETPOINT

- Press and hold the SET key for more than 2 seconds to change the Set point value.
- The value of the set point will be displayed and the SNOWFLAKE LED starts blinking.
- To change the Set value, press the UP or DOWN ARROWS, dependent on the new set point value.
- To memorize the new set point value, press the SET key again or wait 15 seconds.

DISPLAY MESSAGE MEANINGS

MESSAGE	MEANING
POF	Keyboard is locked out. No parameters can be adjusted without unlocking the keyboard.

ALARM	MEANING	ACTION
EE	Data or memory failure	Consult Factory
P1	Room probe failure	Numerous - see note 1

WARNING:

IF MESSAGE OR INFORMATION SHOWN ON READOUT IS UNFAMILIAR, ALLOW CONTROL TO SIT FOR A MINIMUM OF 15 SECONDS AND CONTROLLER SHOULD RETURN TO DISPLAY PROBE TEMPERATURE.

NOTE 1: Faulty probe, loose connection, broket wire. (Power Pak will continue to operate with a faulty probe. The controller has been factory programmed to continue operation with the compressor cycling on and off in 5 minute intervals.



4400 SERIES POWER PAKS - REPLACEMENT PARTS

Operation/Installation Manual

Replacement Parts

COMPONENT/MODEL		4404	4410	4414	4414-230	4420
Condensing Unit		572FG5108AA (C22652)	559HG5110HA (C22667)	1022593	1022594	C22668
	Compressor	262FG92UB.2	269HG9290AF	RRT10K1E- PFA-901	RRT10K1E- PFV-901	ZS19KAE- PFV-818
	Cond Fan Motor	1450076	1450095	050-0367-06	950-0344-00	950-0265-00
	Fan Blade	2455003	2455003			083-0033-01
	Start Components	US-PBNE6210Z1	US-PBNEK6214Z1			
	Water Regulator	N/A	N/A	N/A	N/A	N/A
Pump Motor		63292	63292	63293	63293	63293
Heat Exchanger		63303A	63300B	63301B	63301B	63302B
Gasket, Heat Exchanger		61758A	61758A	61758A	61758A	61758A
Grille		64197-1SS	64197-1SS	64197-1SS	64285-1SS	64286-1SS
Front Panel		64407-1SS	64407-1SS	64407-1SS	64285-1SS	64286-1SS
Contactor		N/A	N/A	N/A	63359	63359
Relay, Pump		N/A	N/A	N/A	63358	63358
Access Panel		N/A	N/A	1018561-1SS	1018561-1SS	1018561-1SS

COMPONENT/MODEL		4410W	4414W	4420W
Condensing Unit		1022591	1022592	C22666
	Compressor	RRT62C1E- IAA-901	RRT10K1E- PFA-901	CS18K6E- PKV-970
	Cond Fan Motor	N/A	N/A	N/A
	Fan Blade	N/A	N/A	N/A
	Start Components			
	Water Regulator	510-0049-00	510-0049-00	510-0049-00
Pump Motor		63292	63293	63293
Heat Exchanger		63300B	63301B	63302B
Gasket, Heat Exchanger		61758A	61758A	61758A
Grille		64197-1SS	64197-1SS	64285-1SS
Front Panel		64407-1SS	64407-1SS	64286-1SS
Contactor		N/A	N/A	63359
Relay, Pump		N/A	N/A	63358

Common Components

COMPONENT/MODEL	ALL MODELS
Expansion Valve	63826
Pump	63291-1
V-Clamp	63291-2
Pump Insulation	64425
Zip Tie, Pump Insul	57551
Temp Control Kit	67177

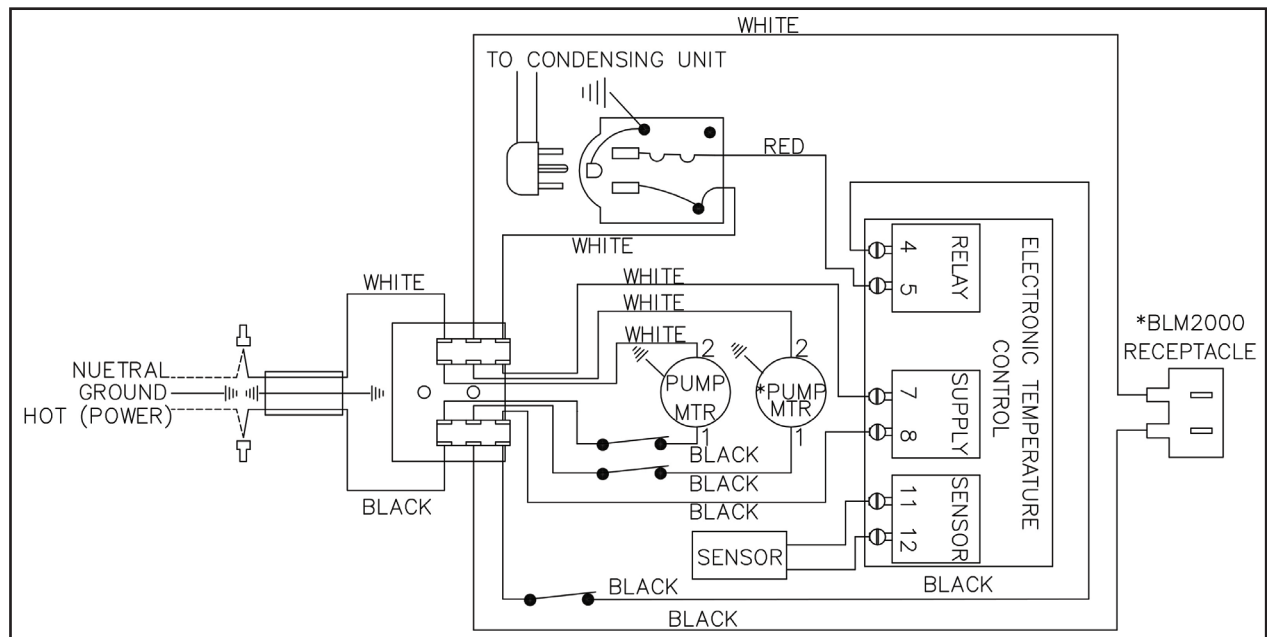
COMPONENT/MODEL	ALL MODELS
Controller, Digital	67139
Compression Fitting	63296-3
Switch	63303
Drier	63297
Coolant Solution	63299-1

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Wiring Diagram For 4404, 4410, 4414 115V Power Paks



Wiring Diagram For 414-230, 4420, AC115 - 208/240, 60 HZ Power Paks (4 Wire AC Power Source Required)

