

Service Manual ELITE AND REFLECTIONS

Cool Breeze Refrigerated Tables

CB and R-CB Models

For Service Information, call 800-544-3057

Please have the following information available before calling. Information can be found on the identification/certification tag:

- Model Number
- Serial Number
- Date of Purchase
- Part Description and number as shown in parts list

Piper Products, Inc. 300 South 84th Avenue Wausau, WI 54401

Phone: 715-842-2724 / Fax 715-842-3125



IMPORTANT INFORMATION READ BEFORE USE

9/3/2015	
2	For Total Community and 200 544 2057 For 745 242 2425
	For Tech Support, call 800-544-3057, Fax 715-842-3125 www.piperonline.net

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INTRODUCTION

Congratulations! You have just purchased one of the finest pieces of equipment on the market today. Before installing or operating your new Piper Products, Inc. equipment, you should read through this manual. This manual should be retained for further reference as it contains installation and operating instructions, service tips, part lists and warranty information.

For your safety, read and follow all cautions and warnings.

FREIGHT DAMAGE CLAIMS

Your Piper Products equipment was carefully inspected and packed before leaving our factory. The transportation company assumes full responsibility for safe delivery of this equipment. Piper Products cannot assume responsibilities for damage or loss incurred in transit. Visible damage or loss should be noted on the freight bill and signed by the person making the delivery.

A freight claim should be filed immediately with the transportation company. If damage is unnoticed or concealed until equipment is unpacked, notify the transportation company immediately and tell them you want to file a concealed damage claim. This must be done within ten (10) days after delivery was made. Be sure to retain all packing material and cartons.

WARNING

Installation of this equipment should be done only by persons qualified or licensed to install electrical equipment.

Adjustments and service work should be performed only by a qualified service technician. Service is available through Authorized Piper Products Parts and Service Distributors throughout the United States. For a complete listing of these call or write Piper Products, Inc. for the name of the nearest distributor.

This equipment is intended for commercial use only. Not for household use.

Use of other than genuine Piper Products replacement parts or service work performed by other than an authorized Piper Products service agent will void the warranty.

Do not use any corrosive cleaners. Piper only approves soap and water for cleaning stainless steel.

INSTALLATION



ELECTRICAL CONNECTION

WARNING!!!! DO NOT USE EXTENSION CORDS (VOIDS WARRANTY)

Ground:

The electrical outlet must be provided with an efficient ground, and the voltage and the frequency of the electrical line matches those indicated on the data plate.



If unsure about the efficiency of the ground, have your electrical circuit checked by a qualified technician

Supply Voltage:

When the cooler is operating, check that the supply voltage is not dropping or increasing under/over + 10% the rated voltage (98 Volts to 127 Volts) OR (198 Volts to 243 Volts)



The manufacturer is not responsible for damages or accidents arising from the misuse or disregard of electrical connections.

Outside Storage: ATTENTION!

- The cooler is not designed for outdoor use.
- The cooler should not be stored outside in direct sun or rain.

Ambient (Environmental) Conditions:

 Only locate the cooler in a maximum condition of 80°F (27°C) and 60% Relative Humidity

Positioning:

- Keep away from heat sources, such as radiators or air conditioning pipes.
- The ambient temperature must not be higher than 80°F (27°C).

Air Flow:

- When installing unit, make sure there is a minimum of 2 inches air space at the louvered panel located at the end of the unit.
- 12 inches air space at the louvered panel front and rear of the cabinet.

Cooler Leveling:

• To provide the best performance the cooler must remain level.

START-UP AND OPERATION

OPERATING THE COOLER

Before Operating the Cooler

- Ensure that the electrical outlet is connected effectively to earth (ground), suitable to provide the voltage indicated on the data plate.
- Ensure proper air flow to the front rear and sides.
- Ensure the cooler is level.

Electrical Service Switch: Turn the control panel switch to the "ON" position.

- The pilot light will light and the condensing unit will start.
- Note: After 30min (+/-) the bottom of the cold pan should be cold to the touch and start to frost over.

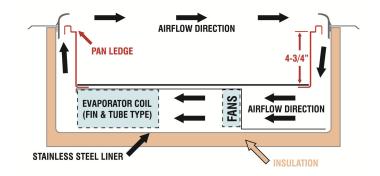
Energy Savings / Product Performance Location Tips:

- When possible, DO NOT place the cooler near air conditioning vents or returns.
- When possible, place the cooler the maximum distance from the exit or entrance door.

THEORY OF OPERATION

The Cool Breeze Table (CB, R-CB) is designed to display cold foods and salads during the meal period.

NOTE: Cold Food Tables are NOT refrigerators and will NOT keep food cold for long periods of time. Food should always be placed into the table directly from the refrigerator. When the food in the table reaches a temperature of 38° to 40° Fahrenheit it should be placed back into the refrigerator and replaced with cold food from the refrigerator.



THERMOSTAT SETTINGS

The thermostat has a preset temperature of 39° Fahrenheit with a 4° differential from the factory.





To display target set point. In programming mode it selects a parameter or confirms an operation.



To start manual defrost.



In programming mode it browses the parameter codes or increases the displayed value.



In programming mode it browses the parameter codes or decreases the displayed value.

KEY COMBINATIONS



To lock or unlock the keyboard



To enter in programming mode

SET+A

To return to room temperature display

LED	MODE	SIGNIFICATION
xtx	On	Compressor enabled
**	Flashing	Anti-short cycle delay enabled (AC parameter)
址	On	Defrost in progress
****	Flashing	Dripping in progress
y.	On	Fans output enabled
	Flashing	Fans delay after defrost
°C	On	Measurement unit
_	Flashing	Programming mode
•	On	Measurement unit
_	Flashing	Programming mode

HOW TO SEE THE SET POINT

- 1. Push and immediately release the **SET** key. The set point will be shown.
- 2. Push and immediately release the **SET** key or wait about 5 seconds to return to normal visualization.

HOW TO CHANGE THE SETPOINT

- 1. Push the **SET** key for more than 2 seconds to change the Set Point Value.
- 2. The value of the set point will be displayed and the "C" or "F" LED starts blinking
- 3. To change the set value push the û or ♣arrows.
- 4. To memorize the new set point value push the **SET** key again or wait 10 seconds.

HOW TO START A MANUAL DEFROST

Push the DEF key for more than 2 seconds and a manual defrost will start.

Message	Cause	Outputs
"P1"	Room probe failure	Compressor output according to "Cy" and "Cn"
"P2"	Evaporator probe failure	Defrost end is timed
"HA"	Maximum temperature alarm	Outputs unchanged
"LA"	Minimum temperature alarm	Outputs unchanged
"EA"	External alarm	Outputs unchanged
"CA"	Serious external alarm	All outputs OFF
"dA"	Door open	Compressor and fans restart

ALARM RECOVERY

Probe alarms "P1" and "P2" start some seconds after the fault in the related probe; they automatically stop some seconds after the probe restarts normal operation. Check connections before replacing the probe. Temperature alarms "HA" and "LA" automatically stop as soon as the temperature returns to normal values.

Alarms "EA" and "CA" (with iF=bL) recover as soon as the digital input is disabled.

MAINTENANCE

To obtain the best performance from your equipment, it should be cleaned daily and maintained in good condition.



SAFETY / ENVIRONMENTAL CAUTION

PERSONAL PROTECTION:

Check your company safety and environmental policy before cleaning or servicing.



Safety Tip!: Utilize protective gloves and safety glasses

ELECTRICAL POWER:



Before performing EXTENDED CLEANING where electrical components can become wetted, the power switch must be turned to OFF and the unit disconnected from the power source.



WARNING: Do not use any chlorinated or highly caustic cleaners, acids, ammonia or other corrosive cleaners. These may cause corrosion and/or damage to the stainless steel. Piper only approves soap and water for cleaning stainless steel. Do not allow water to stand in wells for long periods of time. Well must be emptied and cleaned after every serving period.

REQUIRED MONTHLY MAINTENANCE:

- Check that the condenser fan works properly
- Check thermostat settings
- Check operating temperature of unit
- Clean entire refrigerated case
- Clean condenser coils
- Check and clean drainage lines
- Check electrical connection
- Check the evaporator fan

STAINLESS STEEL AND GENERAL CLEANING

Stainless Steel and Aluminum:

- Piper only approves soap and water for cleaning stainless steel.
 - NOTICE: Do NOT use chlorinated cleaners.

General Surfaces, Fiberglass:

- Clean surfaces with a soft cloth or sponge utilizing a mild detergent. Rinse completely with warm water and then dry.
 - NOTICE: Do NOT use steel wool

Hardened Foods or Scale Deposits:

- Clean hardened foods or scale deposits by utilizing a <u>plastic</u> scouring pad and a mild detergent. Rinse completely with warm water and dry.
 - NOTICE: Do NOT use steel wool

CLEANING CONDENSING UNIT (CB)

NOTICE: FAILURE TO PROPERLY CLEAN THE CONDENSER WILL VOID THE WARRANTY

Monthly cleaning of the condensing unit is essential for product temperature and refrigeration system performance.

Cleaning Method:

- **WARNING**: Disconnect electrical power to the cooler by turning master switch to the "OFF" position and unplugging cooler from electrical receptacle
- Remove the louvered panels from the condensing unit compartment.
- Clean condenser by using a brush and vacuum cleaner to remove all dust and dirt.



CAUTION: The fins on the condensing unit coils are sharp! **Safety Tip!:** Utilize protective gloves and safety glasses



WARNING: Refrigerant is under high pressure. Do **NOT** bend, kink or damage any tubing or condensing unit coil.

TROUBLESHOOTING GUIDE

If problems are not found by the following checks, then you should contact your Authorized Parts and Service Dealer for service. They have the necessary parts and training to repair your unit quickly and efficiently.



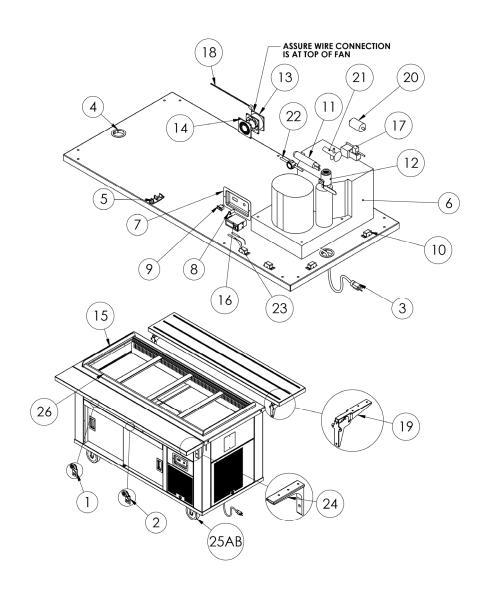
DANGER: Disconnect all power to unit before servicing.

Symptoms	Possible Cause	Remedies
	No electrical supply	Is the unit plugged in?
Indicator light is off and		Check circuit breaker and fuse.
condensing unit does not run		Check switch on control panel is in "on" position.
		Call a service technician.
Indicator light is on but condensing unit does not run	Thermostat Control	Is the thermostat control set properly?
	Ducting	Are there heating or A/C ducts, make-up air ducts or fans causing cool drafts?
Unit does not cool to proper	Not pre-cooled	Has the unit been allowed to pre-cool for at least 30 minutes?
temperature	Thermostat Control	Is the thermostat control set properly?
	Voltage	Call a service technician.
	Air flow	Check condenser and evap. coils for proper air flow.
	Ducting	Are there heating are A/C ducts, make-up air ducts or fans causing cool drafts?
	Food longer than 4 hours	Food should not be kept in CB units for long periods of time.
Does not maintain food	Not pre-cooled	Has the unit been allowed to pre-cool for at least 30 minutes?
temperature	Food Temperature	Were pans of food placed into the unit at or below 38°F?
	Pans covered	Remove pan covers to achieve proper air flow.
	Thermostat Control	Is the thermostat control set properly?
	Voltage	Call a service technician.

Call Piper Products directly at 800-544-3057 if you need further assistance.

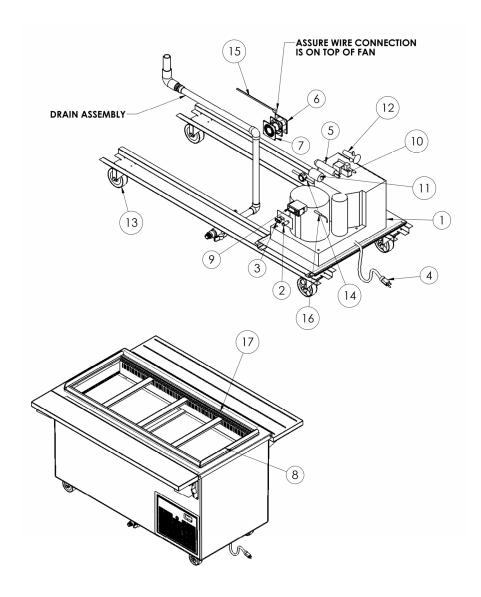
CB EXPLODED VIEW

ITEM	PART NO.	DESCRIPTION
1	0271005	ROLLER: #B58-5523 NYL RR SL DR
2	0271006	ROLLER: NYLON FRONT SLDG DOOR
3	0111877	SJTOW 14/3 WIRE AC POWER CORD
4	0036795	BUSHING - 2.5
5	0161093	GUIDE: B62-1093 NYLON DOOR
6	0112910	CONDENSER - COOL BREEZE
7	0832050	CONTROL PANEL - CM
8	0189500	Indicator Light
9	0331350	SWITCH: TA201-TB-B ON/OFF Tab
10	0056950	CATCH: 592 MAGNETIC
11	0112083	ACCUMULATOR - 5.8 CU IN 3/80DF
12	0375725	VALVE - 1" CM
13	0115141	FAN - TUBEAXIAL 3.15" SQ 33CFM
14	0115427	COVER - FAN COOL BREEZE
15	0115157	ACRYLIC - END COOL BREEZE
16	0115055	DIGITAL CONTROL - ICF/BMD
17	0114525	VALVE - SOLENOID 1/4 ODF 120V
18	0115306	CORD - FAN POWER RPC24
19	0817060	HINGE - SRTS
20	0112764	DRIER - REFRIG C032S 1-4 ODF
21	0112763	VALVE - TXV NEW STYLE COOL BREEZE
22	13-104385	INDICATOR , MOISTURE 1/4" ODF *
23	706420	PROBE - 18NB-NTC-2.5M
24	0028800	HINGE - CUTTING BOARD
25A	CSTR-5PP	5" CASTER NO BRAKE
25B	CSTR-5PPB	5" CASTER WITH BRAKE
26		DEFLECTOR - PLASTIC CB *CONSULT FACTORY*
	1501109	6" S/S LEG IN LIEU OF CASTERS (NOT SHOWN)



R-CB EXPLODED VIEW

ITEM	PART NO.	DESCRIPTION
1	0112910	CONDENSER – COOL BREEZE
2	0189500	INDICATOR LIGHT
3	0331350	SWITCH: TA201-TB-B ON/OFF Tab
4	0111877	SJTOW 14/3 WIRE AC POWER CORD
5	0112083	ACCUMULATOR - 5.8 CU IN 3/80DF
6	0115141	FAN – TUBEAXIAL 3.15" SQ 33CFM
7	0115427	COVER - FAN COOL BREEZE
8	0115157	ACRYLIC - END COOL BREEZE
9	0115055	DIGITAL CONTROL - ICF/BMD
10	0114525	VALVE - SOLENOID 1/4 ODF 120V
11	0112764	DRIER - REFRIG C032S 1-4 ODF
12	0112763	VALVE – TXV NEW STYLE COOL BREEZE
13	CSTR-4POPB	4" CASTER WITH BRAKE
14	13-104385	INDICATOR, MOISTURE 1/4" ODF*
15	0115306	CORD – FAN POWER RPC24
16	706420	PROBE – 18NB-NTC-2.5M
17		DEFLECTOR – PLASTIC CB *CONSULT FACTORY*
	1501109	6" S/S LEG IN LIEU OF CASTERS (NOT SHOWN)



WIRING DIAGRAM POWER SWITCH INDICATOR LAMP DIXEL XR06CX CONTROLLER 9 10 11 12 5 6 7 HOT GAS SOLENOID WATERTIGHT FAN CONNECTION EVAPORATOR FANS 120 VOLT AC 10.3 AMPS **1236 WATTS**

PIPER PRODUCTS, INC. LIMITED WARRANTY

Piper Products, Inc. warrants to the original purchaser that its equipment will be free from defects in the materials and/or parts for a period of 12 months from date of shipment and reported to the factory.

The purchaser is responsible for having equipment properly installed, operated under normal conditions with proper supervision and to perform periodic preventative maintenance. Equipment failures caused by inadequate water quality, improper cleaning, harsh chemicals, or acids are not covered under warranty.

The manufacturer's obligation under this warranty shall be the replacement or repair of defective parts within the warranty period. Excessive labor (more than 1/2 hour) required to access Piper equipment built into cabinets, tables or structures by others, is NOT covered under labor warranty. Example: Piper multiple-or single-well food wells. All labor shall be performed during regular working hours. Overtime premium will be charged to buyer. After thorough examination, the decision of the Piper Products Service Department shall be final.

Any defective parts to be repaired or replaced must be returned to Piper Products, Inc., 300 South 84th Avenue, Wausau, WI 54401, transportation charges prepaid, and they must be properly packed and tagged. The serial and model number of the equipment and date of original installation of such equipment must be given. However, after one year we will not assume any responsibility for any expenses (including labor) incurred in the field incidental to the repair or replacement of equipment covered by this warranty. Our obligation hereunder to repair or replace a defective part is the exclusive remedy for breach of this warranty; and we will not be liable for any other damages or claims, including consequential damages.

If, upon inspection by Piper Products, Inc. or its Authorized Service Agency, it is determined that this equipment has not been properly installed or has not been used in an appropriate manner, has been modified, has not been properly maintained, the warranty will be void. Also, if the nameplate or other identifying marks have been removed, defaced or changed or the unit has been repaired or altered by persons other than expressly approved by Piper Products, Inc., the warranty will be void. If the equipment has been subjected to misuse or misapplication, neglect, abuse, accident, damage during transit or delivery, fire, flood, riot or acts of God, then this warranty shall also be void. When any situation occurs which voids the warranty the manufacturer shall not be liable for any damage to any person or any property which may result from the use of the equipment thereafter.

Warranty is limited to Piper manufactured products only and does not apply to other equipment which may be connected to or installed within.

No representative, dealer, distributor or any other person is authorized or permitted to make any other warranty or obligate Piper Products, Inc. to any liability not strictly in accordance with this policy.

This warranty is in lieu of all other warranties expressed or implied, including any warranty of merchantability, and fitness for a particular purpose. Piper Products does hereby exclude and shall not be liable to purchaser for any consequential or incidental damages including but not limited to damages to property, damages for loss of use, loss of time, loss of profits or income, resulting from any breach of warranty.

9/3/2015



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