

OWNER'S GUIDE

Laboratory Refrigerator and Freezers with Microprocessor Temp Control

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RECEIVING AND SHIPPING DAMAGE HANDLING

Each refrigerator (or freezer) is carefully inspected, to meet our high standard quality assurance policy before it ships to you. Unfortunately, shipping damage can happen during transportation to you. There are two general types of shipping damage: visible and concealed damages.

The first is **visible damage**. This type of damage includes visible loss, damage, shortage or any external evidence of loss or damage that is visible at time of delivery.

This type of damage must be noted in detail on your delivery receipt. Make sure the driver signs and dates the delivery receipt, acknowledging the damages. We also recommend taking many pictures to demonstrate and document the damaged area(s). This must happen at the time of delivery, or it will not happen at all. Keep a copy for your records and send another to the carrier's damage claims department, along with a formal request for an inspection report. Follow up with a phone call. Their contact information can be found on the carrier's web site.

The second type of shipping damage is **concealed damage**. This type of damage may not be apparent at the time of delivery and may not be discovered until unpacking and inspection of the unit. Remember, time is of the essence here. You should unpack and inspect the unit as soon as possible (each day that passes, reduces the likelihood that the carrier will pay the claim). **As soon as the concealed damage is discovered, stop unpacking and retain all packing materials. Take many pictures to demonstrate and document the concealed damage area(s). Contact the carrier by phone to report the claim.** Note the date, time, and person you spoke with (make sure to get a claim number). Then, follow up with a written letter referencing the claim number and including a formal request for an inspection. Again, consult the carrier's website for specific claim instructions and follow them precisely.



AS STATED ABOVE, THE CARRIER IS YOUR SOLE SOURCE FOR SATISFACTION OF A DAMAGE CLAIM. UNDER NO CIRCUMSTANCES SHOULD THE MERCHANDISE BE RETURNED TO THE MANUFACTURER. NO RETURNS WILL BE ACCEPTED WITHOUT PRIOR AUTHORIZATION.

SAFETY

Please take a moment to read the steps below, before using the unit:

Warnings and Cautions:

- **Do not modify cabinet construction or associated equipment assemblies.**
- **Do not remove labeling or information supplied with the unit.**



Warning: Electric Shock Hazard. Unplug power cord before moving for servicing. Contact a qualified service representative.



WARNING: this product can expose you to chemicals including chromium which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov



For your safety

- DO NOT store any unsealed chemical material in this cabinet. Corrosive fumes from chemical material can linger inside of the chamber and cause serious damage to the refrigeration coils. Storing unsealed chemical material in this equipment will void the factory product warranty.
- DO NOT operate this equipment in the presence of explosive fumes.
- Disconnect power before servicing this refrigerator (or freezer).
- This equipment is not rated to be a hazardous location, refrigerator (or freezer).
- This equipment is not rated to be a flammable material storage. DO NOT store or use gasoline, or other flammable liquids in this cabinet.
- ONLY use manufactured supplied power cord, in a properly grounded outlet.
- Only use manufactured supplied components and authorized personnel, when servicing the unit.
- Do not use any devices to accelerate the defrosting process, other than what is recommended.
- Do not modify refrigeration circuit or electrical components.

- Do not overload shelves with heavy products, which increases likelihood of items falling and causing injury.
- Make sure all products are stored safely and at the recommended temperature as defined by standards or good laboratory practices.
- Before moving the unit, make sure the storage chamber is empty, the door is closed, feet or wheels are free of obstructions, and the power cord is disconnected and secured.
- Avoid any sharp edges or points when working on or in the unit.
- Keep fingers out of “pinch point” areas and clearances between the doors and cabinet that are necessarily small. Use caution when closing the doors.
- Use caution when adding or removing products from the refrigerator (or freezer). Do not remove shelf with products being stored on it.
- **MANUAL DEFROST FREEZERS ONLY:** Care should be taken with shelves. Each shelf is an evaporator, containing refrigerant. Do not damage the refrigerant tubing.
- This unit must be properly installed and located, in accordance with the “Installation Instructions” section before it is used.

This is a laboratory material storage refrigerator (or freezer). All laboratory safety rules must be followed during the operation of this refrigerator (or freezer).

SPECIFIC TO HYDROCARBON REFRIGERATION (R-600a and R-290) ONLY:

-  **DANGER** – Risk of fire or explosion. Flammable refrigerant used. Do not use mechanical devices to defrost refrigerator. Do not puncture refrigerant tubing.
-  **DANGER** – Risk of fire or explosion. Flammable refrigerant used. To be repaired only by a trained service personnel. Do not puncture refrigerant tubing.
- **CAUTION** - Risk of fire or explosion. Flammable refrigerant used. Consult repair manual/owner’s guide before attempting to service this product. All safety precautions must be followed.
- **CAUTION** – Risk of fire or explosion. Dispose of properly in accordance with

federal or local regulations. Flammable refrigerant used.

- CAUTION – Risk of fire or explosion due to puncture of refrigerant tubing; follow handling instructions carefully. Flammable refrigerant used.
- CAUTION – Proper ventilation must be provided during operation and servicing, and all ventilation openings kept free of obstruction.

RELEASE OF LIABILITY



Before you start to use this refrigerator (or freezer), please take a moment to:

- Connect your remote alarm contacts system, or auto dialer, to the refrigerator's alarm system (if any).
- If your refrigerator (or freezer) model does not have an alarm system, you can install your 3rd party alarm into the unit via the 3/8" access porthole. Please see "Field Monitor Probe Installation" section.
- Develop an emergency backup plan and designate a different refrigerator (or freezer) to store the contents in case the unit has an unforeseen issue.

IF YOU PLAN TO STORE IRREPLACEABLE AND/OR HIGH VALUE PRODUCTS IN THIS UNIT, TAKE THE PROPER PRECAUTIONS NOW.

The manufacturer's sole obligation under this warranty is limited to either repair or replacement of parts, subject to the additional limitations below. This warranty neither assumes, nor authorizes any person to assume obligations other than those expressly covered by this warranty.

NO CONSEQUENTIAL DAMAGES. The manufacturer is not responsible for economic loss, profit loss, or special indirect or consequential damages, including without limitation, losses, or damages arising from contents spoilage claims whether on

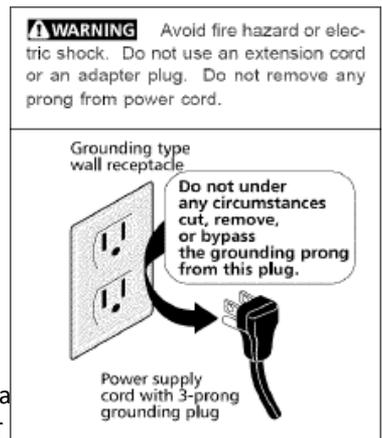
account of refrigeration or mechanical failure.

RECOMMENDATIONS

- Allow proper set point to be reached before storing products.
- Do not overload the refrigerator.
- Only store items on shelves. Products stacked against walls or doors may obstruct air flow and/or performance of unit.

ELECTRICAL INFORMATION

- The supply circuit to this cabinet must conform to NEC (National Electrical Code). Consult the cabinet Serial-Data plate for voltage, cycle, phase, and amp requirements before making connection.
- SUPPLY VOLTAGE SHOULD NOT VARY MORE THAN +/- 10% OF 120VAC.
- DO NOT connect this equipment to a GFI (Ground Fault Interrupt) circuit.
- **Do not use an extension cord or any multi-outlet strip or plug.** Using such devices can lead to component failure, such as the compressor
- If the power cord is damaged, it should be replaced immediately by an authorized service technician.



Be sure your unit is properly grounded. Use the 3-prong plug provided into a 3-prong grounded outlet. Unless the above grounding method is followed, you are not protected against severe or lethal shock in the event of a short circuit of an electrical component or wiring of the unit.

INSTALLATION

Please take a moment to follow the steps below, before using this equipment.

1. Find a suitable location to install this refrigerator (or freezer)
2. Unpacking this refrigerator (or freezer)
3. Level this refrigerator (or freezer)
4. Inspection of door alignment
5. Installation of monitoring probe (optional)
6. Connecting remote contacts
7. Unit is ready to use

1. SUITABLE LOCATION

- Ambient Temperature – Please ensure the ambient temperature is climate-controlled between 65°F to 78°F, and less than 70% relative humidity, to achieve the optimum temperature performance. Performances may be impacted if used in other environmental conditions.
- Clearance Space – Provide 4 inches of clearance space around all sides of the unit. This will help remove the heat, that is rejected from the condensing coils; and maintain cooling efficiency. Additional clearance will also aid in the removal of the unit for maintenance, or servicing.
- Outlet – The cabinet should be located within reach of an outlet that has appropriate power supply, as listed above, with a protective earth ground. The outlet should be easily accessible when installation is complete, as this is the method of powering off the equipment.
- Sound – Unlike a household refrigerator, this equipment is designed for special application. Therefore, the sounds generated from its operation may not be accepted by everyone in the room. Please take the operation sound factor into consideration and locate the unit accordingl

2. UNPACKING

- Remove packaging for unobstructed access under the unit. Discard all packing material.
- Remove unit from the pallet. Be careful not to tip over unit.
- To prevent tipping of the unit, ensure the doors are closed before moving the unit.
- Vibration during shipping and handling may loosen mechanical connections. Check all connections prior to turning on the unit.

3. LEVELING



We It is recommended to have a 1 ° to 3 ° angle offset, so the front of the unit is slightly higher than the rear of the cabinet. If the equipment is not level, adjust the leveling legs or casters.

Benefits for a well-placed, slightly inclined refrigerator (or freezer):

1. Moving mechanical parts, such as fan or compressor, would have less chances to fail, since it is, in the designed upright position.
2. Reduce noise.
3. Door(s) would close properly. Allowing for the product to be stored at the correct temperature.
4. Condensate water would flow out the refrigerator (or freezer) properly.

4. DOOR ALIGNMENT

Verify that each door opens and closes easily. Make sure the door is level, and square to the cabinet. If adjustment is needed, the bolts for the top and bottom hinge brackets may be loosened and moved to properly align the door. With the door closed, check the magnetic gasket on top, bottom, and sides of the door for gaps or inconsistencies. Both will compromise the sealing integrity of the cabinet.

5. (OPTIONAL) MONITOR PROBE FOR FIELD INSTALLATION

Each refrigerator (or freezer) is equipped with a 3/8" probe access port hole for your independent probe installation. The port hole is located on the back of your refrigerator or freezer near the bottom. Simply remove the white caps, run your probe through, and seal the hole with electrical putty to prevent air from getting into the chamber.



DO NOT run your probe through the door gasket, as it may cause serious condensation or a frozen evaporator issue. The port hole is specifically designed to allow you to install the monitor probe.

6. REMOTE ALARM CONTACTS

Connect your remote alarm contacts system, or auto dialer, to the refrigerators (or freezers) alarm system (if any).

If your refrigerator or freezer model does not have an alarm system, you can install your 3rd party alarm into our refrigerator via the 3/8" access porthole. Please see "Field Monitor Probe Installation" step 5, under Installation section.

Develop an emergency backup plan, and designate a different unit to store the contents, encase the unit has any unforeseen issues.

7. READY TO USE

Once you ensure the electrical service is adequate and steps 1 to 6 are followed, you are ready to use the refrigerator (or freezer). Simply plug the power cord into the wall outlet.

This refrigerator (or freezer) settings, have been optimized to achieve the best electrical and thermal performance. There should not be a need to adjust settings for most applications. If you feel the temp settings must be adjusted, please refer to "TEMPERATURE ADJUSTMENT" section in this manual for more details.

Temperature Control System

Product Description

The digital microprocessor temperature controller is designed to provide temperature control of refrigerators (or freezers). The controller also provides a constant readout of the sample temperature, inside of the unit. A touch keypad provides the interface for control system changes.



Please Note: The digital temperature controller has been factory set and tested to ensure your unit operates properly.

Adjusting the settings on the controller will alter these factory settings. WE STRONGLY RECOMMEND YOU CONTACT THE MANUFACTURER'S TECHNICAL SUPPORT DEPARTMENT BEFORE MAKING ANY ADJUSTMENTS TO THIS CONTROLLER. TECH SUPPORT PHONE NUMBER IS (800) 648 4041, SELECT THE OPTION FOR TECHNICAL SUPPORT.



CHECK TEMPERATURE HISTORY

Press and release [UP] button. The display will show the maximum temperature ever reached since the last reset.

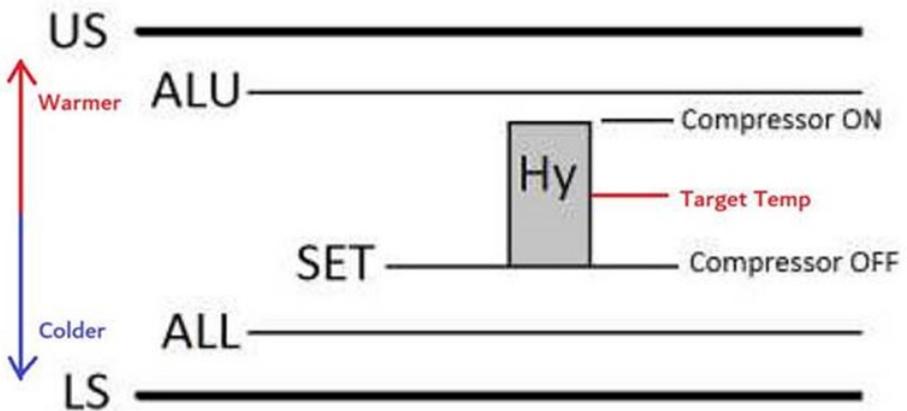
Press and release [DOWN] button. The display will show the minimum temperature ever reached since the last reset.

Press and hold [SET] for more than 3 seconds, while the maximum or minimum temp is displayed. (rSt message will be displayed).

CHECK THE SET POINT

Press and release [SET] button. The display will show the current set point value.

OPERATION



During the normal operation, the refrigerators (or freezers) compressor would turn on and off, to maintain the cold temperature in the storage chamber.

In this controller, the point where the compressor is cut off is called “SET POINT”. The point where the compressor is turned on is calculated by adding the value of “SET POINT” and “Hy” (temp differential).

For example, if you wish to control the refrigeration cycle between 3°C and 7°C, you would set “SET” = 3°C, and “Hy” = 4°C.

“ALU” is the high temp alarm point, and “ALL” is the low temp alarm point. Both alarm settings will alert users when the refrigerator’s (or freezer’s) temp is out of

range, via visual & audible alarm, and remote alarm contact.

“US” is the upper setting limit, and “LS” is the lower setting limit. Both limit settings will prevent users accidentally adjust “SET”, “ALU”, or “ALL” outside the range.

CODE	DESCRIPTION	EXAMPLE FACTORY SETTING
SET	Temp set point (compressor off point)	4°C or 39°F (refrigerator) -20°C or -4°F (freezer)
Hy	Temp differential between compressor, start and off, point	3°C to 5°C or (5°F to 9°F) CHANGING THE DIFFERENTIAL IS NOT RECOMMENDED
ALL	Low temp alarm point	1°C or 34°F (refrigerator) -28°C or -18°F (freezer)
ALU	High temp alarm point	10°C or 50°F (refrigerator) -15°C or 5°F (freezer)
Lod	Screen display choice (air or sample probe)	P3
O3	Sample (display) probe calibration / offset	0
OT	Air (control) probe calibration / offset	0
US	The maximum limit that SET or ALU could reach	10°C or 50°F (refrigerator) -10°C or 14°F (freezer)
LS	The minimum limit that SET or ALL could reach	1°C or 34°F (refrigerator) -30°C or -22°F (freezer)

CHANGE THE SET POINT (compressor turn-off point)

Press and hold [SET] until °C or °F icon blinking. Press [UP] or [DOWN] to change the setting value. Then, press [SET] once to confirm the new setting.

CHANGE THE OTHER SETTINGS

Press and hold both [SET] and [DOWN] at the same time until “Hy” appears on the display.

Press [UP] or [DOWN] to scroll different settings. Press [SET] to enter the setting. Press [UP] or [DOWN] to change value. Press [SET] once to confirm the new setting. The display will show the next setting.

At any setting, press and hold both [SET] and [UP] to exit out the setting mode, or simply leave the display alone for 10 seconds.

ADVANCED SETTINGS – for service technician only

 **ATTENTION: This section is for service technicians or experienced users only. Altering the following settings can result in malfunction or inaccurate temperature readout.**

AIR AND SAMPLE TEMPERATURE DISPLAY

The controller has the capability to display either the air or sample temperature readout. For the normal operation, the sample-simulated temperature (P3) is displayed to provide users the contents product temperature. For the actual operation, the air temperature (P1) is used to control the compressors cycle.

This is a useful tool for you to make a precise adjustment, or temperature validation process.

“Lod” setting allows you to display either air (P1) or sample (P3). Press and hold both, [SET] and [DOWN] at the same time until “Hy” appears on the display.

Press [UP] or [DOWN] until “Lod” shows up. Press [SET] to enter the setting. Press [UP] or [DOWN] to toggle between the air temp “P1”, or the sample temp “P3”. Press [SET] once to confirm the new setting. The display will now show the temp you have selected.

 **We strongly recommend you change the “Lod” setting back to “P3” before you complete the service. This will allow users to see the sample-simulated temperature, and the controller will be able to alert when the sample temp is out of range.**

CALIBRATION / OFFSET

“OT” setting allows you to change the air probe’s calibration. “O3” setting allows you to change the sample probe’s calibration.

Please be sure you have a NIST traceable and calibrated thermometer. Place your thermometer’s probe next to our sensor accordingly, air vs. air, or sample vs. sample, before making an adjustment on either “OT” or “O3”.

For more advanced settings, please contact our Technical Service Department for assistance. (800) 648 4041, select the option for Technical Service.

QUICK TROUBLESHOOTING GUIDE

Check these items before calling for service:

PROBLEM:	POSSIBLE CAUSE / SOLUTIONS:
Unit does not run	<ul style="list-style-type: none"> • Electrical circuit is not 110-120V 60Hz. • The power cord is not plugged in. • No power at electrical outlet. Check to make sure breaker is not tripped or fuse is not blown. • Make sure unit is not plugged into a Ground Fault Circuit interrupter (GFCI) outlet.
Unit does not maintain the proper temperature	<ul style="list-style-type: none"> • Check the room temperature. We recommend the refrigerator (or freezer) should be placed in an air-conditioned room between 65°F to 78°F. If the room temp is too warm, the refrigerator or freezer may not be able to maintain the interior temp at proper range. • Door is not closed properly. • Amount of stored product is overloaded. • Product being placed against the rearwall can interrupt the proper flow of air. For proper air circulation, place the products evenly on each shelf. Do not push against the refrigerator's (or freezer's) rear or sidewalls. • Evaporator is blocked by frost or ice. Remove the products, unplug the refrigerator (or freezer) power, and allow the unit to defrost. If the problem still exists, call for service. • 3rd party thermometer is placed incorrectly. For proper temperature monitoring, the thermometer should be placed in the middle of refrigerator. • There is damage to the gasket or obstructions that are causing sealing issues. <p>PLEASE NOTE! Prior to shipment, each refrigerator and freezer has been calibrated and tested within the proper</p>

	temperature range.
Appliance runs too long	<ul style="list-style-type: none"> • Prolong door openings. • Control set too cold. • Room temperature is too high which will make the unit work harder to maintain temperature.
Temperature of external wall surface is warm	<ul style="list-style-type: none"> • The exterior walls can be as much as 30 degrees warmer than room temperature, due to the embedded condenser coils. This is normal when the unit is operating.
Compressor noises	<ul style="list-style-type: none"> • Compressor may be overheated. Please check the room temp and ensure the range is within the correct ambient range (65°F to 78°F).

Moisture collects inside	<ul style="list-style-type: none"> • Door gasket is not sealing properly. Check for debris, cracks, and items passing through the gasket. • The refrigerator (or freezer) is facing a doorway or is underneath an air conditioning vent. Relocate the unit or redirect the air vent. • Too many door openings. Minimize time door is open and/or the number of openings. • Hot, humid weather increases condensation.
Moisture collects on outside surface	<ul style="list-style-type: none"> • Hot, humid weather increases condensation. • As humidity decreases, moisture will disappear.
Odor inside the unit	<ul style="list-style-type: none"> • Interior needs to be cleaned. See section on maintenance and cleaning in this manual. • Make sure product containers are tightly sealed to prevent leakage.
Door will not close	<ul style="list-style-type: none"> • The unit is not level. Refer to the leveling section at the beginning of this manual. • Check for dirt and debris or items passing through the door seal.

MOISTURE DURING THE SUMMER SEASON

The amount of moisture, condensation, or high humidity related issues increase during the summer and, in most cases, will self-resolve when the weather cools down. Please note a refrigeration system will NOT generate moisture or water but simply condenses the moisture that is already in the chamber. Keeping the unit in an air conditioned, low humidity space will resolve many issues. Other things you should check:

1. Location of the chamber (see Quick Troubleshooting Guide above).
2. Door gasket and the sealing of the unit (see Quick Troubleshooting Guide above).
3. Investigate the frequency of door openings and the amount of time the door is open (see Quick Troubleshooting Guide above).

BEFORE CALLING THE MANUFACTURER'S TECHNICAL SUPPORT DEPARTMENT:

Have the unit's model and serial number ready as well as the problem description. The model and serial number is located on the serial tag which can be found on the interior left upper wall of the unit.

MAINTENANCE AND CLEANING

CLEANING

Disconnect power source, before servicing or cleaning.

- Never use abrasive cleaners or instruments (steel pads, wire brushes, etc.) on interior or exterior.
- Never use acid-based cleaners, which will damage the finish. Warm soapy water is best, but if cleaning solution is required, use only alkaline based cleaners.
- Avoid chlorides during cleaning which could damage the finish. Chlorides are commonly found in hard water, salts, and household or industrial cleaners. If cleaners with chlorides are used, rinse with clean water and dry thoroughly.
- Gaskets should be cleaned only with warm soapy water. Cleaning products could damage gaskets or cause them to brittle over time. Never use tools which could cut or tear the gasket.
- Drain lines to evaporator pan and/or floor drain should be inspected for blockage or leaks.

All moving parts have been permanently lubricated and will generally require no maintenance.

PART	CLEANING AGENTS	TIPS AND PRECAUTIONS
Interior and Door Liners	Baking soda and water / soap and water	Use 2 tablespoons of baking soda in 1 quart of warm water. Be sure to wring excess water out of sponge or cloth before cleaning around: controls, light bulbs, or any electrical parts.
Door Gaskets	Soap and water	Wipe gaskets and their seating surfaces with a clean, soft cloth.
Shelves	Soap and water	Do not wash removable shelves in dishwasher.
Exterior and Handles	Soap and water or Non-Abrasive Glass Cleaner	Do not use commercial household cleaners, ammonia, or alcohol to clean handles. Use a soft cloth to clean smooth handles. Do not use a dry cloth to clean smooth handles.

Pay particular attention to the gasket and its seating surfaces. Any debris buildup on these can cause air leaks into the compartment resulting in condensation as well as reduced efficiency.

Clean the glass with a mild detergent and water on a soft cloth or sponge. Rinse with water and wipe dry.

CONDENSER MAINTENANCE

IMPORTANT WARRANTY INFORMATION

Air is pulled through the condenser continuously during operation. Along with this air come impurities like dust, lint, grease, etc. These impurities accumulate in the condenser. Dirty condensers result in inefficient operation, compressor failure and potential product loss **which are not covered by warranty**.

If you keep the condenser clean, you will minimize your service expense and lower your electrical costs. **The condenser requires scheduled cleaning every 30 day** (or more frequently in dirty environments).

Proper cleaning involves removing dust from the condenser. This can be accomplished using a soft brush, by vacuuming, and by blowing through the condenser coils with pressurized air, CO₂, or nitrogen.

- **REMEMBER, THE CLEANING OF THE CONDENSER IS NOT COVERED BY THE WARRANTY AND IS YOUR RESPONSIBILITY. ANY DAMAGE CAUSED BY FAILURE TO KEEP THE CONDENSER CLEAN IS ALSO NOT COVERED BY THE WARRANTY.**



CLEANING THE CONDENSER

1. Disconnect the electrical power to the unit.
2. Locate the condensing units on the back side of the unit. The condenser may be a tube and grid type, a tube and fin type, or a combination of both.
3. **CAUTION: Use eye protection while performing the steps 4-6 to avoid eye injury.**
4. Vacuum the dirt from the condenser coil fins. Use a soft brush to help dislodge the dirt from the coil fins and around the coil ends.
5. When properly cleaned, you should be able to see through the condenser unit.
6. If necessary, use compressed air, carbon dioxide (CO₂), or Nitrogen to blow through the coils. Limit air pressure to approx. 30 psi.
7. When finished, be sure to replace the louvered grill as it provides protection for the condenser.
8. Reconnect the electrical power to the unit.

HYDROCARBON SERVICE NOTES

According to U.S. Code of Federal Regulation 40 Part 82, this refrigerator (or freezer) employs the natural refrigerant (specifically hydrocarbons: R290 or R600a).

Because of the nature of hydrocarbon refrigerants, for mechanical repairs (such as recharge the unit, compressor replacement, etc.) should only be carried out by a certified refrigeration technician.

The safety of this equipment is listed by Underwriter Laboratory (UL) under Standard 471, Section SB – “natural refrigerant”.

FACTORY WARRANTY POLICY

Horizon Scientific, Inc. warrants to the original purchaser every new Horizon Scientific, Inc. refrigerated unit, the cabinet, and all parts thereof, to be free from defects in material or workmanship, when such unit is installed, used, and maintained in accordance with provided instructions. The warranty period starts two weeks from the date of shipment from Horizon Scientific, Inc. This two-week period allows ample shipping time so that the warranty will go into effect at approximately the same time your equipment is delivered. Unless subject to prior written agreement with Horizon Scientific, Inc., this warranty does not allow for any warranty start deferment greater than two weeks from date of shipment due to a delayed installation and/or start-up. By purchasing any product from Horizon Scientific, Inc., you, and any entity for which you are purchasing acknowledge and agree to each provision contained herein, and all other Notices and Terms provided to Purchaser by Horizon Scientific, Inc., which are hereby incorporated.

Under this warranty, Horizon Scientific, Inc., through its authorized service organizations, will repair, or at its option, replace any part found to contain a manufacturing defect in material or workmanship without charge to the owner for parts and service labor. Replacement or repaired parts will be warranted for only the unexpired portion of the original warranty. Horizon Scientific, Inc. will not assume any shipping or cartage costs for parts under warranty. These costs shall be paid by the customer.

ADDITIONAL COMPRESSOR WARRANTY

In addition to the standard warranty, Horizon Scientific, Inc. warrants its hermetically and semi-hermetically sealed compressors to be free from defects in both material and workmanship under normal use and service in addition to the standard warranty period. Compressors determined by Horizon Scientific, Inc. to have been defective within this extended time will, at Horizon Scientific, Inc.'s option, be either repaired or replaced with a compressor or compressor parts of similar design and capacity.

The compressor warranty applies only to hermetically and semi-hermetically sealed parts of the compressor and does not apply to any other parts or components, including, but not limited to, cabinet, paint finish, temperature control, refrigerant, metering device, driers, motor starting equipment, fan assembly or any other electrical components.

Horizon Scientific, Inc.'s sole obligation under this warranty is limited to either repair or replacement of parts, subject to the additional limitations below. This warranty neither assumes nor authorizes any person to assume obligations other than expressly covered by this warranty.

NO CONSEQUENTIAL DAMAGES. Horizon Scientific, Inc. is not responsible for economic loss; profit loss; or special, indirect, or consequential damages, including without limitation, losses or damages arising from contents spoilage claims whether on account of refrigeration failure, electrical failure, power failure, or compressor failure. HORIZON SCIENTIFIC, INC.'S MAXIMUM CUMULATIVE LIABILITY RELATIVE TO ALL CLAIMS AND LIABILITIES, INCLUDING OBLIGATIONS UNDER ANY INDEMNITY, WHETHER OR NOT INSURED, SHALL NOT EXCEED THE COST OF THE PRODUCT(S) GIVING RISE TO THE CLAIM OR LIABILITY.

WARRANTY IS NOT TRANSFERABLE. This warranty is not assignable and applies only in favor of the original purchaser/user to whom delivered. Any such assignment or transfer shall void the warranties herein made and shall void all warranties, express or implied, including any warranty of merchantability of fitness for a particular purpose. **NO IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR**

PURPOSE. There are no other warranties, express, implied, or statutory, except the standard warranty and the additional compressor warranty as described above. These warranties are exclusive and in lieu of all other warranties, including implied warranty and merchantability of fitness for a particular purpose. There are no warranties which extend beyond the description on the face hereof, whether based on contract, warranty, tort (including negligence), strict liability, indemnity, or any other legal theory, and whether arising out of warranties, representations, instructions, installations, or non-conformities from any cause. Purchaser further acknowledges that the purchase price of the Product reflects these warranty terms and remedies. **Page | 22**

ALTERATION, NEGLIGENCE, ABUSE, MISUSE, ACCIDENT, DAMAGE DURING TRANSIT OR INSTALLATION, FIRE, FLOOD OR OTHER EXTERNAL CAUSES.

Horizon Scientific, Inc. is not responsible for the repair or replacement of any parts that Horizon Scientific, Inc. determines have been subjected after the date of manufacture to alteration, neglect, abuse, misuse, accident, damage during transit or installation, fire, flood, or other external causes. It does not apply to defects resulting from failure to properly install, operate or maintain the product in accordance with the printed instructions provided, or damage caused by the storage of any corrosive material that meets the interior or exterior portions of the cabinet, or the use of spark producing equipment or containers (such as galvanized or carbonized steel containers) that meet any interior portion of the cabinet.

OUTSIDE U.S./CANADA. This warranty does not apply to, and Horizon Scientific, Inc. is not responsible for, any warranty claims made on products sold or used outside the United States and Canada.

CHOICE OF LAW/VENUE. The laws of the State of South Carolina shall govern the validity, interpretation, and enforcement of this

warranty, regardless of conflicts of law principles. Purchaser agrees that proper venue for any action to enforce the terms of this warranty shall be the Dorchester County District Courts, South Carolina. Purchaser submits the jurisdiction of such courts over the Purchaser and the subject matter of

any such action. Any action for breach of these warranty provisions must be commenced within one (1) year after that cause of action has accrued.

WARRANTY CLAIMS. To obtain prompt warranty service, simply contact the manufacturer at 800-648-4041. Horizon Scientific, Inc.'s shipping records showing date of shipment shall be conclusive in establishing the warranty period. All claims should include model number of the refrigerator, the serial number of the cabinet, proof of purchase, date of installation, and all pertinent information supporting the existence of the alleged defect. Any repairs must be authorized by Horizon for the warranty to be honored.