USER GUIDE & SERVICE MANUAL



5 Class • UHWC515 • 15" Wine Captain®

USER GUIDE



SAFETY • INSTALLATION & INTEGRATION • OPERATING INSTRUCTIONS • MAINTENANCE • SERVICE

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WELCOME TO U-LINE

Congratulations on your U-Line purchase. Your product comes from a company with over five decades of premium modular ice making, refrigeration, and wine preservation experience. U-Line continues to be the American leader, delivering versatility and flexibility for multiple applications including residential, light commercial, outdoor and marine use. U-Line's complete product collection includes Wine Captain[®] Models, Beverage Centers, Clear Ice Machines, Nugget Ice Machines, Crescent Ice Makers, Glass & Solid Door Refrigerators, Drawer Models, Freezers, Combo[®] Models, and more.

U-Line has captivated those with an appreciation for the finer things with exceptional functionality, style, inspired innovations and attention to even the smallest details. We are known and respected for our unwavering dedication to product design, quality and selection. U-Line is headquartered in Milwaukee, Wisconsin and has shipped product to five continents for over two decades and is proud to have the opportunity to ship to you.

PRODUCT INFORMATION

Looking for additional information on your product? User Guides, Spec Sheets, CAD Drawings, Compliance Documentation, and Product Warranty information are all available for reference and download at 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 +1.800.779.2547.
- 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 F: +1.414.354.7905 Email: sales@u-line.com u-line.com

SERVICE & PARTS ASSISTANCE

Monday - Friday 8:00 am to 4:30 pm CST T: +1.800.779.2547 F: +1.414.354.5696 Service Email: onlineservice@u-line.com Parts Email: onlineparts@u-line.com



Designed, engineered and assembled in WI, USA



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 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



Disposal and Recycling

DANGER

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

WARNING

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.



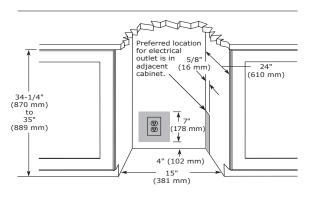
Cutout & Product Dimensions

PREPARE SITE

Your U-Line product has been designed for either freestanding 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.

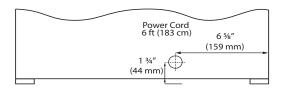
Unit can NOT be installed behind a closed cabinet door.

CUTOUT DIMENSIONS



PRODUCT DIMENSIONS

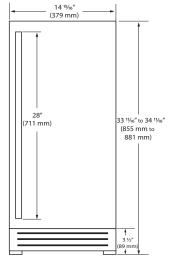
REAR

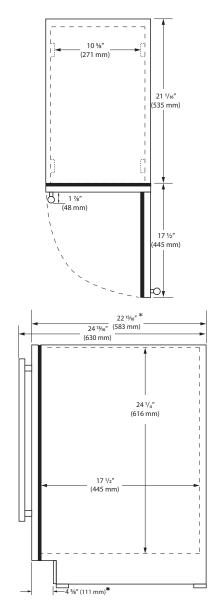




TOP

SIDE





*Add $\frac{1}{2}$ " for integrated models with $\frac{3}{4}$ " panel installed.



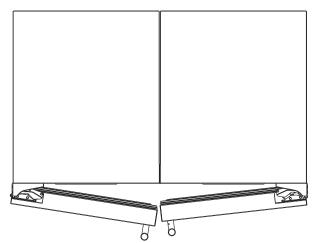
Side-by-Side Installation

OTHER SITE REQUIREMENTS

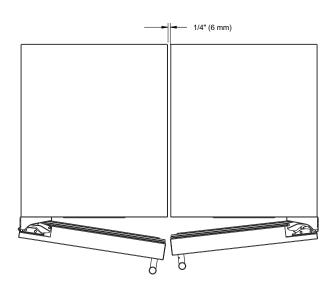
Side-by-Side Installation

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.

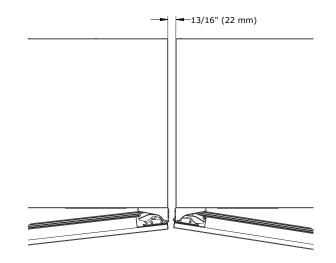


However, to ensure unobstructed door swing (opening both doors at the same time), 1/4" (6.4 mm) of space needs to be maintained between the units.

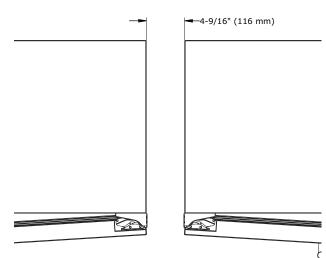


Hinge-by-Hinge Installation (Mullion)

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.



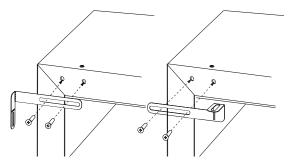


Anti-Tip Bracket

Use one of the methods below to secure the unit

CABINET/COUNTER ANTI-TIP INSTALLATION

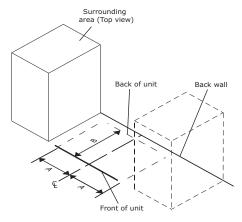
- (For built-in applications)
- 1. Slide unit out so screws on front of unit are easily accessible.
- 2. Remove the two screws from the front of the unit.



- 3. Bend bracket along one of the perforations to allow attachment to the desired adjoining surface.
- 4. Gently push unit into position. Be careful not to entangle the electrical cord or water line, if applicable.
- Check to be sure the unit is level from front to back and side to side. Make any necessary adjustments. The unit's top surface should be approximately ¹/₈" (3 mm) below the countertop.
- 6. Secure bracket to adjoining surface.

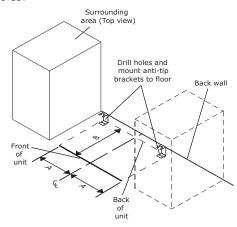
FLOOR MOUNTED ANTI-TIP INSTALLATION

- (For free-standing applications)
- 1. Locate two anti-tip brackets included with the kit.
- Place the unit into the area where it will be installed. Check the door, sides, and top for a proper fit. Also test to make sure the door opens and closes freely.
- 3. Remove grille and place a mark on the floor at the front of the unit. Also place a mark on the floor in the center of the unit.
- Remove the unit. Using a square, extend center line "B" (see chart below). This line serves as the back edge for the anti-tip brackets. From the center line, measure "A" to the left and right. This line is the outer edge of each bracket.



	515	518	524
Α	7 5/8″	9″	11 ¹⁵ / ₁₆ ″
В	22″	22″	22″

5. Place the anti-tip brackets on the floor against the line drawn for the outer edge. Mark spots for the screw holes.



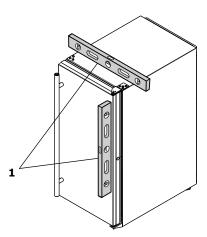
- Use a 1/8" drill to make two starter holes and fasten the anti-tip brackets to the floor using the screws provided.
- Place the unit back into position, making sure the feet engage the anti-tip brackets properly. Check the alignment of the lines made on the floor in step 3 with the position of the front feet to ensure proper positioning.



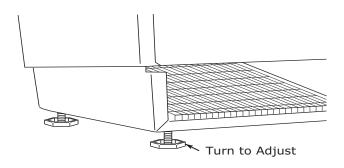
General Installation

LEVELING INFORMATION

 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 until the unit is level.

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 1/8" (3 mm) less than the 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.
- Gently push the unit into position. Be careful not to entangle the cord or water and drain lines, if applicable.
- Re-check the leveling, from front to back and side to side. Make any necessary adjustments. The unit's top surface should be approximately 1/8" (3 mm) below the countertop.
- 4. Install the anti-tip bracket.
- 5. Remove interior packing material and wipe out the inside of the unit with a clean, water-dampened cloth.



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.



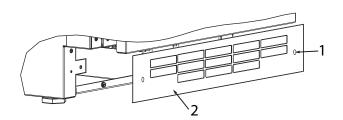
DO NOT touch the condenser fins. The condenser fins are SHARP and can be easily damaged.

Removing the grille

- 1. Disconnect power to the unit.
- 2. Loosen the two screws (1).
- 3. Remove grille (2) from unit.

Installing the grille

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



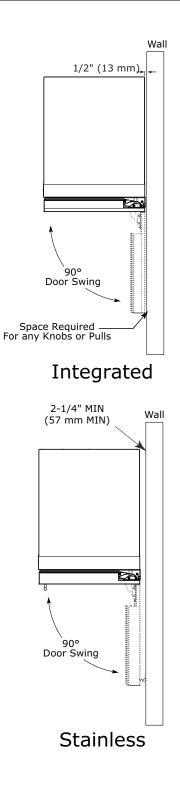


Door Swing

For Integrated models that are installed adjacent to a wall, 1/2" (13 mm) clearance is recommended from wall on hinge side to allow the door to open 90°. Allow for additional space for any knobs or pulls installed on the integrated panel/frame.

Stainless Steel models that are installed adjacent to a wall require 2-1/4" (57 mm) door clearance on hinge side to allow for door handle.

Units have a zero clearance when installed adjacent to cabinets.





First Use

Initial startup requires no adjustments. When plugged in, the unit will begin operating under the factory default settings. If the unit was turned off during installation, simply press 0 and the unit will immediately switch on. To turn the unit off, press 0.

NOTICE

Temperature displayed reflects actual temperature inside unit.

If the temperature displayed is different than selected, the unit is progressing towards the selected temperature. Time to reach set point varies based upon ambient temperature, temperature of product loaded, door openings, etc. U-Line recommends allowing the unit to reach set points before loading.



Control Operation



CONTROL FUNCTION GUIDE

FUNCTION	COMMAND	NOTES
ON/OFF	Press 🕑 and release	Unit will immediately turn On or OFF
Adjust Temperature	Press \bigtriangleup or \bigtriangledown and release	When the display is flashing, press \bigtriangleup or \bigtriangledown to adjust the set point temperature. Note: temperature displayed is the actual temperature inside unit
Toggle between ⁰ F / ⁰ C	Hold \bigtriangleup and \bigtriangledown for 5 seconds	The display will change units
Leave interior light on	Press 🍣 and release to leave interior light on for 12 hours; press again to deactivate	After 12 hours, factory default is restored; light will turn on when door is open
Adjust light color	While holding \bigtriangledown press and release $\sqrt[3]{r}$ to scroll through lighting options	OptionOpen DoorClosed DoorDDWhiteWhiteDIBlueBlueD2WhiteBlueLight will be set at full intensity when door is open,and 50% intensity when door is closed.
Enable Sabbath Mode	Press 🍣 and hold for 5 seconds and release	The ^o F / ^o 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

This unit is Star-K certified. See <u>www.star-k.org</u> for more details.

DOOR ALERT NOTIFICATION

When the door is left open for more than 5 minutes:

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



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Airflow & Product Loading

AIRFLOW

External

- Do not block the front grille no additional clearance around sides, top or rear of unit is needed for ventilation
- Do not install behind a closed door

Internal

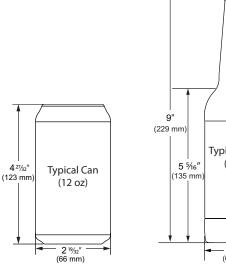
• When loading, leave space between internal fans, vents, and side walls to allow air to circulate freely

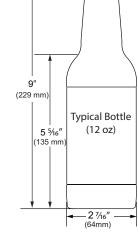
PRODUCT LOADING

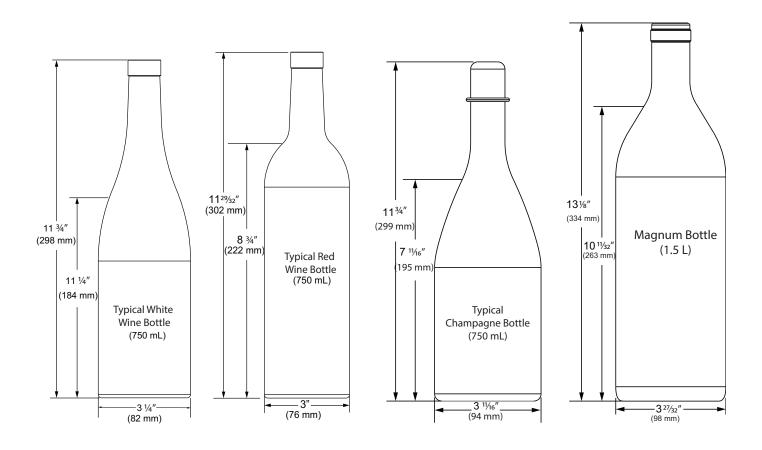
Bottles and cans come in all shapes and sizes. When determining capacities U-Line uses the following sizes. Combinations of red and white bottles are used in Wine Captain[®] Models and Beverage Centers.

NOTICE

Restricting airflow may result in poor product performance, product failure, and uneven internal temperatures and may freeze contents.









Interior Adjustments

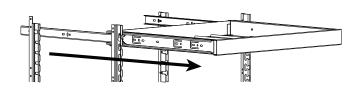
All 5 Class models feature side mounted rack supports with 19 adjustment positions.

All Wine Captain[®] models ship with 7 racks designed to hold the maximum number of typical white and red wine bottles. Remove and reposition racks as desired to accommodate a variety of bottle sizes and shapes.

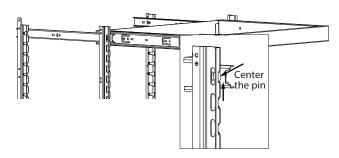
WINE RACK ADJUSTMENT

Wine Rack Removal

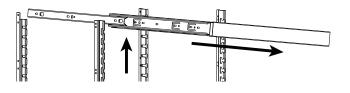
1. Fully extend empty rack



 Firmly grasp both sides of rack and lift front end of rack slightly (about 1/4") to center the pin in the slot.



- 3. Pull rack towards you until all pins are clear of the slots. If only repositioning the rack, do not remove completely go to "Rack Installation" Step 2.
- 4. Slightly tilt one side. Gently pull rack towards you to remove rack from unit.



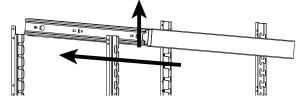
Note: Take care when removing rack to avoid scratching interior of unit.

5. Once removed, retract the slides.

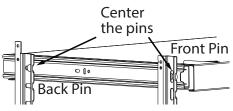
Note: The slides on the rack have a thin coating which is used to block moisture and provide lubrication. Use care when handling.

Wine Rack Installation

1. Insert empty rack into unit with one side tilted slightly downward until back pin is between front and rear rail supports.



2. Tilt rack back to horizontal and line up 2 back pins with back slots.



- 3. Line up 2 back pins with 2 back slots and 2 front pins with 2 front slots.
- 4. Continue inserting rack until all four pins are fully inserted. Front of rack will set down slightly into the front slots and be locked into position.



Wine Storage Options

WINE RACK BOTTLE POSITION

Specially designed horizontal wine racks properly position the bottles so the wine remains in contact with the cork, which ensures the cork does not become dry.

Racks are designed to accommodate typical 750ml wine bottles as follows:

UHWC515 15" Wine Captain Models



UHWC518 18" Wine Captain Models



5 Class 18″ Wine 5 Bottles





Wine Guide

LOOKING BEHIND THE LABEL

To most, wine is a delicious mystery. We purchase it, uncork it, and savor its taste and beauty. But there is so much more to true wine appreciation. Many secrets are simply too good to keep bottled up.

WINE SELECTIONS SUGGESTIONS

Selecting the right wine for the right occasion can sometimes be a seemingly awkward or difficult task for the beginning wine enthusiast. We would therefore like to present you with a few suggestions which may provide a little more confidence and enjoyment when choosing and serving your wines.

When selecting wines, keep an open mind and do not be afraid to be adventurous. Do not view the subject of wine so seriously it discourages you from learning and discovering for fear of embarrassment if something is incorrect. Wine is best viewed as a hobby and enjoyed.

When assembling your collection, try not to become obsessed with "Vintages." Although a chart can be a useful tool, generalizations about a specific year have led more than one collector to disappointment. Often an "Off Year" will provide a better value and more drinking enjoyment.

The primary guideline to the subject of wine is your own palate. Do not be afraid to make mistakes. Experiment, discover, but most of all, enjoy yourself and your new U-Line product.

Guide To Common Styles Of Wine

Red Wines		
Full-Bodied Dry	California French Italian	Zinfandel, Cabernet Rhone, Chateauneuf-du- Pape Barbaresco, Barolo
Medium-Bodied Dry	California French	Pinot Noir Bordeaux, Burgundy
Light-Bodied Dry	French Italian	Beaujolais Chianti, Bardolino
White Wines		
Full-Bodied Dry	California French	Chardonnay Montrachet, Meursault Puligny- Montrachet
Medium-Bodied Dry	California French	Sauvignon-Blanc Pouilly-Fuisse, Sancerre, Vouvray, Graves
Light-Bodied, Dry	French	Chablis, Muscadet, Pouilly-Fume
Full-Bodied, Very Sweet	Germany French Hungary	Beerenauslese Sauternes Tokay
Medium-Bodied, Semi-Sweet	California Germany	Gewurtztraminer Liebfraumilch
Light-Bodied Off Dry	Germany	Rhine, Mosel Riesling

Matching Food and Wine

Although there are no hard fast rules for matching wine to food, observe some guidelines. Delicate dishes should be accompanied by lighter more delicate wines. Full-flavored foods should be matched with fuller-bodied wines.

As a general rule, one should aim to ascend in flavor and quality of wines served.

Serve a:	Before a:
DRY wine	SWEET wine
WHITE wine	RED wine
YOUNG wine	OLD wine
LIGHT-BODIED wine	FULL-BODIED wine

Any step back in quality will be noticed. If a fine wine is tasted prior to a lesser wine, many of the fine wine's subtle qualities may be missed.



Common Food and Wine Matches

Foods	Wines
Fish, Shell Fish, Crab, Oysters	Dry White Wines, Light Sparkling or Extra Dry Champagne
Beef, Venison	Full-Bodied Red Wines
Pork, Veal, Lamb and Poultry	Light-Bodied Red Wines
Fruit	Sweet White and Sparkling Wines

A Toast to Wine Truths

Like the grapes themselves, many wine myths have been cultivated over the centuries.

Myth 1: Most wines taste better when aged.

Truth: In fact, less than 5% of wines produced today are meant to be aged. Most wines are crafted to be consumed within the first one to two years.

Myth 2: Wines should be uncorked and decanted allowing them to "breathe."

Truth: To breathe or not breathe? While it is better to allow a young tannic Red to breathe in a glass or decanter to soften the tannins, an old Red reaches a stage in its life where it should be enjoyed soon after opening. Allow an old Red to breathe for a short time to dissipate any off odors. Most white wines can be served, ideally, 10-15 minutes after opening.

Myth 3: When age worthy wines peak, they must be consumed almost immediately.

Truth: Most great wines reach a plateau period rather than a peak. Great Bordeaux's may have as much as a 10-year plateau before fading.

Myth 4: Wine color does not change with aging.

Truth: As red wines age they get lighter in color while whites get darker.

The Cork: A Mystery on Its Own

Cork Presentation. The ritual of the presentation of the cork has a rich and fascinating history dating back to the late 1800's. A phylloxera (root louse) devastation to the vineyards severely limited the supply of great wines. Restaurateurs would remove labels on inferior wines and replace them with labels from superior wines. This made it necessary for patrons to protect themselves by checking the branding on the cork to ensure that what they ordered was, in fact, what they were served.

When presented with a cork today, feel it to check for its integrity, read and match the branding on the cork to the bottle and set it aside. There is little to be learned from the cork. The proof is in the wine.

"Corked" wines. If you've ever had a wine that smelled or tasted of mold, you've experienced a wine that may have been "corked." Today, between five and eight percent of wines are tainted with Trichloroanisole (TCA). This substance, found naturally in plants and trees, is imparted to the wine through the cork. Corked wines are a major concern for winemakers as it destroys millions of cases per year and puts reputations at stake. Amazing as it may seem, twist-off caps may offer a better alternative; many great wineries in California, Australia and New Zealand are pioneering the trend.



Common Tasting Terms

Terminology	Description
Acidity	A critical element of wine that is responsible for preserving the wine's freshness. Excess acidity results in an overly tart and sour wine.
Balance	A desired trait where tannin, fruit and acidity are in total harmony. Wines with good balance tend to age gracefully.
Body	The weight and presence of wine in the mouth provided by the alcohol and tannin level. Full-bodied wines tend to have this strong concentration.
Bouquet	The blending of a wine's aroma within the bottle over a period of time, caused by volatile acidity.
Complex	A subjective term often used in tasting. A wine is said to be complex if it offers a variety of flavors and scents that continue to evolve as it develops.
Flabby	A wine that lacks structure, or is heavy to the taste, lacks acidity.
Full-Bodied	Wine high in alcohol and extract, generally speaking, fills the mouth, powerful.
Lean	Generally describes wines that are slim, lacking of generosity or thin.
Oaky	A desirable flavor imparted to wine if done in moderation. Most wines are aged in oak barrels one to three years, thereby receiving this toasty oak characteristic. However, if a weak wine is left in contact too long with an oak barrel, it will tend to be overpowered with an oaky taste.
Tannin	Tannins are extracted from the grape skins and stems and are necessary for a well-balanced red wine. Tannins are easily identified in wine tasting as the drying sensation over the gums. Tannins generally fade as a wine ages.

IDEAL WINE STORAGE CONSIDERATIONS

Temperature: The most important element about storage temperature is stability. If wine is kept in a stable environment between 40°F (7°C) and 65°F (21°C), it will remain sound. A small 1-2 degree temperature fluctuation within a stable environment is acceptable. Larger temperature fluctuations can affect the cork's ability to seal, allowing the wine to "leak" from the bottle.

Humidity: The traditional view on humidity maintains that wines should be stored on their sides in 50% - 80% relative humidity to ensure cork moisture and proper fit in the bottle. Contemporary wisdom suggests that the cork surface is too small to be impacted by humidity. Further, the cork is sealed with a metal or wax capsule making humidity penetration impossible. The concept of a humid storage environment was derived from the necessity of wineries to maintain moisture in their cellars to keep wooden barrel staves swollen, preventing wine evaporation and product loss. In fact, vineyards estimate as much as a 10% product loss per year due to evaporation while wine is aging in the wooden barrels. Humidity, however, was not intended for the modern cellar where wine is stored in glass bottles with sealed corks.

Light: UV rays are not only harmful to people, they are damaging to wines - especially those in clear bottles. Since oxygen molecules in wine absorb UV rays, wine should never be stored in direct light for long periods of time.

Vibration: Provided that sediment is left undistributed and particles are not suspended, vibration in a storage environment is not an issue. Wines can become flat or tired when voids and vacuums are created inside the wine bottle. In order to create voids and vacuums within a liquid, aggressive motion or shaking of the wine bottle would have to occur.



Common Food and Wine Matches

Temperature	Wines
Approximately 60°F (15°C)	Red
50°F - 55°F (10°C - 12°C)	White
Approximately 45°F (7°C)	Sparkling

Wine Captain[®] Models - A Touch of Elegance

In 1985 U-Line was the first North American appliance manufacturer to develop a residential wine storage unit, the Wine Captain[®]. Each U-Line Wine Captain[®] model is designed to impress and inspire anyone with an interest in wine by providing cellar conditions in stylish, undercounter units. U-Line Wine Captain[®] models offer stable storage temperatures, a 50% internal relative humidity, and protection from UV light rays. U-Line has the largest product offering available, making storing, presenting, and sharing your wine effortless and elegant.



Cleaning

Stainless Models

Stainless door panels and handles can discolor when exposed to chlorine gas, pool chemicals, saltwater or cleaners with bleach.

Keep your stainless unit looking new by cleaning with a good quality all-in-one stainless steel cleaner and polish monthly. For best results use Claire[®] Stainless Steel Polish and Cleaner. Comparable products are acceptable. Frequent cleaning will remove surface contamination that could lead to rust. Some installations may require cleaning weekly.

Do not clean with steel wool pads.

Do not use stainless steel cleaners or polishes on any glass surfaces.

Clean any glass surfaces with a non-chlorine glass cleaner.

Do not use cleaners not specifically intended for stainless steel on stainless steel surfaces (this includes glass, tile and counter cleaners).

If any surface discoloring or rusting appears, clean it quickly with Bon-Ami[®] or Barkeepers Friend Cleanser[®] and a nonabrasive cloth. Always clean with the grain. Always finish with Claire[®] Stainless Steel Polish and Cleaner or comparable product to prevent further problems.

Using abrasive pads such as Scotchbrite[™] will cause the graining in the stainless steel to become blurred.

Rust not cleaned up promptly can penetrate the surface of the stainless steel and complete removal of the rust may not be possible.

Integrated Models

To clean integrated panels, use household cleaner per the cabinet manufacturer's recommendation.

INTERIOR CLEANING

Disconnect power to the unit.

Clean the interior and all removed components using a mild nonabrasive detergent and warm water solution applied with a soft sponge or non-abrasive cloth.

Rinse the interior using a soft sponge and clean water.

Do not use any solvent-based or abrasive

cleaners. These types of cleaners may transfer taste to the interior products and damage or discolor the lining.

DEFROSTING

Under normal conditions this unit does not require manual defrosting. Minor frost on the rear wall or visible through the evaporator plate vents is normal and will melt during each off cycle.

If there is excessive build-up of 1/4" (6 mm) or more, manually defrost the unit.

Ensure the door is closing and sealing properly.

High ambient temperature and excessive humidity can also produce frost.

DO NOT use an ice pick or other sharp instrument to help speed up defrosting. These instruments can puncture the inner lining or damage the cooling unit. DO NOT use any type of heater to defrost. Using a heater to speed up defrosting can cause personal injury and damage to the inner lining.



NOTICE

The drain pan was not designed to capture the water created when manually defrosting. To prevent water from overflowing the drain pan and possibly damaging water sensitive flooring, the unit must be removed from cabinetry.

To defrost:

- 1. Disconnect power to the unit.
- 2. Remove all products from the interior.
- 3. Prop the door in an open position (2 in. [50 mm] minimum).
- 4. Allow the frost to melt naturally.
- 5. After the frost melts completely clean the interior and all removed components. (See INTERIOR CLEANING).
- 6. When the interior is dry, reconnect power and turn unit on.



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.

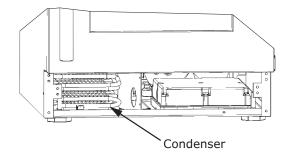
WARNING

Disconnect electric power to the unit before cleaning the condenser.

NOTICE

DO NOT use any type of cleaner on the condenser unit. Condenser may be cleaned using a vacuum, soft brush, or compressed air.

- 1. Remove the grille. See GRILLE INSTALLATION).
- 2. Clean the condenser coil using a soft brush or vacuum cleaner.
- 3. Install the grille.





Extended Non-Use

VACATION/HOLIDAY, PROLONGED SHUTDOWN

The following steps are recommended for periods of extended non-use:

- 1. Remove all consumable content from the unit.
- 2. Disconnect the power cord from its outlet/socket and leave it disconnected until the unit is returned to service.
- 3. If ice is on the evaporator, allow ice to thaw naturally.
- 4. Clean and dry the interior of the unit. Ensure all water has been removed from the unit.
- The door must remain open to prevent formation of mold and mildew. Open door a minimum of 2" (50 mm) to provide the necessary ventilation.

WINTERIZATION

If the unit will be exposed to temperatures of 40°F (5°C) or less, the steps above must be followed.

For questions regarding winterization, please call U-Line at 800.779.2547.



Damage caused by freezing temperatures is not covered by the warranty.



Troubleshooting

BEFORE CALLING FOR SERVICE

If you think your U-Line product is malfunctioning, read the CONTROL OPERATION section to clearly understand the function of the control.

If the problem persists, read the NORMAL OPERATING SOUNDS and TROUBLESHOOTING GUIDE sections below to help you quickly identify common problems and possible causes and remedies. Most often, this will resolve the problem without the need to call for service.

IF SERVICE IS REQUIRED

If you do not understand a troubleshooting remedy, or your product needs service, contact U-Line Corporation directly at +1.800.779.2547.

When you call, you will need your product Model and Serial Numbers. This information appears on the Model and Serial number plate located on the upper right or rear wall of the interior of your product.

NORMAL OPERATING SOUNDS

All models incorporate rigid foam insulated cabinets to provide high thermal efficiency and maximum sound reduction for its internal working components. Despite this technology, your model may make sounds that are unfamiliar.

Normal operating sounds may be more noticeable because of the unit's environment. Hard surfaces such as cabinets, wood, vinyl or tiled floors and paneled walls have a tendency to reflect normal appliance operating noises.

Listed below are common refrigeration components with a brief description of the normal operating sounds they make. NOTE: Your product may not contain all the components listed.

• Compressor: The compressor makes a hum or pulsing sound that may be heard when it operates.

- Evaporator: Refrigerant flowing through an evaporator may sound like boiling liquid.
- Condenser Fan: Air moving through a condenser may be heard.
- Automatic Defrost Drain Pan: Water may be heard dripping or running into the drain pan when the unit is in the defrost cycle.

TROUBLESHOOTING GUIDE

DANGER

ELECTROCUTION HAZARD. Never attempt to repair or perform maintenance on the unit before disconnecting the main electrical power.

Troubleshooting - What to check when problems occur:

Problem	Possible Cause and Remedy
Interior Light Does Not Illuminate	If the unit is cooling, it may be in Sabbath mode.
Light Remains on When Door Is Closed.	Turn off light switch if equipped. Adjust light actuator bracket on bottom of door.
Unit Develops Frost on Internal Surfaces.	Ensure the door is closing and sealing properly.
Unit Develops Condensation on External Surfaces.	The unit is exposed to excessive humidity. Moisture will dissipate as humidity levels decrease.
Product is Not Cold Enough	Air temperature does not indicate product temperature. See CHECKING PRODUCT TEMPERATURE below. Adjust the temperature to a cooler set point. Ensure unit is not located in excessive ambient temperatures or in direct sunlight. Ensure the door is closing and sealing properly. Ensure the interior light has not remained on too long. Ensure nothing is blocking the front grille, found at the bottom of the unit. Ensure the condenser coil is clean and free of any dirt or lint build-up.



CHECKING PRODUCT TEMPERATURE



To check the actual product temperature in the unit:

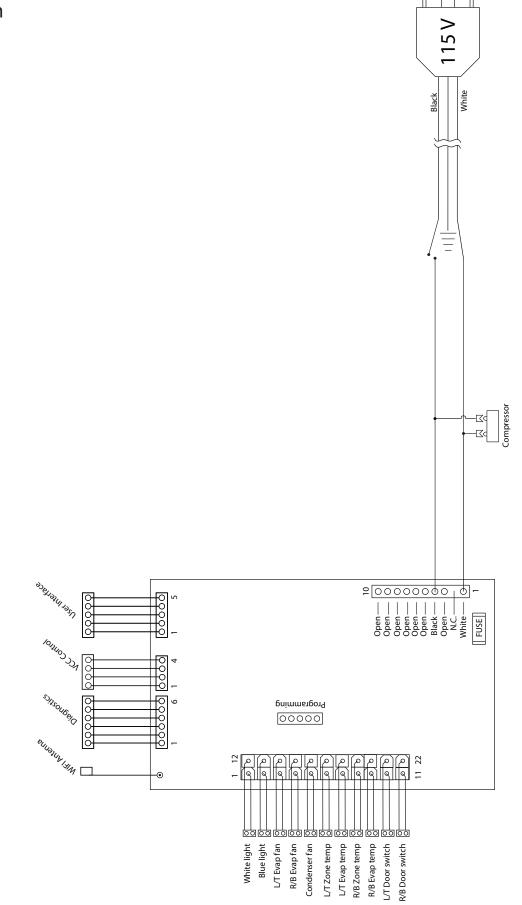
- 1. Partially fill a plastic (nonbreakable) bottle with water.
- 2. Insert an accurate thermometer.
- 3. Tighten the bottle cap securely.
- 4. Place the bottle in the desired area for 24 hours.
- 5. Avoid opening the unit during the testing period.
- 6. After 24 hours, check the temperature of the water. If required, adjust the temperature control in a small increment (see CONTROL OPERATION).

Causes which affect the internal temperatures of the cabinet include:

- Temperature setting.
- Ambient temperature where installed.
- Installation in direct sunlight or near a heat source.
- The number of door openings and the time the door is open.
- The time the internal light is illuminated. (This mainly affects product on the top rack or shelf.)
- Obstruction of front grille or condenser.

Wire Diagram





Wire Diagram

42372_B



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 U-Line 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 U-Line 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, U-Line must be contacted at 1.800.799.2547 for further direction.

> 8900 N. 55th Street • Milwaukee, WI 53223 T: +1.414.354.0300 • F: +1.414.354.354.5696 Website: <u>www.u-line.com</u>

> > Right product. Right place. Right temperature Since 1962.



Warranty Claims

The following information defines the parameters for filing a warranty claim:

- Valid serial number needed
- Valid model number needed
- Claims must be submitted online at <u>www.U-LineService.com</u>
- 60 day submittal deadline from date of completed service
- Only one repair or unit per warranty claim
- Part order numbers will be required when submitting for warranty labor

Units must be registered prior to warranty submittal. Customers may register at <u>www.U-Line.com</u>. A proof of purchase is required. We also accept the following information to update warranty:

- New construction occupancy documents
- Closing paperwork
- Final billing Remodel

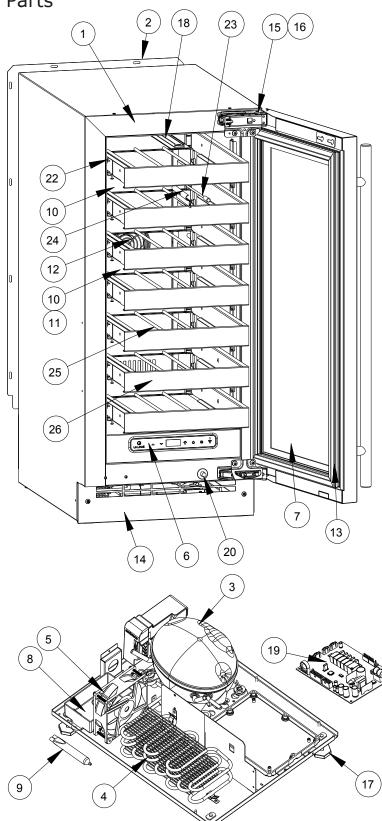
Warranty parts will be shipped at no charge after U-Line confirms warranty status. Please provide the model, serial number, part number and part description. Some parts will require color or voltage information.

<u>17</u>	14862	05 0527
 Year	Factory use Only	 Month Factory use Only

USER GUIDE



Parts



	UHWC515-S	G01A
1	ANTI-TIP BRACKET	80-55449-00
2	BACK PANEL	80-55450-00
3	COMPRESSOR W/ELECTRICALS	80-55452-00
4	CONDENSER ASSEMBLY	80-55453-00
5	CONDENSER FAN	80-54014-00
6	DISPLAY MODULE	80-55429-00
7	DOOR ASSEMBLY	80-55454-00
8	DRAIN PAN	80-54217-00
9	DRIER	80-54055-00
10	EVAPORATOR ASSEMBLY	80-55458-00
11	EVAPORATOR COVER	80-55456-00
12	EVAPORATOR FAN W/COVER	80-55457-00
13	GASKET, DOOR	80-55459-00
14	GRILLE	80-55461-00
15	HINGE ASSEMBLY	80-55374-00
16	HINGE COVER (2)	80-54001-00
17	LEG LEVELERS (4)	80-54019-00
18	LED LIGHT, 2 COLOR	80-55272-00
19	MAIN BOARD	80-55398-00
20	PLUNGER SWITCH	80-55375-00
21	POWER CORD*	80-55462-00
22	SLIDE ASSEMBLY	80-55509-00
23	THERMISTOR	80-54006-00
24	THERMISTOR COVER	80-55464-00
25	WINE RACK	80-55465-00
26	WINE RACK FRONT	80-55500-00
27	WIRE HARNESS, BOARD*	80-55466-00

*Not Shown



Ordering Replacement Parts Parts may be ordered online at www.U-Line.com

See our contact information below:

<u>www.U-LineService.com</u> (with service login) Phone Number: +1.800.779.2547

NOTICE

Use only genuine U-Line replacement parts. The use of non-U-Line parts can reduce speed of ice production, cause water to overflow from ice maker mold, damage the unit, and void the warranty.

Warranty parts will be shipped at no charge after U-Line confirms warranty status. Please provide the model, serial number, part number and part description. Some parts will require color or voltage information.

If U-Line requires the return of original parts, we will inform you when the parts order is taken. This requirement will be noted on your packing list. A prepaid shipping label will be emailed to you. Please enclose a copy of the parts packing list and be sure the model and serial numbers are legible on the paperwork. Tag the part with the reported defect.

Customers and non-authorized servicers may order nonwarranty parts at www.u-line.com. Authorized servicers with a servicer login may order non-warranty parts at www.u-lineservice.com.



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

<u>(R-600a has been exempted from recovery/reclaiming</u> 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.)



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.



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	230 VAC
FREQUENCY	43-134 Hz
START WINDING	20 Ohm at 77° F
RUN WINDING	20 Ohm at 77° F
RUN TO START	20 Ohm at 77° F
LRA	1.7 A
FLA	1.7 A
STARTING DEVICE	Inverter CF02C05
OVERLOAD	Inverter CF02C05

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



Troubleshooting - Extended



Never attempt to repair or perform maintenance on the unit until the main electrical power has been disconnected from the unit.

SPECIFIC ERRORS AND ISSUES

The advanced diagnostic capabilities of the electronic controls utilized on the 1, 3, and 5 Class units allow for easy and thorough troubleshooting.

Navigation of the control is the key and is explained in the CONTROL OPERATION section of the manual, along with control button layout, control function descriptions, a service mode menu and service menu selection explanations.

Verification of temperature and thermistor performance can be identified by directly viewing thermistor readings in the service mode.

Included in this section are some diagnostic tips and of course, if additional help is required, please contact the U-Line Corp, "Customer Care Facility" at +1.800.779.2547 for assistance.

NORMAL OPERATING SOUNDS

All models incorporate rigid foam insulated cabinets to provide high thermal efficiency and maximum sound reduction for its internal working components. Despite this technology, your model may make sounds that are unfamiliar.

Normal operating sounds may be more noticeable because of the unit's environment. Hard surfaces such as cabinets, wood, vinyl or tiled floors and paneled walls have a tendency to reflect normal appliance operating noises.

Listed below are common refrigeration components with a brief description of the normal sounds they make. NOTE: Your product may not contain all the components listed.

- Compressor: The compressor makes a hum or pulsing sound that may be heard when it operates.
- Evaporator: Refrigerant flowing through an evaporator may sound like boiling liquid.
- Condenser Fan: Air moving through a condenser may be heard.
- Automatic Defrost Drain Pan: Water may be heard dripping or running into the drain pan when the unit is in the defrost cycle.

Solenoid Valves: An occasional clicking sound may be heard as solenoid valves are operated.



TROUBLESHOOTING GUIDE

Concern	Potential Causes	Action	
Not Cooling	Compressor overheating	Verify proper air flow through condenser. Is condenser clean?	
		Confirm condenser fan operation.	
	Compressor not operating	Test overload and relay, replace as needed.	
	Compressor operating - no cooling	Refer to System Diagnosis Guide.	
Frozen Product	Control set too cold	Adjust Set Point Temp accordingly.	
	Thermistor failure	Check Error Log in Service Mode, OHM thermistor.	
Frost Buildup Inside Unit	Door Ajar or Restricted from Closing	Check door clearance to adjoining cabinetry. Check distribution of product in unit.	
	Thermistor failure	OHM thermistor	
Display Not Working	Display unplugged	Verify that both ends of the display wiring are firmly connected.	
	Display wiring broken or damaged	Perform continuity test of wiring and replace as needed.	
Interior Lights Not Working	Door switch misaligned or defective	Check the function of reed switch and door magnet adjustment.	
Noisy	Refrigeration tubing touching cabinet	Carefully reposition tubing.	
	Fan blade obstruction (wiring, foam insulation, packaging material)	Remove obstruction.	

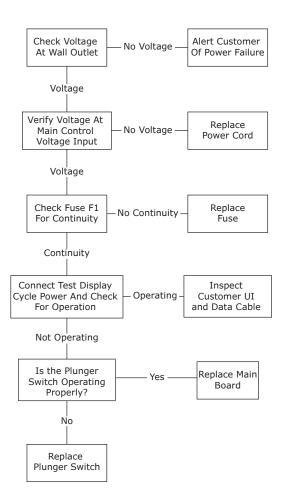


MAIN CONTROL

The main control board is very robust and is rarely the cause of system issues. It is important to fully diagnose the board for any suspected failures before attempting to remove the board for replacement or service. Follow the guidelines below to fully test and diagnose the main control.

Power Fault

If the unit does not (or seems to not) power on, follow the flow chart below to help diagnose the issue. Before beginning it is important to first verify the unit is not simply set to sabbath mode.

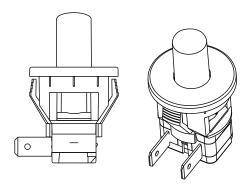




Precautions must be taken while working with live electrical equipment. Be sure to follow proper safety procedures while performing tests on live systems.

PLUNGER SWITCH

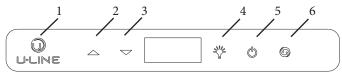
A plunger switch is used to monitor door state. When the door is closed it comes into contact with the plunger which closes a circuit which turns the light and display off. When the door is open the plunger moves outward and opens the circuit. If the door is left open for longer than 5 minutes the switch will trigger an error code and set an audible warning.





Control Operation-Service

UI BUTTON LAYOUT



1. Hidden Button

-Access Service Menu -No LED directly above. All LEDs 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 off/on

6. Clean Button

-Activates Clean Cycle on select models

CONTROL FUNCTION GUIDE

FUNCTION	COMMAND	DISPLAY/OPTIONS
ON/OFF	Press 🕑 and release	Unit will immediately turn ON or OFF
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 "0." 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 "0" and press the LIGHT key. After five minutes of not touching any keys the mode will also exit automatically.



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 Appx D)
- 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)

SERVICE MODE GUIDE

1. THERMISTOR 1 – ZONE

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

2. THERMISTOR 2 – EVAPORATOR

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 - ZONE OFFSET

(DO NOT MAKE AN ADJUSTMENT TO THIS WITHOUT CONTACTING TECH LINE: 800-779-2547) 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 - EVAPORATOR OFFSET

(DO NOT MAKE AN ADJUSTMENT TO THIS WITHOUT CONTACTING TECH LINE: 800-779-2547)

- 7. Does not apply to this model.
- 8. Does not apply to this model.

9. **THERMISTOR 2 – SET POINT MINUS OFFSET** 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. ADJUST DEFROST INTERVAL 3 TO 24 HOURS

This will adjust the interval between defrosts from 3 to 24 hours. Adjusting from the factory settings may cause undesired temperature in the refrigerator section.

13. ADJUST DEFROST DURATION - 0 TO 99 MINUTES

The length of the defrost can be adjusted 0 to 99 minutes long. The other defrost parameters still apply. Lengthening a defrost may cause higher than normal temperatures in the refrigerator section.

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.

- EO: Door 1 (upper) open.
- E1: Thermistor 1 open.
- E2: Thermistor 2 open.

USER GUIDE



- E3: Thermistor 3 open.
- E4: Thermistor 4 open (Does not apply to this model).
- E5: Thermistor 1 shorted.
- E6: Thermistor 2 shorted.
- E7: Thermistor 3 shorted.

E8: Thermistor 4 shorted (Does not apply to this model).

E9: Door 2 (lower) open.

P1: Pump Circuit open (Does not apply to thismodel).

15: CLEAR ERROR LOG

To clear errors, press and <u>hold</u> [5] (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

Display #	Relay / Output
- Option #0 – Exit	
- Option #1 – Relay 1	

- 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)

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** 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)



MODEL LIST

Model #	Model	29
1	*HBV315-***1A	30
2	*HBV315-***2A	31
3	*HBV318-***1A	32
4	*HBV324-***1A	33
5	*HBV324-***2A	34
6	*HBV336-***1A	35
7	*HBV515-***1A	36
8	*HBV515-***2A	37
9	*HBV524-***1A	38
10	*HBV524-***2A	39
11	*HCL315-***1A	40
12	*HCL315-***2A	41
13	*HDR324-***1A	42
14	*HDR324-***2A	43
15	*HFZ324-***1A	44
16	*HFZ324-***2A	45
17	*HRE315-***1A	46
18	*HRE315-***2A	47
19	*HRE318-***1A	48
20	*HRE324-***1A	49
21	*HRE324-***2A	50
22	*HRE336-***1A	51
23	*HRE515-***1A	52
24	*HRE515-***2A	53
25	*HRE524-***1A	54
26	*HRE524-***2A	55
27	*HRE324-***1A	56
28	*HRE324-***2A	57

29 30 31	*HKR524-***1A *HKR524-***2A *HWC315-***2A
31	
	*HWC315-***2A
32	*HWC315-***1A
33	*HWC318-***1A
34	*HWC324-***2A
35	*HWC324-***1A
36	*HWC515-***2A
37	*HWC515-***1A
38	*HWC524-***1A
39	*HWC524-***2A
40	*HWC336-***1A
41	*HBD324-***1A
42	*HBD324-***2A
43	*HBD524-***1A
44	*HBD524-***2A
45	*HWD324-***2A
46	*HWD324-***1A
47	*HWD524-***2A
48	*HWD524-***1A
49	*HRF124-***2A
50	*HRF124-***1A
51	*HRI124-***2A
52	*HRI124-***1A
53	Nugget 1 Class
54	Grid Ice
55	Medical Refrigerator
56	Full size
57	Nugget 3 Class

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*.
 or

 *(See Above "Model List")
- 5. Press the light bulb button once. 학
- 6. The display will blink, and then will appear as the programmed display.

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3 Mugate lace. 1 Casas Compliant Lumbra Reserver fm Appliant Reserver fm Appliant Source fmod Nounder fmod Nound	Program	Model	Relay 1	Relay 2	Relay 3	Relay 4	Relay 5	Relay 6	DC1	DC2	DC3	DC4	DC5
Nugget Re. 3 ClassMater MainMere Dis- Reservor FulDum ValveAugerCond FanCerr Le, 3 ClassCompresorMere Dis- PeriodCer PumpWare TubMere TopCond Fan***********************************	53	Nugget Ice, 1 Class	Comp/Fan	1	Dump Valve	Reservoir Fill	Auger	Water Main	Light 1	Light 2	1	,	Cond Fan
Crear Tee, 3 Class Compressor Water Tohs- phone Curc Pump Water Tohs- subside Cond Fasi value Cond Fasi va	57	Nugget Ice, 3 Class	Water Main	Water Dis- pense	Dump Valve	Reservoir Fill	Auger	Cond Fan	Light 1	Light 2		1	Cond Fan
B0315.*1A Compressor :	11	Clear Ice, 3 Class	Compressor	Water Dis- pense	Circ Pump	Water Inlet	Hot Gas Valve	Cond Fan	Light 1	Light 2		ı	Cond Fan
B0/18.*1A Compressor 1	01	**BV315-***1A	Compressor	I	1	1	1	1	Light 1	Light 2	Evap Fan	1	Cond Fan
B0724*1ACompressorLubbit <th>03</th> <td>**BV318-***1A</td> <td>Compressor</td> <td>1</td> <td>1</td> <td>1</td> <td>,</td> <td>1</td> <td>Light 1</td> <td>Light 2</td> <td>Evap Fan</td> <td>,</td> <td>Cond Fan</td>	03	**BV318-***1A	Compressor	1	1	1	,	1	Light 1	Light 2	Evap Fan	,	Cond Fan
***********************************	04	**BV324-***1A	Compressor	I	1	I	I	I	Light 1	Light 2	Evap Fan	1	Cond Fan
BV515*1ACompressor: etcol: etco	90	**BV336-***1A	Compressor	Top/Left Valve	Bot/Right Valve	I	ı	ı	Light 1	Light 2	Evap Fan	Evap Fan 2	Cond Fan
BU524*1ACompresorii	07	**BV515-***1A	Compressor	1	1	1	1	1	Light 1	Light 2	Evap Fan	1	Cond Fan
DR324-1ACompresorMullon Heater**FZ324-***1ACompresor2222222**RE315-***1ACompresor2222222**RE315-***1ACompresor222222**RE324-**1ACompresor122222**RE324-**1ACompresor122222**RE324-**1ACompresor122222**RE324-**1ACompresor122222**RC315-**1ACompresor122222**RC315-**1ACompresor122222**RC315-**1ACompresor122222**RC315-**1ACompresor112222**RC315-**1ACompresor112222**WC315-**1ACompresor1122	60	**BV524-***1A	Compressor	1	1	1	,	I	Light 1	Light 2	Evap Fan	,	Cond Fan
F_Z324*1A Compressor - + Heater Cond Fan **RE315***1A Compressor - - - - - - - **RE315***1A Compressor - - - - - - - **RE315***1A Compressor -	13	**DR324-***1A	Compressor	Mullion Heater	1	1	,	I	Light 1	Light 2	Evap Fan	Evap Fan 2	Cond Fan
RE315*1A Compressor -	15	**FZ324-***1A	Compressor	1	1	1	Heater	Cond Fan	Light 1	Light 2	Evap Fan		Cond Fan
RE318-*1A Compresor -	17	**RE315-***1A	Compressor	1	1	1	,	I	Light 1	Light 2	Evap Fan	1	Cond Fan
RE324*1ACompresor···<	19	**RE318-***1A	Compressor	I	1	ı	1	I	Light 1	Light 2	Evap Fan	1	Cond Fan
RE36.1A Compressor Top/Left Value Bou/Right Value - - - **RE515.***1A Compressor - <td< th=""><th>20</th><td>**RE324-***1A</td><td>Compressor</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>Light 1</td><td>Light 2</td><td>Evap Fan</td><td>1</td><td>Cond Fan</td></td<>	20	**RE324-***1A	Compressor	1	1	1	1	1	Light 1	Light 2	Evap Fan	1	Cond Fan
REJ5-*1A Compresor	22	**RE336-***1A	Compressor	Top/Left Valve	Bot/Right Valve	ı	,	1	Light 1	Light 2	Evap Fan	Evap Fan 2	Cond Fan
RE54+1A Compressor - - - - - - **RE34+**1A Compressor -	23	**RE515-***1A	Compressor	I	1	1	ı	I	Light 1	Light 2	Evap Fan	1	Cond Fan
RE34.1ACompressor- + + + + + + + + + + + + + +	25	**RE524-***1A	Compressor	I	1	I	ı	I	Light 1	Light 2	Evap Fan	1	Cond Fan
KF24*14Compresor· · · · · · · · · · · · · · · · · · ·	27	**RE324-***1A	Compressor	I	-	-	ı	I	Light 1	Light 2	Evap Fan	1	Cond Fan
WC315.*1ACompressor**WC318.***1ACompressor <td< th=""><th>29</th><td>**KR524-***1A</td><td>Compressor</td><td>I</td><td>-</td><td>I</td><td>-</td><td>I</td><td>Light 1</td><td>Light 2</td><td>Evap Fan</td><td>-</td><td>Cond Fan</td></td<>	29	**KR524-***1A	Compressor	I	-	I	-	I	Light 1	Light 2	Evap Fan	-	Cond Fan
WC318-*1ACompressor <th< th=""><th>32</th><td>**WC315-***1A</td><td>Compressor</td><td>I</td><td>-</td><td>I</td><td>I</td><td>I</td><td>Light 1</td><td>Light 2</td><td>Evap Fan</td><td>I</td><td>Cond Fan</td></th<>	32	**WC315-***1A	Compressor	I	-	I	I	I	Light 1	Light 2	Evap Fan	I	Cond Fan
WC324-*1A Compressor -	33	**WC318-***1A	Compressor	I	1	I	1	I	Light 1	Light 2	Evap Fan	1	Cond Fan
WC515-*1ACompressor··· <th< th=""><th>35</th><td>**WC324-***1A</td><td>Compressor</td><td>I</td><td>-</td><td>1</td><td>-</td><td>I</td><td>Light 1</td><td>Light 2</td><td>Evap Fan</td><td>1</td><td>Cond Fan</td></th<>	35	**WC324-***1A	Compressor	I	-	1	-	I	Light 1	Light 2	Evap Fan	1	Cond Fan
WC524-*1ACompressor <th< th=""><th>37</th><td>**WC515-***1A</td><td>Compressor</td><td>I</td><td>-</td><td>1</td><td>1</td><td>I</td><td>Light 1</td><td>Light 2</td><td>Evap Fan</td><td>1</td><td>Cond Fan</td></th<>	37	**WC515-***1A	Compressor	I	-	1	1	I	Light 1	Light 2	Evap Fan	1	Cond Fan
WC336-*1ACompressorTop/Left ValveBot/Right Valve**BD324-**1ACompressorTop/Left ValveBot/Right Valve**BD524-**1ACompressorTop/Left ValveBot/Right Valve**BD524-**1ACompressorTop/Left ValveBot/Right Valve <th>38</th> <td>**WC524-***1A</td> <td>Compressor</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>Light 1</td> <td>Light 2</td> <td>Evap Fan</td> <td>-</td> <td>Cond Fan</td>	38	**WC524-***1A	Compressor	-	-	-	-	-	Light 1	Light 2	Evap Fan	-	Cond Fan
BD324-*1A Compressor Top/Left Valve Bot/Right Valve - - - - **BD524-***1A Compressor Top/Left Valve Bot/Right Valve - - - - **BD524-***1A Compressor Top/Left Valve Bot/Right Valve - - - - **WD524-***1A Compressor Top/Left Valve Bot/Right Valve - - - - **WD524-***1A Compressor Top/Left Valve Bot/Right Valve - - - - - **WD524-***1A Compressor Top/Left Valve Bot/Right Valve -	40	**WC336-***1A	Compressor	Top/Left Valve	Bot/Right Valve	1	1	I	Light 1	Light 2	Evap Fan	Evap Fan 2	Cond Fan
BD524-*1A Compressor Top/Left Valve Bot/Right Valve - - - **WD324-***1A Compressor Top/Left Valve Bot/Right Valve - - - - **WD524-***1A Compressor Top/Left Valve Bot/Right Valve - - - - - **WD524-***1A Compressor Top/Left Valve Bot/Right Valve - - - - - **KF124-***1A Compressor Top/Left Valve Bot/Right Valve Pan Pefrost Cond Fan **R1124-***1A Compressor Icemaker 2 Icemaker 1 Pan Defrost Cond Fan **R1124-***1A Compressor Icemaker 2 Icemaker 1 Pan Defrost Cond Fan Medical Combressor Icemaker 2 Icemaker 1 Pan Defrost Cond Fan	41	**BD324-***1A	Compressor	Top/Left Valve	Bot/Right Valve	1	ı	I	Light 1	Light 2	Evap Fan	Evap Fan 2	Cond Fan
WD324-*1A Compressor Top/Left Valve Bot/Right Valve - - - **WD524-***1A Compressor Top/Left Valve Bot/Right Valve - - - **WD524-***1A Compressor Top/Left Valve Bot/Right Valve - - - **RF124-***1A Compressor - - - - - - **RF124-***1A Compressor - - - Pan Defrost Cond Fan **R1124-***1A Compressor Icemaker 2 Icemaker 1 Pan Defrost Cond Fan Medical Compressor - - - - - -	43	**BD524-***1A	Compressor	Top/Left Valve	Bot/Right Valve	I	ı	I	Light 1	Light 2	Evap Fan	Evap Fan 2	Cond Fan
WD524-*1A Compressor Top/Left Valve Bot/Right Valve - - - **RF124-***1A Compressor - - Pan Pefrost Cond Fan **R1124-***1A Compressor Icemaker 2 Icemaker 1 Pan Pefrost Cond Fan **R1124-***1A Compressor Icemaker 2 Icemaker 1 Pan Defrost Cond Fan Medical Compressor - - - Cond Fan	46	**WD324-***1A	Compressor	Top/Left Valve	Bot/Right Valve	I	I	I	Light 1	Light 2	Evap Fan	Evap Fan 2	Cond Fan
RF124-*1A Compressor - - Pan Defrost Cond Fan **R1124-***1A Compressor Icemaker 2 Icemaker 1 Pan Pefrost Cond Fan Medical Compressor - - - - Cond Fan	48	**WD524-***1A	Compressor	Top/Left Valve	Bot/Right Valve	1	1	1	Light 1	Light 2	Evap Fan	Evap Fan 2	Cond Fan
R1124-*1A Compressor Icemaker 2 Icemaker 1 Pan Defrost Cond Fan Medical Compressor - - - Cond Fan	50	**RF124-***1A	Compressor	1	-	Pan	Defrost Heater	Cond Fan	Light 1	Light 2	Evap Fan	I	Cond Fan
Medical Compressor Cond Fan	52	**RI124-***1A	Compressor		Icemaker 1	Pan	Defrost Heater	Cond Fan	Light 1	Light 2	Evap Fan	I	Cond Fan
	55	Medical	Compressor	I	1	I	I	Cond Fan	Light 1	I	Evap Fan	1	Cond Fan

USER GUIDE





Thermistors

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.

Both thermistors in the unit are identical. If a thermistor is suspected of being defective, the resistance can be verified. Place the thermistor in an ice water bath, the resistance should read 16.1k Ohms +/-5% on your meter.

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.

Thermistor error information can be found in the Control Operations - Service section.

This unit has **two** thermistors.

Thermistor one (Zone):

Located along the right hand side wall. It is used to maintain the operating temperature within that zone.

Thermistor two (Evaporator):

Located on the evaporator. It is used for defrost.

THERMISTOR FAILURE

Zone Thermistor

If the zone thermistor in the unit fails, the unit will continue to cool in a backup mode (Self Preservation Mode) to preserve the integrity of the contents. The unit will otherwise operate normally.

Evaporator Thermistor

If the evaporator thermistor fails, the unit will rely on a preset defrost timer during defrost cycles. The unit will otherwise operate normally. Refer to defrost section.

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	21166
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%)



Defrost

This unit defrosts every 12 hours of compressor runtime for 45 minutes. If you have verified that the unit does not have an ambient air leak, utilize the **Control Operation - Service** section and adjust unit to defrost every 9 hours for 60 minutes. Also, adjust the #2 thermistor to -4 instead of 0.



Remove Fan and Cover

CONVECTION COOLING

This unit is equipped with an advanced convection cooling system. Convection cooling stabilizes cabinet temperature, cools product faster and increases energy efficiency.

Evaporator Fan

The evaporator fan is responsible for circulating warm air from the refrigeration zone, past the evaporator and back into the refrigerated zone.

The evaporator fan is factory set to have a 1 minute delay at the beginning of a cooling cycle. This delay gives the evaporator time to cool properly before warm air is passed over it. The fan will continue to run for an additional 2 minutes at the end of a cooling cycle. Fan delay times can be modified through the service menu.

Evaporator fan operation is also determined by door switch state. If the door switch circuit opens, the fan will stop. When the door switch circuit is closed the fan will either continue running with the cooling cycle, or if not currently cooling, the fan will run for 1 minute to circulate air and clear any condensation that may have appeared on glass doors and shelves.

Note: If the unit is set to sabbath mode, the evaporator fan will no longer respond to the state of the door switch.

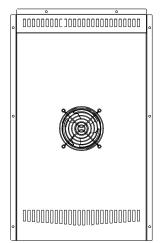
In order to operate efficiently, the evaporator fan blade and vents should be unobstructed and free of any dust buildup.

Evaporator Fan Replacement

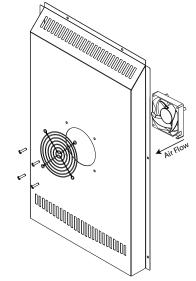
Should the evaporator fan need to be replaced follow the steps below.

- 1. Remove any product from the unit.
- 2. Remove unit from cabinetry to access rear.
- 3. Disconnect power to the unit.
- 4. Remove back panel from unit.
- 5. Disconnect fan electrical connection at rear of unit.

- 6. Remove insulating foam from refrigerant line passthrough hole as needed to gain clearance for fan plug.
- 7. Remove internal shelving.
- 8. Remove 8 evaporator cover screws.



- 9. Grasp evaporator cover, pull forward and up as bottom of cover is installed behind the front edge of the drain trough.
- 10. While pulling the evaporator cover clear of the unit, it may be necessary to use your free hand to manipulate the fan plug end through the pass-through hole.
- 11. Remove the 4 screws mounting the fan shroud to the evaporator plate.



12. Remove and replace fan. Take special care to properly route fan wire.



NOTICE

Fan must be oriented to pull air in through lower evaporator cover vents and push air out at fan mounting location.

- 13. Installation is the reverse of removal.
- 14. Care must be taken to assure the bottom of the evaporator cover is reinstalled behind the front edge of the train trough.
- 15. Use sealant gum to seal any openings at rear of unit before replacing rear cover.
- 16. Reinstall unit taking care to level, space and secure as found.

U-Line Corporation (U-Line) Limited Warranty

One Year Limited Warranty

For one year from the date of original purchase, this U-Line product warranty covers all parts and labor to repair or replace any part of the product that proves to be defective in materials or workmanship. For products installed and used for normal residential use, material cosmetic defects are included in this warranty, with coverage limited to 60 days from the date of original purchase. All service provided by U-Line under the above warranty must be performed by U-Line factory authorized service, unless otherwise specified by U-Line. Service provided during normal business hours.

Available Second Year Limited Warranty

Beyond the standard one year warranty outlined above, U-Line offers an extension of the one year warranty coverage for an additional second year from the date of purchase, free of charge. To take advantage of this second year warranty, you must register your product with U-Line within two months from the date of purchase at u-line.com providing proof of purchase.

Five Year Sealed System Limited Warranty

For five years from the date of original purchase, U-Line will repair or replace the following parts, labor not included, that prove to be defective in materials or workmanship: compressor, condenser, evaporator, drier, and all connecting tubing. All service provided by U-Line under the above warranty must be performed by U-Line factory authorized service, unless otherwise specified by U-Line. Service provided during normal business hours.

Terms

These warranties apply only to products installed in any one of the fifty states of the United States, the District of Columbia, or the ten provinces of Canada. The warranties do not cover any parts or labor to correct any defect caused by negligence, accident or improper use, maintenance, installation, service, repair, acts of God, fire, flood or other natural disasters. The product must be installed, operated, and maintained in accordance with the U-Line User Guide.

The remedies described above for each warranty are the only ones that U-Line will provide, either under these warranties or under any warranty arising by operation of law. U-Line will not be responsible for any consequential or incidental damages arising from the breach of these warranties or any other warranty, whether express, implied, or statutory. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. These warranties give you specific legal rights, and you may also have other rights which vary from state to state.

Any warranty that may be implied in connection with your purchase or use of the product, including any warranty of merchantability or any warranty fit for a particular purpose is limited to the duration of these warranties, and only extends to five years in duration for the parts described in the section related to the five year limited warranty above. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

- The warranties only apply to the original purchaser and are non-transferable.
- The second year and five year warranties cover products installed and used for normal residential or designated marine use only.
- 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.
- The start of U-Line's obligation is limited to four years after the shipment date from U-Line.
- In-home instruction on how to use your product is not covered by these warranties.
- Food, beverage, and medicine loss are not covered by these warranties.
- If the product is located in an area where U-Line factory authorized service is not available, you may be responsible for a trip charge or you may be required to bring the product to a U-Line factory authorized service location at your own 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
- Signal issues related to Wi-Fi connectivity are not covered by these warranties.

For parts and service assistance, or to find U-Line factory authorized service near you, contact U-Line: 8900 N. 55th Street, Milwaukee, WI 53223 • u-line.com • onlineservice@u-line.com • +1.800.779.2547

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