This cooler has passed the QUALITY CONTROL INSPECTION and meets the high standards at Beverage-Air. This inspection includes complete refrigeration system, cabinet construction & finish.

Quality Control Inspector, Beverage-Air
• **INSPECTION ON ARRIVAL**

Upon arrival of the cooler, the carton should be carefully inspected for any outward sign of damage. If any sign of damage is found, it should be noted on the carrier’s freight bill before signing for the merchandise. In any case, the cooler should be immediately uncrated to check for apparent or concealed damage within 48 hours after delivery and the carrier notified for an inspection within this period.

• **UNCRATING - SM, SMF, MS MODELS**

To uncrate cooler, remove staples around the bottom of carton with screwdriver. Care should be taken to remove the staples completely so that they will not damage the cooler finish when the carton is removed. Lift the carton tube from around the cooler. Remove cooler from skid.

• **LOCATING COOLER**

It is necessary to properly level cooler to provide adequate drainage and efficient functioning of the unit. Make sure there is enough room around the cooler to assure good air circulation through the condenser.

• **ELECTRICAL SUPPLY**

Plug all standard models into a 110-115 volts A.C. 50- or 60-cycle outlet. Low line voltage is often the cause of service complaints. Check to see that the live voltage is 110 volts or more with the unit running. Other motors or heavy appliances should not be used on the same circuit with the cooler. When working on the inside of the cooler, disconnect from electrical circuit for safety reasons.

• **STARTING UP OF UNIT**

Factory setting of temperature control is at No. 5 position (normal) on control dial which will maintain the temperature as follows:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>36°F</td>
<td>SM Models</td>
</tr>
<tr>
<td>40°F</td>
<td>MS Models</td>
</tr>
</tbody>
</table>

For colder temperature, turn control knob to higher number, one position at a time. Excessive tampering with the control could lead to service difficulties. Should it become necessary to replace temperature control, be sure it is ordered from an authorized Beverage-Air distributor or direct from the factory.

• **DRAINAGE — MS MODELS**

The condensation drains into a condensate disposal pan located just below unit compartment grill. This pan is equipped with vapor glass wicking to hasten the evaporation process so plumbing is not required. The drain lines and pan should be thoroughly cleaned periodically as solids from spilled products may not evaporate, resulting in an unsanitary condition.

• **CLEANING**

The cooler should be thoroughly cleaned inside and out at regular intervals to preserve the finish and appearance. If stainless steel becomes discolored or stained, it can be cleaned with standard cleaners such as Bon-Ami, but not with steel wool. All dirt and lint should be removed from the condenser at regular intervals for efficient performance of the cooler.
<table>
<thead>
<tr>
<th>MALFUNCTION</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor will not start — no hum.</td>
<td>1. Line cord not plugged in. 2. Fuse removed or blown. 3. Overload protector tripped. 4. Control stuck in open position. 5. Wiring improper or loose.</td>
<td>1. Plug in line cord. 2. Replace fuse. 3. Refer to electrical section. 4. Repair or replace control. 5. Check wiring against diagram.</td>
</tr>
<tr>
<td>Compressor will not start — hums but trips on overload protector.</td>
<td>1. Improperly wired. 2. Low voltage to unit. 3. Starting capacitor defective. 4. Relay failing to close.</td>
<td>1. Check wiring against diagram. 2. Determine reason and correct. 3. Determine reason and replace. 4. Determine reason and correct. Replace if necessary.</td>
</tr>
<tr>
<td>Compressor starts but does not switch off of start winding.</td>
<td>1. Low voltage to unit. 2. Relay failing to open. 3. Run capacitor defective. 4. Compressor motor has a winding open or shorted.</td>
<td>1. Determine reason and correct. 2. Determine reason and correct. Replace if necessary. 3. Determine reason and replace. 4. Replace compressor.</td>
</tr>
<tr>
<td>Compressor starts and runs, but short cycles on overload protector.</td>
<td>1. Additional current passing through overload protector. 2. Low voltage to unit. 3. Overload protector defective. 4. Run capacitor defective. 5. Excessive discharge pressure. 6. Compressor too hot — return hot gas.</td>
<td>1. Check wiring diagram. Check for added fan motors, pumps, etc., connected to wrong side of protector. 2. Determine reason and correct. 3. Check current, replace protector. 4. Determine reason and replace. 5. Check ventilation, restrictions in cooling medium, restrictions in refrigeration. 6. Check refrigerant charge (fix leak). Add if necessary.</td>
</tr>
<tr>
<td>Unit operates long or continuously.</td>
<td>1. Shortage of refrigerant. 2. Control contacts stuck or frozen closed. 3. Evaporator coil iced. 4. Restriction in refrigeration system. 5. Dirty condenser.</td>
<td>1. Fix leak. Add charge. 2. Clean contacts or replace control. 3. Defrost. Determine location and remove. 5. Clean condenser.</td>
</tr>
<tr>
<td>Start capacitor open, shorted or blown.</td>
<td>1. Relay contacts not opening properly. 2. Low voltage to unit. 3. Improper relay.</td>
<td>1. Clean contacts or replace relay, if necessary. 2. Determine reason and correct. 3. Replace.</td>
</tr>
<tr>
<td>Run capacitor open, shorted or blown.</td>
<td>1. Improper capacitor. 2. Excessively high (line) voltage (11- % of rated max.)</td>
<td>1. Determine correct size and replace. 2. Determine reason and correct.</td>
</tr>
<tr>
<td>Relay defective or burned out.</td>
<td>1. Incorrect relay. 2. Line voltage too high or too low. 3. Relay being influenced by loose vibrating mounting.</td>
<td>1. Check and replace. 2. Determine reason and replace. 3. Remount rigidly.</td>
</tr>
<tr>
<td>Space temperature too high.</td>
<td>1. Control setting too high. 2. Improper overcharge. 3. Inadequate circulation.</td>
<td>1. Reset control. 2. Recover refrigerant and recharge with proper charge specified on data plate. 3. Improve air movement.</td>
</tr>
<tr>
<td>Cooler freezing beverage.</td>
<td>1. Control setting.</td>
<td>1. Reset control.</td>
</tr>
<tr>
<td>Unit noisy.</td>
<td>1. Loose parts or mountings. 2. Tubing rattle. 3. Bent fan blade causing vibration. 4. Fan motor bearings worn.</td>
<td>1. Find and tighten. 2. Reform to be free of contact. 3. Replace blade. 4. Replace motor.</td>
</tr>
</tbody>
</table>

ALL SERVICING MUST COMPLY WITH STATE AND FEDERAL REGULATIONS.

BEVERAGE-AIR

FEDERAL LAW REQUIRES THAT SOME REFRIGERANTS BE RECOVERED PRIOR TO SERVICING.
• **REFRIGERATION SYSTEM**

The Refrigeration System consists of a 115v. 60 Hz. hermetically sealed compressor, finned evaporator and condenser.

• **CONDENSER**

The condenser has wide finned spaces which allow more air passage with less dirt or dust accumulation. The condenser still requires periodic cleaning for maximum efficiency.

• **CONDENSER FAN MOTOR**

The condenser fan motor assembly is mounted between the condenser and compressor. Air is drawn through the condenser, over the body of the compressor and then out the rear of the unit compartment.

The motor is wired to cycle with the compressor but will continue to operate should the compressor cut out on the overload (the motor is permanently lubricated; therefore, oiling is not required).

• **DRIER**

The drier is installed in the system just before the capillary tube. Its purpose is to trap minute particles of foreign material and absorb any moisture in the system.

• **LIQUID CONTROL AND HEAT EXCHANGE**

Liquid refrigerant control to the evaporator of the system is accomplished by the use of a capillary tube. This capillary tube is soldered to the suction line to form a heat exchanger which subcools the liquid refrigerant to maintain high efficiency within the system.

**REFRIGERATION SERVICE**

• **EVACUATION**

Moisture in a refrigeration system is directly or indirectly the cause of more problems and complaints than all other factors combined. When large amounts are present, system freeze-ups will occur. Even in minute amounts, moisture will combine with refrigerants to form a hydrochloric acid. The corrosive action of this acid forms sludge which will plug the lines and drier.

Only a vacuum pump should be used for evacuation because operating the compressor in a deep vacuum could cause serious damage to the compressor windings. Since most field-type vacuum pumps cannot pull a low enough vacuum to remove moisture from the system, it is recommended that the system be triple evacuated, breaking each time with dry refrigerant. Use care to purge air from the charging hose when breaking the vacuum. After third vacuum, backseat valves and proceed with replacement charge.

• **CHARGING REFRIGERATION SYSTEM**

Since capillary tube systems have small critical refrigerant charges, we recommend that a field charge either be weighed in or put in from a portable charge board. After maximum vacuum has been obtained as detailed above, attach charging cylinder to the suction line making sure to purge air from hose with refrigerant. With the unit running, allow refrigerant to run slowly into the system until the desired charge is reached.

**OVERCHARGE**

When cabinet has pulled down to operating temperature, an indication of an overcharge is that the suction line will be cooler than normal with the compressor running. Running time will be higher than normal. Suction line will sweat or frost.

Purge excessive refrigerant from the system very carefully in small amounts, waiting several minutes for the system to balance.

**UNDERCHARGE**

An undercharge or shortage of refrigerant will result in any or all of the following:
1. Lower than normal head pressure.
2. Lower than normal suction pressure.
3. Excessive or continuous operation of compressor.
4. Higher than normal cabinet temperature.

When correct charge has been obtained with cabinet at operating temperature, several seconds after compressor has started after cycle, suction line will frost and remain frosted for approximately (60) seconds.
## METHODS FOR CLEANING STAINLESS STEEL

### CLEANING AGENT*

<table>
<thead>
<tr>
<th>Routine Cleaning</th>
<th>Soap, ammonia or detergent and water.</th>
<th>Sponge with cloth, then rinse with clear water and wipe dry.</th>
<th>Satisfactory for use on all finishes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smears and Fingertips</td>
<td>Arcl 20, Lac-O-Nu, Lumin Wash O’Cedar Cream Polish, Stainless Shine.</td>
<td>Rub with cloth as directed on the package.</td>
<td>Satisfactory for use on all finishes. Provides barrier film to minimize prints.</td>
</tr>
<tr>
<td>Stubborn Spots and Stains, Baked-On Splatter, and Other Light Discolorations</td>
<td>Alchem Concentrated Cleaner. Samae, Twinkle or Cameo Copper Cleaner. Grade FFF Italian pumice, whitening, or talc. Liquid NuSteel. Paste NuSteel or DuBois Temp. Copper’s Stainless Steel Cleaner, Revere Stainless Cleaner. Household cleansers such as Old Dutch, Lighthouse, Sunbrite, Wyandotte, Bab-O, Gold Dust, Sapolio, Bon Ami, Ajax, or Comet. Grade F Italian Pumice, Steel Bright, Lumin Cleaner, Zud, Restoro, Sta-Clean, or Highlite. Penny-Brite or Copper-Brite.</td>
<td>Apply with a damp sponge or cloth. Rub with a damp cloth. Rub with a dry cloth. Use small amount of cleaner. Rub with a dry cloth using a small amount of cleaner. Apply with a damp sponge or cloth. Rub with a damp cloth. May contain chlorine bleach. Rinse thoroughly after use. Rub with a dry cloth. Use small amount of cleaner. Rub with a dry cloth using a small amount of cleaner. Apply with a damp sponge or cloth. Rub with a dry cloth.</td>
<td>Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish.</td>
</tr>
<tr>
<td>Heat Tint or Heavy Discoloration</td>
<td>Penny-Brite or Copper-Brite. Paste NuSteel, DuBois Temp, or Tarnite. Revere Stainless Steel Cleaner. Allen Polish, Steel Bright, Bab-O, Wyandotte, or Zud.</td>
<td>Rub with a dry cloth. Rub with a dry cloth or stainless steel wool. Apply with a damp sponge or cloth. Rub with a damp cloth.</td>
<td>Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish. Use in direction of polish lines on No. 4 (polished) finish.</td>
</tr>
<tr>
<td>Burnt-On Foods and Grease Fatty Acids, Milkstone (where swabbing or rubbing is not practical)</td>
<td>Easy-Off, De-Grease-It, 4% to 6% hot solution of such agents as trisodium phosphate or sodium tripolyphosphate or 5% to 15% caustic soda solution.</td>
<td>Apply generous coating. Allow to stand for 10-15 minutes. Rinse. Repeatedly application may be necessary. Apply with a damp sponge or cloth. Rub with a damp cloth.</td>
<td>Excellent removal, satisfactory for use on all finishes. Use in direction of polish lines on No. 4 (polished) finish. May scratch No. 2 (mill) and Nos. 7 and 8 (polished) finishes.</td>
</tr>
<tr>
<td>Tenacious Deposits, Rusty Discolorations, Industrial Atmospheric Stains</td>
<td>Oakite No. 33, Dilac Texo 12, Texo N.Y., Flash-Klenz, Caddy Cleaner, Turco Scale 4368 or Permag 57.</td>
<td>Swab and soak with a clean cloth. Let stand for 15 minutes or more according to directions on package, then rinse and dry. Swab and soak with a clean cloth. Let stand for 10-15 minutes. Always follow with neutralizer rinse and dry.</td>
<td>Satisfactory for use on all finishes.</td>
</tr>
<tr>
<td>Hard Water Spots and Scale</td>
<td>Vinegar.</td>
<td>Swab or wipe with a cloth. Rinse with water and dry. Swab or soak with a cloth. Let stand 10-15 minutes. Always follow with neutralizer rinse and dry.</td>
<td>Satisfactory for all finishes. Effective on tenacious deposits or where scale has built up.</td>
</tr>
</tbody>
</table>

### NOTES:

* Use of proprietary names is intended only to indicate a type of cleanser, and does not constitute an endorsement, nor is omission of any cleanser to imply its inadequacy. It should be emphasized that all products should be used in strict accordance with instructions on package.

** In all applications a stainless steel wool or sponge or fibrous brush or pads are recommended. Avoid use of ordinary steel wool or steel brushes for scouring stainless steel.

### SUGGESTIONS:

- Use the mildest cleaning procedure that will do the job effectively.
- Rub in the direction of polish lines for maximum effectiveness and to avoid marring the surface.
- Rinse thoroughly with fresh water after every cleaning operation.
- Wipe dry to avoid water marks.

CLEANING data supplied by AISI.

Winston-Salem, North Carolina
Brookville, Pennsylvania
MADE IN U.S.A.

ILA-1265
Instructions for SS Cleaning
WARRANTY

SALES TERMS
Warranty valid only in USA and Canada

PRICES & SPECIFICATIONS
Beverage-Air reserves the right to change the price and specifications of the equipment and/or material without notice. Prices are f.o.b. plant of manufacture.

Cancellation
Buyer may cancel its order, reduce quantities, revise specifications, or extend schedules only by mutual agreement as to reasonable and proper cancellation charges which shall take into account expenses already incurred and commitment made by seller, and buyer shall indemnify seller against any loss.

Freight Class
All Beverage-Air products ship under 100-110 freight classification.

Customer's Freight Damage Procedure
Before signing the carrier’s freight bill the customer should do the following:

Visible Damage:
1. Inspect shipment for any damage. If you see damage or feel there may be concealed damage, mark the carrier’s copy of the freight bill "damaged".
2. If there is damage to your shipment, action must be taken by you to notify the carrier within 48 hours of receipt. A freight claim must be filed with the carrier and an inspection scheduled by the carrier. It is the duty of the carrier to give you a written report upon notification. (VISIBLE AND CONCEALED).
3. For visible damage do not accept delivery unless the condition is noted on your copy of the freight bill and signed by the driver.

Concealed Damage:
4. If the damage is concealed, notify the carrier within 48 hours by phone and in writing. Ask them to send their agent to complete an inspection report. Retain all cartons and merchandise for inspection. It is critical that the customer take the above actions.

Return Of Product
EQUIPMENT - Prior Authorization must be granted by Beverage-Air before equipment can be returned for credit. Returns will only be authorized within 90 days of invoice date. Return authorizations are valid for 60 days. Equipment approved for return is subject to a 25% restocking charge. Returned equipment must be shipped freight pre-paid, packed in original carton, and received in good condition.

PARTS - Prior Authorization must be granted by Beverage-Air before parts can be returned for credit. Returns will only be authorized within 30 days of invoice date. Return authorizations are valid for 60 days. Parts approved for return are subject to a 25% restocking charge. Returned parts must be shipped freight prepaid, in the original packaging, and received in good condition.

ONE (1) YEAR PARTS AND LABOR WARRANTY
(H - MODELS CARRY 18 MONTHS WARRANTY):
Beverage-Air Corporation warrants to the original purchaser of Beverage-Air branded equipment, including all parts thereof, that such equipment is free from defects in material and workmanship, under normal use and service as indicated by Beverage-Air installation and operation instructions, for a period of one (1) year (18 months for H - models) from the date of installation, or twenty-four (24) months (30 months for H - models) from the date of shipment from the manufacturer, whichever is earlier. For the purpose of this warranty, the original purchaser shall be deemed to mean the individual or company for whom the product was originally installed. Our obligation under this warranty shall be limited to repairing or replacing, including labor, any part of such product, which proves to be defective. Beverage-Air reserves the right to examine any product claimed to be defective. If after review by Beverage-Air, the product is not deemed defective, Beverage-Air reserves the right to deny payment for repair and labor. The labor warranty shall be for self-contained units only and for standard straight time, which is defined as normal service rate time, for service performed during normal working hours. Any service requested outside of a servicer’s normal working hours will be covered under this warranty at the normal rate and any additional overtime rate will be the responsibility of the equipment purchaser.

Any part determined to be defective in the product should be returned to the company within thirty (30) days under the terms of this warranty and must be accompanied by a record of the cabinet model, serial number, and identified with a return goods authorization number issued by the manufacturer.

Special installation/applications are not covered by this warranty. Any installation that requires extra work to gain access to the unit for service to the unit is the sole responsibility of the equipment purchaser.

Improper operation resulting from factors, including but not limited to, low voltage conditions, inadequate wiring, and accidental damage are not manufacturing defects and are strictly the responsibility of the purchaser.

Condenser coils must be cleaned at regular intervals. Failure to do so can cause compressor malfunction and will void warranty. Although cleaning requirements may vary in accordance with the operation of various products, Beverage-Air recommends a minimum monthly cleaning.

ADDITIONAL FOUR (4) YEAR COMPRESSOR PART WARRANTY
In addition to the warranty set forth above, Beverage-Air warrants the hermetically / semi-hermetically sealed compressor (part only) for an additional four (4) years; not to exceed seventy-two (72) months (78 months for H - models) from the date of shipment from Beverage-Air, provided upon receipt of the compressor, manufacturer examination shows the sealed compressor to be defective. This extended warranty does not cover freight for the replacement compressor nor return of the failed compressor. Also, this extended compressor-part only warranty does NOT apply to any electrical controls, condenser, evaporator, fan motors, overload switch, starting relay, capacitors, temperature control, filter/drier, accumulator, refrigeration tubing, wiring harness, labor charges, or supplies which are covered by the standard warranty above.

NO CLAIMS CAN BE MADE AGAINST THIS WARRANTY FOR SPOILAGE OF PRODUCTS, LOSS OF SALES OR CONSEQUENTIAL DAMAGES.

THE FOREGOING WARRANTIES ARE EXPRESSLY GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED, AND ALL OTHER OBLIGATIONS OR LIABILITIES ON OUR PART, AND WE NEITHER ASSUME, NOR AUTHORIZE ANY OTHER PERSON TO ASSUME FOR US, ANY OBLIGATION OR LIABILITY IN CONNECTION WITH THE SALE OF SAID REFRIGERATION UNITS OR ANY PARTS THEREOF.

This warranty shall not be assignable and shall be honored only in so far as the original purchaser.

This warranty does not apply outside the limits of the United States of America and its territories and Canada, nor does it apply to any part that has been subject to misuse, neglect, alteration, accident, or to any damage caused by transportation, flood, fire, acts of terrorism, or acts of God.

LIMITATION OF LIABILITY
Beverage-Air Corporation, or their affiliates shall not be liable for any indirect, incidental, special or consequential damages, or losses of a commercial nature arising out of malfunctioning equipment or its parts or components thereof, as a result of defects in material or workmanship.

THE ORIGINAL OWNER’S SOLE AND EXCLUSIVE REMEDY AND BEVER-AIE-AIR’S SOLE AND EXCLUSIVE LIABILITY SHALL BE LIMITED TO THE REPAIR OR REPLACEMENT OF PARTS OR COMPONENTS CONTAINED IN THE EQUIPMENT IDENTIFIED ABOVE WHICH UNDER NORMAL USE AND SERVICE MALFUNCTION AS A RESULT OF DEFECTS IN MATERIAL OR WORKMANSHIP SUBJECT TO THE APPLICABLE PROVISIONS AND LIMITATIONS STATED ABOVE.

Note: Additional Terms and Conditions of sale may apply. Notice: Specifications Subject To Change Without Notice. Contact factory for specific model agency approval. All prices are ex-works Brookville, Pennsylvania

Specifications are subject to change without notice.
WHEN SANITATION CODES REQUIRE SEALING TO FLOOR THIS METHOD MAY BE USED

1. Tip cabinet and apply a bead of silicone seal on bottom edge of the base.

2. Return cabinet to upright position and using proper equipment, lift cabinet into location.