

OWNER'S GUIDE

Ultra Elite Solid Door Laboratory Refrigerators & Ultra Elite Solid Door & Glass Door Pharmacy Refrigerators

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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. The first is <u>visible damage</u>. 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 to take many pictures to demonstrate and document the damaged area(s). This has to happen at the time of delivery or it won't 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 <u>concealed damage</u>. This type of damage will probably not be apparent at time of delivery and may not be discovered until unpacking and inspecting 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 and time and person you spoke with. Get a claim number. 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



A For your safety

- DO NOT store any unsealed chemical material in this refrigerator or freezer. 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 store or use gasoline, or other flammable liquid in this refrigerator or freezer. This equipment is not rated to be a flammable material storage.
- DO NOT operate this equipment in the presence of explosive fumes. This equipment is not rated to be a hazardous locations refrigerator or freezer.

We offer flammable material storage and hazardous locations refrigerators and/or freezers for your application. Please contact your local sale representative for more information.

RELEASE OF LIABILITY



A Before you start to use this refrigerator, 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 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" Section.
- Develop an emergency backup plan, and designate a different refrigerator or freezer to store the contents, if this refrigerator has an unforeseen issue.

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

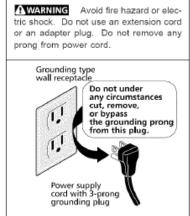
The manufacturer's sole obligation under this warranty is limited to either repair or replacement of parts, subject to the additional limitations below. This warranty neither assumes, nor authorizes any person to assume obligations other than those expressly covered by this warranty.

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 or not on account of refrigeration or mechanical failure.

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 5% FROM SERIAL PLATE RATINGS.
- 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 insufficient power, and lead to component failure, such as the compressor or starting components.
- 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. Level this refrigerator (or freezer)
- 3. Set up the shelves inside (if applicable)
- 4. Install the optional monitor probe for field installation
- 5. Ready to use

1. SUITABLE LOCATION

Ambient Temperature – Unlike a household refrigerator, this equipment is designed for scientific / medical application. Many components are heavy duty and extra sized, in order to meet the ultimate temperature performance. 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 this refrigerator accordingly.

Please ensure the ambient temperature is climate-controlled, between 65°F to 85°F, in order to achieve the ultimate temperature performance.

Clearance Space – We require 2 to 3 inches of clearance space around the refrigerator. So it would be easier to remove the refrigerator for annual maintenance, or service.

2. LEVELING

Once this refrigerator or freezer is at its final location, please level your refrigerator, because it is critical to equipment operation. Here are a few benefits to a good leveled 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.
- 4. Condensate water would flow out the refrigerator properly.

To level this equipment, set a leveler in each corner on the top. If the equipment is not level, adjust either the leveling legs or casters.

We recommend to slightly tilt the refrigerator (or freezer) toward to the back, about 5 degrees. So the non-self-closing door can be shut properly, and condensate water would flow out easier.

3. (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 generally located in the back of your refrigerator (or freezer). 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.

4. READY TO USE

Once you ensure the electrical service is adequate and Steps 1 to 3 are followed, you are ready to use this refrigerator (or freezer). Simply plug in the power cord into the wall outlet.

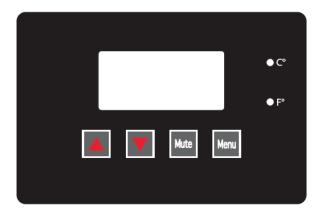
This refrigerator (or freezer) is factory set to run at its ultimate temperature performance. There should not be a need to adjust the temp settings. If you feel the temp settings must be adjusted, please refer to "TEMPERATURE ADJUSTMENT" section in this manual for more details.

OPERATION

INTRODUCTION

Upon receiving the refrigerator or freezer, please take a moment to activate the battery to D-100 alarm system. The battery supports D-100's alarm operation during a power failure event. This is an important step. See the following information on the battery backup alarm function.

D-100 temp display and alarm system is specifically designed to display the refrigerator's interior sample temperature, and give out alarms if an error occurs.



FEATURES

- Sample temperature display
- Decimal temperature readout
- Battery backup for power failure
- One point HI and LO temp history
- Temperature calibration (offset)
- °C/°F readout switch
- Bi-color background readout

- Visual Alarm
- Audible Alarm
- Remote Alarm
- High temp alarm
- Low temp alarm
- Power failure alarm
- Sensor error alarm

MAIN SCREEN

During the normal operation, the display shows the interior temperature. The background color will be green.

During an alarm condition, the display toggles between the current interior temperature, and error code. The background color would be <u>flashing red</u>.

ALARM CODE

CODE	DESCRIPTION
НА	High Temperature Alarm
LA	Low Temperature Alarm
SA	Temperature Sensor Failure Alarm
dA	Door Ajar Alarm
PF	Main Power Failure Alarm

BATTERY BACKUP & POWER FAILURE ALARM

The D-100 battery backup system uses 4 each AA rechargeable batteries. During the power failure, the batteries will support the alarm system and the temperature display for 8 hours. When the power resumes, the batteries will be automatically recharged.

During a power failure event, the visual display will turn into flashing red background with "PF" (power failure) message. Audible alarm & remote alarm contact would be activated to alert users. The D-100 will still display and monitor the refrigerator temperature during a power failure event until the battery power is depleted.

Once the power resumes, the display will still be flashing red, and showing "PF" message, even if the refrigerator's temperature is normal. It is a feature to alert users that a power failure event has occurred. Users should check the temperature history on the display. To clear the "PF" message, press any button.

CHECK TEMPERATURE HISTORY

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

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

Press [UP] and [DOWN] button together simultaneously for 4 seconds to clear out the history. The maximum and minimum record will be erased, and record the next maximum and minimum temp point.

MENU

Press [MENU] button to enter the user adjustable settings. Press [UP] or [DOWN] to select which setting you would like to make an adjustment.

CODE	DESCRIPTION	FACTORY DEFAULT
ALU	High temp alarm point	10°C or 50°F (refrigerator)
		0°C or °F (freezer)
ALL	Low temp alarm point	0°C or 32°F (refrigerator)
		-30°C or °F (freezer)
Ad	Visual & audible alarm delay (minute)	0 (minute)
CF	Celsius & Fahrenheit unit change	°C or °F
dA	Door ajar alarm (minutes)	NO (disable)
		Door alarm is for selected
		models only.
rD	Remote alarm delay (minute)	20 (minute)
Snd	Mute duration (minute)	120 (minute)
OFF	Temp readout calibration / offset	Current readout

At each setting, press [UP] or [DOWN] to make a change. Then press [MENU] to confirm the new change, and move to the next setting.

For example, to change the low temp alarm point: press [MENU] till the display shows [ALL]. Press [UP] to change the factory setting 0C to 1C. Press [MENU] to confirm the setting. And the display will show "Ad" next.

To return to the main display, either cycle through the entire menu from "ALU" to "OFF", or simply take no action for 30 seconds. The display will return to the temperature display mode.

HIGH TEMP ALARM POINT (ALU)

Under this function, you are able to change the high temperature alarm point. Once the refrigerator temperature reaches the set point, D-100 will display "HA" message, and send out the audible alarm.

LOW TEMP ALARM POINT (ALL)

Under this function, you are able to change the low temperature alarm point. Once the refrigerator temperature reaches the set point, D-100 will display "LA" message, and send out the audible alarm.

VISUAL & AUDIBLE ALARM DELAY (Ad)

This function allows users to adjust the time delay between the occurrence of an error and the visual & audible alarm's activation. For example, if the setting is 1 (minute), when the temp warms above the high temp alarm point, it would take 1 minute before the visual and audible alarm are activated.

We recommend to keep the setting at 0 (minute).

CHANGE TEMPERATURE READOUT BETWEEN °C AND °F

Press [MENU] 4 times till "CF" displays. Press [UP] or [DOWN] to change between °C and °F. The right side °C / °F indicator will toggle according to your selection. Press [MENU] again to confirm your change.

DOOR AJAR ALARM (dA)

This feature is disable on most models (Setting: NO). Only selected models have the door alarm switch installed, and feature unlocked. If your refrigerator model does not have the door alarm switch installed, and dA setting is turned on to 0 to 5 (minutes), the display will give out dA (door ajar) alarm even when the door(s) is closed.

If your refrigerator has the door alarm switch(s) installed, you can change the door ajar alarm duration from 0 minute to 5 minutes. If one or more doors is opened out of duration time period, the display will activate "dA" message. Once the door is closed, the alarm will be turned off.

MUTE DURATION "RINGBACK" (Snd)

This feature can be considered as a "nudge" alarm. If a user mutes the audible alarm, but an alarm condition persists, the audible alarm will ring back after 120 minutes later (factory setting). This is to prevent a serious alarm condition to be ignored.

CALIBRATION / OFFSET (OFF)

Before making an OFFSET change, please note that this procedure should only be carried out by a certified technician with a NIST traceable calibrated thermometer.

This feature allows a user to change the temperature reading with +/- 10 degree differences.

For example, if a technician's NIST traceable calibrated thermometer is reading 5C, while D-100 reads 3C, make a +2C change in OFF setting.

REMOTE ALARM DELAY (rD)

It is a time delay after the visual and audible alarm being activated. It gives users some time to correct an error, before sending the alarm to the remote monitor system.

For example, rD is set to be 20 (minutes). A user forgets to close the refrigerator's door, and the temperature warms up to 10C. The High Temp (HA) visual and audible alarm will be activated. If the temperature continues to stay above High Temp, 20 minutes later the remote alarm will be activated.

Please note, Remote Alarm will be immediately activated during a power failure event. It would be deactivated when the power resumes and the temperature returns to normal.

REMOTE ALARM SYSTEM (SPST RELAY)

It is recommended to contact your facility manager, or a local technician to assist you in connecting the remote alarm system.

D-100's remote alarm system is wired to be gray and white leads. It is located at either 1) underneath of top sign canopy, or 2) behind the unit, next to the compressor.

During non-alarm state, the remote alarm system is at CLOSED position (NC). During an alarm state, the system is at OPEN position.

Rating: 3 amps.

Temperature Controller 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 allows the user to easily select the display units, set point, and differential set point.

Please Note: The digital temperature controller has been factory set and tested to allow your unit to operate at its desired temperature cycle.

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 Option 4



CHECK TEMPERATURE HISTORY

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

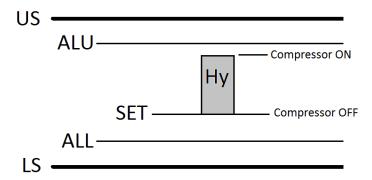
Press and release [DOWN] button. The display will show the minimum temperature ever reached since the last reset.

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 refrigerator's (or freezer's) compressor would turn on and off, in order 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 maintain the operation temperature 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	FACTORY SETTING
SET	Temp set point (compressor off point)	3°C or 38°F (refrigerator)
		-24°C or -12°F (freezer)
Ну	Temp differential between compressor	3°C or 5°F (NOT
	start and off point	RECOMMENDED TO
		CHANGE)
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
CF	Celsius & Fahrenheit unit change	
О3	Sample (display) probe calibration / offset	0
ОТ	Air (control) probe calibration / offset	0
US	The maximum limit that SET or ALU could	10°C or 50°F (refrigerator)
	reach	-10°C or 14°F (freezer)
LS	The minimum limit that SET or ALL could	1°C or 34°F (refrigerator)
	reach	-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.

Change the readout from °C to °F, or °F to °C

Press and hold both [SET] and [DOWN] at the same time until "Hy" appears on the display. Press [UP] or [DOWN] until "CF" shows up. Press [SET], and [UP] or [DOWN] to change either C or F. Press [SET] to confirm the setting.

Then, press [UP] or [DOWN] throughout different settings, and make the following changes:

PARAMETER	°C	°F
US	10	50
LS	0	32
ALU	9	49
ALL	1	35
Ну	3	5
Leave the display alone for 10 seconds, until the		
number readout reappears on the display. Then press		
and hold [SET] to make the following change		
SET	3	38

Press [SET] once you're done. The display and all settings are now converted from °C to °F, or °F to °C.

If there is any question or concern, please feel free to contact our technical service department. (800) 648 4041 Option 4

<u>Advanced Settings – for service technician only</u>

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 in order to provide users the content temperature. For the actual operation, the air temperature (P1) is used to control the compressor's 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 to 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 Option 4

Quick Troubleshooting Guide

Check these items before calling for service

PROBLEM:	POSSIBLE CAUSE / SOULTIONS:
Unit does not run	 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. Additionally, make sure unit is not plugged into a Ground Fault Circuit Interrupter (GFCI) type of outlet.
Unit does not maintain at the proper temperature	 Check the room temperature. We recommend the refrigerator or freezer should be placed in an air conditioned room between 65°F to 85°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 replacements are pushed against rear wall or interrupted the proper refrigerator air circulation. For the proper air circulation, place the products evenly on each shelf. Do not push against the refrigerator's rear or side walls. 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 place in the middle of refrigerator. PLEASE NOTE! Prior to shipment, each refrigerator and freezer has been calibrated and tested at proper temperature range.

	The state of the s
Appliance runs too	Prolong door openings.
long	 Control set too cold.
long	 Room temperature is high which will make the
	unit work harder to keep cool.
Temperature of	 The exterior walls can be as much as 30
external wall	degrees warmer than room temperature due
surface is warm	to the embedded condenser coils. This is
	normal when the unit is operating.
	Compressor may be overheated. Please check
Compressor noises	the room temp and ensure the range is within
compressor noises	65°F to 85°F. If the problem still exists, call for
	service.
	Door gasket is not sealing properly. Check for
	debris, cracks, and items passing through door
	at the gasket.
	The refrigerator or freezer is facing a doorway
	or is underneath of air conditioning vent.
	Relocate the unit or redirect air vent.
Moisture collects	Too many door openings. Minimize time door
inside	is open.
	Hot, humid weather increases condensation.
	Make sure there is a water trap (U-shaped)
	loop) in the drain tube near the compressor.
	This will "trap" a small amount of water in the
	loop and prevent air from entering the
	-
	chamber through the tube.
Moisture collects	Hot, humid weather increases condensation. As humidity degreeses, maisture will.
on outside surface	As humidity decreases, moisture will
	disappear.
Odor inside the	Interior needs to be cleaned. See section on
	maintenance and cleaning in this manual.
uiiit	Make sure product containers are tightly
	sealed to prevent leakage
	 The unit is not level. Refer to the Leveling
Door will not close	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 refrigerator (See Quick Troubleshooting Guide above)
- Door sealing and frequency of door opening event (See Quick Troubleshooting Guide above)
- 3. Make sure there is a water trap (U-shaped loop) in the drain tube near the end. This will "trap" a small amount of water in the loop and prevent air from entering the chamber through the tube.

BEFORE CALLING THE MANUFACTURER'S TECHNICAL SUPPORT DEPARTMENT, please 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

PART	CLEANING AGENTS	TIPS AND PRECAUTIONS
Interior and Door Liners	Soap and water Baking soda 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 bulb 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 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

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

For Sliding door units, dust and debris can begin to build up in the door track. To clean the door track the doors should be removed and the track cleaned with mild detergent and water on a soft cloth or sponge. Rinse with clean water and wipe dry. Contact technical support if you have difficulty removing the doors.

For Swinging door units, 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.

CONDENSER MAINTENANCE

IMPORTANT WARRANTY INFORMATION

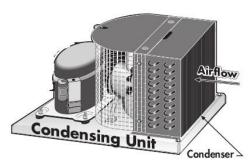
Air is pulled through the condenser continuously during operation. Along with this air come impurities like dust, lint, grease, etc.

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. Removed the louvered grill at the base of the unit. Locate the condensing unit.
- 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 (try shining a flashlight through to the other side).
- 6. If necessary, use compressed air, 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 employs the natural refrigerant, specifically hydrocarbon, R290 or R600a.

Because of the nature of hydrocarbon refrigerant, for mechanical repair, such as recharge the refrigerant, or compressor replacement, 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

LabRepCo, LLC warrants to the original purchaser every new LabRepCo, LLC 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 LabRepCo, LLC. 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 LabRepCo, LLC 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 LabRepCo, LLC you and any entity for which you are purchasing acknowledge and agree to each and every provision contained herein, and all other Notices and Terms provided to Purchaser by Horizon Scientific, Inc., which are hereby incorporated.

Under this warranty, LabRepCo, LLC 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. LabRepCo, LLC 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, LabRepCo, LLC 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 LabRepCo, LLC to have been defective within this extended time period will, at LabRepCo LLC'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.

LabRepCo, LLC'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. LabRepCo, LLC 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 or not on account of refrigeration failure, electrical failure, power failure, or compressor failure. LABREPCO, LLC.'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.

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

LabRepCo, LLC is not responsible for the repair or replacement of any parts that LabRepCo, LLC 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 comes in contact with 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 come in contact with any interior portion of the cabinet.

OUTSIDE U.S./CANADA. This warranty does not apply to, and LabRepCo, LLC 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. LabRepCo, LLC'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 LabRepCo in order for the warranty to be honored.

