

# BLACK◆DIAMOND®

## Commercial Reach-In Refrigerator & Freezer Instruction Manual



**SINGLE SOLID DOOR,  
17.3 CU. FT.**

Refrigerator: USRF-1D/19  
Freezer: USFZ-1D/19



**SINGLE SOLID DOOR,  
23.1 CU. FT.**

Refrigerator: USRF-1D  
GRRF-1DES  
Freezer: USFZ-1D  
GRFZ-1DES



**DOUBLE SOLID DOOR,  
46.7 CU. FT.**

Refrigerator: USRF-2D  
GRRF-2DES  
Freezer: USFZ-2D  
GRFZ-2DES



**SINGLE GLASS DOOR,  
17.3 CU. FT.**

Refrigerator: USRF-1D-G



**DOUBLE GLASS DOOR,  
46.7 CU. FT.**

Refrigerator: USRF-2D-G  
Freezer: USFZ-2D-G

**This manual contains important information regarding your unit. Please read this manual thoroughly prior to equipment set-up, operation, and maintenance. Failure to comply with regular maintenance guidelines outlined in this manual may void the warranty.**

## IMPORTANT SAFEGUARDS

Please pay close attention to the safety notices in this section. Disregarding these notices may lead to serious injury and/or damage to the unit.



### WARNING

**DANGER:** Risk of fire or explosion - Flammable refrigerant R290 used.

**DANGER:** Risk of fire or explosion - **Do Not** puncture refrigerant tubing.

- To be repaired only by trained service personnel.
- Consult the manual/owner's guide before attempting to service this product.
- All safety precautions must be followed.
- Follow handling instructions carefully in compliance with local government regulations.

### ATTENTION

- To minimize shock and fire hazards, be sure not to overload outlet. Please use a dedicated outlet for your unit.
- Do not use extension cords.
- Do not put your hands under the unit when the unit is required to be moved.
- When the unit is not in use for a long period of time, please unplug the unit from the outlet.
- After unplugging the unit, wait at least 10 minutes before plugging back in.
  - \* Failure to do so could cause damage to the compressor.

### UNPLUG CORD

- To minimize shock and fire hazards, please do not plug or unplug the cord with wet hands.
- During maintenance and cleaning, please unplug the unit.

### PROPER GROUNDING REQUIRED

- To minimize shock and fire hazards, make sure that the unit is properly grounded.

### PROHIBITED

- **DO NOT** attempt to remove or repair any component unless instructed by factory.
- Make sure that the unit is not resting on or against the electrical cord and plug.
- **DO NOT** hang on the doors.
- **DO NOT** store any flammable and explosive gas or liquids inside the unit.
- **DO NOT** attempt to alter or tamper with the electrical cord.

### BEFORE INSTALLATION:

- If the unit has recently been transported please let unit stand still for a minimum of 24 hours before plugging it in.
- Make sure that the desired temperature is reached before loading the unit product.
- Make sure that there is proper ventilation around the unit in the area where it will operate.
- Make sure all accessories are installed (i.e. shelves, shelf clips, casters) before plugging the unit in.
- As for units with K clips and K strips structure inside, you need firstly remove bottom K clips (4 pieces) and then re-install K clips ( 4 pieces) on proper position according to your need.
- Please read through the manual in its entirety.

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## PROPER DISPOSAL OF EQUIPMENT

- Dispose of properly in accordance with federal or local regulations.

## DANGER! RISK OF CHILD ENTRAPMENT

- Child entrapment and suffocation are not problems of the past. Junked or abandoned refrigerators are still dangerous even if they will sit for “just a few days.” If you are getting rid of an old refrigerator, please follow the instructions below to help prevent a terrible accident.
- Remove the doors
- Leave shelves in place to prevent children from easily climbing inside.

## REFRIGERANT DISPOSAL

- Your old refrigerator may have a cooling system that used “ozone-depleting” chemicals. If you are throwing away your old refrigerator, be sure the refrigerant is removed for proper disposal by a qualified service technician.
- If you intentionally release any refrigerants, you can be subject to fines and imprisonment under the provisions of the environmental regulations.

## INSTALLATION:

### CABINET LOCATION GUIDELINES:

- **Install the unit on strong and leveled surfaces**
  - \* Unit may make abnormal noises if surface is uneven
  - \* Unit may malfunction if surface is uneven
- **Install the unit in an indoor, well-ventilated area**
  - \* Unit performs more efficiently in a well-ventilated area
  - \* For best performance, please maintain clearance of 4” on the back of the unit
  - \* Outdoor use may cause decreased efficiency and damage to the unit
- **Avoid installation in a high humidity and/or dusty area**
  - \* Humidity could cause unit to rust and decrease efficiency of the unit
- **Select a location away from heat and moisture-generating equipment**
  - \* High ambient temperatures will cause the compressor to overwork, leading to higher energy bills and gradual breakdown of the unit.

## ELECTRICAL:

- Please ensure that the required voltage listed on the data plate is being supplied at all times.
- Low or high voltage can detrimentally affect the refrigeration unit.
- All units should be plugged into a grounded and properly-sized electrical outlet with appropriate over-current protection.
- Please refer to the electrical requirements on the nameplate.
- Please make sure that your unit has its own dedicated outlet.
- **DO NOT** use an extension cord.

## REGULAR MAINTENANCE

- **WARNING:** Disconnect power cord before cleaning any parts of the unit.

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## CLEANING THE CONDENSER COIL

- Dust collected on condenser coil will cause unit to malfunction. For efficient operation, it is important that the condenser surface be kept free of dust, dirt, and lint.
- Clean the condenser at least once a month with a vacuum, brush, or clean cloth.
- Clean with a commercial condenser coil cleaner, available from any kitchen equipment retailer.
- Take care not to bend the fins on the condenser.
  - \* Brush the condenser fins from top to bottom, not side to side.
  - \* After cleaning, straighten any bent condenser fins with a fin comb.

## CLEANING THE FAN BLADES AND MOTOR

- Clean the fan blades and motor with a soft dry cloth.
- Fan blades only - If soil is resistant, then dampen the cloth with warm water and mild soap to clean the fan blades. Wipe dry with soft cloth.
- Avoid getting the fan motor wet - to prevent moisture damage, cover motor.

## CLEANING THE INTERIOR OF UNIT

- When cleaning the cabinet interior, use a solvent of warm water and mild soap.
- **DO NOT** use steel wool, caustic soap, abrasive cleaners, or chlorine-based cleaners and sanitizers that may damage the stainless steel surface.
- Wash door gaskets on a weekly basis.
  - \* Door gaskets should be thoroughly wiped down, including the sides, weekly.
  - \* Check door gaskets for proper seal after they are cleaned.
- Periodically, clean and wipe down the shelves with mild soap and warm water.

## RETAIN THIS MANUAL FOR FUTURE REFERENCE

- Please read the entire manual carefully before installing and operating. If certain recommended procedures are not followed, warranty claims will be denied.

|                       |  |
|-----------------------|--|
| <b>MODEL#:</b>        |  |
| <b>SERIAL#:</b>       |  |
| <b>PURCHASE DATE:</b> |  |

Notice: We reserve the right to make changes in design and specifications without prior notice.

## TROUBLE SHOOTING

- Before requesting any service on your unit, please check the following points. Please note that this guide serves only as a reference for solutions to common problems.

| SYMPTOM                                        | POSSIBLE CAUSE                                      | CORRECTIVE ACTION                                                                                                                 |
|------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Compressor not running.                        | Fuse blown or circuit breaker tripped.              | Replace fuse or reset circuit breaker.                                                                                            |
|                                                | Power cord unplugged.                               | Plug in power cord.                                                                                                               |
|                                                | Thermostat set too high.                            | Set thermostat to lower temperature.                                                                                              |
|                                                | Cabinet in defrost cycle.                           | Wait for defrost cycle to finish.                                                                                                 |
| Condensing unit runs for long periods of time. | Excessive amount of warm product placed in cabinet. | Allow adequate time for product to cool down.                                                                                     |
|                                                | Prolonged door opening or door ajar.                | Ensure doors are closed when not in use. Avoid opening doors for long periods of time.                                            |
|                                                | Door gasket(s) not sealing properly.                | Ensure gaskets are snapped in completely. Check condition of gasket and clean or replace as needed.                               |
|                                                | Dirty condenser coil.                               | Clean the condenser coil.                                                                                                         |
|                                                | Evaporator coil iced over.                          | Unplug unit and allow coil to defrost. Make sure thermostat is not set too cold. Ensure that door gasket(s) are sealing properly. |
| Cabinet temperature is too warm.               | Thermostat set too warm.                            | Set thermostat to lower temperature.                                                                                              |
|                                                | Air flow inside cabinet is blocked                  | Re-arrange product to allow for proper air flow. Make sure there is at least four inches of clearance from evaporator.            |
|                                                | Excessive amount of warm product placed in cabinet. | Allow adequate time for product to cool down.                                                                                     |
|                                                | Fuse blown or circuit breaker tripped.              | Replace fuse or reset circuit breaker.                                                                                            |
|                                                | Dirty condenser coil.                               | Clean the condenser coil.                                                                                                         |
|                                                | Prolonged door opening or door ajar.                | Ensure doors are closed when not in use. Avoid opening doors for long periods of time.                                            |
|                                                | Evaporator coil iced over.                          |                                                                                                                                   |
| Cabinet is noisy.                              | Loose part(s).                                      | Locate and tighten loose part(s).                                                                                                 |
|                                                | Tubing vibration.                                   | Ensure tubing is free from contact with other tubing or components.                                                               |

## REFRIGERATION 2/5 WARRANTY

Beverage Center: Back Bar Coolers & Bottle Coolers • Drink Dispenser: Beer Dispensers • Freezer: Reach-Ins, Undercounters  
• Frozen Treat: Dipping Cabinets • Ice: Commercial Ice Makers •  
Refrigerator: Chef Bases, Deli Cases, Glass Froster, Merchandisers, Prep Tables, Reach-Ins, Undercounters

### TWO (2) YEAR LIMITED WARRANTY PARTS AND APPROVED STRAIGHT-TIME LABOR, FIVE (5) YEAR WARRANTY COMPRESSOR AND EVAPORATOR

(subject to limitations below)

The Legacy Companies (the "Company") warrants this product (the "Product") will be free from defects in material and workmanship under normal use and service as specified by the Company for duration of:

- Two (2) Year Limited Warranty on Parts and Approved Straight-Time Labor
- Five (5) Year Parts-Only Warranty on Compressor and Evaporator. Extended coverage excludes labor, refrigerant, driers, tubing, recovery costs, and related service expenses unless expressly stated otherwise.

This Limited Warranty is non-transferable.

During the Warranty Period, your exclusive remedy is repair or replacement without charge of the Product or any component found to be defective at the Company's discretion. If the Product or any component is no longer available, the Company will replace it with a similar one of equal or greater value.

The Warranty Period begins on the earliest of: (a) documented installation date; (b) date of purchase; or (c) date of shipment from the Company. In all cases, the Warranty Period shall not begin later than six (6) months after shipment.

The obligation of the Company under this warranty is limited to the repair or replacement, at the Company's sole discretion, of defective parts or assemblies that are reported during the Warranty Period and determined by the Company to be defective but excluding all labor charges (except as provided in the next paragraph).

The Company will cover approved straight-time labor only, performed during normal business hours, for covered defects reported within the applicable labor warranty period. Labor coverage excludes overtime, premium rates, travel exceeding one hundred (100) miles round-trip, multiple service trips, and access delays.

Costs expressly excluded from this warranty include, but are not limited to:

- Adjustments
- Cleaning and/or sanitizing
- Consumable/wearable items, such as gaskets, filters, light bulbs, legs, casters, hinges, non-stick cooking surfaces, etc.
- Labor to remove and/or install replacement equipment
- Disposal of defective equipment
- Improper or inadequate utility connections, including but not limited to:
  - \* Voltage outside of data plate specifications
  - \* Improper gas pressure
  - \* Improper gas supply
  - \* Water pressure outside of specified range
  - \* Poor water quality
  - \* Non-use or incorrect use of water filtration system
- External drain malfunction.
- Adverse operating conditions as set forth in the owner/user manual for the product.
- Non-authorized modification of the product.
- Improper installation of the product, including installation in a hostile environment
- Improper maintenance, abuse or misuse of the product.
- Causes beyond the reasonable control of the Company, including without limitation fires, freezing, floods and other natural disasters.
- Damage during transit.

No warranty shall apply to any product on which the model or serial number has been altered or removed. Adjustments or modifications to any equipment manufactured by the Company are not covered by this warranty.

This Warranty only extends to the original owner/end user and is not transferable or applicable to products sold through unauthorized channels.

This Warranty covers installations for Commercial use only. Installation or use in any residential or non-commercial setting voids all warranty coverage.

This warranty applies to the original installation location only.

**IMPORTANT INSTALLATION NOTICE:** Equipment installed outdoors or in mobile or non-permanent environments (including food trucks, trailers, RVs, or boats) is limited to a thirty (30) day warranty unless expressly approved in writing by the Company.

All warranty requests are to be made through the Company's Warranty and Technical Service team. All warranty requests shall include the product model and serial number, original installation date and/or Proof of Purchase, photo of the equipment serial number data plate and complete customer identification and location.

Replacement parts may be new or rebuilt at the Company's discretion and are warranted for the longer of ninety (90) days or the remaining original Warranty Period. Company and its agents are expressly permitted to specify rebuilt parts as suitable replacement parts. All replacement parts must be approved Company parts obtained through the Company or a Company approved parts distributor.

THIS WARRANTY IS IN LIEU OF ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, PERFORMANCE, OR OTHERWISE, WHICH ARE HEREBY EXCLUDED. IN NO EVENT SHALL THE COMPANY BE LIABLE FOR ANY DAMAGES, WHETHER DIRECT, INDIRECT, INCIDENTAL, FORESEEABLE, CONSEQUENTIAL, OR SPECIAL ARISING OUT OF OR IN CONNECTION WITH THIS PRODUCT INCLUDING DAMAGES ARISING FOR LOSS OF PROFIT, FOOD OR BEVERAGE SPOILAGE CLAIMS, OR OTHER COMMERCIAL LOSS.

You may have other legal rights depending upon where you live. Some States or Provinces do not allow limitations on warranties so the foregoing may not apply to you.