To better help you obtain assistance or service should you ever need it, write down the following information about the product. This information is on the identification label located on the left hand inside wall of the cabinet. We advise you to keep this Owners Manual and sales slip in your possession.

Model: _____

Serial Number: _____

Date of Purchase: _____

minusforty®
an AeriTek brand

OWNERS MANUAL
Glass Door Freezers

TRIPLE DOOR MODELS
72-UTGF

minusforty®

30 Armstrong Avenue
Georgetown, Ontario
Canada L7G 4R9

tel: 800.800.5706 or 905.702.1441
fax: 905.702.1442
email: info@aeritek.com
web: aeritekna.com

R290

tel 800.800.5706 · 905.702.1441· fax 905.702.1442 · AERITEKNA.com

Part No.107937

MNL_R290_UTGF_EN20260311

CAUTIONARY INSTRUCTIONS FOR UNITS CHARGED WITH PROPANE (R290) REFRIGERANT

⚠ WARNING



THIS UNIT IS CHARGED WITH PROPANE REFRIGERANT. PROPANE IS AN EXTREMELY FLAMMABLE AND EXPLOSIVE GAS. PLEASE READ CAREFULLY THIS MANUAL/GUIDE AND FOLLOW ALL SAFETY PRECAUTIONS CONTAINED HEREIN TO REDUCE A RISK OF FIRE AND/OR EXPLOSION. FAILURE TO FOLLOW THE SAFETY PRECAUTIONS MAY RESULT IN SERIOUS INJURY OR DEATH, AND/OR PROPERTY DAMAGE.

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 TRAINED SERVICE PERSONNEL. DO NOT PUNCTURE REFRIGERANT TUBING.

CAUTION – RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. CONSULT INSTRUCTION MANUAL/REPAIR MANUAL/OWNER'S GUIDE BEFORE ATTEMPTING TO INSTALL OR SERVICE THIS PRODUCT. ALL SAFETY PRECAUTIONS MUST BE FOLLOWED.

CAUTION - RISK OF FIRE OR EXPLOSION. DISPOSE OF PROPERLY IN ACCORDANCE WITH THE APPLICABLE FEDERAL OR LOCAL REGULATIONS. FLAMMABLE REFRIGERANT USED.

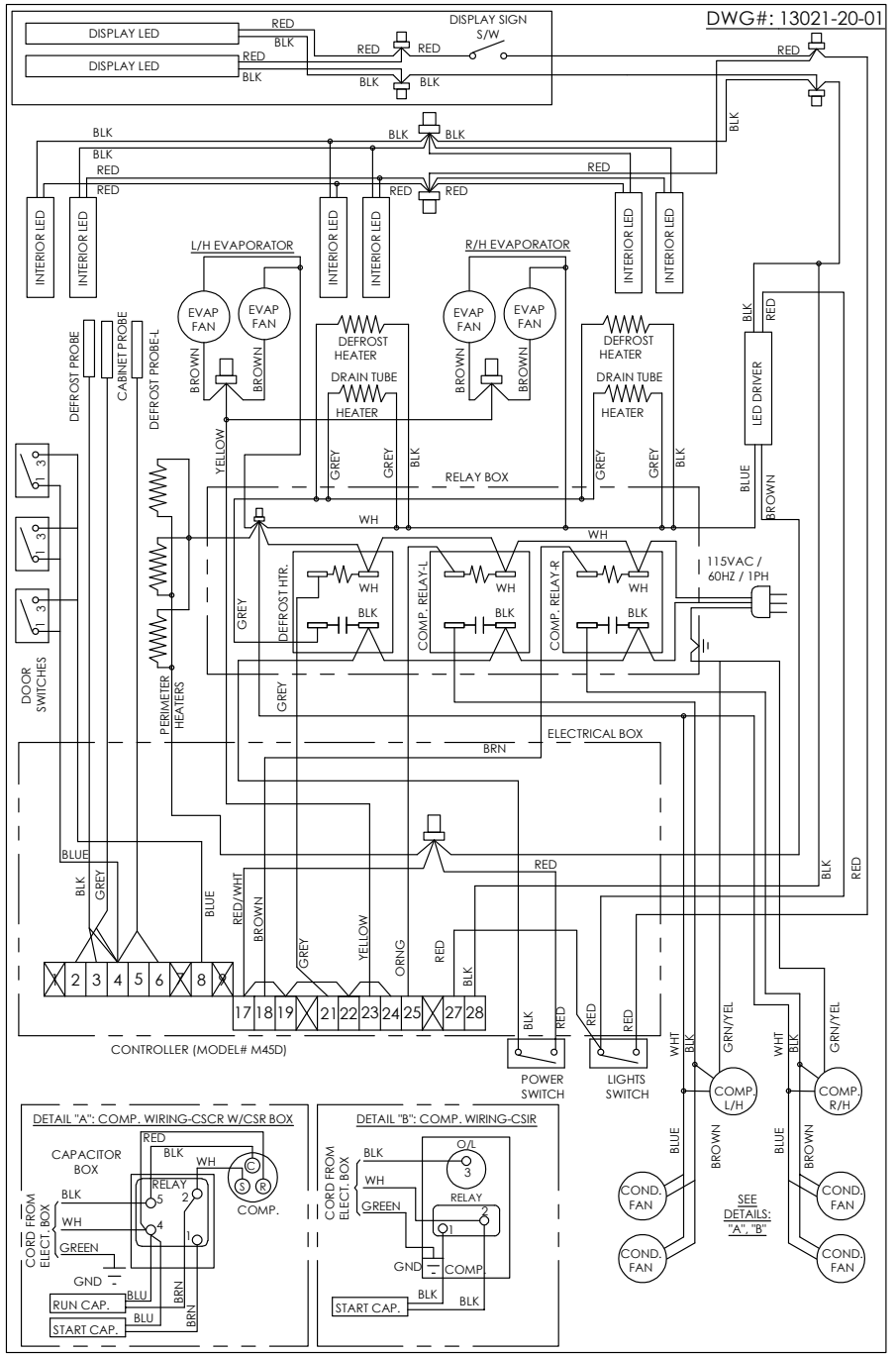
CAUTION - RISK OF FIRE OR EXPLOSION DUE TO PUNCTURE OF REFRIGERANT TUBING; FOLLOW HANDLING INSTRUCTIONS CAREFULLY. FLAMMABLE REFRIGERANT USED.

Propane is approved for use as a refrigerant in commercial, self-contained units in Canada and USA under limited use conditions. It can be used in new equipment only, retrofitting is not allowed, with limited charges. Even though there is a small amount, Propane poses a fire/explosion hazard if it leaks out of refrigerant containing parts. When mixed with air, a flammable propane-air mixture can be created and easily ignited by sparks, open flames, or hot surfaces. This is particularly true in confined zones. Propane is heavier than air and tends to settle at lower points.

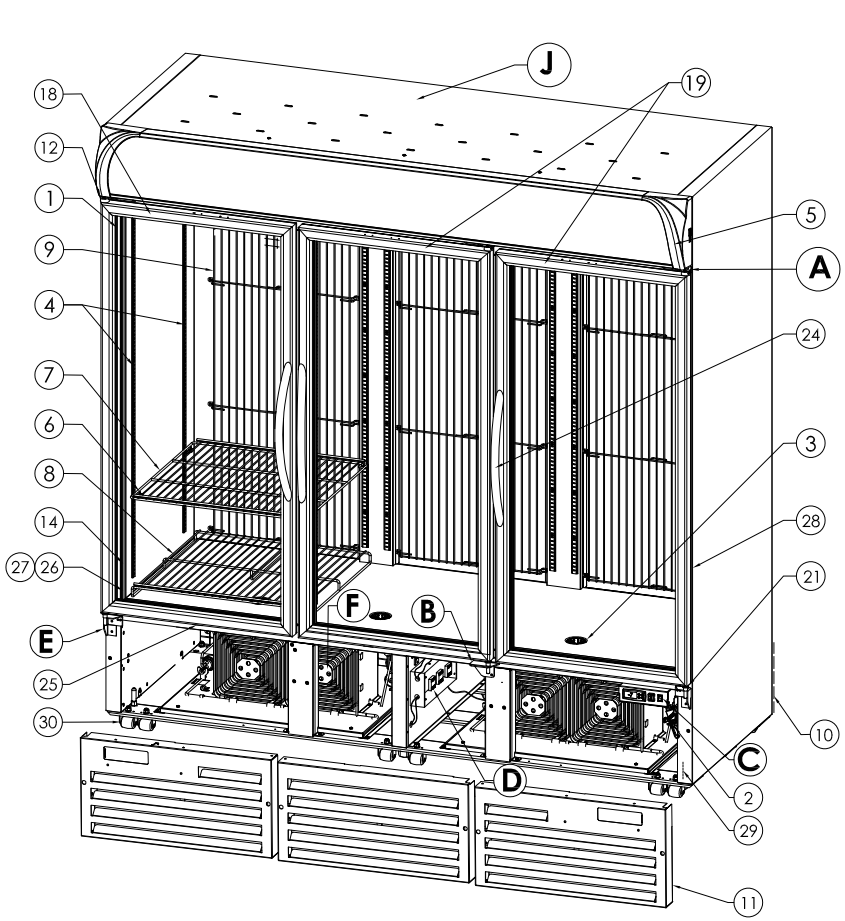
To mitigate the risk, please follow the precautionary measures as follows:

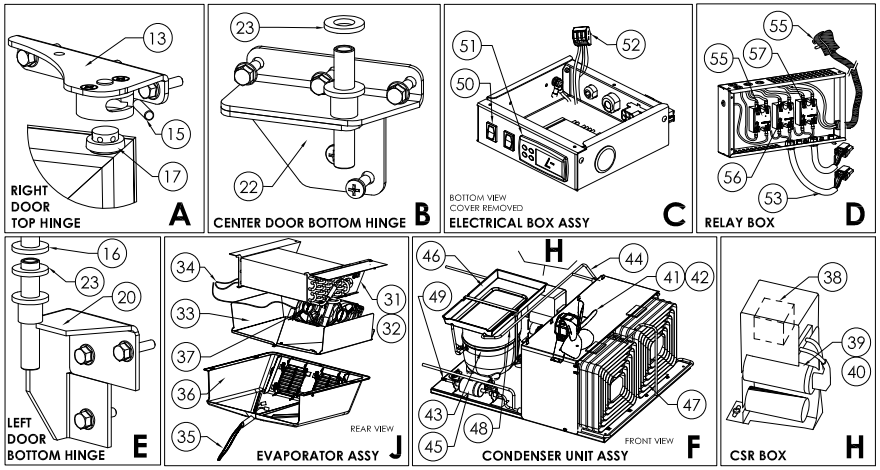
- Avoid unit installation in areas with open flames (kitchens, repair garages or the like), or in vicinity of open flames or high surface temperatures.
- Avoid unit installation in confined spaces. Well ventilated areas are preferred. Keep clear all ventilation openings of obstructions.
- Do not rely on smell to detect potential leaks of propane refrigerant. Propane refrigerant is a high purity propane gas and does not contain any stenching agent(s). Stenching agents are typically used in fuel-grade propane and natural gas to detect their presence in air by relying on smell.
- All repairs must be performed in well ventilated areas.
- To minimize the risk of possible ignition due to incorrect parts or improper service, component parts shall be replaced with like components and servicing shall be done by service personnel authorized by Minus Forty Technologies.
- Do not attempt to modify the unit or remove any functional part(s) from the unit.
- Handle the unit with care to avoid any damage.
- When transporting the unit, all appropriate safety considerations must be considered. Check with local Department of Transportation for detailed requirements pertaining to transportation of flammable gases.

WIRING DIAGRAM



ILLUSTRATION





⚠ WARNING

MAKE SURE THE FREEZER IS DISCONNECTED FROM THE POWER SUPPLY BEFORE ANY SERVICE. PRESS THE POWER SWITCH TO THE “OFF” POSITION THEN UNPLUG THE POWER CORD FROM THE ELECTRICAL RECEPTACLE.

DO NOT USE MECHANICAL DEVICES OR OTHER MEANS TO ACCELERATE THE DEFROSTING PROCESS OR TO CLEAN, OTHER THAN THOSE RECOMMENDED BY THE MANUFACTURER.

THE APPLIANCE SHALL BE STORED IN A ROOM WITHOUT CONTINUOUSLY OPERATING IGNITION SOURCES (FOR EXAMPLE: OPEN FLAMES, AN OPERATING GAS APPLIANCE OR AN OPERATING ELECTRIC HEATER).

DO NOT PIERCE OR BURN.

BE AWARE THAT REFRIGERANTS MAY NOT CONTAIN AN ODOUR.

ALL SERVICE WORK MUST BE PERFORMED BY CERTIFIED, FACTORY AUTHORIZED SERVICE PERSONNEL ONLY. COMPONENT PARTS MUST BE REPLACED WITH LIKE COMPONENTS.

COMMERCIAL USE ONLY. NOT FOR HOUSEHOLD USE.

FOR INDOOR USE ONLY.

⚠ SAFETY PRECAUTIONS

READ ALL INSTRUCTIONS AND SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

UNIT MAY POSE A TIPPING HAZARD WHEN UNCRATING, DURING INSTALLATION OR MOVING.

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS NEAR THIS OR ANY OTHER APPLIANCE.

DO NOT TOUCH COLD SURFACES WITH DAMP OR WET HANDS. SKIN MAY STICK TO EXTREMELY COLD SURFACES.

DO NOT ALLOW CHILDREN TO CLIMB, HANG OR STAND ON FREEZER SHELVES.

KEEP FINGERS OUT OF PINCH-POINT AREAS.

DISCONNECT POWER TO THE UNIT PRIOR TO CLEANING OR REPAIRING.

DO NOT USE CHLORINE-BASED PRODUCT AND HYDROCHLORIC ACID FOR CLEANING. THEY CAN CAUSE CORROSION, PITTING, AND STRESS CORROSION CRACKING OF STAINLESS STEEL. THE WARRANTY IS VOID IF SUCH CLEANING PRODUCTS ARE USED. USE ALKALINE AND NON-CHLORIDE CLEANERS.

BEFORE DISCARDING THIS OR ANY OTHER APPLIANCE, REMOVE THE DOORS OR LIDS TO REDUCE RISK OF CHILD ENTRAPMENT.

WHEN RECYCLING THE UNIT, REFRIGERANTS MUST BE HANDLED IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.

NOTICE

OPERATING THE FREEZER FOR 24 HOURS PRIOR TO LOADING PRODUCT IS RECOMMENDED

MONITOR FREEZER TEMPERATURE REGULARLY

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PARTS LIST

No	Description
1	LED Strip
2	LED Driver
3	Pressure Relief Ball
4	Pilaster
5	Top Display Assembly
6	Pilaster Clip
7	Shelf
8	Bottom Shelf
9	Interior Back Grill
10	Rear Grill
11	Front Bottom Grills
12	Door Top Bracket(Left)
13	Door Top Bracket(Right)
14	Heater Breaker Seal LED
15	Torsion Pin
16	Bushing, Nylon(c/w Door)
17	Torsion Bar (c/w Door)
18	Door Assembly(Left)
19	Door Assembly(Right)
20	Door Bottom Hinge(Left)
21	Door Bottom Hinge(Right)
22	Door Bottom Hinge(Center)
23	Nylon Washer
24	Door Handle
25	Door Switch
26	Cabinet Anti-Condensate Heater
27	Heater Breaker Seal(Bottom/Top)
28	Heater Breaker Door
29	Leveling Leg
30	Caster
31	Evaporator Coil
32	Defrost Heater
33	Evaporator Tray
34	Defrost Heater/Evaporator Fan Wires
35	Drain Tube Heater
36	Evaporator Shroud
37	Evaporator Fan
38	Relay Potential
39	Run Capacitor
40	Start Capacitor

No	Description
41	Fan Blade(Condensing Unit)
42	Fan Motor(Condensing Unit)
43	Compressor
44	Discharge Header
45	Filter Drier
46	Condensate Tray
47	Condenser Coil
48	Compressor Discharge Line
49	Liquid Header
50	Rocker Switch
51	Controller
52	3 Pole Terminal Block
53	Power Cord
54	Compressor Harness
55	Compressor Relay (Defrost)
56	Compressor Relay ((Right Side)
57	Compressor Relay (Left Side)

TROUBLESHOOTING GUIDE CONT...

for online reference go to duenorth.com

⚠ WARNING

Make sure the freezer is disconnected from the power supply before any service. Press the freezer switch to the “Off” position then unplug the power cord from electrical receptacle.
All service work must be conducted by a certified technician only.

Problem	Possible Cause	Action
Condensation on glass door.	• Door not closing properly. • Room humidity too high.	• Check the spring tension or any obstruction • To prevent condensation, room humidity should be below 55%.
LED strips are not working.	• Light switch is off. • Faulty LED strip.	• Check if the light switch is on. • Replace the LED strip. (See page 14)
Cabinet is noisy.	• Part(s) loose • Tubing vibrating	• Locate and tighten loose part(s). • Ensure tubing is not in contact with other tubing or components.
Door does not close tight.	• Freezer is not leveled. • Hinges are loose / not adjusted. • Gasket is out of the groove.	• Level the unit (See page 2). • Adjust / tighten the hinge screws. • Check gasket condition. Adjust position or replace gasket.
Electronic control blank, flashing, or displaying incorrect characters.	• Wires disconnected at back of electronic control.	• See actions described in the controller section. (page 6)
Evaporator fan does not run.	• Fan wire disconnected. • Door switch not working. • Defrost probe not attached to the evaporator coil.	• Check wiring. • Check door switch. • Check the location of defrost probe. It should be pressed in between fins in the middle of the evaporator and close to the cabinet top

STANDARD WARRANTY FOR MINUS FORTY® REFRIGERATION EQUIPMENT AND ACCESSORIES

LIMITED WARRANTY

Minus Forty® Technologies warrants its products to be free from defect as to workmanship and materials for a period of twelve (12) months from the time of delivery.

Minus Forty® Technologies will at its option either replace or repair any defective parts returned within twelve (12) months of the time of delivery, transportation charges prepaid, which Minus Forty® Technologies in its sole discretion, determines to be defective.

This warranty shall not apply to any products that have been repaired or altered outside of Minus Forty® Technologies factory or repair facilities if the repairs in the judgement of Minus Forty® Technologies have affected the reliability or wear of the product and nor does the guarantee apply to any product which has been subject to misuse, accident or to any product which has not been maintained pursuant to the instruction of Minus Forty® Technologies.

This warranty does not extend to any consequential damage caused by the failure of the product under any circumstance and further, Minus Forty® Technologies shall not be responsible for damage to the contents of the product or any economic loss caused by the failure of the product, whether such loss is suffered by the customer or a third party user of the product or whether the contents are owned by the customer or a third party user or supplier.

minusforty®

Effective January 1, 1996

INSTALLATION INSTRUCTIONS

⚠ WARNING

This freezer MUST be installed on a dedicated grounded circuit protected with a 20 Amp circuit breaker or a 20 Amp fuse. Do not remove ground prong. If the cord or plug is damaged, replace with the same type. Refrigeration and electrical work must be performed by a qualified technician. Failure to follow these instructions can result in injury, death, fire, or electrical shock.

⚠ WARNING

KEEP CLEAR OF OBSTRUCTION ALL VENTILATION OPENINGS IN THE APPLIANCE ENCLOSURE OR IN THE STRUCTURE FOR BUILDING-IN.

POWER REQUIREMENTS:

This unit requires a 20 Amp dedicated and properly grounded 115V/60Hz/1Ph circuit with a **NEMA 5-20R** receptacle.

NEMA 5-20R



Wiring should be sized according to the amperage rating stated on the serial plate. Failure to use a dedicated circuit may cause the circuit breaker to trip off and/or cause voltage drops. As a result, power to the freezer may be interrupted and cooling performance can be adversely affected which may cause equipment damage and/or product loss.

Voltage supply to the freezer must not vary more than ±10% of the nominal 115V, or performance may be affected. The warranty and liability does not cover damage resulting from excessive voltage variations.

- DO NOT USE AN EXTENSION CORD OR AN ADAPTER
- DO NOT CUT, REMOVE OR BYPASS THE GROUNDING PRONG FROM THE PLUG
- DO NOT PLUG FREEZER INTO AN OUTLET CONTROLLED BY A WALL SWITCH
- ENSURE POWER CORD IS NOT CUT OR DAMAGED FROM PINCHING, KNOTTING, OR MISHANDLING
- IF NATIONAL OR LOCAL CODE REQUIRES A GFCI, USE A GFCI BREAKER INSTEAD OF A GFCI RECEPTACLE

UNIT LOCATION: An air space of at least 2" at sides, 3" at the back, and 6" at the top must be maintained. The unit is designed to operate in an environment of 65ºF-86ºF (18ºC-30ºC) temperature and 55% maximum relative humidity.

Do not place freezer in direct sunlight; do not place freezer under or near heat range or heating vent; do not place freezer near air vents, fans, doorways or other sources that can adversely affect the freezer's performance.

THE UNIT MUST BE INSTALLED IN ACCORDANCE WITH THE SAFETY STANDARD FOR REFRIGERATION SYSTEMS, ANSI/ASHRAE 15 STANDARD. CHECK THE UNIT NAMEPLATE AND IF THE UNIT HAS A REFRIGERANT R290 (PROPANE) CHARGE MORE THAN 4.0 OZ (114 GRAMS), THE UNIT SHALL NOT BE INSTALLED IN PUBLIC CORRIDORS OR LOBBIES.

CABINET LEVELING: The freezer must be completely leveled side to side and front to back or slightly tilted front to back. Once the freezer is placed in its final location, use a carpenter level to level the freezer. Proper leveling of the freezer is important for the door closing and water drainage during the defrost cycle.

There are two leg levelers in the front that can be adjusted. First, loosen the legs using an adjustable wrench. Second, turn levelers counter-clockwise to raise the freezer, or clockwise to lower, until they reach the leveled position.

NOTICE:

Failure to follow these instructions may void the warranty and/or cause loss of product.

TROUBLESHOOTING GUIDE

for online reference go to duenorth.com

⚠ WARNING

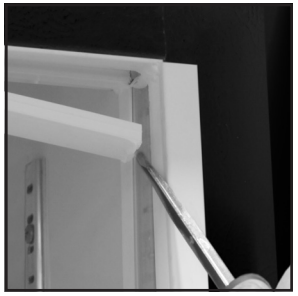
Make sure the freezer is disconnected from the power supply before any service. Press the freezer switch to the "Off" position then unplug the power cord from electrical receptacle.
All service work must be conducted by a certified technician only.

Problem	Possible Cause	Action
Freezer not operating.	• Freezer switch located on the front grill turned off. • Fuse blown / circuit breaker tripped. • Power cord unplugged. • Receptacle not working. • Improper voltage supplied to cabinet / over load circuit.	• Turn power switch on. • Replace fuse/reset circuit breaker. • Plug in power cord. • Check receptacle. • Remove extension cords or other equipment on the same circuit.
Freezer not getting cold but compressor is operating.	• Freezer located in direct sunlight or ambient (room) temperature is too hot. • Condenser clogged with dust.	• Move freezer away from direct sunlight. • Room temperature is recommended not to exceed 86ºF (30ºC), 55% RH. • See page 9 (Cleaning)
Condensing unit operating for a prolonged period or continuously.	• Freezer loaded with excessive amount of warm product. • Prolonged door opening or door ajar. • Door not closing properly. • Clogged condenser. • Evaporator coil blocked with ice or frost.	• Allow enough time for product to cool down. • Close door when not in use. Avoid prolonged door openings. • Level the unit (See page 2). Check gasket condition. Check the door spring. • Clean the condenser (See page 9). • Defrost manually if required (See page 6).
Freezer cabinet temperature too high.	• Electronic control set too high. • Poor air circulation in cabinet. • Insufficient clearance around cabinet or ambient temperature too high. • Clogged condenser	• Adjust control setting (See page 6). • Follow instructions for product loading (See page 5) • Keep proper free space around all sides as specified in the Installation Instructions. Room temperature is recommended not to exceed 86ºF (30ºC), 55% RH. Make sure the air flow to the compressor is not obstructed. • Clean the condenser (See page 9)

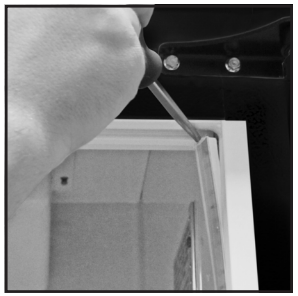
INTERIOR LED STRIP REPLACEMENT

⚠ WARNING

Make sure the unit is disconnected from the power supply before any service. Press the power switch to the "Off" position then unplug the power cord from electrical receptacle.
All service work must be conducted by a certified technician only.



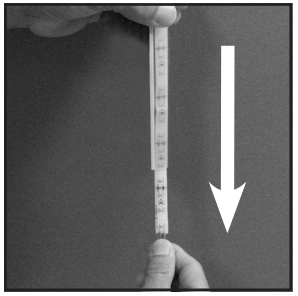
Remove silicone corner beads. Pry the screwdriver between plastic cover and cabinet frame. Pry from one end to the other.



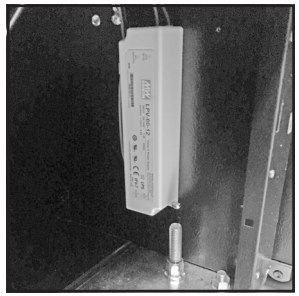
Pry the screwdriver between plastic lens cover and cabinet frame.



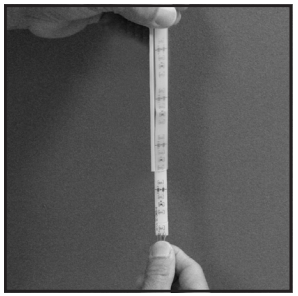
Carefully remove the plastic lens cover from cabinet frame.



Slide faulty LED strip from plastic cover.



Locate the wire for the LED strip in the compressor compartment and disconnect from connectors.



Install the new LED strip into the plastic cover.



Attach wires, observing color coding. Press lens cover back to cabinet frame.



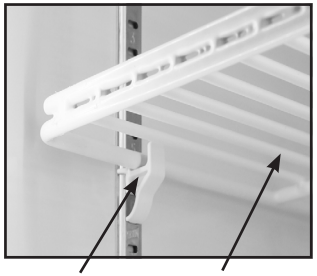
Snap plastic cover back to cabinet frame. Apply silicone at plastic cover corners.

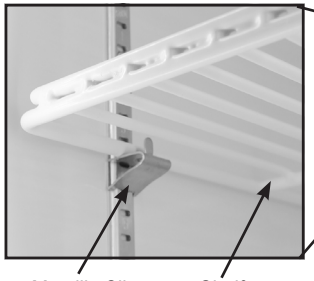


Plug the unit in and make sure the light switch on the bottom grill is in the 'ON' position.

SHELF AND BASKET, INSTALLATION AND ADJUSTMENT

The freezer is supplied with shelves and molded or metallic clips. The freezer has slotted pilasters to position the shelves according to the customer's needs.







The clips can be removed at any time if a new position is chosen for the shelf or basket. To remove, grab the clip with your thumb and index finger, then push up the bottom surface until the clip is free. Once the clips are in place, put the shelf on top. Once the shelves are securely in place, baskets (if equipped) may be positioned on the shelves.

PROTECTIVE DOOR FILM

The anti-fog glass door has a protective film on the inner side. After the unit has been installed, peel and remove the protective film covering the inner glass surface.



OPERATING INSTRUCTIONS

⚠ WARNING

Before connecting to power supply, the freezer should be upright and idle for at least 1 hour.

⚠ WARNING

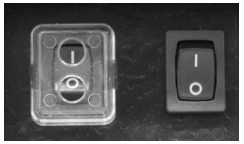
DO NOT USE MECHANICAL DEVICES OR OTHER MEANS TO ACCELERATE THE DEFROSTING PROCESS, OTHER THAN THOSE RECOMMENDED BY THE MANUFACTURER.

⚠ WARNING

DO NOT USE ELECTRICAL APPLIANCES INSIDE THE FOOD/ICE STORAGE COMPARTMENTS UNLESS THEY ARE OF THE TYPE RECOMMENDED BY THE MANUFACTURER.

Once the freezer has been installed and the power supply has been connected, press the power switch to the "ON" position.

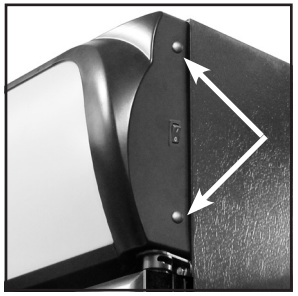
The compressors will start to run after 3 minutes. This can be confirmed by listening for a slight humming or a slight vibration.



POWER LIGHTS

Once the freezer is running, the inside temperature will start to cool down within a couple of minutes. Ensure that the freezer has reached the desired temperature (this will take about 1 hour) by checking the electronic control display readout before loading product. **IT IS STRONGLY RECOMMENDED TO RUN THE FREEZER EMPTY FOR 24 HOURS BEFORE LOADING ANY PRODUCTS.**

ISD TRANS-LIGHT LED STRIP REPLACEMENT CONT'D



Replace the plastic screw covers on the display end cap.



Plug the freezer in and make sure the light switch on the bottom grill is in the 'ON' position.



To turn the display lighting "ON" or "OFF", use the display light switch.

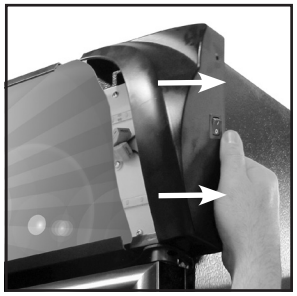
GRAPHIC PANEL REPLACEMENT (IF EQUIPPED)

⚠ WARNING

Make sure the freezer is disconnected from the power supply before any service. Press the freezer switch to the "Off" position then unplug the power cord from electrical receptacle.
All service work must be conducted by a certified technician only.



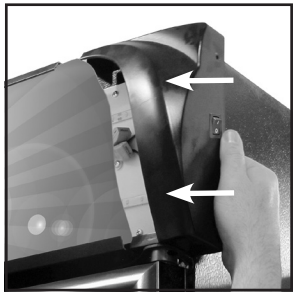
Remove the two plastic screw covers and the two screws from the right hand display end cap.



Slide the right hand display end cap from the display frame.



Slide out the old panel and replace with the new panel.



Replace the display end cap.



Replace the two screws and plastic screw covers on the display end cap. To turn the display lighting "ON" or "OFF", use the display light switch.

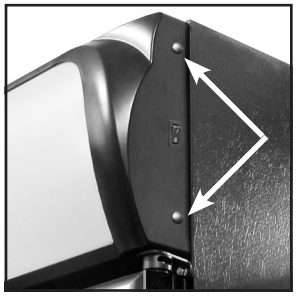


Plug the freezer in and make sure the light switch on the bottom grill is in the 'ON' position.

ISD TRANS-LIGHT LED STRIP REPLACEMENT (IF EQUIPPED)

⚠ WARNING

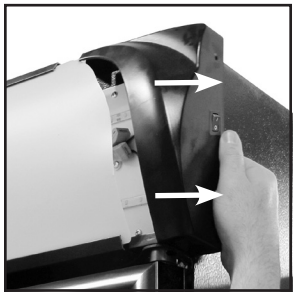
Make sure the freezer is disconnected from the power supply before any service. Press the freezer switch to the "Off" position then unplug the power cord from electrical receptacle.
All service work must be conducted by a certified technician only.



Remove the plastic screw covers from the right hand side of the display.



With a screwdriver remove the two screws from the right hand side of the display.



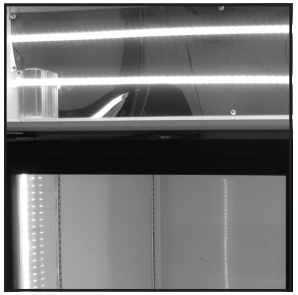
Slide the right hand display end cap from the display frame.



Slide the diffuser panel and graphic panel (if used) out of the frame channel.



Disconnect LED strip wires from connectors and peel LED strips off refrigerator.



Install replacement LED strips at the same place and connect wires. Observe color coding.



Replace the diffuser panel and graphic panel (if used).



Replace the display end cap.



Replace the two screws on the display end cap.

PRODUCT LOADING

NOTICE:

Ensure the freezer has reached the proper operating temperature before loading product.
The electronic control displays the interior cabinet temperature.

Product loss is not covered under warranty.



For enhanced performance of the unit and to avoid spoilage of perishable products, follow these instructions:

DO leave at least 6" (15 cm) free space between the fans and the product for air circulation.

DO NOT stock any products against the evaporator fans. See load limit labels inside the cabinet for reference.

DO NOT block the air space behind the grill. Free space is required for proper air circulation.

AVOID removing the bottom shelf from the inner bottom.

DO NOT overstock the unit.

SHELF LOAD LIMIT

MODEL	MAXIMUM LOAD (LB)	MAXIMUM LOAD (KG)
72-UTGF	92	42

MANUAL DEFROST

This freezer is designed for automatic defrost. Every eight hours the refrigeration system is turned OFF and the defrost/drain heaters are activated to melt the ice from the evaporator coil and drain pan. If the freezer is not leveled properly, the water may not drain out of the freezer, it will re-freeze and ice gradually builds up. Excessive ice buildup reduces cooling performance and may cause the failure of refrigeration system and product loss. Ice buildup may be noticed through the evaporator fan grill on the coil fins.

To perform a manual defrost, follow these steps:

1. Press the UP arrow button and hold it for 6 seconds until the defrost symbol illuminates.
2. Wait until the electronic control stops defrost (the defrost symbol disappears).
3. If ice is still noticeable on the evaporator, press the freezer switch to the “Off” position then disconnect the freezer from the power supply.
4. Take down the evaporator shroud and use a fa to quickly melt the ice.
5. Make sure the freezer is leveled side to side, and front to back or slightly tilted front to back.
6. Replace the evaporator shroud.

TEMPERATURE ADJUSTMENT AND SWITCH FUNCTIONS

Locate the electronic controls on the right side of the front bottom grill. The electronic control displays actual temperature inside the freezer. In addition, the electronic control turns the refrigeration system OFF when freezer reaches the set temperature, and turns the refrigeration system ON after the freezer temperature rises by 8˚F or after 7 minutes, whichever lasts longer.

To adjust the set temperature, follow these steps:

1. Press and release P button; the set temperature and SP1 are displayed alternatively on the controller
2. Press the UP or DOWN buttons to adjust the set temperature.
3. Press P to store the adjusted value; The electronic control will return to cabinet temperature display. The U Button on the electronic controller is used for displaying cabinet and defrost temperatures (PR1 cabinet sensor, PR2 for evaporator 1 and PR3 for evaporator 2).

1. POWER switch turns the refrigeration system (including all electrical parts) ON or OFF. (use a pen or pencil to press the power switch to the ON or OFF position).
2. LIGHT switch turns the internal and external lights ON or OFF.

ELECTRONIC CONTROLLER



ELECTRONIC CONTROL POWER LIGHT

CABINET CLEANING (CONT’D)

ANTI FOG GLASS DOOR INTERIOR

The anti-fog glass door has a protective film on the inner side. After the unit has been installed, peel and remove the protective film covering the inner glass surface.

The anti-fog coating is a scratch resistant, permanent coating applied on the inner surface of the door glass. It prevents fogging and icing of cold glass surface after door opening and closing.

Cleaning can be performed using common household glass cleaners (Sidolin®, Windex®, Mr. Muscle ®) and a tissue or paper towel. However, on very cold surfaces these cleaners may freeze. In these cases a mixture with 30% pure alcohol and water may be used.
At temperatures above 0°C, warm hand temperature water with a mild detergent can be applied.

DO NOT USE abrasive cleaners or materials like Ajax®, Scotch Brite® or Steel Wool.
DO NOT contaminate the door with silicone.
DO NOT USE tape, glue, stickers, attachments, magic markers or similar products on the coating.
DO NOT USE razor blades or any other mechanical device to remove foreign residues or objects directly from the coating.

DO NOT USE cleaners or materials that hinder the anti-fog performance by leaving residue or damaging the surface. Examples of these cleaners include: ArmorAll®, Tilex®, Bleach, Windex® No-Drip, Windex® Wipes, Pledge®, or any product containing silicone oils or waxes.

RECOMMENDED CLEANERS include: Greased Lightning®, Formula 409® Grease & Grime®, Fantastik®, Windex® Vinegar, Windex® Original, MicroClean Professional APC® (formerly Now® all purpose cleaner), Mean Green®, or Mr. Clean® (degreasing cleaners).

RECOMMENDED CLEANING is with a soft dry or slightly damp towel, or with one of the degreasing cleaners listed above.

CABINET CLEANING

⚠ WARNING

To reduce the risk of fire, electrical shock or personal injury, disconnect the freezer from the power source before cleaning. Press the freezer switch to the “Off” position, then unplug the power cord from the receptacle. Keep liquids away from electrical and electronic components.

⚠ CAUTION

Do not apply hot water on cold glass components. Allow glass to warm sufficiently to prevent shattering.

⚠ CAUTION

Do not use ammonia or bleach based cleaners or abrasive type cleaners.
Do not use abrasive cleaning pads.

⚠ CAUTION

Do NOT use CHLORINE-BASED product and Hydro-chloric acid for cleaning. They can cause corrosion, pitting, and stress corrosion cracking of stainless steel. The warranty is VOID if such cleaning products are used. Use Alkaline and NON-Chloride cleaners.
Do not use abrasive cleaning pads.

To clean the exterior whether it has the original finish or a decal package, use only a mild non-abrasive liquid cleaner, water and a soft cloth. For stainless steel parts, a commercial stainless steel polish and cleaner can be used. Always apply the cleaner to the soft cloth and then clean the freezer. Never apply the cleaner directly to the freezer. Excess liquid applied to the surface may seep into the electronic control and switches which can cause an electrical hazard or a malfunction.

DO NOT USE abrasive or caustic cleaners, scouring pads, solvents or flammable liquids.

GENERAL

The freezer should be cleaned at regular intervals to meet a good standard of hygiene and to keep the freezer attractive as an effective point of purchase display.

INTERIOR CLEANING

Use only mild non-abrasive liquid cleaner, water and a soft cloth for the entire freezer interior. Make sure to wipe off all residue.

EXTERIOR CLEANING

Use only mild non-abrasive liquid cleaner, water and a soft cloth for the painted surfaces and a stainless steel polish and cleaner for the stainless steel surfaces if desired.

CLEANING GLASS DOOR EXTERIOR

Due to the special coating on the glass, use only a mild, non-abrasive liquid cleaner, water, and a soft cloth. The same applies to the plastic door frame.

CONTROLLER ALARMS AND SIGNALS

The electronic controller can detect and signal several alarm conditions: high/low freezer temperatures, door open and open or short-circuited temperature probes. If the alarm conditions last longer than pre-programmed time delays, the controller will turn ON an audio signal (buzzer). Also a LED light located in the upper left corner of the controller, next to the caution symbol, will glow in case an alarm is active.

Once the alarm conditions have been fixed, the controller will turn off the alarms on its own. Alarms can be disabled by pressing any controller button, during alarm conditions.

Message	Cause	Action
Pr1 dISC	Cabinet temperature probe open	• Check connections • Replace probe
Pr1 Short CC	Cabinet temperature probe short-circuited	
Pr2 dISC	Defrost probe 1 open	• Check connection • Replace probe
Pr2 Short CC	Defrost probe 1 short-circuited	
Pr3 dISC	Defrost probe 2 open	• Check connection • Replace probe
Pr3 Short CC	Defrost probe 2 short-circuited	
Int Error	Internal memory error	• Replace controller
StArt dELAY	Start up delay in progress	• Wait for 3 minutes
HI ALArM	High temperature alarm in progress	• Check door • See Troubleshooting (page 15)
LO ALArM	Low temperature alarm in progress	• Adjust set temperature
door oPEn	Door open	• Close door
CC CYCLE	“Turbo” mode active	• none
HI LO dELAY	Alarm delay after a restocking command	• Press the door switch 3 times repeatedly within 5 seconds to enable restocking. or • Press and hold U and Down Arrow simultaneously for 5 seconds.

CONTROLLER SYMBOLS AND FUNCTIONS



At the left side of the controller display are the following LED indicators:

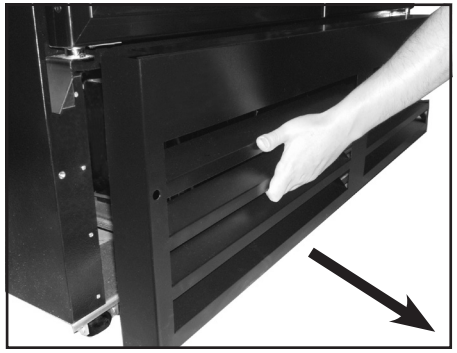
1. Indicates compressor status:
   - Light on - Compressor cooling on
   - Light off - Compressor cooling off
   - Light flashing - Start-up delay in progress

2. Indicates defrost status:
   - Light on - Defrost in progress
   - Light flashing - Freezer in dripping mode

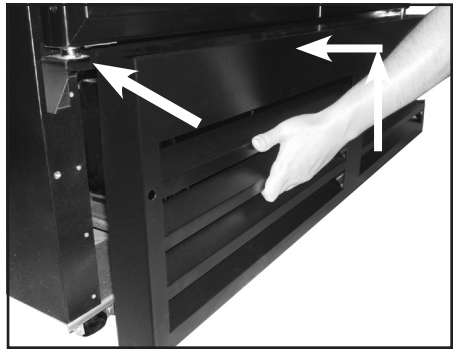
3. Indicates fan status:
   - Light on - Cabinet fan ON
   - Light off - Cabinet fan OFF
   - Light flashing - Start-up delay in progress after defrost.

4. Indicates the alarm status:
   - Light on - Alarm is on
   - Light off - Alarm is off
   - Light flashing - Alarm silenced or memorized

HOW TO REMOVE THE FRONT BOTTOM GRILLS



With a screwdriver, remove the two screws and washers from the grill front. Grasp the grill behind ventilation slots as shown, and pull it towards you.



To replace bottom grill, align the hinge slots in the grill with the hinge pins and push the grill back.
Replace the screws and washers to secure the grill to the cabinet.

CONDENSER CLEANING

The freezer is designed for minimal condenser cleaning. With the “lint free” condenser design, most dust and dirt will pass right through the condenser. To insure the proper operation, we recommend scheduled check-ups and cleaning every three to four months. This period may be shorter or longer depending on the location in which the freezer was installed. A dirty condenser can result in a voided warranty, part failure, product loss, and higher electrical cost. The steps to clean the condenser are as follows:

1. Remove the front bottom grill (see section above)
2. Switch off power at freezer switch on control panel.
3. Unplug power cord from electrical receptacle.
4. Brush the dirt, dust and paper off the condenser coil plate, all the way to the fan. Use either a vacuum or blow with a compressed air supply if available.
5. When finished with cleaning, plug power cord back into receptacle.
6. Switch power back on at switch on control panel.
7. Replace bottom grill (see section above)

NOTE:
The cleaning of the condenser is a service not covered under the warranty