

USER GUIDE & SERVICE MANUAL



U-LINE

Model: URCC115-IS81A

USER GUIDE & SERVICE MANUAL

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WELCOME TO U-LINE

Congratulations on your U-Line purchase! Our products are focused on functionality, style, and inspired innovations — paying close attention to even the smallest details. Applications include residential, outdoor, ADA height compliant, marine, and commercial. Product categories include Beverage Centers, Wine Refrigerators, Ice Machines, Refrigerators, Freezers, and Dispensers. Our advanced refrigeration systems, large and flexible capacities, and clean integrated look are what makes our products Built-In to Stand Out®. Since 2014, U-Line has been part of the Middleby family of brands.

U-Line — RIGHT PRODUCT. RIGHT PLACE. RIGHT TEMPERATURE.®

PRODUCT INFORMATION

Looking for additional information on your product? User Guides, Spec Sheets, CAD Drawings, and Product Warranty information are available digitally on u-line.com.

PROPERTY DAMAGE / INJURY CONCERNS

In the unlikely event property damage or personal injury is suspected related to a U-Line product, please take the following steps:

1. U-Line Customer Care must be contacted immediately at +1.414.354.0300.
2. Service or repairs performed on the unit without prior written approval from U-Line is not permitted. If the unit has been altered or repaired in the field without prior written approval from U-Line, claims will not be eligible.

GENERAL INQUIRIES

U-Line Corporation
8900 N. 55th Street
Milwaukee, Wisconsin 53223 USA
Monday - Friday 8:00 am to 4:30 pm CST
T: +1.414.354.0300
Email: sales@u-line.com
u-line.com

SERVICE & PARTS ASSISTANCE

Monday - Friday 8:00 am to 4:30 pm CST
T: +1.414.354.0300
Service Email: onlineservice@u-line.com
Parts Email: onlineparts@u-line.com

CONNECT WITH US AT MIDDLEBY REFRIGERATION

Safety and Warning

NOTICE

Please read all instructions before installing, operating, or servicing the appliance.

Use this appliance for its intended purpose only and follow these general precautions with those listed throughout this guide:

SAFETY ALERT DEFINITIONS

Throughout this guide are safety items labeled with a Danger, Warning, or Caution based on the risk type:

DANGER

Danger means that failure to follow this safety statement will result in severe personal injury or death.

WARNING

Warning means that failure to follow this safety statement could result in serious personal injury or death.

CAUTION

Caution means that failure to follow this safety statement may result in minor or moderate personal injury, property, or equipment damage.

DANGER

This unit contains R600a (Isobutane) which is a flammable hydrocarbon. It is safe for regular use. Do not use sharp objects to expedite defrosting. Do not service without consulting the “R600a specifications” section included in the User Guide. Do not damage the refrigerant circuit.

WARNING

Service must be done by factory authorized service personnel. Any parts shall be replaced with like components. Failure to comply could increase the risk of possible ignition due to incorrect parts or improper service.

CALIFORNIA PROPOSITION 65

This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

www.P65warnings.CA.gov

CAUTION

This equipment is to be installed with adequate backflow protection to comply with applicable federal, state and local codes.

Disposal and Recycling



RISK OF CHILD ENTRAPMENT. Before you throw away your old refrigerator or freezer, take off the doors and leave shelves in place so children may not easily climb inside.

If the unit is being removed from service for disposal, check and obey all federal, state, and local regulations regarding the disposal and recycling of refrigeration appliances, and follow these steps completely:

1. Remove all consumable contents from the unit.
2. Unplug the electrical cord from its socket.
3. Remove the door(s)/drawer(s).

Environmental Requirements

This model is intended for indoor/interior applications only and is not to be used in installations that are open/exposed to natural elements.

This unit is designed to operate between 50°F (10°C) and 100°F (38°C). Higher ambient temperatures may reduce the unit's ability to reach low temperatures and/or reduce ice production on applicable models.

For best performance, keep the unit out of direct sunlight and away from heat generating equipment.

In climates where high humidity and dew points are present, condensation may appear on outside surfaces. This is considered normal. The condensation will evaporate when the humidity drops.



Damages caused by ambient temperatures of 40°F (4°C) or below are not covered by the warranty.

Electrical



SHOCK HAZARD — Electrical Grounding Required. Never attempt to repair or perform maintenance on the unit until the electricity has been disconnected.

Never remove the round grounding prong from the plug and never use a two-prong grounding adapter.

Altering, cutting or removing power cord, removing power plug, or direct wiring can cause serious injury, fire, loss of property and/or life, and will void the warranty.

Never use an extension cord to connect power to the unit.

Always keep your working area dry.

NOTICE

Electrical installation must observe all state and local codes. This unit requires connection to a grounded (three-prong), polarized receptacle that has been placed by a qualified electrician.

The unit requires a grounded and polarized 115 VAC, 60 Hz, 15A power supply (normal household current). An individual, properly grounded branch circuit or circuit breaker is recommended. A GFCI (ground fault circuit interrupter) is usually not required for fixed location appliances and is not recommended for your unit because it could be prone to nuisance tripping. However, be sure to consult your local codes.

See CUTOUT & PRODUCT DIMENSIONS for recommended receptacle location.

Cutout & Product Dimensions

PREPARE SITE

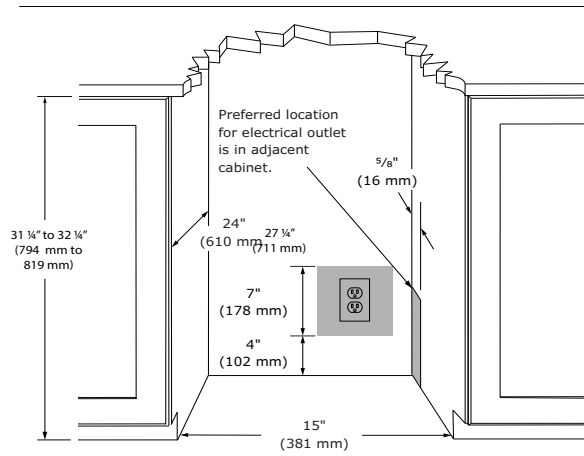
Your product has been designed for either free-standing or built-in installation. When built-in, your unit does not require additional air space for top, sides, or rear. However, the front grille must NOT be obstructed, and clearance is required for an electrical connection in the rear.



Unit can NOT be installed behind a closed cabinet door.

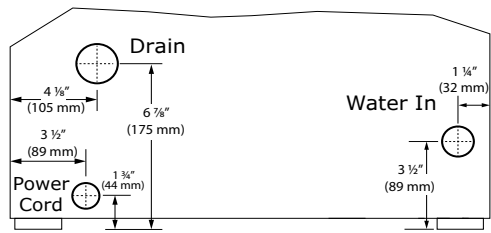
If you would like to align the face of the unit with other adjacent cabinet doors, you may need to alter the wall just behind the drain connection on the unit to accommodate the drain.

CUTOUT DIMENSIONS

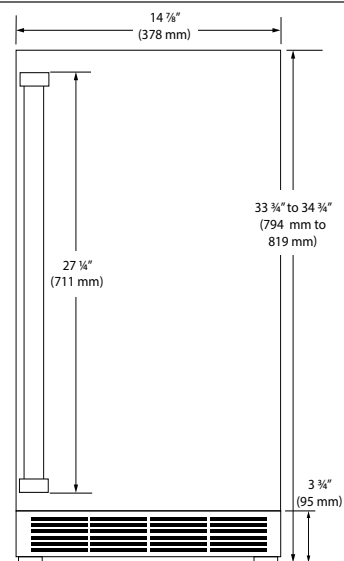


PRODUCT DIMENSIONS

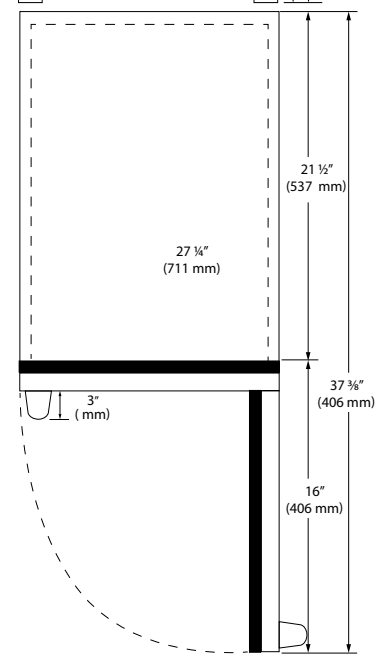
REAR



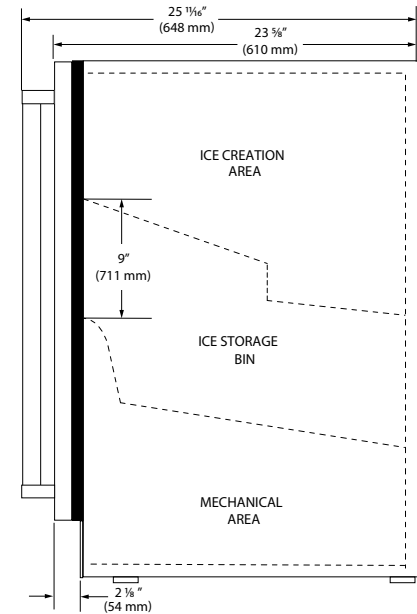
FRONT



TOP



SIDE



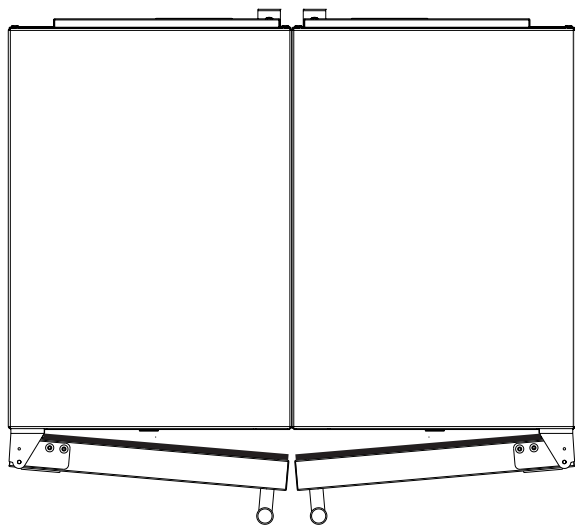
Side-by-Side Installation

OTHER SITE REQUIREMENTS

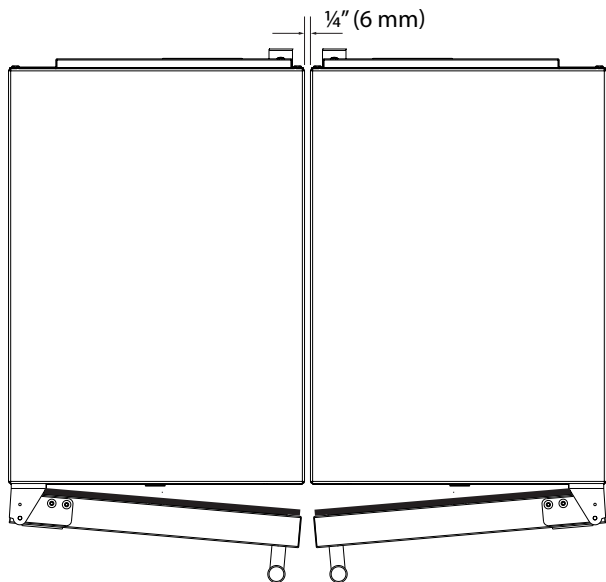
Side-by-Side Installation

Units must operate from separate, properly grounded electrical receptacles placed according to each unit's electrical specifications requirements.

Cutout width for a side-by-side installation is the total of the widths listed under Cutout Dimensions in each unit's Installation Guide. Each door can be opened individually (one at a time) without interference.

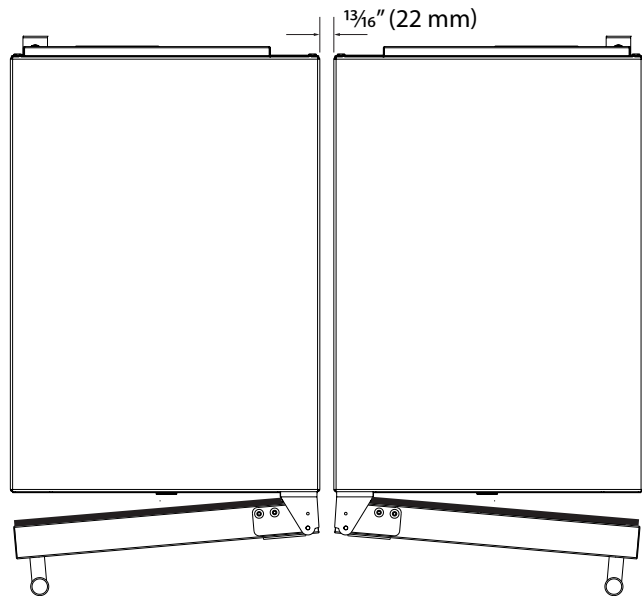


However, to ensure unobstructed door swing (opening both doors at the same time), 1/4" (6.4 mm) of space needs to be maintained between the units.

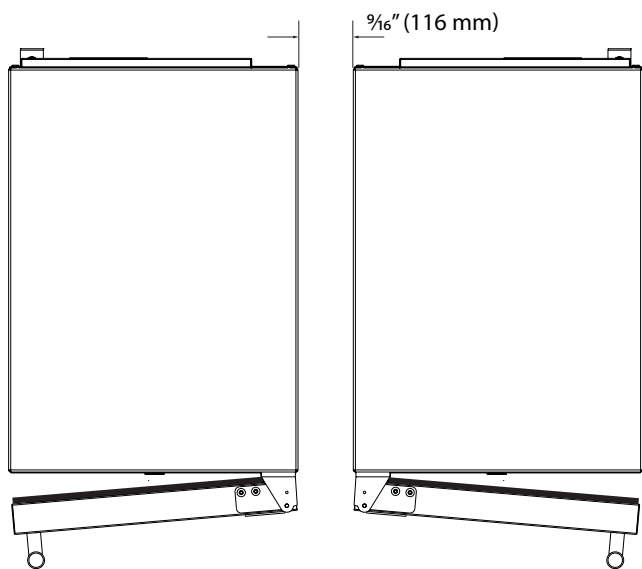


Hinge-by-Hinge Installation (Mullion)

When installing two units hinge-by-hinge, 13/16" (22 mm) is required for integrated models. Additional space may be needed for any knobs, pulls or handles installed.



Stainless steel models which include the standard stainless handle will require 4-9/16" (116 mm) to allow both doors to open to 90° at the same time.



Water Hookup

WATER SUPPLY

⚠ CAUTION

Observe and follow all local building codes when installing this appliance.

This ice machine must be connected to a potable cold water supply line, delivering water pressure between a minimum of 20 psi and a maximum of 120 psi.

Use 1/4" copper tubing for your water supply which is available at any local hardware or plumbing supply store. Route the 1/4" copper tubing to suit your installation being sure not to kink the tubing. Purchase enough copper tubing length to allow a coil to be formed behind the unit for a "service loop" which will allow the appliance to be pulled out from the installation for servicing or cleaning. (See Figure 11). Connect the copper tubing to the "top side" of a cold water pipe to prevent the ice-maker from plugging with sediment.

A shutoff valve is recommended on the water supply line to ease servicing the appliance. NOTE: A SELF-PIERCING TYPE VALVE IS NOT RECOMMENDED as they are prone to clogging with sediment which will create pressure drop reducing the water supply to the unit.

Connect the copper tubing water supply to the water valve inlet with a 1/4" compression nut fitting.

IMPORTANT: Secure the water supply line to the back of the cabinet with the screw and strain relief clamp provided in the corner of the back panel.

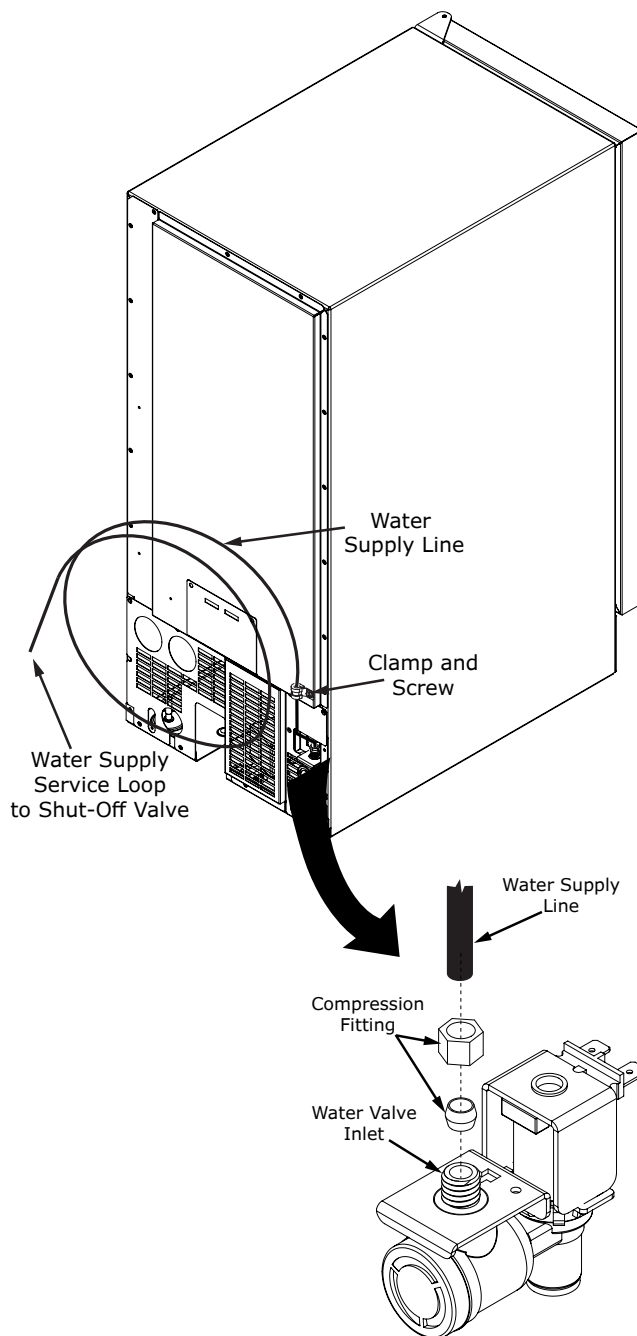
Make certain all connections are watertight after installation. Form the tubing so that it will not vibrate against the cabinet body or kink when your appliance is moved in and out of position.

This ice machine is designed to make clear ice from the majority of water sources on a daily basis. If your results are unsatisfactory, your water may need to be filtered or treated. A water specialist can recommend proper water treatment.

⚠ CAUTION

To prevent water leaks:

- The water line fitting is to be used with copper tubing only. Do not use with plastic tubing.
- Do not use any thread sealers on this water line fitting.



NOTE:

Reverse osmosis (RO) water, softened water, and de-ionized water are not recommended as they can adversely affect the quality and quantity of the ice.

Drain

DRAIN CONNECTION

⚠ CAUTION

The floor drain must be large enough to accommodate drainage from all attached drains. Follow these guidelines when installing drain lines to prevent water from flowing back into the ice maker storage bin and/or potentially flowing onto the floor, which may result in personal injury or property damage

NOTICE

Drain can NOT be located directly below the unit. Unit has a solid base that will not allow the unit to drain below itself.

There is a possibility that hose connections may have loosened during shipment.

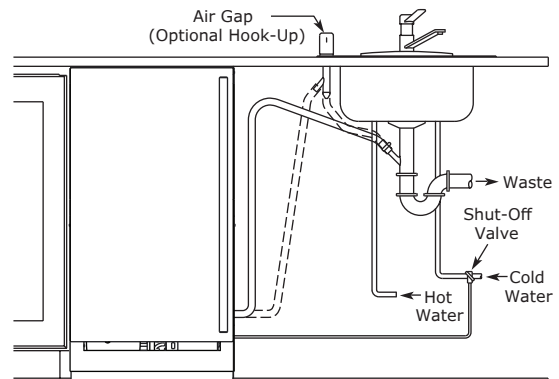
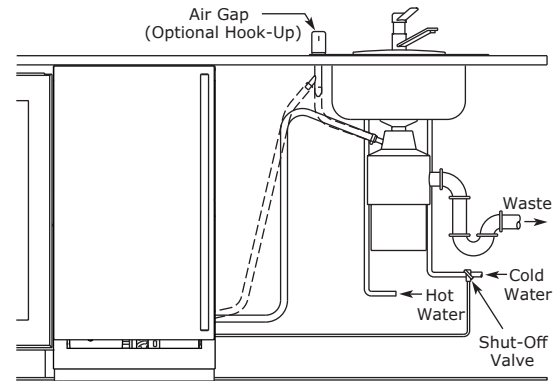
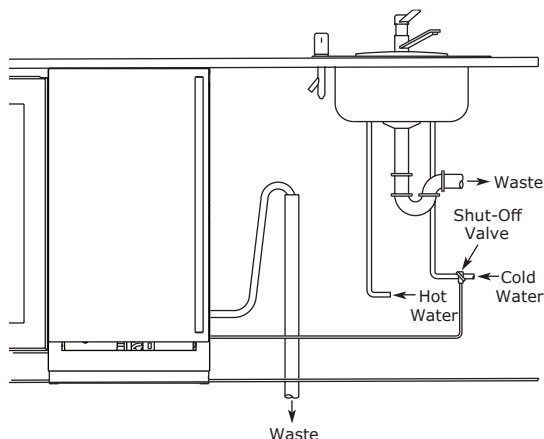
Verify all connections and fittings are free from leaks.

⚠ CAUTION

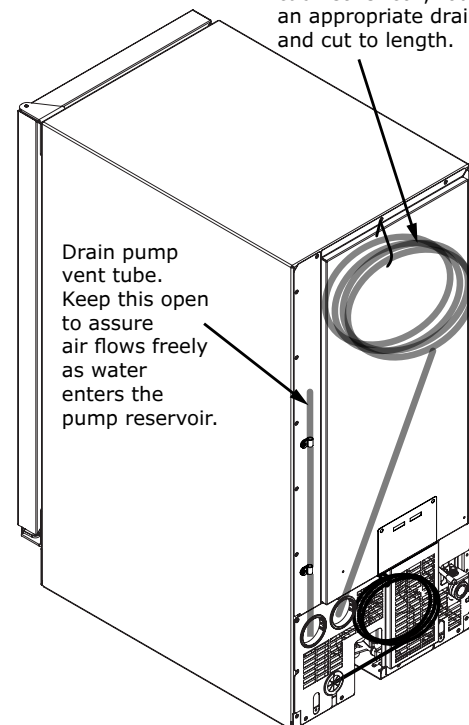
This equipment is to be installed with adequate backflow protection to comply with applicable federal, state and local codes

⚠ CAUTION

Failure to connect water supply or drain line connections properly can result in personal injury and property damage. Gravity drain connections must be routed downward from the rest of the unit at the rate of 1/4" per foot (1 cm per 50 cm).



Drain line coiled and secured to the back of the cabinet. Uncoil, route to an appropriate drain, and cut to length.



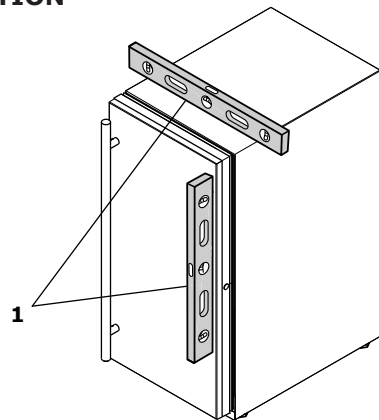
NOTICE

The maximum lift for the drain pump is 10 feet. This must be done as close to the rear of the unit as possible.

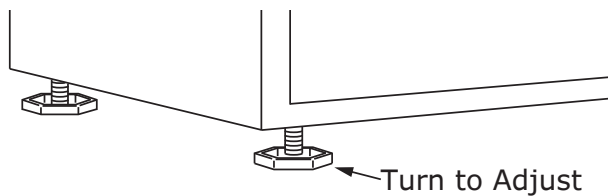
General Installation

LEVELING INFORMATION

1. Use a level to confirm the unit is level. Level should be placed along top edge and side edge as shown.



2. If the unit is not level, adjust the legs on the corners of the unit as necessary.



3. Confirm the unit is level after each adjustment and repeat the previous steps as needed.

INSTALLATION TIP

If the room floor is higher than the floor in the cutout opening, adjust the rear legs to achieve a total unit rear height of $\frac{1}{8}$ " (3 mm) less than opening's rear height. Shorten the unit height in the front by adjusting the front legs. This allows the unit to be gently tipped into the opening. Readjust the front legs to level the unit after it is correctly positioned in the opening.

INSTALLATION

1. Plug in the power/electrical cord.
2. Gently push the unit into position. Be careful not to entangle the cord or water and drain lines, if applicable.
3. Re-check the leveling, from front to back and side to side. Make any necessary adjustments. The unit's top surface should be approximately $\frac{1}{8}$ " (3 mm) below the countertop.
4. Remove interior packing material and wipe out the inside of the unit with a clean, water-dampened cloth.

Integrated Panel Dimensions

INTEGRATED PANEL

NOTICE

Due to differences in surrounding cabinetry the panel may not perfectly align with door. The procedure below is designed to provide a finished integrated panel that seamlessly integrates with surrounding cabinetry.

Panel Preparation

A full integrated door panel completely covers the door frame and provides a built-in appearance.

NOTICE

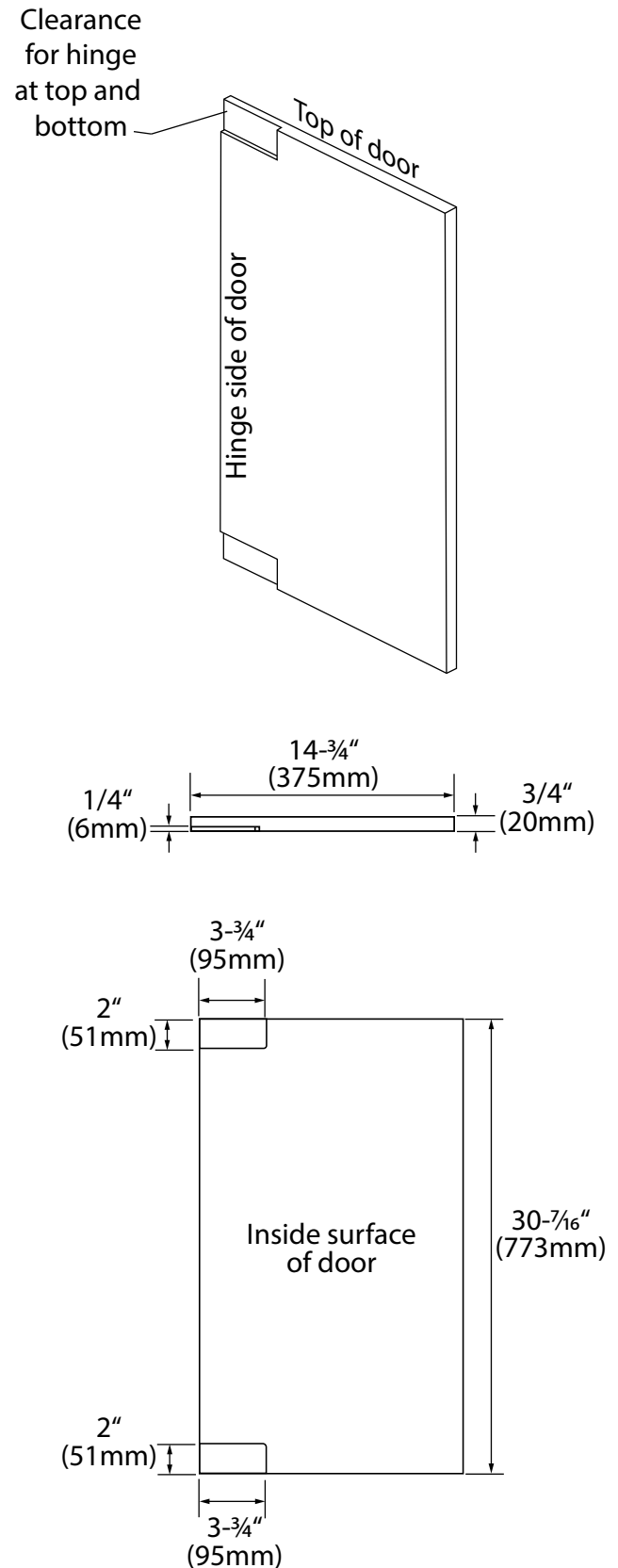
The door panel must not weigh more than 20 lbs (10 kg).

It is important to ensure that all drilled holes are drilled to the correct depth in order to avoid splits in the wood when hardware is installed.

1. Cut the panels to the dimensions listed in the diagram below.
2. Remove 2" x 3-3/4" x 1/4" material from the inside surface to provide for hinge clearance at the top and the bottom.
3. Optional: Stain or finish panel to desired stain or color. Be sure to closely follow the instructions provided by the manufacturer.
4. Optional: Install handles and hardware.

NOTICE

When applying an integrated panel to a unit, ensure that both sides are finished in order to prevent warping.

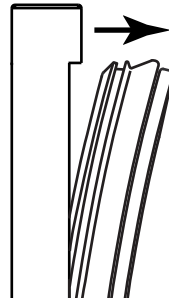


Integrated Panel Installation

1. Fully open door.

2. Starting at corner, pull gasket away from door.

3. Continue to pull gasket free from gasket channel.



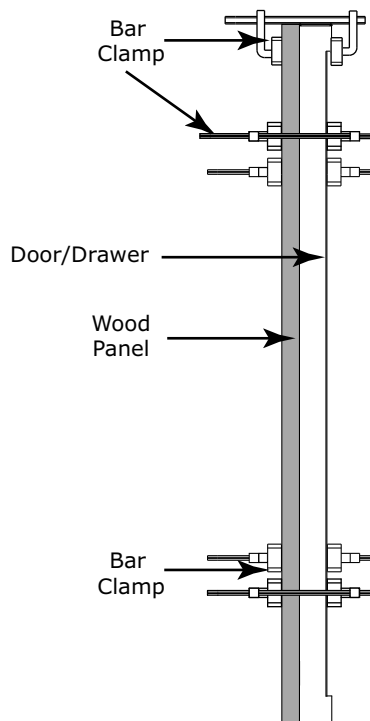
4. Upon removal, lay gasket down on a flat surface.

5. Align top of panel with top edge of door. Center panel on door.

NOTICE

Due to differences in floor construction or surrounding cabinetry, the panel may not sit flush with the top of the door.

6. Secure integrated panel to door using clamps. A robust tape may also be used. U-Line recommends the use of bar clamps to secure the panel to the door. If using tape, be certain the tape will not damage panel finish upon removal.



7. Using a 7/64" (3 mm) drill bit, drill 6 pilot holes into the wood panel 1/2" (12 mm) deep using the holes in the door frame as a guide.

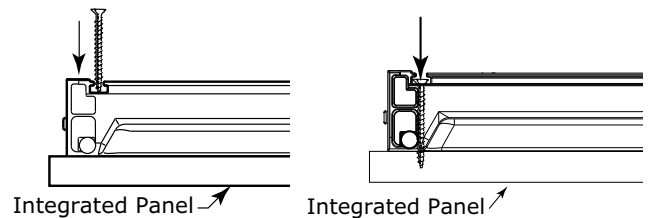
NOTICE

It is important to ensure that all drilled holes are drilled to the correct depth in order to avoid splits in the wood when hardwood is installed.

8. Locate 6 of the #6x 1-1/2" (38 mm) screws provided with your unit.

9. Using a Phillips screwdriver, place one screw into each of the 6 pilot holes and screw down. Do not overtighten screws.

10. Ensure the screws sit flush against the bottom of the channel.



11. Remove clamps from door.

NOTICE

If panel requires additional adjustment after removing clamps, slightly loosen each screw and adjust panel as necessary. Tighten screws upon completion.

12. Starting at the corners, re-install the gasket into the gasket channel in the frame. Make sure the gasket is fully seated.

Grille Installation

REMOVING AND INSTALLING GRILLE



Disconnect electric power to the unit before removing the grille.

When using the unit, the grille must be installed.



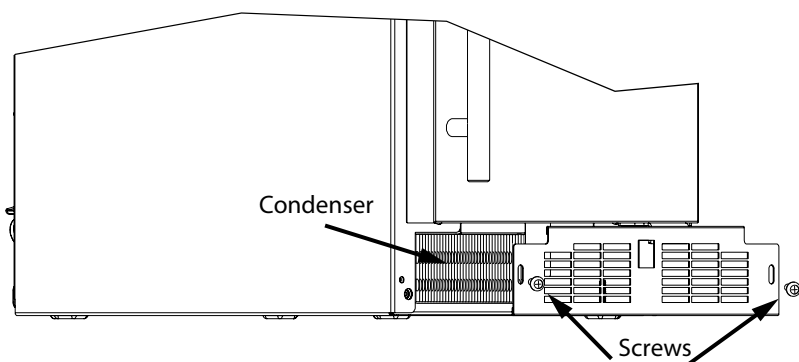
Do NOT touch the condenser fins. The condenser fins are SHARP and can be easily damaged.

Removing the grille

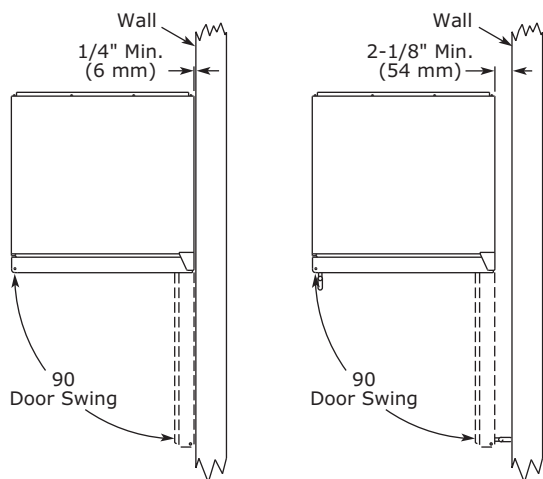
1. Disconnect power to the unit.
2. Remove the two screws.
3. Remove grille from unit.

Installing the grille

1. Align cabinet and grille holes and secure, but do not over tighten grille screws.
2. Reconnect power to the unit.



Door Swing



Units have a zero clearance for the door to open 90°, when installed adjacent to cabinets.

Stainless Steel and black and white models require 2-1/8" (54 mm) door clearance to accommodate the handle if installed next to a wall.

Integrated models require 1/4" (6 mm) clearance if installed next to a wall. Allow for additional space for any knobs or pulls installed on the integrated panel/frame.

Door Adjustments

DOOR ALIGNMENT AND ADJUSTMENT

Align and adjust the door if it is not level or not sealing properly. If the door is not sealed, the unit may not cool properly, or excessive frost or condensation may form in the interior.

NOTICE

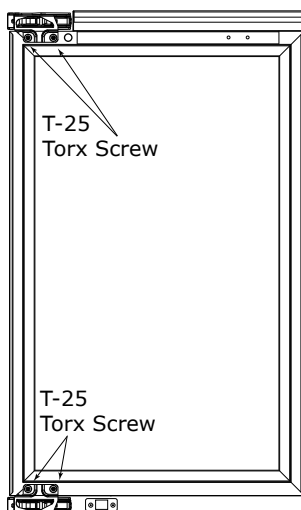
Properly aligned, the door's gasket should be firmly in contact with the cabinet all the way around the door (no gaps). Carefully examine the door's gasket to ensure that it is firmly in contact with the cabinet. Also make sure the door gasket is not pinched on the hinge side of the door.



Do not attempt to use the door to raise or pivot your unit. This would put excessive stress on the hinge system.

Alignment and Adjustment Procedure

1. Open door and remove gasket near the hinges.
2. Using a T-25 Torx bit, loosen each pair of Torx head screws both the upper and lower hinge plates.
3. Square and align door as necessary.
4. Tighten Torx head screws on hinge.
5. Reinstall gasket into the channel starting at the corner.

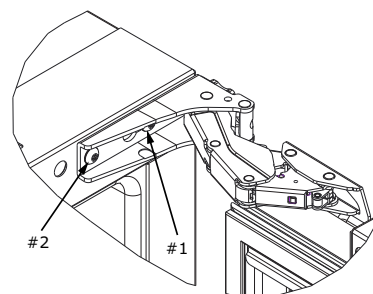


REVERSING THE DOOR



To prevent stripping or breaking the screws, do not use power tools during this procedure.

1. Open door.
2. Using T-25 Torx screwdriver, loosen screw #1 and remove screw #2 on both the top and the bottom hinge. Slide and remove the door from the unit.



3. Remove the two loosened screws.

NOTICE

All hardware should stay with each hinge - this includes the spacer that accompanies one of the hinges - the spacer **MUST remain with the same exact hinge, regardless of whether it is in the top or the bottom position.**

4. On the opposite side of the unit, use a Phillips screwdriver to remove the two top and two bottom screws that are currently installed in the hinge attachment holes. Reinstall the four screws on the side where the door had been attached.
5. On the other side, partially install screw T-25 Torx screw #1 in the outer most holes on top and bottom.
6. Rotate door 180°, align hinge over screw #1 and slide/seat into position, making sure that the spacer is installed with the appropriate hinge (see Notice above). Reinstall screw #2 on top and bottom.

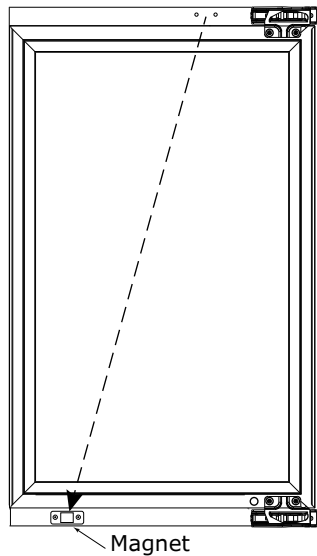
Align and adjust the door:

Align and adjust the door (see DOOR ALIGNMENT AND ADJUSTMENT).

7. Tighten all screws.

Reposition Magnet

1. Remove magnet by taking out 2 screws.
2. Install magnet at other end of door.



Align and adjust the door:

Align and adjust the door

(see DOOR ALIGNMENT AND ADJUSTMENT).

First Use

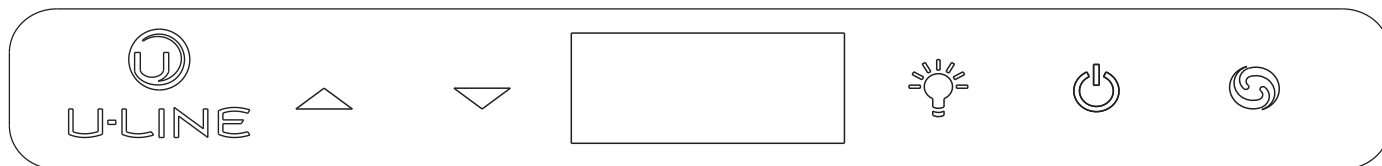
Initial startup requires no adjustments. See CONTROL OPERATION section for more details.

NOTICE

Discard the ice produced during the first two or three hours of operation to avoid possible dirt or scale that may dislodge from the water line.

When plugged in, the unit will begin operating under the factory default settings. If the unit was turned off during installation, simply press  and the unit will immediately switch on. To turn the unit off, press  and release.

Control Operation



Control Function Guide

Function	Command	Notes												
ON/OFF	Press and release.	Unit will immediately turn ON or OFF.												
Adjust Light Color	Hold and press and release . Press to scroll through lighting options.	<table> <tr> <th>Option</th><th>Door Open</th><th>Door Closed</th></tr> <tr> <td>00</td><td>White</td><td>White</td></tr> <tr> <td>01</td><td>BrightShield®</td><td>BrightShield®</td></tr> <tr> <td>02</td><td>White (default)</td><td>BrightShield®</td></tr> </table>	Option	Door Open	Door Closed	00	White	White	01	BrightShield®	BrightShield®	02	White (default)	BrightShield®
Option	Door Open	Door Closed												
00	White	White												
01	BrightShield®	BrightShield®												
02	White (default)	BrightShield®												
Enable Sabbath Mode	Press and hold for 5 seconds and release.	The °F / °C symbol will flash briefly after 5 seconds. Interior light and display will go dark and remain so until user resets mode - unit continues to operate.												
Disable Sabbath Mode	Press and release.	Display and interior light return to normal operation.												
Clean Mode	See "Cleaning" section													
Showroom Mode	Hold and for 5 seconds.	The °F / °C symbol will flash. Display will be lit and interior light will function. Unit will not cool. Repeat command to return to normal operation.												

Door Alert Notification

When the door is left open for more than 30 minutes:

- A tone will sound for several seconds every minute
- will appear in display
- Close door to silence alert and reset

BrightShield™



This model includes BrightShield™ with Vyv™ Antimicrobial Light Technology.

BrightShield™

- Kills* and prevents the growth of viruses, bacteria, fungi, yeasts, mold, and mildew
- Provides continuous antimicrobial action to keep surfaces clean
- Is approved for continuous use around people, pets, & plants
- Reduces odors caused by bacteria, fungi, yeasts, mold, and mildew
- Creates a cleaner environment for food, beverages, & ice

* Testing on a non-enveloped virus (MS2 bacteriophage) showed a 97.12% reduction in controlled laboratory testing in 8 hours on hard surfaces. Testing on SARS-CoV-2 (enveloped virus) showed a 98.45% reduction in controlled laboratory testing in 4 hours on hard surfaces. Testing on MRSA E. coli showed 90%+ reduction in controlled laboratory testing in 24 hours on hard surfaces. Results may vary depending on the amount of light that is reaching the surfaces in the space where the product is installed and the length of time of exposure. Use of Vyv™ Antimicrobial Light Technology is not intended to replace manual cleaning and disinfection practices.

BrightShield™ is most effective when used continuously. Your unit is factory-set to use BrightShield™ lighting whenever the door is closed and standard bright white when the door is open. See Control Operations sections for details and other options.

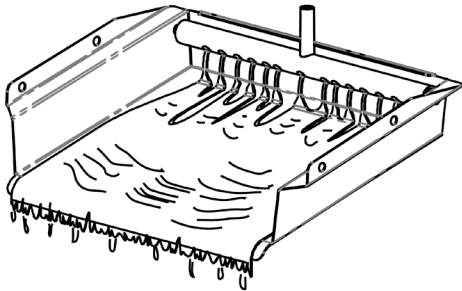
For more information about BrightShield™ visit www.u-line.com.

For more information about Vyv™ Antimicrobial Light Technology visit www.vyv.tech.com

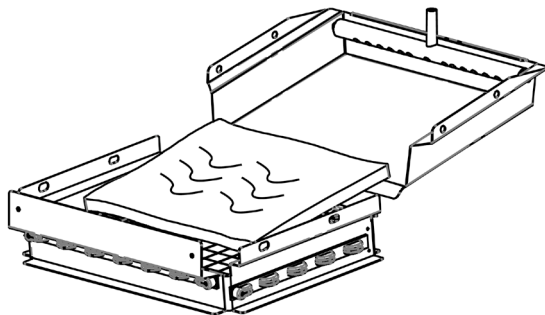
USER GUIDE

ICE

Your ice machine is unique in how it forms ice with fractional freezing to form a slab of ice that is clear and has less dissolved solids than the water from which it is produced. This is accomplished by running water over the cold evaporator plate which gradually freezes the water to produce the ice slab. Pure water freezes first, leaving the dissolved solids in the residual reservoir water.

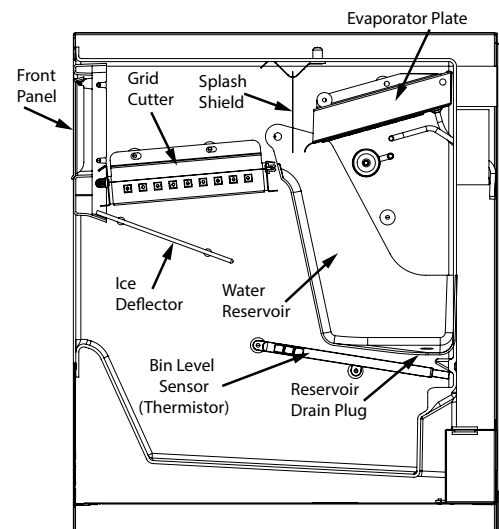
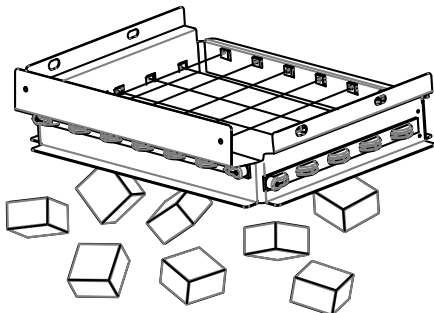


When the ice slab reaches the correct thickness, the ice sheet is released and slides onto the grid cutter. There, the ice slab is cut into cubes by the grid cutter's heated wires. The water containing the dissolved minerals is drained after each freezing cycle. Fresh water enters the machine for the next ice making cycle.



The ice machine will keep producing ice until the ice machine's bin is full, resuming automatically as needed. The ice bin is not refrigerated, and some melting will occur by design to preserve the ice quality and clarity. Allow your ice machine to run for 24-48 hours to accumulate ice.

The bin level sensor is located in the ice bin, it senses when the ice supply is low or full and starts or stops the ice-making process accordingly.



ICE PRODUCTION

In normal mode, the ice machine will produce up to 39 pounds (17.7 kg) of clear ice in a 24-hour period when installed in a 72° F ambient with a 55° F water supply.

Note:

"Initial" ice production and ice accumulated in the storage bin will vary significantly. This is normal. During the first 24-hours of operation the unit will produce up to 39 lbs of ice at the above ambient and water temperatures, but when starting with an empty ice storage bin, ice accumulation may only be 18 lbs. By design, the ice storage bin is maintained at a temperature slightly above freezing to allow the stored ice to slowly melt, to preserve the ice quality and clarity and assure a constant supply of fresh ice. As ice is accumulated in the bin, the ice production rate will over come the ice melt and the storage bin will fill to capacity.

NEW SOUNDS

The ice machine will make sounds that are different than your household refrigerator. The ice production process creates noises such as ice falling onto hard surfaces, water cascading across the evaporator, and valves opening and closing. Below are some of the sounds you may hear:

Buzzing - water valve opens to fill water reservoir.

Rattling - water flowing through water line.

Splashing - water flowing over evaporator plate and into reservoir.

A "Thud" - ice slab sliding down onto the grid cutter.

Clicks - ice cubes falling into the ice storage bin.

Gurgling - refrigerant flowing in the ice machine.

Air - the condenser fan.

Cleaning

Homes with poor water quality or high clear ice usage might require more frequent cleaning.

To clean your ice machine you will need to purchase a "nickel safe" ice maker cleaner.

CAUTION

Use only manufacturer-approved ice machine cleaner and follow all label warnings and directions. Incorrect chemical usage, and any damage that may result, is not covered by warranty.

Order ice machine cleaner online:

www.u-line.com

Part # [80-55667-00](#)

A "CLEAN" reminder will occur every 6 months to remind you that it may be time to clean your appliance. Over time mineral build up on the cold evaporator plate can occur which can adversely affect the quality of your ice. This build-up is dependent on your water source and usage. Normal ice production will continue while the "CLEAN" reminder is displayed. When reset, the "CLEAN" reminder will reset and not occur for another 6 months. If you choose to clean the appliance at this time, see the options menu section below.

Clean mode:

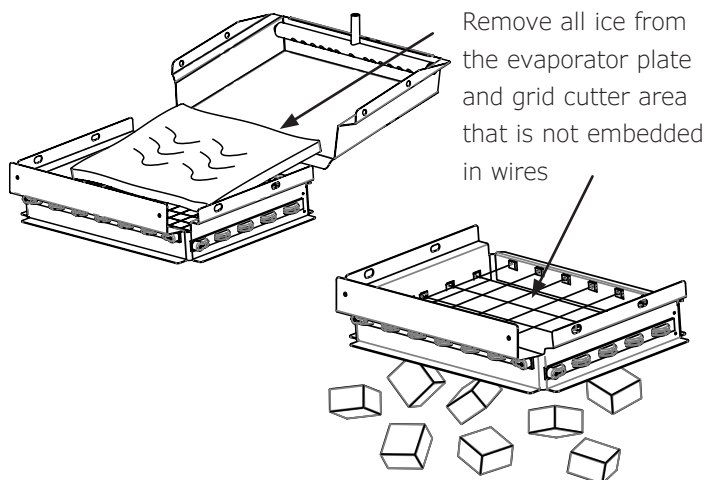
To ensure maximum performance and ice quality, it is recommended to clean your ice machine once every six months. This simple cleaning routine will also ensure water and energy use continues at optimum efficiency.

To Clean Your Ice Machine:

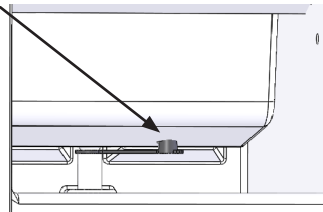
1. Turn the ice machine off by pressing and holding the "ON/OFF" icon for 3 seconds.
2. Remove all ice from the ice maker including from the evaporator and grid cutter.

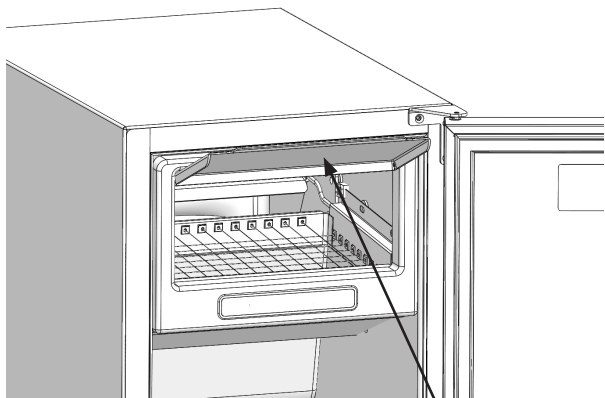
CAUTION

Forcing ice through the grid cutter will break the grid cutter wires.



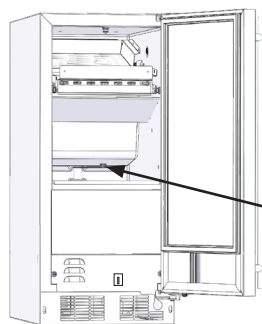
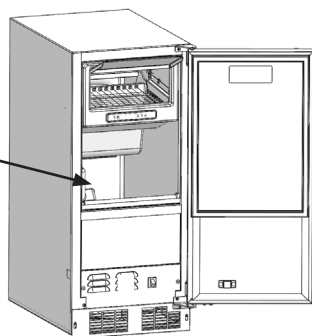
DRAIN PLUG

3. Drain the water from the water reservoir by removing the black plug from the bottom of the fresh water reservoir. 
4. After the water is drained, replace the plug in the bottom of the reservoir.
5. Add cleaning solution to the evaporator plate - refer to your cleaning solution instructions to determine the proper amount of solution to add based on 2 quarts (1.9 liters) of water.
6. Turn the ice machine on
7. On the control, turn on clean mode by holding  for 5 seconds.
8. Your ice maker will fill with water and circulate over the evaporator for two 15-minute cycles then will resume normal production.
9. Remove the first 2-3 new batches of ice from your ice maker before using.

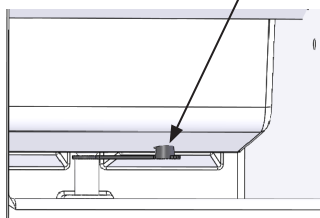


Lift splash shield up to access evaporator plate

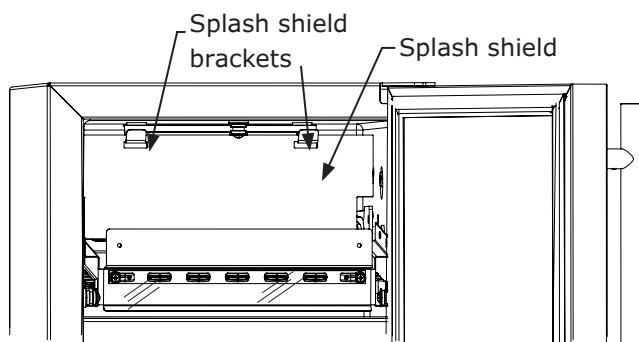
Remove all of the ice from the ice bin



Remove the black reservoir drain plug from the bottom of the reservoir.



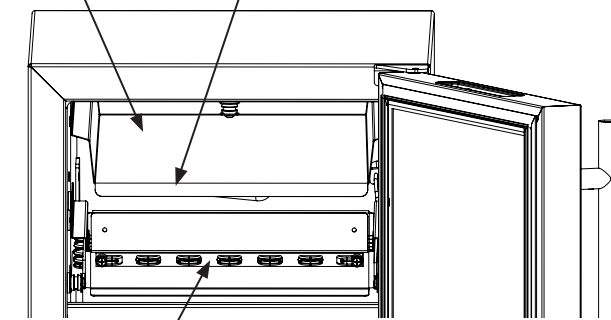
Lift splash shield up to access evaporator plate. Pour the cleaning solution slowly on the evaporator plate so it flows down into the fresh water reservoir.



Replace the splash shield if removed.

After the cleaning cycle is completed, verify that all build-up has been removed. If not, repeat the clean cycle procedure.

Evaporator plate
Pour cleaning solution slowly onto the front edge of evaporator plate behind the grid cutter.



Grid cutter

CABINET

The painted cabinet can be washed with a mild soap and water and thoroughly rinsed with clear water. NEVER use abrasive scouring cleaners.

EXTERIOR

Routine cleaning of the stainless steel surfaces will serve to greatly extend the life of your product by removing contaminants. This is especially important in coastal areas which can expose the stainless to severe contaminants such as halide salts (sodium chloride).

It is strongly recommended to periodically inspect and thoroughly clean crevices, weld points, under gaskets, rivets, bolt heads, and any locations where small amounts of liquid could collect, become stagnant, and concentrate contaminants. Additionally, any mounting hardware that is showing signs of corrosion should be replaced.

INTERIOR

Wash interior compartment with mild soap and water. Do NOT use an abrasive cleaner, solvent, polish cleaner, undiluted detergent or chlorine based cleaners.

Cleaning Condenser

INTERVAL - EVERY SIX MONTHS

To maintain operational efficiency, keep the front grille free of dust and lint, and clean the condenser when necessary. Depending on environmental conditions, more or less frequent cleaning may be necessary.

WARNING

Disconnect electric power to the unit before cleaning the condenser.

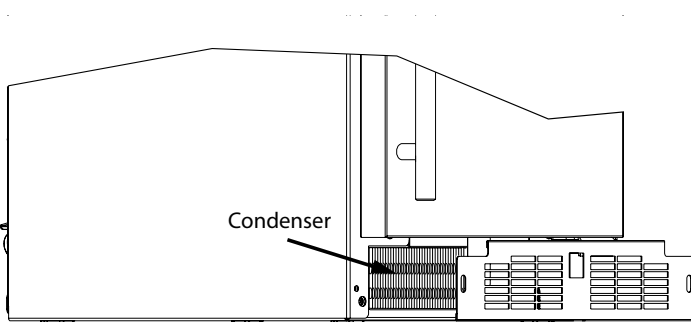
WARNING

DO NOT touch the condenser fins. The condenser fins are SHARP and can be easily damaged.

NOTICE

DO NOT use any type of cleaner on the condenser unit.

1. Remove the grille. (See GRILLE INSTALLATION).
2. Clean the condenser coil using a soft brush with a "combing" action or vacuum cleaner. Do not touch the condenser coil.
3. Install the grille.



Extended Non-Use

If the ice machine is moved, not used for an extended period of time, or will be in an area that will be near freezing temperatures, it is necessary to remove any remaining water in the ice-making system.

CAUTION

This ice machine must have all water drained and removed to prevent ice machine damage as well as possible water damage to the surrounding area in freezing conditions. These damages are not covered under warranty.

CAUTION

Do not use any type of anti-freeze or other solution as a substitution for properly draining the ice machine.

WARNING

Risk of electrical shock or personal injury could occur due to moving components, if machine compartment access cover is removed before unplugging the ice machine.

CLEAN THE ICE MACHINE

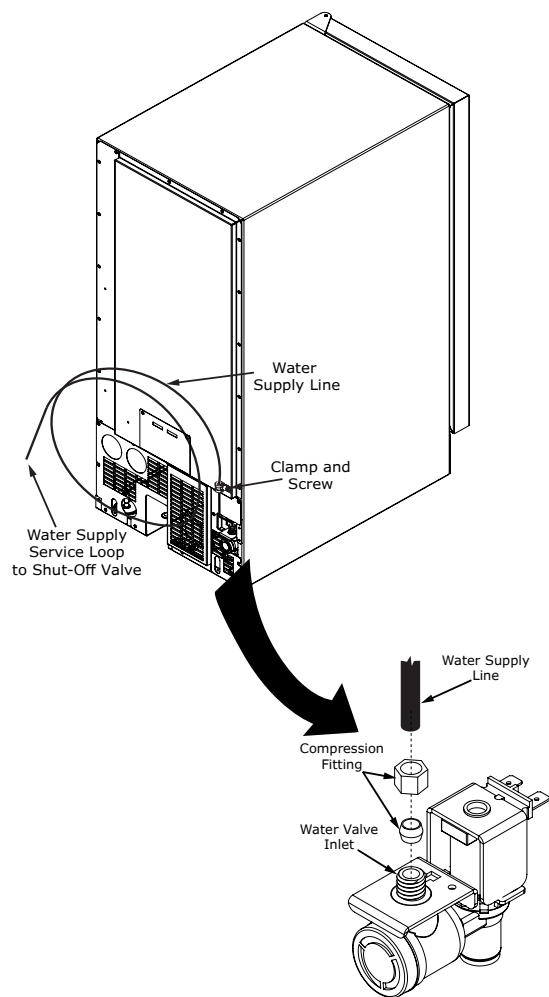
Cleaning the ice machine will help prevent mold and mildew growth as well as sanitize the ice machine for storage or when it is put back into service.
(SEE CLEANING SECTION OF THIS GUIDE)

WINTERIZATION

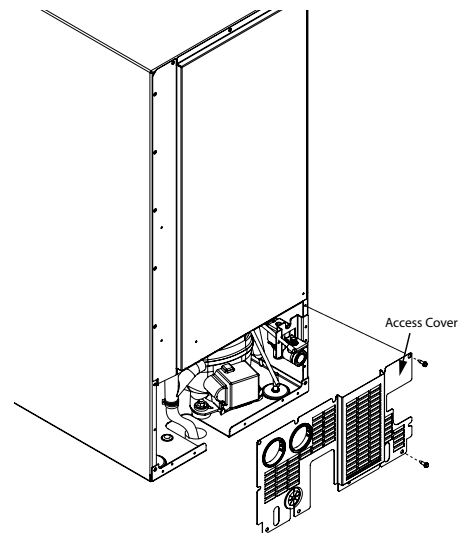
CAUTION

If the unit will be exposed to temperatures of 40°F (5°C) or less, these steps must be followed.
Draining and Removing Water from the Ice-Making System

1. Turn off the water supply to the ice machine.
2. Disconnect the water supply fitting at the inlet of the water valve.
3. Change the electronic control to the "CLEAN" position for approximately one (1) minute. This will energize and open the water valve and remove most of the water from the water valve and the water valve's outlet water line to the reservoir.

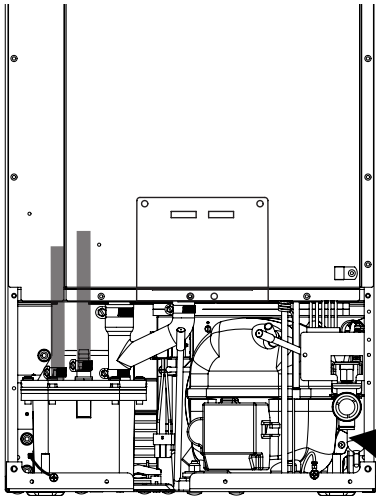


4. Change the electronic control to the "OFF" position. This will energize and open the drain valve to drain the reservoir and the ice machine drain system.
5. Unplug the ice machine from the electrical outlet.
6. Remove the access cover from the rear of the ice machine.



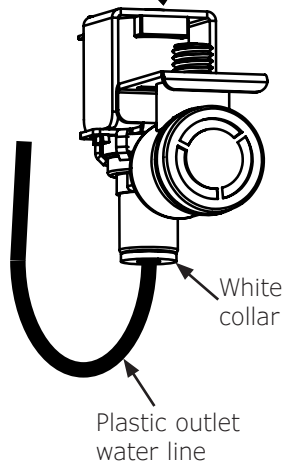
USER GUIDE

7. Disconnect the water valve's outlet water line to the reservoir and drain the remaining water left in the water line trap area.

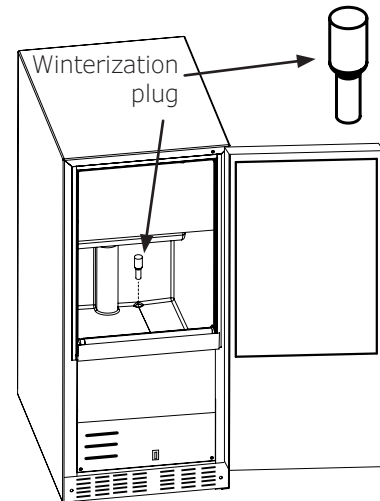


To disconnect the water outlet line: Push up on the white collar and pull the plastic water line from the bottom of the water valve.

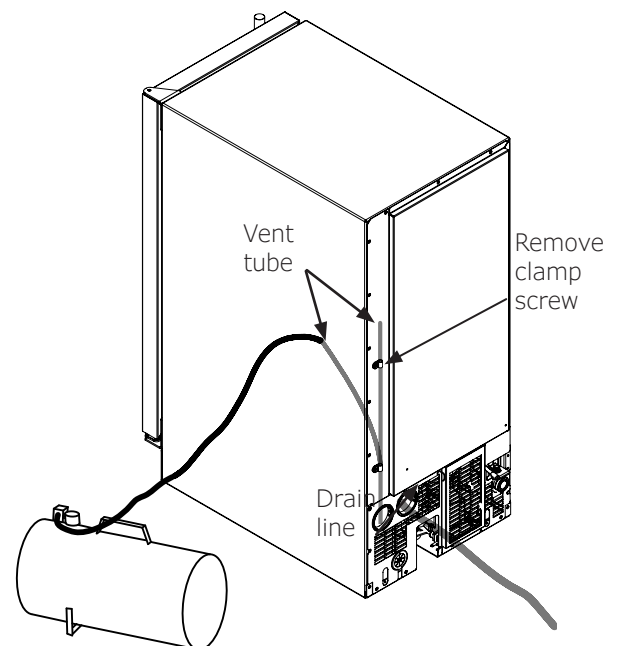
To reconnect the water outlet line: Simply insert the plastic tubing into the white collar and push until it stops (about 1/2", 12 mm, of water line will enter the valve).



8. Reconnect the water valve outlet water line.
9. Reinstall the ice machine's access cover.
10. Clean and dry the ice machine's storage bin.
11. Prop the door open for air circulation to prevent mold and mildew.
12. Leave the water supply line disconnected or reconnect the supply line and leave it shut off. Do NOT turn the water on and allow water to enter back into the water valve.
13. Install the winterization plug in the water drain hole inside the ice bin.

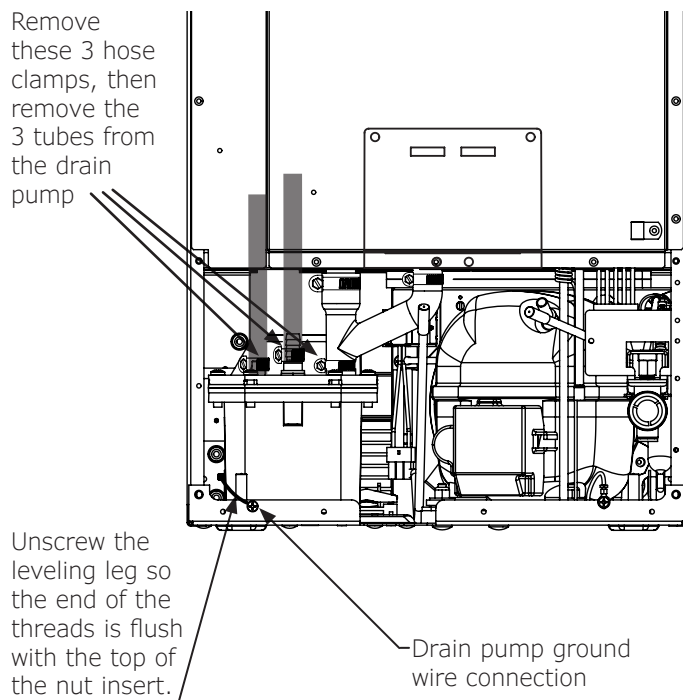


14. Remove the top clamp from the vent tube, for easy access to the air hose.
15. Apply air pressure (approximately 10 psi) to the end of the vent tube which will purge the remainder of the water from the drain pump and the drain line.
16. Reinstall the vent tube and clamp to the back of the ice machine and remove the winterization plug from the ice bin and save it for future use.



Drain Pump Removal

1. Unplug the ice machine from the electrical supply and remove the rear access cover from the ice machine.
2. Remove the front panel and the toe grille from the front of the ice machine.
3. Remove the front and rear drain pump brackets.
4. Unscrew the 3 hose clamps and remove the 3 hoses from the front of the drain pump.
5. Unscrew the leveling leg in the back corner until the end of the threaded portion is flush with the threaded nut insert in the base.



To Restart the Ice Machine

6. Reconnect or turn on the water supply line.
7. Reconnect drain tubing if removed.
8. Plug in the power cord to a wall outlet and turn the ice machine on.
9. Check the water inlet, drain lines, and fittings for any water leaks.
10. Check drain pump (if equipped) operation by pouring approximately two (2) quarts of water into the ice storage bin. The drain pump should activate and discharge water. Check for water leaks at all hose connections.

Troubleshooting

BEFORE CALLING FOR SERVICE



ELECTROCUTION HAZARD

- **Never attempt to repair or perform maintenance on the appliance until the main electrical power has been disconnected. Turning the appliance control "OFF" does not remove electrical power from the unit's wiring.**
- **Replace all parts and panels before operating.**

If the appliance appears to be malfunctioning, read through this manual first. If the problem persists, check the troubleshooting guide below. Locate the problem in the guide and refer to the cause and its remedy before calling for service. The problem may be something very simple that can be solved without a service call. However, it may be required to contact your dealer or a qualified service technician.

ICE MACHINE OPERATION

Ice machine does not operate:

- **Is the ice machine's power cord plugged in?**
Plug the power cord into a grounded 3 prong outlet.

- **Is the electronic control showing the "ICE" position?**

Check the control to be sure it is in the "ICE" position

- **Is a fuse blown or a circuit breaker been tripped?**

Replace a blown fuse or reset a tripped circuit breaker.

- **Is the temperature of the room cooler than it normally is?**

The minimum room temperature is 55°F (13°C). The bin thermistor may be sensing the room temperature and shut off before the bin is full of ice. If the room temperature remains low the ice machine may not restart.

- **Is there a drain pump in the ice machine?**

The drain pump is designed to temporarily shut the unit off when large quantities of water create a high-limit condition. Wait a few minutes as the drain pump will continue to operate to dispose of the excess water. If there is still water in the ice bin check the drain pump vent line and drain line for obstructions or kinking.

The ice machine is noisy:

Many sounds of an ice machine are different than your household refrigerator. This subject is discussed on page 11, but check the following:

- **Do you hear water being circulated in the ice machine?**

This is a normal sound as water is added once every ice making cycle.

- **Is there a "whooshing" sound?**

Make sure water is getting to the ice machine. Also check to make sure the drain plug is fully seated in the water reservoir.

- **Is there an ice slab caught between the evaporator plate and the grid cutter?**

First check to see if the ice machine is level. If the ice machine is level run a cleaning cycle.

ICE PRODUCTION

Little or no ice production from the ice machine:

- **Is the electronic control set to the "ICE" position?**

Check the control to be sure it is in the "ICE" position

- **Is water getting to the ice machine?**

Make sure nothing is restricting the water supply such as a closed water valve or a blown fuse or tripped circuit breaker, or a kinked supply line, or low water pressure.

- **Has the ice machine just been started?**

A typical ice production cycle takes 2-½ to 3 hours. Initial start up cycles can take longer. Check the ice machine after 24 hours for ice accumulation in the bin.

- **Is the reservoir drain plug in place?**

Check that the reservoir drain plug is properly seated.

- **Is the water distributor tube restricted?**

Run a cleaning cycle to clean the ice machine. Also check any filters to make sure they are not restricted.

- **Is the condenser fan air flow restricted?**

Make sure the grille in the front of the ice machine is open for proper air circulation.

- **Is the room and/or water temperature too warm?**

Move the ice machine to an area where the ambient temperature is below 90°F (32°C) for built-in ice machines or below 100°F (38°C) for freestanding ice machines. The ice machine should not be placed next to a heat source such as an oven. Check the cold water connection.

- **Is there scale build up in the ice machine?**

If there is scale build up on the evaporator, the ice machine needs to be cleaned. See "Cleaning the Ice machine".

ICE QUALITY

Odor, grey color, or off taste in the ice:

- Is there mineral scale build up on the evaporator plate?

The ice machine needs cleaning. See "Cleaning the Ice Machine".

- Is there a high mineral content in the water?

The water may need to be filtered.

- Are food items being stored in the ice bin?

Remove food from the ice bin.

- Unpleasant Odors may require the use of a charcoal filter on the water supply line.

Clumps of ice:

- Are there clumps of ice in the bin?

If the ice isn't used on a regular basis it will melt and form into clumps. Break up the ice clumps with the ice scoop.

Ice cubes are too big or too small:

- Is there low ice consumption?

Ice is slowly melting in the ice bin which will affect the size of the cubes. This is normal. When the ice bin needs to be replenished, cubes will return to the regular size.

- Is the ice slab releasing?

Clean the evaporator. See "Cleaning the Ice Machine".

- Is the distributor tube restricted?

Check the water line to the ice machine to make sure there are no restrictions or kinks in the line. Check all filters to make sure they are not restricted. Check that the water flows evenly out of the distributor tube, if not, clean the ice machine. See "Cleaning the Ice Machine".

PLUMBING PROBLEMS

- Is the drain hose aligned over the drain?

Move the ice machine to align the drain.

- Is the ice machine draining properly?

Check that there are no kinks or restrictions in the drain lines; this can cause water to back up in the ice bin.

Check that foreign material is not blocking the ice bin drain located at the right rear corner of the ice bin. Check the drain pump discharge and vent line or any restrictions or kinks. Check that the drain pump is level.

NOTE:

If there are plumbing issues outside of the ice machine, they cannot be repaired by the service technician. A qualified plumber will have to be called.

TROUBLESHOOTING THE DRAIN PUMP

NOTE:

If the drain pump reservoir (not the ice machine bin) reaches overfill condition, the power to the ice machine will be shut off.

If the ice machine is not working, check the following:

- Make sure there is power at the receptacle.
- Make sure the ice machine is turned on.
- Make sure the ice bin is not full.

Then check the drain pump:

The pump does not run:

- Make sure the pump is plugged in and there is power to the receptacle.
- Check the inlet to the drain pump for debris and clean as needed. Remove clamps and inlet tube from drain pump to check for and remove debris.
- Make certain the vent line is free of kinks/sharp bends or restrictions.
- Make certain there is enough water to activate the drain pump. It will take at least one (1) quart (.95 liters) of water to activate the drain pump.

The pump runs, but no water is pumped out:

- Check that the vent is clear and free of restrictions.
- Check the discharge line to make certain there are no restrictions.
- Make sure that the discharge tubing has not exceeded the maximum lift of eight (8) feet (2.44 meters) and the horizontal run is not greater than twenty (20) feet (6.1 meters).

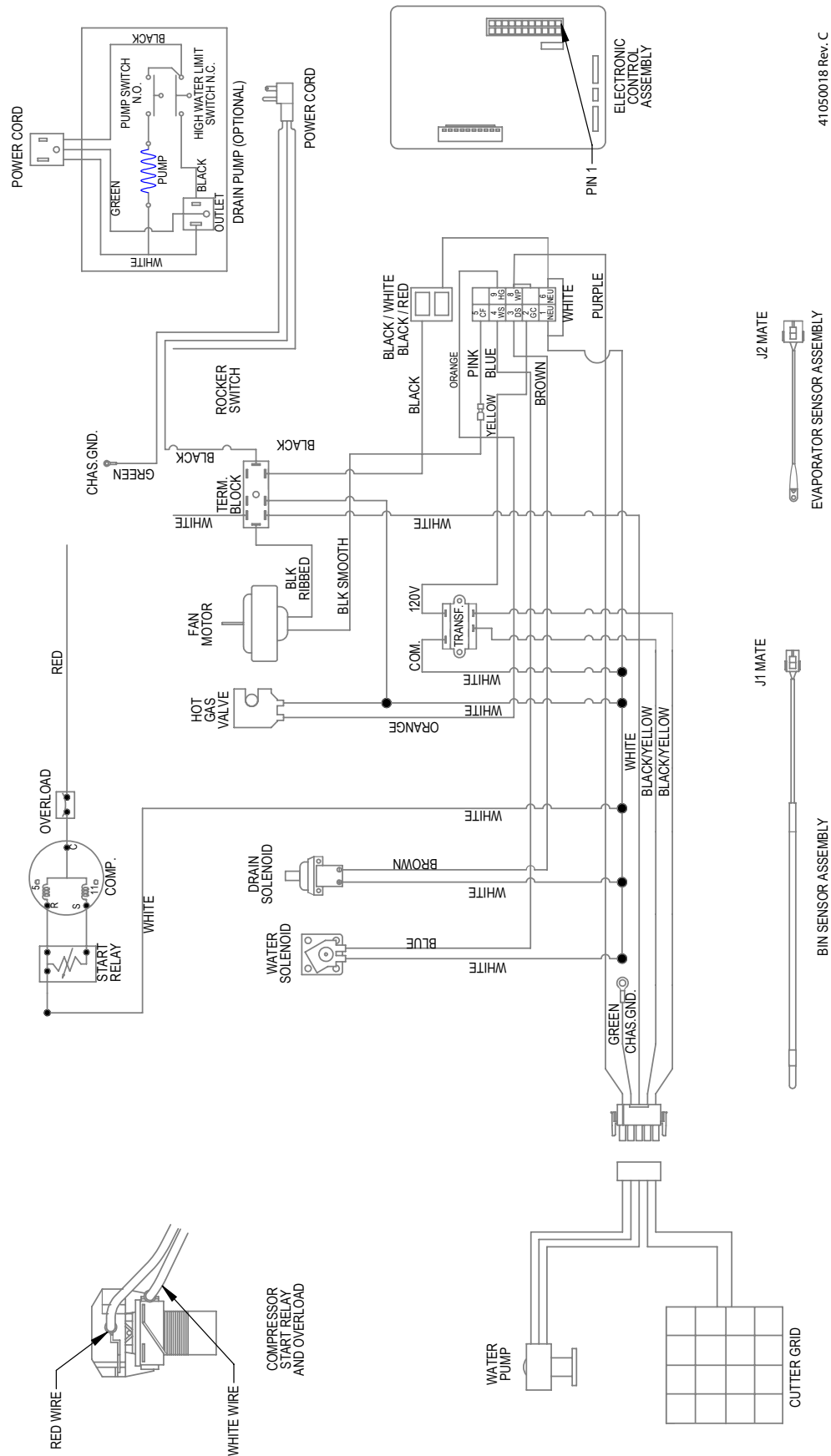
The pump runs and then quickly turns off repeatedly:

- Check to make certain the drain pump is level.
- Check that the vent is clear and free of restrictions.

The ice machine is running but not producing ice:

- Check to make sure water is not backing up in the ice bin.

Wire Diagram



41050018 Rev. C

Product Liability

Field service technicians are authorized to make an initial assessment in the event of reported damages. If there are any questions about the process involved, the technician should call the manufacturer for further explanation.

While inspecting for defects or installation issues, photos should be taken to document any damages or issues found.

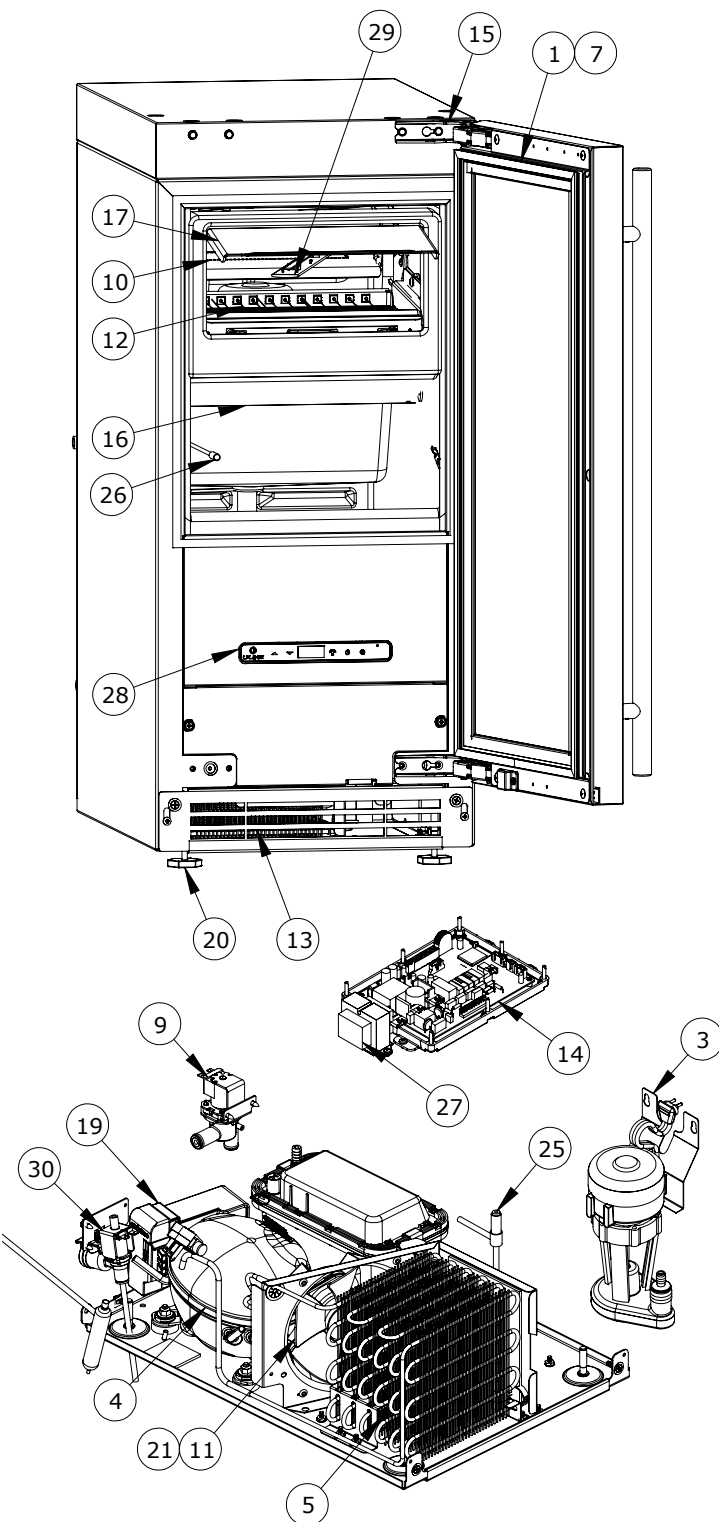
During the assessment, if the service technician is able to find the source of the damage and it can be resolved by replacement of a part, the servicer is authorized to replace the part in question. The part that caused the damage must be returned to the manufacturer in its entirety. The part must be clearly labeled with the serial number of the unit it was removed from, the date, and the servicer who removed the part.

If the service technician determines the damage is the result of installation issues (water connection/drain, etc.), the consumer would be notified and the issues shall be resolved at the direction of the consumer.

If damage is evident and the service technician is unable to find the source, the manufacturer must be contacted at +1.616.754.5601 for further direction.

1260 Van Deinse St. Greenville, MI
T: +1.616.754.5601
Website: vikingrange.com/commercial

Parts



URCC115-SS81A		
Item	Description	U-Line P/N
1	BLACK GASKET	90-54155-01
2	BRAIDED HOSE DRAIN KIT *	90-54129-00
3	CIRCULATION PUMP	90-54161-00
4	COMPRESSOR ASSEMBLY 15" CL	90-54006-00
5	CONDENSER-TUBE & WIRE 15CL	90-54147-00
6	CONDENSOR SENSOR *	90-54013-00
7	DOOR ASSY-CRAFT ICE-VIKING	90-54141-00
8	DRAIN PUMP REPLACEMENT KIT *	90-54163-00
9	DRAIN VALVE	90-54162-00
10	EVAPORATOR ASSY, CRAFT ICE	90-54140-00
11	FAN BLADE REF# 586C1255CPI	90-54152-00
12	GRID-CUTTER ASSY-CRAFT ICE	90-54142-00
13	GRILL ASSY, CRAFT ICE, SS RES	90-54155-03
14	H&T MAIN HF OD ICE	90-54002-54
15	HINGE ASSEMBLY	90-54040-00
16	ICE DEFLECTOR	90-54113-00
17	ICE MACHINE ACCESS DOOR-BLK	90-54004-00
18	ICE MACHINE CLEANER *	90-54164-00
19	INVERTER-COMPRESSOR	90-54063-00
20	LEG LEVELERS	90-54158-00
21	MOTOR-COND FAN-PANASONIC	90-54151-00
22	POWER CORD *	90-54159-00
23	PUMP NIPPLE KIT *	90-54082-00
24	REED SWITCH **	90-54155-02
25	S/A-HOT GAS VALVE	90-54153-00
26	THERMISTOR ASSEMBLY	90-54150-00
27	TRANSFORMER, GC, 15CL	90-54157-00
28	U/I DISPLY KIT-OEM	90-54005-00
29	VYV LIGHT STRIP	90-54085-00
30	WATER VALVE	90-54160-00

** REED SWITCH LOCATED BEHIND DISPLAY
* NOT PICTURED

R-600A Specifications

For R-600a refrigerant service tips and more videos, go to: www.u-line.com/videos.



Flammability warnings for a pure-iso-butane refrigerant.



Gloves and Eye Protection must be used.



R-600a is considered non-toxic, but is flammable when mixed with air.

Keep a dry powder type fire extinguisher in the work area.



R-600a is heavier than air, do not allow any leakage/migration to low areas such as basements and stairs.

Never use a torch on a fully charged refrigeration system.

Never substitute U-Line OEM replacement parts or methods of construction.

R-600a must be stored and transported in approved containers.

WARNING

Only skilled and well trained service technicians permitted to service R-600a equipped products.

All tools and equipment must be approved for use with R-600a refrigerant.

Local, state and federal laws, standards must be observed along with proper certification and licensing.

Ventilation is required during servicing.

No conversions to R-600a from any other refrigerants. OEM R-600a equipped unit only.

Service area must be free of ignition sources.

No smoking is allowed in the service area.

All replacement electrical components must be OEM and installed properly (sealed and covered).

If the evaporator is cold prior to service, it must be thawed prior to service.

When using a vacuum pump, start pump before opening refrigeration system.

Vacuum pump and recovery equipment should be at least 10 feet from the work area.

It is recommended that a simple LPG gas detector is on site during service.

Ensure that all R-600a is removed from the system prior to brazing any part of the sealed system.

Only a clean, dry leak free system should be charged with R-600a.

R-600A SPECIFICATIONS/LABELING

R-600a equipped products are labeled (both the unit and the compressor).

R-600a is colorless and odorless.

R-600a is considered non-toxic, but is flammable when mixed with air.

Do not remove or alter any R-600a labeling on the product.

Use only a refrigerant grade R-600a from a properly labeled container.

RECOVERING/RECLAIMING R-600A

(R-600a has been exempted from recovery/reclaiming requirements by the US EPA)

Recovery/Reclaiming equipment must be approved for use with R-600a.

Ensure the evaporator is at room temperature prior to recovery/reclaiming R-600a.

Use a common piercing pliers or piercing valve to remove R-600a from the compressor process tube. (Note: Piercing devices must not be left on the system and must be replaced with a Schrader type valve.)

USER GUIDE

Evacuate/reclaim via the piecing pliers to ensure the system is empty of R-600a before any system work is performed.



The recovery cylinder must be evacuated (no air inside) prior to accepting R-600a.

The recovery cylinder must not be filled more than 45% safe fill level and refrigerants must not be mixed.

The recovery cylinder must be clearly marked with R-600a and Flammable Warning labels.

Ensure proper ventilation during recovery/reclaiming of R-600a.

Start vacuum pump/recovery pump prior to piercing the compressor process tube.

Follow recovery/reclaim OEM instructions for the specific equipment used.

SYSTEM REPAIR

Ensure no residual R-600a refrigerant is left within the system prior to repair (simple venting is not sufficient).

Evacuate and charge with dry nitrogen for leak checks.

Repair leaks or replace system parts as required.

When re-brazing, the system must be purged with dry nitrogen and at least one access point open to the atmosphere.

When re-brazing, proper ventilation is required along with constant monitoring for the presence of R600a refrigerant.

The filter dryer must be replaced any time the sealed system is serviced.

No system should be open to the atmosphere for longer than 15 minutes to avoid moisture migration into the system components.

LEAK DETECTION

After removal of the R-600a, the unit can be charged with dry nitrogen or helium.

Electronic leak detection or soap solution can be used to check for nitrogen/helium leaks.



Never use a halide torch or lighted match to check the system for leaks at any time.

The high side of the refrigeration system (compressor discharge to outlet of drier) must be leak tested with the compressor running.

USER GUIDE

The low side of the refrigeration system (evaporator, compressor and suction line) must be leak tested with the compressor off (equalized pressure).

RECHARGING

No air is ever to be allowed inside the refrigeration system (R-600a refrigerant or dry nitrogen only).

Never use a torch on a fully charged refrigeration system.

Install a Schrader Type access port on the compressor process stub.



Evacuate the system to 100 microns prior to charging.

Weigh in the R-600a charge using a refrigerant scale. (run compressor an extra two minutes to clear the charging hoses).

Seal the Schrader Type access port, a proper cap and seal must be used to close the system.



SUMMARY

Safely handling R-600a requires proper procedures and training.

R-600a approved service tools must be used.

R-600a labeling must not be removed or altered.

Proper ventilation during service is required.

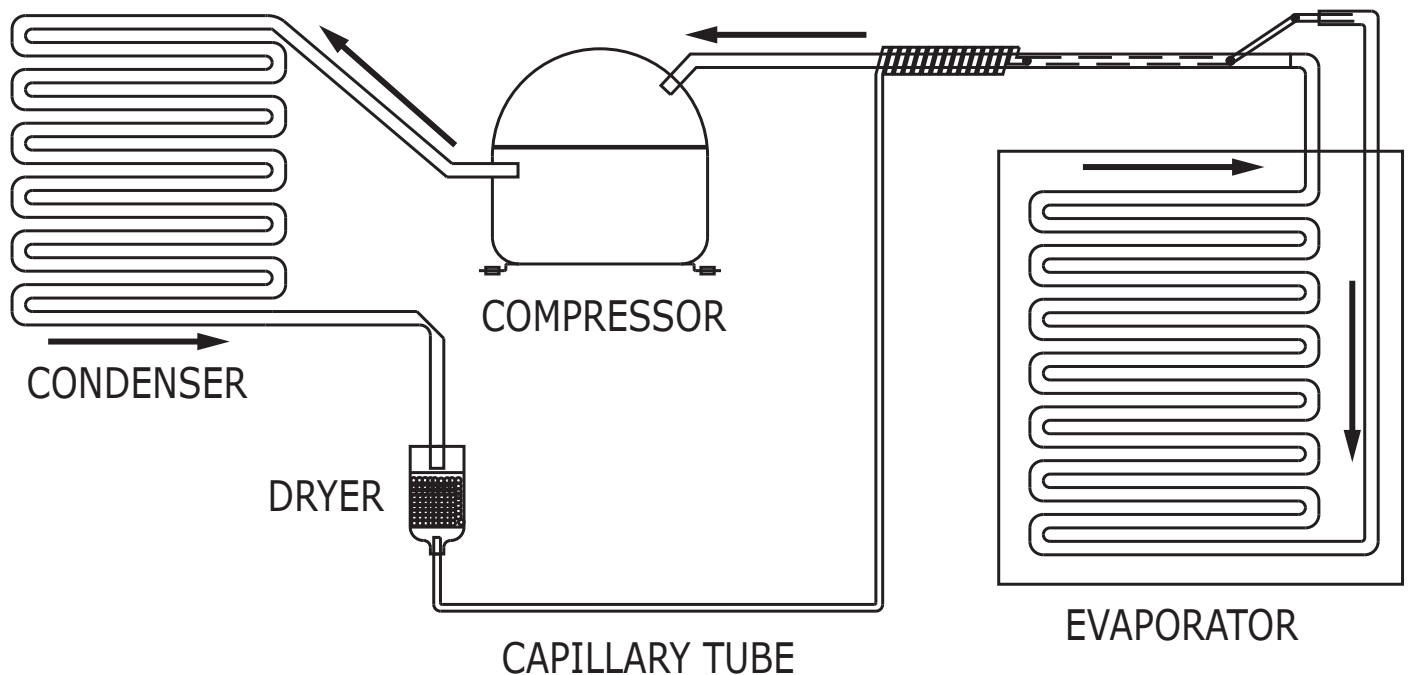
Never apply a torch to a charged R-600a refrigeration system.

Use OEM replacement service parts and do not alter the construction of the unit.

System Diagnosis Guide

REGRIGERATION SYSTEM DIAGNOSIS GUIDE

System Condition	Suction Pressure	Suction Line	Compressor Discharge	Condenser	Capillary Tube	Evaporator	Wattage
Normal	Normal	Slightly below room temperature	Very hot	Very hot	Warm	Cold	Normal
Overcharge	Higher than normal	Very cold may frost heavily	Slightly warm to hot	Hot to warm	Cool	Cold	Higher than normal
Undercharge	Lower than normal	Warm-near room temperature	Hot	Warm	Warm	Extremely cold near inlet - Outlet below room temperature	Lower than normal
Partial Restriction	Somewhat lower than normal vacuum	Warm-near room temperature	Very hot	Top passes warm - Lower passes cool (near room temperature) due to liquid	Room temperature (cool) or colder	Extremely cold near inlet - Outlet below room temperature backing up	Lower than normal
Complete Restriction	In deep vacuum	Room temperature (cool)	Room temperature (cool)	Room temperature (cool)	Room temperature (cool)	No refrigeration	Lower than normal
No Gas	0 PSIG to 25"	Room temperature (cool)	Cool to hot	Room temperature (cool)	Room temperature (cool)	No refrigeration	Lower than normal



Compressor Specifications



**Electrocution can cause death or serious injury.
Burns from hot or cold surfaces can cause serious injury. Take precautions when servicing this unit.**

Disconnect the power source.

Do not stand in standing water when working around electrical appliances.

Make sure the surfaces you touch are not hot or frozen.

Do not touch a bare circuit board unless you are wearing an anti-static wrist strap that is grounded to an electrical ground or grounded water pipe.

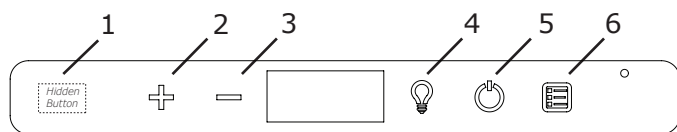
Handle circuit boards carefully and avoid touching components.

	FMXA9C
REFRIGERANT	R600A
VOLTAGE	115 VAC
FREQUENCY	60 Hz
START WINDING	5 Ohm at 77° F
RUN WINDING	7 Ohm at 77° F
RUN TO START	12 Ohm at 77° F
LRA	8.0 A
FLA	2.18 A
STARTING DEVICE	Run Cap 12VF 250V P2

*All resistance readings are $\pm 10\%$

Control Operation-Service

UI BUTTON LAYOUT



1. Hidden Button

- Access Service Menu
- No LED directly above. All LED's turn on with button

2. Up Button

- Increases temperature
- Navigates through service menu

3. Down Button

- Decreases temperature
- Navigates through service menu

4. Light Button

- Activates light for 3 hours on select models
- Used to select items in service menu

5. Power Button

- Turns unit on/off

6. Clean Button

- Activates Clean Cycle

CONTROL FUNCTION GUIDE

FUNCTION	COMMAND	DISPLAY/OPTIONS
ON/OFF	Press and release	Unit will immediately turn ON or OFF
Clean Mode	See "Cleaning" section	
Sabbath Mode	See "Sabbath Mode" section	

Showroom Mode

This mode is designed to show units in a display environment. When in this mode the only functions will be the control and cabinet lights. The compressor, fans, etc. will not operate. To enter/exit this mode hold the light key and the power key for 5 seconds. The display will flash once and beep and the degree symbol will begin to flash. When the degree symbol is flashing the unit will allow the use of the control for demonstrations. The unit can be left in this mode indefinitely.

Service Mode

This mode has options available for service diagnostics. To enter the mode hold the hidden key for 10 seconds. The display will show "O." When in this mode use the up and down arrows to select the desired option. The LIGHT key is the ENTER key and will initiate the function. If changing a setting, you must press the LIGHT key again to retain the changed setting. To exit the service mode scroll to option "O" and press the LIGHT key. After five minutes of not touching any keys the mode will also exit automatically.

SERVICE MODE GUIDE

(For adjustments, see Service Mode Guide)

0. Exit
1. Thermistor 1 temperature not including offsets.
2. Thermistor 2 temperature not including offsets.
3. Thermistor 3 temperature not including offsets.
4. Thermistor 4 temperature not including offsets.
5. Thermistor 1 offset. (+/- 10)
6. Thermistor 2 offset. (+/- 10)
7. Thermistor 3 offset. (+/- 10)
8. Thermistor 4 offset. (+/- 10)
9. Thermistor 2 set point
10. Thermistor 3 set point.
11. Thermistor 4 set point.
12. Defrost Interval (0 to 99 hr)
13. Defrost duration (0 to 99 min)
14. Error Log (See Appendix)
15. Clear error log (hold light key until cleared)
16. Thermistor 1 differential (+5)
17. Thermistor 3 differential (+5)
18. Evaporator fan on delay (0 to 99 sec)
19. Evaporator fan off delay (0 to 99 sec)
20. Individual component toggle
 - Option #0 - Exit
 - Option #1 - Relay 1
 - Option #2 - Relay 2
 - Option #3 - Relay 3
 - Option #4 - Relay 4
 - Option #5 - Relay 5
 - Option #6 - Relay 6
 - Option #7 - DC Output 1
 - Option #8 - DC Output 2
 - Option #9 - DC Output 3
 - Option #10 - DC Output 4
 - Option #11 - DC Output 5
 - Option #12 - Serial output (Compressor)
21. Model number
22. Light All Segments
23. Activate Defrost/Harvest- press and hold for 3 seconds to activate defrost/harvest
24. Defaults- press and hold for 3 seconds to restore all values to factory defaults.
25. Main Software (Display only)
26. Live Log Period (frequency that data is output to diagnostics port)
27. Factory test mode (0=Off, 1=On)
28. Compressor RPM
29. Freeze time adjust (Model 54 only)
30. Harvest time adjust (Model 54 only)
31. Low temp alarm limit (Model 55 only)
32. High temp alarm limit (Model 55 only)

APPENDIX

SERVICE MODE GUIDE

1. **THERMISTOR 1**

This shows the pure thermistor reading with no offsets taken into account.
2. **THERMISTOR 2**

This shows the pure thermistor reading with no offsets taken into account.
3. Does not apply to this model.
4. Does not apply to this model.
5. **THERMISTOR 1 OFFSET**

(DO NOT MAKE AN ADJUSTMENT TO THIS WITHOUT CONTACTING TECH LINE: +1 414.354.0300)

This calibration is only to be used if actual temperature at thermistor #1 is off from set point.

By adjusting the offset higher we can force the unit to drive the temperature down below the set point. (example: adjusting from 0 to +2 will drop the unit temperature 2 degrees)
6. **THERMISTOR 2 OFFSET**

(DO NOT MAKE AN ADJUSTMENT TO THIS WITHOUT CONTACTING TECH LINE: +1 414.354.0300)
7. Does not apply to this model.
8. Does not apply to this model.
9. Does not apply to this model.

This shows the thermistor reading with offsets taken into account.
10. Does not apply to this model.
11. Does not apply to this model.
12. Does not apply to this model.
13. Does not apply to this model.
14. **VIEW ERROR LOG**

A list of errors in the order they occurred will scroll on the display. All errors are logged in memory. Only door error is displayed on the display and has an audible signal.

E0: Door 1 open.

E1: Thermistor 1 open.

E2: Thermistor 2 open.

E3: Does not apply to this model.

E4: Does not apply to this model.

E5: Thermistor 1 shorted.

E6: Thermistor 2 shorted.

E7: Does not apply to this model.

E8: Does not apply to this model.

E9: Door open.

E10: Door 2 open.

USER GUIDE

E11 - E13 Do not apply to this model.

P1: Pump Circuit open (Only if unit has drain pump.)

15: CLEAR ERROR LOG

To clear errors, press and hold (5 seconds) when CLR is flashing.

16: THERMISTOR - 1 DIFFERENTIAL

This number should not be adjusted.

17. Does not apply to this model.

18. **THIS NUMBER SHOULD NOT BE ADJUSTED**

19. **THIS NUMBER SHOULD NOT BE ADJUSTED**

20. **INDIVIDUAL COMPONENT TOGGLE**
SEE RELAY / OUTPUT CHART

21. MODEL NUMBER INDICATOR

Displays the two-digit model number of the specific unit. See Model list table.

22. LIGHT ALL LED SEGMENTS

This will illuminate all the LEDs on the display to ensure they work properly

23. ACTIVATE DEFROST /HARVEST

-Press and hold for 3 seconds to activate

24. FACTORY DEFAULTS

-Press and hold for 3 seconds to restore all values to factory defaults

25. MAIN SOFTWARE

26. Does not apply to this model

27. FACTORY TEST MODEL - DO NOT USE

28. COMPRESSOR RPM

29. - 32. Do not apply to this model.

PROGRAM MODEL NUMBER

Model #	
84	VCCC115-SS81A- CRAFT ICE

PROGRAMMING THE UNIT TO CORRECT MODEL NUMBER

1. Disconnect the unit from power source.
2. Push and hold the U-Line button. 
3. While still holding the U-Line button, plug the unit into the appropriate power source.
4. When the flashing digits appear (3-5 seconds), use the up and down arrow buttons to select the appropriate model number from the chart below. or
5. Press the light bulb button once. 
6. The display will blink, and then will appear as the programmed display.

Display #	Relay / Output
Option #0	Exit
Option #1	Relay 1
Option #2	Relay 2
Option #3	Relay 3
Option #4	Relay 4
Option #5	Relay 5
Option #6	Relay 6
Option #7	DC Output 1
Option #8	DC Output 2
Option #9	DC Output 3
Option #10	DC Output 4
Option #11	DC Output 5
Option #12	Serial output (Compressor)

Relay / Output Chart

Relay 1	Compressor
Relay 2	-
Relay 3	Circulation Pump
Relay 4	Water Inlet
Relay 5	Hot Gas Valve
Relay 6	Cond Fan
DC1	Light 1
DC2	Light 2
DC3	-
DC4	-
DC5	Cond Fan

Thermistor

Thermistors are used for various temperature readings. Thermistors provide reliable temperature readings using a resistance which varies based on surrounding temperatures. If a faulty thermistor is suspected, it may be tested using an accurate ohmmeter.

Thermistor connections must be kept clean. A thermistor connection that has become corroded can cause resistance values from the thermistor to change as they pass through a dirty connection to the board.

It is for that reason that we apply dielectric grease to all of our thermistor connections. Dielectric grease will help to keep thermistor connections clean and dry.

If you change a thermistor in the unit, please re-apply dielectric grease to the connection. If you encounter a dirty thermistor connection, you should replace the thermistor and the thermistor harness.

This unit has one thermistor located along the right hand sidewall of the ice bin. It is used to maintain the ice level in the bin.

Thermistor Resistance Data

Temp (F)	Temp (C)	Nominal Resistance (OHMS)*
-40	-40	169157
-31	-35	121795
-22	-30	88766
-13	-25	65333
-4	-20	48614
5	-15	36503
14	-10	27681
23	-5	2116
32	0	16330
41	5	12696
50	10	9951
59	15	7855
68	20	6246
77	25	5000
86	30	4029
95	35	3266
104	40	2665
113	45	2186
122	50	1803
131	55	1495
140	60	1247
149	65	1044
158	70	879
167	75	743
176	80	631

* (+/- 5%)

CLEANING AND MAINTENANCE

- **Clean the Condenser Every Six Months**

CAUTION

Failure to keep the condenser clean can result in permanent damage to the compressor.

The condenser coil is located near the compressor and usually at the bottom of the machine. In order for the condenser to perform efficiently, it must be cleaned about every six months to remove dust and debris and prevent overheating.

- **Deep Clean the Ice Machine Every Six Months**

CAUTION

Neglecting this cleaning will lead to mold or mildew buildup, cloudy ice, reduced water flow, reduced ice production, and damage to the machine.

CAUTION

Use only manufacturer-approved, nickel-safe ice machine cleaner and follow all label warnings and directions. Order ice machine cleaner online: www.u-line.com.

Every six months the ice machine requires a thorough cleaning to remove debris from the bin and flush out impurities that accumulates from the water supply; clear, craft, and nugget machines are equipped with a built-in cleaning cycle.

CAUTION

- **Clean Stainless Steel Surfaces**

Your machine is built with quality stainless steel, but it can still rust when not properly maintained.

- Avoid exposure to outdoor elements such as rain, snow, sprinklers or pool splash.
- Use only a non-chlorine, non-abrasive stainless steel cleaner.
- Inspect the machine for any signs of rust. When spotted early, the rust is only on the surface and can usually be scrubbed off.

SAFE INSTALLATION AND MAINTENANCE

- **Outdoor Operation**

CAUTION

Only machines designed for outdoor use may be operated outdoors.

- The machine should be installed under cover, to avoid exposure to rain, snow, and direct sun.
- The machine should not be exposed to chlorinated water such as from pool or hot tub splash.
- Do not operate in temperatures below 45°F (7°C) or above 100°F (38°C).

- **Indoor Operation**

- Install where the machine will not be exposed to direct sunlight - especially if the appliance has a glass door.
- Do not install the machine where it will be exposed to chlorinated water such as from an indoor pool or hot tub splash.
- Do not operate in temperatures below 50°F (10°C) or above 100°F (38°C).

- **Location and Ventilation**

- Do not block the grille on the front base of the machine; proper airflow is essential to cooling.
- Do not operate the appliance inside a cabinet; it has been designed to operate under a counter or free-standing (certain models only).

- **Proper Sealing - Beverage Dispensers**

- If not sealed properly, excessive condensation, limited cooling, and damage to the machine will occur. When correctly installed, the insulation should extend from within the refrigerator, through the counter, and into the tap tower.

ELECTRICAL AND DRAINAGE REQUIREMENTS

- **Operate With a Safe Electrical Connection**

CAUTION

Only operate the appliance on a dedicated circuit to avoid power fluctuations and overloads.

- Do not use an extension cord. Only the supplied power cord directly connected to an outlet ensures that the machine will safely receive adequate power. Extension cords can become unplugged accidentally, overheat, or become damaged. Improper electrical connection will void the warranty.

- **Operate With Proper Drainage**

If your appliance requires a drain hookup consult a plumber for proper installation. Improper drainage can cause damage to the machine as well as its surroundings. Improper drainage will void the warranty.



Middleby Refrigeration Limited Warranty

THREE YEAR LIMITED PARTS & LABOR WARRANTY – Viking Commercial and U-Line Commercial

For three years from the date of shipment from the factory this warranty covers all parts and labor to repair or replace any part of the referenced Middleby Refrigeration product (the “Equipment”) that under normal use proves to be defective in materials or workmanship. This warranty is conditioned upon you promptly notifying Middleby Refrigeration of any claims, and providing Middleby Refrigeration with all data and information requested by Middleby Refrigeration or its service agents in connection with such claims as well as all necessary access to your premises and the Equipment. All service provided by Middleby Refrigeration under the above warranty must be performed by a Middleby Refrigeration factory authorized servicer and dispatched from the factory, unless otherwise specified by Middleby Refrigeration. Warranty labor is provided at straight time only.

LIMITED FIVE YEAR SEALED SYSTEM PARTS WARRANTY – Viking Commercial and U-Line Commercial

For five years from the date of original purchase, Middleby Refrigeration will cover the following parts only(no labor) if they prove to be defective under normal commercial use: compressor.

WARRANTY TERMS

These warranties apply only to Equipment installed in any one of the fifty states of the United States, the District of Columbia, or the ten provinces of Canada. The Equipment must be installed, operated, and maintained in accordance with Middleby Refrigeration Brand User, Installation and Service Guides, copies of which were provided to you with the Equipment or otherwise will be furnished to you upon request. Further, this warranty applies only to Equipment shipped from the Middleby Refrigeration facility after July 1, 2025 and purchased from an authorized dealer.

Except as provided in the Limited Warranty above, the Equipment is provided “as-is”. Middleby Refrigeration disclaims all other warranties, express, statutory or implied, including without limitation, the implied warranties of title, non-infringement, merchantability and fitness for a particular purpose. Middleby Refrigeration does not warrant that the Equipment will meet your specifications or needs. You acknowledge that you are solely responsible for the selection of the Equipment and determining the suitability of the Equipment for your needs. The warranties only apply to the original purchaser and are non-transferable. Service must be dispatched from Middleby Refrigeration to be eligible for warranty coverage. The warranties apply to units operated outside only if designed for outdoor use by model and serial number. Replacement water filters, light bulbs, and other consumable parts are not covered by these warranties. In-home/business instruction on how to use your product is not covered by these warranties. Food, beverage, and medicine loss are not covered by these warranties. Use of non OEM parts will void this warranty.

If the Equipment is located in an area where Middleby Refrigeration factory authorized service is not available, you may be responsible for a trip charge or you may be required to bring the Equipment to a Middleby Refrigeration factory authorized service location at your own cost and expense.

Units purchased after use as floor displays, and/or certified reconditioned units, are covered by the limited one year warranty only and no coverage is provided for cosmetic defects.

To maintain warranty coverage, all preventative maintenance procedures outlined in the Use and Care Manual must be followed.

Signal issues related to Wi-Fi connectivity are not covered by these warranties.

Equipment that is not installed, operated and maintained in accordance with Middleby Refrigeration’s Use and Care Manual or other written materials provided to you by Middleby Refrigeration or available for the Equipment (as may be updated by Middleby Refrigeration from time to time, the “Manual”), a copy of which is provided to you with the Equipment or otherwise will be furnished to you upon request, is excluded from this warranty. This warranty does not apply to damage or failure which results, in



Middleby Refrigeration's or its service agent's sole opinion, from failure to provide a suitable installation and operating environment (including power and HVAC if applicable) and facilities as prescribed by the Manual, misuse, abuse, accident or improper use, neglect, power failure or power surges (over or under voltage), or to damage or failure from flood, fire, lightning or other natural or man-made disasters, or other Acts of God, or to Equipment that has missing or altered serial numbers.

Modifications and Repair: Equipment that has been modified or altered by persons other than Middleby Refrigeration's or its service agents, or Equipment that has had non-approved devices or connection items attached thereto, is excluded from coverage under this warranty. Repair of the Equipment by anyone other than Middleby Refrigeration's or its authorized service agents will void all warranties on the Equipment.

Accessories: Accessories and parts (collectively "Accessories") that are consumed in the normal course of Equipment operation or maintenance are excluded from this warranty. Failure of or damage to Equipment or components from the use of non-approved cleaning chemicals, devices or processes is also excluded from this warranty.

Warranty Service, Exclusive Remedy

Middleby Refrigeration will be solely responsible for determining whether or not the Equipment or any component thereof is defective. Defective components covered by this warranty will be repaired or replaced at Middleby Refrigeration's option without charge to you and such repaired or replacement components will be covered by this warranty for the balance of the Warranty Period. Parts used in the repair of defective components and replacement components may be new, recovered or rebuilt. At its sole option, Middleby Refrigeration may decide to replace defective Equipment covered by this warranty with new, recovered or rebuilt Equipment of equal or greater capability, and such Equipment will be covered by this Limited Warranty for the balance of the Warranty Period. Defective Equipment and components will become the property of Middleby Refrigeration. This paragraph states Middleby Refrigeration's sole and exclusive obligation and liability and your sole and exclusive remedy under this warranty. Middleby Refrigeration shall not be responsible for a failure to provide warranty services due to causes beyond Middleby Refrigeration's or its service agents' control.

Warranty Claims

Claims under this warranty must be reported to Middleby Refrigeration under such reporting service as Middleby Refrigeration may designate. Upon receipt of the claim and related information and preliminary verification that the claim is valid, Middleby Refrigeration will promptly notify an authorized service agent to contact you and arrange for an on-site repair visit during the service agent's normal working hours. Any costs incurred by Middleby Refrigeration or its service agent associated with a service agent being refused or unable to gain access to the Equipment on your premises, or a claim not covered by this warranty, will be charged to you.

Disclaimer of Damages

Middleby Refrigeration disclaims all incidental, special and consequential damages, including but not limited to loss of use, lost revenue or profits, or substitute use, suffered by you or any third party, whether arising in contract, tort (including negligence), or otherwise, resulting from any breach by Middleby Refrigeration or its service agents of this warranty, or resulting from the manufacture, use, or defects, of or in the Equipment, even if Middleby Refrigeration was apprised of the possibility of such damages.

Customer Indemnity

You agree to indemnify, defend and hold Middleby Refrigeration harmless from all third party claims, demands, judgments, fees and costs directly or indirectly arising out of or related to your use of the Equipment. You further agree to indemnify and hold Middleby Refrigeration harmless from any incidental, consequential or special damages suffered by you, including lost revenue or profits, loss of use, or substitute use, during periods of Equipment failure or loss of use.

Governing Law, Entire Warranty



This warranty shall be governed and construed in accordance with the laws of the State of Michigan, USA (except with respect to its provisions regarding conflicts of laws). The warranty described herein is the complete and only warranty for Equipment and supersedes all prior oral or written agreements and understandings that may have existed between us relating to Equipment warranties. The terms of this warranty may not be altered, amended or modified except by a signed writing from Middleby Refrigeration. Any purported alteration, amendment or modification by a service agent or anyone else will not be enforceable against Middleby Refrigeration.

Charges for Non-Warranty Service or Rejection of Service Visit

In the event that repairs, replacement or service are provided by Middleby Refrigeration's service agents for work not covered by this limited warranty, customer agrees to pay the service agent directly according to the service agent's normal scale of charges. In the event Middleby Refrigeration is invoiced by the service agent for services not covered under this extended warranty, Middleby Refrigeration will invoice customer and customer will pay such invoice based on terms of net 10 days. Customer also agrees to pay any cost incurred by Middleby Refrigeration or its service agent associated with a service agent responding to a call for service, but then being refused or unable to gain access to the Equipment on Customer's premises. Failure to submit payment may, at Middleby Refrigeration's discretion, result in Middleby Refrigeration voiding the balance of the warranty. In no event will Middleby Refrigeration authorize service to a customer with an outstanding Non-Warranty invoice.

For parts and service assistance, or to find factory authorized service near you, contact Middleby Refrigeration at 616.754.5601.