



# G5 INSTALLATION & OPERATION MANUAL



**Intertek**

*\*Commercial UC series models only.*



Form No. Z3023  
Rev. 07.13.26



# IMPORTANT

## CUSTOMER INSTALLATION REVIEW CHECKLIST

**IMPORTANT: TO ENSURE A SAFE AND PROPER INSTALLATION,  
REVIEW BELOW ITEMS DIRECTLY WITH INSTALLER.**

- ▶ Has all shipping tape, string and packing been removed?
- ▶ Has the unit been secured in place with the provided anti-tip bracket or is the unit 1" or less from a solid soffit?
- ▶ Are all levelers (15" and 24" qty. 4) extended down to make contact with the floor?
- ▶ Is the unit level?
- ▶ Is the power cord connected directly into a properly grounded 3-prong outlet in accordance with all applicable local codes?
- ▶ Has all stainless paper been removed?
- ▶ Are the panel(s) (wood overlays if used) attached securely and properly aligned?
- ▶ Have all the product accessories been installed?
- ▶ Has the unit been registered on our web site at [www.perlick.com](http://www.perlick.com)? Click on "Residential" or "Commercial", then "Resources". Click on the link "Warranty and Support". You must complete and submit this form or the installation date will revert back to the ship date.
- ▶ Have the stainless steel door(s) been inspected for imperfections?  
NOTE: This is to be completed by the dealer/installer with the customer at installation completion.
- ▶ Has the time and date been set on the control?

**ONCE CHECKLIST IS COMPLETE, ALLOW THE UNIT TO OPERATE FOR AT LEAST 24 HOURS  
BEFORE LOADING PRODUCTS OR ADJUSTING TEMPERATURE SETTINGS.**



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## GENERAL INFORMATION

### Introduction

Congratulations on your purchase of a Perlick undercounter product. This manual has been prepared to assist you in the installation of your cabinet and to acquaint you with its operation and maintenance.

We dedicate considerable time to ensure that our products provide the highest level of customer satisfaction. If service is required, your dealer can provide you with a list of qualified service agents. For your own protection, never return merchandise for credit without our approval.

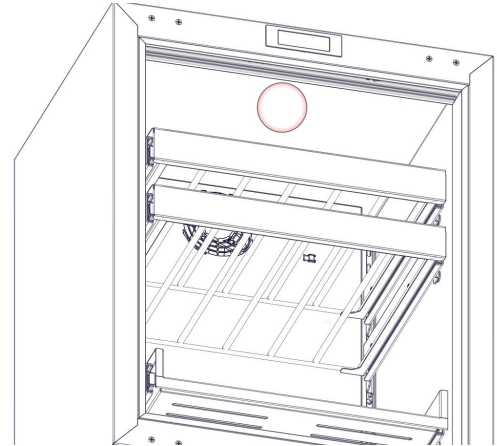
We thank you for selecting a Perlick product and assure you of our continuing interest in your satisfaction.

### Warranty

**Improper installation of this product may void warranty. Please review this manual for recommended installation. All warranty service will need to be performed by a Perlick-authorized service agent utilizing OEM parts.**

To register your product, visit our web site at [www.perlick.com](http://www.perlick.com). Click on "Residential" or "Commercial", then "Resources". Click on the link "Warranty and Support". You must complete and submit this form or the installation date will revert back to the ship date.

Please record the purchase date and the dealer's name, address and telephone number below.



Serial Number is located on the inside nameplate on top center of the cabinet.

Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Dealer Name & Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

## SAFETY

PLEASE READ all instructions completely before attempting to install or operate the unit. Take particular note of the DANGER, WARNING, and CAUTION information in the manual. The information is important for the safe and efficient installation, operation and care of your Perlick unit.



**DANGER** Indicates a hazard that **WILL** result in serious injury or

death if precautions are not followed.



**WARNING** Indicates a hazard **MAY** cause serious injury or death if precautions are not followed.



**CAUTION** Indicates a hazard where minor injury or product



**IMPORTANT!**

Read and understand all information in this manual before attempting the installation. All plumbing and electrical work must be performed by a qualified technician and conform to all applicable state and local codes.

Keep hands away from pinch points on the equipment. For example, any area around the door hinges. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

damage may occur if precautions are not followed.

**NOTICE**

Indicates property damage MAY occur if warnings or instructions are not followed.



The GHS pictogram diamond symbol indicates this product contains a flammable gas.

This symbol is used within this manual and labels on the appliance.



The red flame triangle symbol indicates this product contains a flammable gas. This symbol is used within this manual and labels on the appliance.

**Refrigerant**



**CAUTION**

This product contains a flammable refrigerant,

R600a (Isobutane). The appliance shall be installed in accordance with the safety standard for refrigeration systems, ANSI/ASHRAE 15. All local, state, provincial, and federal laws must be followed for installation, handling, servicing, and disposal of the appliance.

R600a (isobutane) is a flammable refrigerant and hydrocarbon. This product has been designed to operate safely with R600a and is certified to safety standards UL/CSA 60335-1, UL/CSA 60335-2-24, and UL/CSA 60335-2-89.

- R600a is heavier than air. The concentration will always be highest at the floor level.
- The explosion limits are as follows:
  - Lower Limit: 1.8% by volume
  - Upper Limit: 8.4% by volume
  - Ignition Temperature: 460°C

**DANGER**

Take caution when handling, moving and using the product to avoid damaging the refrigerant tubing or increasing the risk of a leak.



**WARNING**

Only service personnel that have the proper qualifications and training to safely work with **flammable refrigerants** and electricity should attempt to maintain, service, or repair the refrigeration and electrical system of this appliance. This includes but is not limited to breaking into the refrigeration circuit, opening of covers and enclosures, and service or repair any components of the electrical system.



**WARNING**

If service is necessary, it is recommended that repair work is performed by a Perlick authorized servicer. Work done by unqualified individuals could potentially be dangerous and will void the warranty.

**NOTICE**

This product contains blown foam insulation using blowing agent R611 (Methyl Formate). The foam in this product does not contain HFC's, CFC's, or HCFC's.



**CAUTION**

This product uses R611 as a blowing agent for the foam insulation. R611 is mildly flammable. All local, state, provincial, and federal regulations must be followed when disposing of the appliance.



**WARNING: California Prop 65 Notice**

These products may expose you to chemicals including Chromium, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information on whether a product in this list contains these chemicals, please refer to the specific product page at perlick.com. Or to find out more about Prop 65, go to [P65Warnings.ca.gov](http://P65Warnings.ca.gov).



## INSTALLATION PREPARATION

### Environmental Operation

Coastal grade units are recommended for installations within 1 mile of the coast, but also up to 5 miles of the coast depending on local conditions. Coastal grade units are recommended if installed near a pool but are needed if installed near an indoor pool. Use of non-coastal grade unit may impact performance and may void warranty.

| Application               | Freezer         | Refrigerator/Beverage | Wine                            |
|---------------------------|-----------------|-----------------------|---------------------------------|
| Lower Ambient Temperature | 32 °F<br>0 °C   | 38 °F<br>3 °C         | 42 °F<br>5°C or below set point |
| Upper Ambient Temperature | 105 °F<br>41 °C | 105 °F<br>41 °C       | 105 °F<br>41 °C                 |

**NOTE:** When environmental temperatures are below the lower ambient temperature limit reference Winterization in Maintenance section to prepare unit for winter storage. Once temperatures are above the lower ambient temperature limit, then reference the Spring Start-Up in Maintenance section.

Use outside of these conditions will have significant impact to performance, risk damaging the equipment, and may void warranty.

**NOTE:** Glass door units may sweat in conditions with relative humidity exceeding 75%.

This product identification label is marked as climatic class 5. This product has been tested in test room conditions of an ambient of 109° F (43° C).

### Space Requirements

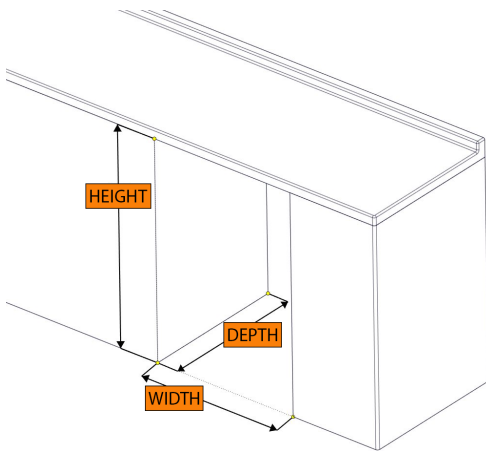
To ensure maximum performance, fresh air must be allowed to circulate through the machinery compartment. Do not place anything in front of the cabinet that would obstruct air flow at the grill. Do not place the unit in an unventilated small room.

**NOTICE** If the unit is installed under a countertop, it is recommended that the countertop be supported by surrounding cabinetry and use shims to support countertop directly above the refrigerated cabinet.

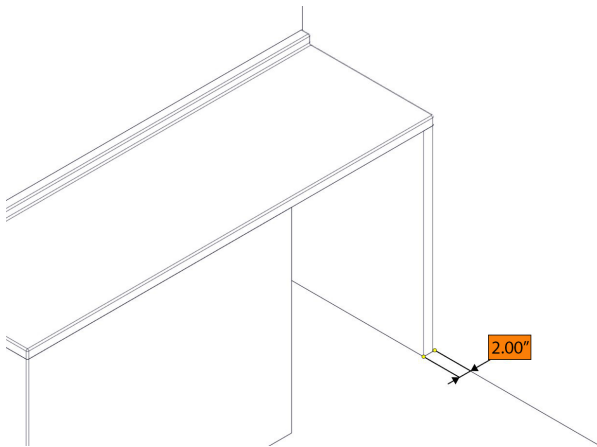
**NOTICE** Make sure the floor under the unit is level with the surrounding finished floor. Protect a finished floor with plywood, cardboard, or some other suitable material before moving the unit into place. Failure to do this may result in damage to the floor.

**NOTE:** Make sure the space opening is correctly sized for the unit. See chart below for finished rough opening requirements:

| 15" Standard Height                |       |       |
|------------------------------------|-------|-------|
| Height                             | Depth | Width |
| 34-7/8" minimum<br>35-1/2" maximum | 24"   | 15"   |
| 24" Standard Height                |       |       |
| Height                             | Depth | Width |
| 34-7/8" minimum<br>35-1/2" maximum | 24"   | 24"   |
| 24" Shallow Depth                  |       |       |
| Height                             | Depth | Width |
| 32-1/2"                            | 18"   | 24"   |
| 24" ADA-Compliant Series           |       |       |
| Height                             | Depth | Width |
| 32-1/2"                            | 24"   | 24"   |

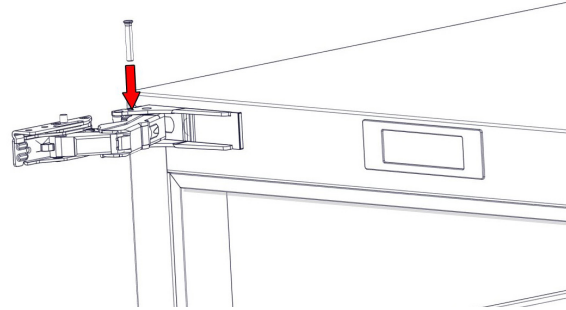


**NOTE:** For a cabinet door to open properly, the door must open a minimum of 90°. Use a minimum 2" filler in corner installations to assure a full 90° opening. Allow 25" clearance in front of unit for full door swing and shelf/drawer pull out for all units.



Perlick doors open to 115°. When installing a panel thicker than  $\frac{3}{4}$ ", or if located next to adjacent wall, the 90° hinge stop pin may be required to prevent damage to the unit and adjacent cabinetry/walls. This hinge pin must be installed prior to full integration.

1. Remove the cabinet hinge trim cover.
2. Open cabinet door approximately 45° to 85° to expose the hinge pin hole under hinge guard. Install the hinge pin into hole. Ensure hinge pin is fully seated to top of hinge to prevent damage to hinge guard.
3. Reattach the cabinet hinge trim piece.



Check that the following are level and square:

- Front and interior opening
- Installation opening and floor surface
- Countertop bottom front edge

**NOTE:** The floor under the unit must be at the same level as the surrounding finished floor.

### NOTICE

To prevent possible damage to the countertop, do not place heavy objects on countertop directly over unit.

### Plumbing Requirements

No plumbing connections are required. Condensate from the cooling coil is automatically evaporated through a condensate pan located in the condensing section of the unit.

### Electrical Requirements

For specifications, see data plate located on the cabinet.

**⚠ WARNING** Electrical work must be performed by a qualified technician and conform to all applicable state and local codes.

**⚠ WARNING** Inspect the electrical cord and plug for damage prior to energizing the unit to avoid potential electric shock. If the power supply cord is damaged, it must be replaced by a qualified service agent and with an OEM replacement power supply cord.

**⚠ WARNING** Use electrical grounding to avoid electrocution or electric shock. This appliance is equipped with a 3-prong (grounding) polarized plug for your protection against possible shock hazards. Never use an extension cord to connect the unit to the electrical source. Do not use a two-prong adapter or remove the power cord ground prong. Failure to use grounding may result in death, serious injury, or property damage. Failure to use grounding will void warranty.



**NOTE:** For best operations, it is not recommended to use a Ground Fault Circuit Interrupter (GFCI) or Arc-Fault Circuit Interrupter (AFCI) for indoor use, follow local codes. Outdoor use reference local codes on GFCI and AFCI use.

Electrical Supply 115 V-AC, 60Hz

Service 15 amp dedicated circuit

Receptacle 3-Prong, Grounded Nema 5-15 R

### Uncrating and Inspection

Upon receipt of the unit, inspect packaging for damage. If any damage is found, contact the freight company associated with shipping your product. If no visible damage is found, remove all packing material and carefully inspect for hidden damage. If damage is discovered, file your claim immediately with local dealer or distributor. Perlick is not responsible for damage in transit. Reference FOB policy

**WARNING** Do not use or store flammable liquids (ie; gasoline) or vapors near the appliance to avoid fire.

**WARNING** Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

**WARNING** To prevent personal injury, a minimum of two people are required to lift the unit. Larger units may require additional personnel.

**CAUTION** Do not lift unit by drawer, shelving or door handles, as damage to the unit could occur if not moved as instructed.

**NOTICE** When moving the unit, be sure to protect finished flooring with appropriate material to avoid damage from moving the unit.

**NOTE:** Before moving the unit, secure the door shut with tape to prevent door from swinging open while being moved. Carefully move unit to installation site and place in front of opening.

**NOTICE** Fully retract the legs prior to moving to prevent damaging the unit or floor.

**NOTICE** If unit has been tilted past 45 degrees or laid on its back or sides, place unit upright and allow a minimum of 24 hours before connecting power. Failure to

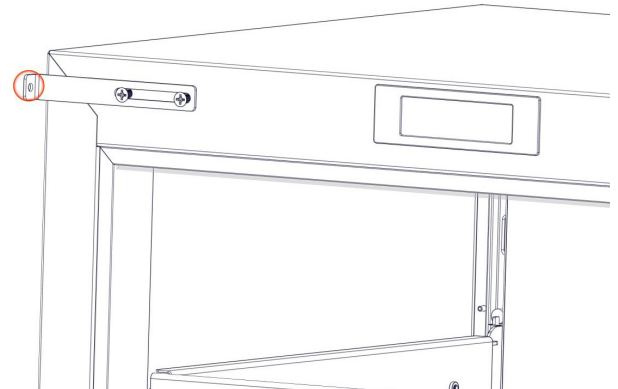
follow this procedure may damage the compressor and void the warranty.

### Anti Tip Installation

An anti-tip bracket is included with the unit and must be installed after the unit is installed and leveled. The anti-tip bracket must be attached to the front of the unit.

To install the anti-tip bracket:

1. Remove plastic inserts from unused hinge bracket holes.
2. Loosely attach the bracket to the front of the unit using the supplied screws.
3. Slide the bracket until it contacts the adjacent under counter unit.
4. Secure the bracket to the adjacent unit using appropriate fasteners (not supplied by Perlick). **NOTE:** The type of fastener used to attach the anti-tip bracket is dependent on the material the adjacent undercounter unit.
5. Fully tighten the screws securing the bracket to the front of the undercounter.



For free-standing units an anti-tip bracket is supplied with the unit.

**NOTICE** If installing on a concrete floor, concrete fasteners are required and not included with the anti-tip kit.

**NOTICE** Some installation sites may require modifications to provide a secure surface for attaching the brackets.

### Overlay Installation and Door Orientation

#### Overlay Installation and Removal

Before beginning installation, check all components for proper fit and finish.

Wood Overlay

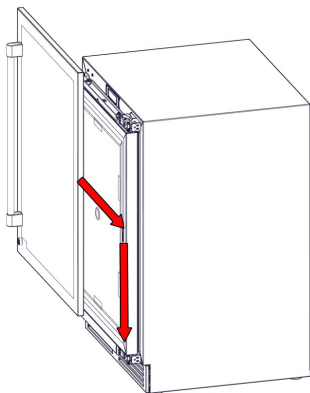


Build the overlay per the overlay template, can be found on [www.perlick.com](http://www.perlick.com). The shoulder bolt must be attached to the wood overlay prior to installation. Handle should be installed to the overlay prior to installing overlay to the door.

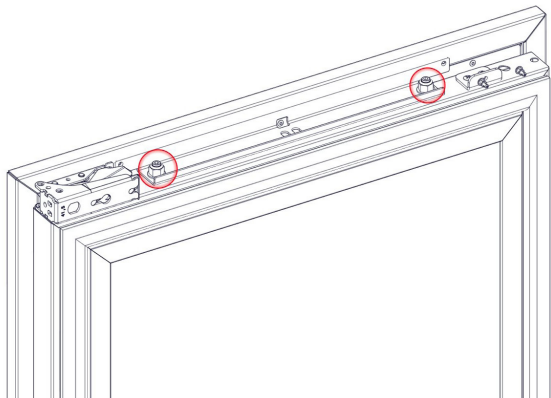
**NOTE:** When installing handle(s) in wood overlay(s), use countersunk flathead fasteners.

**⚠ CAUTION** For best performance and functionality, the overlay panels should be no more than 3/4" thick. The weight of the overlays should not exceed 20 lbs for solid (-2) doors, 10 lbs for glass (-4) doors, or 10 lbs for each drawer (-6) models.

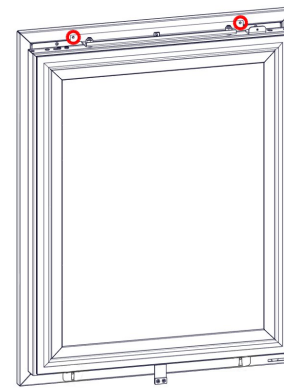
1. Lift door overlay up against the door.
2. Align shoulder bolt on the overlay to the top of the slot in the door.
3. Once the shoulder bolts are aligned, push the overlay against the door. Then slide the door down until the shoulder bolts slide to the bottom of the slots.



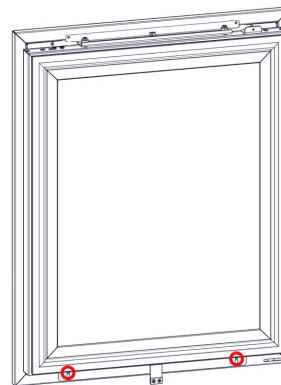
4. Loosen both M8 nuts on top of the door, allowing for easier adjustment when attaching overlay.



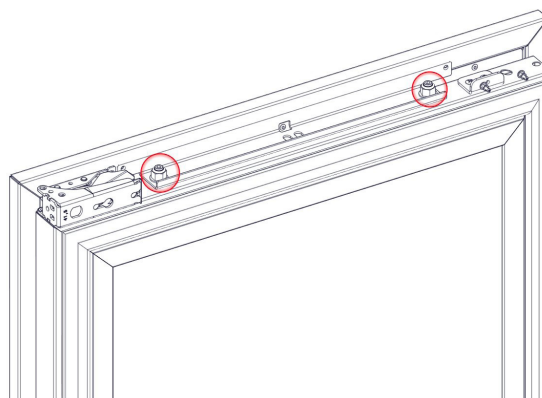
5. Secure the top of the overlay to the door using appropriate screws, if a Perlick branded overlay was used, then screws will be in the overlay box. Ensure the screws are tightened fully.



6. Attach the appropriate screws to the lower holes of the overlay, DO NOT fully tighten the screws yet.



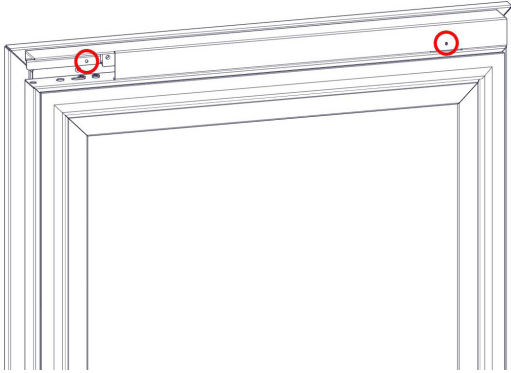
7. Level the overlay by adjusting standoffs in the top bracket with a 4 mm allen key, can use leveling leg tool. Adjust overlay depth so overlay is tight to door and then tighten both M8 nuts on top of door. Then tighten bottom screws fully.



8. Install the hinge cover bracket by sliding cover over the upper tilt support bracket. The cover bracket should slide over and behind

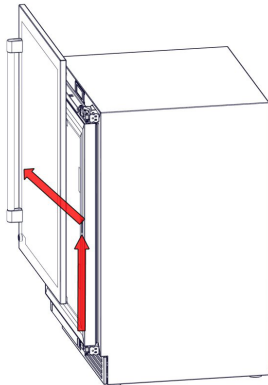


the hinge. Align holes on the hinge and hinge cover, then secure the cover bracket to the hinge with the supplied #8 32×1/4 screw. Finally secure the handle side of the hinge cover with the supplied grey push rivet.



Uninstallation of the overlay is done using the reverse order of the installation instructions.

**NOTE:** Once screws are removed from the tilt support brackets, **slide the overlay up** so the shoulder bolts can clear the slot.



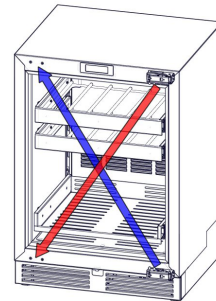
### Hinge Direction

**NOTE:** An additional person is recommended to hold and align the door.

1. Uninstall Overlay.
2. Close the cabinet door.
3. With the help of another person holding the door, remove the bottom screws from the bottom hinge to the door.
4. While holding the door, remove the top screws from the top hinge.



5. Gently set door to the side to avoid damaging the door.
6. Use a Phillips Screwdriver to remove the top and bottom hinge from the unit.
7. Cross the hinge location when changing hinge direction:
  - a. Reattach the top hinge to the bottom corner.
  - b. Reattach the bottom hinge to the top corner.



8. Lift door up against the unit. Secure the top and bottom hinge brackets to the hinges with screws.

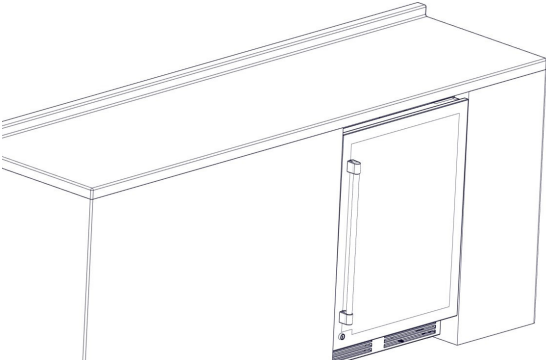




## INSTALLATION

### Placing Unit

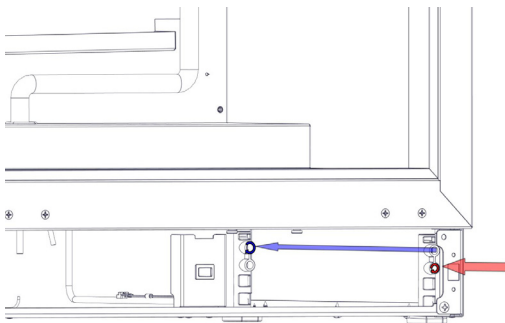
- Prior to sliding the unit into location, plug in the unit in.
- Slide the unit into position in the opening.
- Push the unit into the opening until the bottom front edge of the unit is flush with the surrounding cabinetry.



### Leveling Unit

Front and rear leveling legs can be adjusted from the front once the unit is positioned. Remove the grill to access leveling adjustment access holes.

Once the unit is in position, any height adjustment can be made from the front. Using the hex driver leveling tool, turn the hex driver clockwise to raise the unit or counterclockwise to lower.



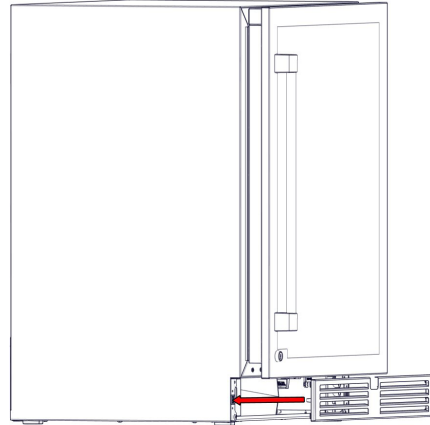
When the unit is properly leveled, door adjustments are less likely to be necessary.

**CAUTION** Level the unit to the floor, not to the surrounding cabinetry. This could affect the operation of the unit, such as door closing.

**WARNING** To reduce the possibility of the unit tipping forward, the front leveling legs must be in contact with the floor.

### Front Grill Installation

Once the unit is secured in place, install the louvered front grill. Secure the plate by snapping the latch into the latch catch on the unit.



### NOTICE

This unit requires proper ventilation to operate correctly.

Do not block the louvers on the front grill or place product directly in front of the evaporator fan motor and evaporator cover louvers. Obstructed ventilation can lead to poor performance and compressor damage.

### Shelving and Drawer

#### Shelf and Drawer Weight Limits

| Style                   | Load Limit |
|-------------------------|------------|
| Wine Rack               | 70 lbs     |
| Wire Form Shelf         | 70 lbs     |
| Premium Stainless Steel | 70 lbs     |
| Drawer                  | 75 lbs     |

### NOTICE

If shelf or drawer is overloaded, it may cause damage to the undercounter.

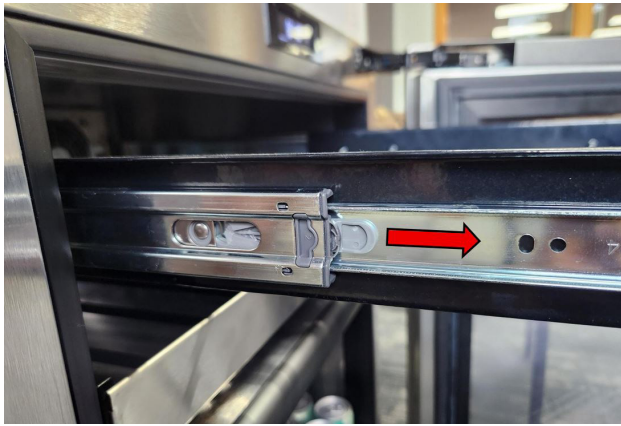
### Shelving Installation and Adjustment

**NOTE:** Improper shelf/drawer installation may not actuate slide mechanism.

### CAUTION

Completely empty shelf or drawer before removing.

1. Pull the shelf out to its furthest position. Locate the tabs in the middle of both extenders. Pull both tabs toward yourself, and pull shelf out.



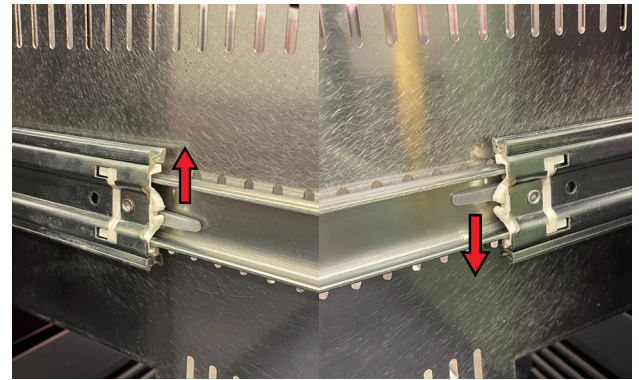
2. Remove each shelf bracket separately. Grasp the middle of the bracket, lift the back up, then pull forward to remove.



3. Position each shelf bracket separately. Grasp the middle of the bracket, lift the back up, then pull forward to remove.
4. Repeat steps 1 through 3 for other brackets.
5. Push extenders completely into brackets. Align the shelf/drawer grooves with the extenders and slide completely into the unit.

### Drawer Removal and Installation

**Removal:** Pull the drawer out to its furthest position. Locate the tabs in the middle of both extenders. Lift one tab up while pushing the opposite tab down, and pull drawer out.



**Installation:** Push extenders completely into brackets. Align the shelf/drawer grooves with the extenders and slide completely into the unit.

### Power Unit On

Once the unit is installed and level, verify the master switch behind the front grill is in the on position. Follow the instructions to set the date, time, and temperature are in the Display Operation section.

### Loading Product

Before storing any product, power unit on and allow it to operate for 24 hours to allow temperatures to stabilize. When loading product into the unit, do not block internal louvers and fan guard openings or performance will be decreased.

## CONTROLS

### Display Icon Definitions and Operations



Increase Icon



Decrease Icon



Confirm Icon



Cancel Icon



Return Icon



Display Lock Icon



Power Icon



Sabbath Mode Icon



## CONTROLS (CONT.)

|                                                                                    |                                                                                   |                             |                                                                                    |                            |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|----------------------------|
|   |  | Button Sound Icon           |  | Alarm History Icon         |
|   |  | Display Light Icon          |  | Trash Icon                 |
|   |                                                                                   | Display Lighting Color Icon |  | Evaporator Defrost Icon    |
|   |                                                                                   | Service Menu Icon           |  | Cabinet Defrost Icon       |
|   |                                                                                   | Humidity Setpoint Icon      |  | Diagnostics Icon           |
|   |                                                                                   | Unit of Measurement Icon    |  | Time Date Icon             |
|   |                                                                                   | Quick Cool Icon             |   | Showroom Display Mode Icon |
|  |                                                                                   | Active Alarm Icon           |  |                            |

### Main Screen Icons

|                      |                           |                                                                                       |
|----------------------|---------------------------|---------------------------------------------------------------------------------------|
| Main Screen          | Screen when door opens    |  |
| Screen 2             | Swipe right from main     |  |
| Screen 3             | Swipe right from screen 2 |  |
| Screen 4             | Swipe right from screen 3 |  |
| Service Menu Screens | Inside of selected menu   |  |
|                      |                           |  |

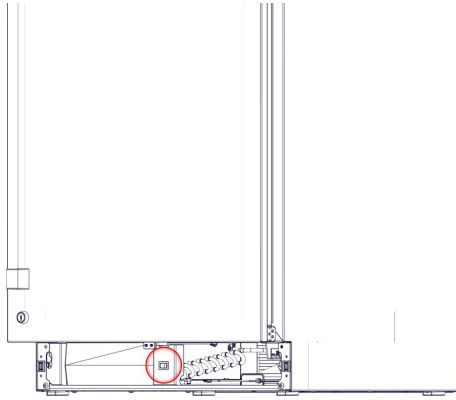
**Disclaimer:** Screen layouts may vary by model. Not all icons are available on every unit. The screen layout shown may differ from your actual product depending on the model purchased.



## Controller Operation

### Master Switch

Under Counter units come equipped with a master power switch located behind the louvered toe kick. Remove the toe kick to turn power on or off to the unit. Pull on each side of the toe kick to remove.



### Display

The display will turn on once the door is opened. The display will remain on for 30 seconds after the door is closed.

### Standby/Power Off Mode

To place unit into standby mode, tap the power  icon on display and activate standby mode. Then confirm that you want to turn off unit. In standby mode, the unit still has power going to all components. Do not attempt repairs/service when in standby mode.

### Interior Light

Under Counter units are equipped with an interior light that will illuminate when the door/drawer is opened. When unit is open the LED will turn to a cool white color.

All glass door units have color LED ambiance light for when door is closed. To enable or disable the display light, swipe display till the display light icon, . A greyed out light icon will indicate interior lights are disabled. LED light can be changed, to access color menu swipe display to the  icon and select the icon. Once in the color adjustment menu change to desired color. Desired color only displays when the door is closed.

### Quick Cool

The Quick Cool feature accelerates cooling cycle to bring cabinet to temperature, useful for after loading products. Quick Cool automatically activates after initial power up. To activate Quick Cool, select the  icon. Quick Cool will terminate automatically once the setpoint is achieved or when the icon is selected a second time to disable quick cool.

### Display Lock

The Display Lock prevents settings from being adjusted when activated. While the display is locked, you can swipe through screens, activate quick cool, and silence alarms. To activate the Display Lock, select the  icon. Will be prompted to confirm enabling the lock screen. To unlock the screen, hold the Display Lock icon for 3 seconds. A greyed out icon will indicate the display lock is disabled.

### Sabbath Mode

To activate Sabbath Mode, select the  icon. A greyed out icon indicates the unit is not in Sabbath Mode. There will be a prompt to confirm activation of Sabbath Mode. Once Sabbath Mode is activated, the display will not power on. To reactivate, hold finger in the center of the display for 10 seconds to power on the display. Then tap on the  icon to deactivate Sabbath Mode.

### Display Button Sound

The Display Button Sound Icon enables and disables the sound when interacting with the display. To disable sound, swipe display menu until the  icon is visible. Select the  icon, the user will be prompted to confirm disabling sound. A greyed out display button sound icon indicates the sound for display buttons is disabled. Alarms will still sound when display button sound is disabled.

### Select Unit of Measurement for Display Temperature

To alternate between Fahrenheit and Celsius, find the unit of measurement (UoM) icon. Then select the  or  icon until desired UoM is selected.



## Defrost Operation

### Manual Evaporator Defrost

The under counter unit is designed to complete automatic defrost on its own. The standard defrost operation is intended to assist in maintaining and servicing the unit. Swipe the display to the standard defrost icon, then select the  icon. The user will then be prompted to confirm the start of a defrost. After completion of a standard defrost the automatic defrost will resume.

**NOTE:** If the evaporator is too warm, or in quick cool mode, then unit will not initiate the defrost.

### Cabinet Defrost

The Cabinet Defrost completes an extended 6 hour defrost. The end user will initiate manual defrost after every shift to prevent excessive ice build up on the coils. Swipe the display until you are at the manual defrost icon, then select the  icon. The user will then be prompted to confirm the start of the manual defrost. After completion of a standard defrost the automatic defrost will resume.

**NOTE:** Only available on the UCC24F and UCA24F models

**NOTICE** Cabinet Defrost is a 6 hour defrost. Any ice or perishable items will melt or reach temperatures upwards of 60F. Unit is not intended to store ice and perishables outside of operational hours.

### Return from Sub Menu

To return to the previous screen, select the  icon.

## Changing Temperature

### Single Zone

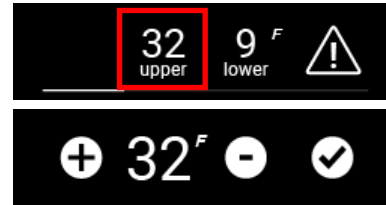
To change the temperature select the displayed temperature on the screen. Then increase or decrease the temperature as desired. Once temperature is at desired set point click the confirm icon, .



### Dual Zone

On a dual zone unit there are two temperatures displayed on the screen. To change the

temperature, select the temperature desired to be changed. Then increase or decrease the temperature to a new set point and select confirm icon. To change the other set point, select the display temperature and increase or decrease to a new set point then select confirm icon. The upper compartment temperature should be set at least 7°F higher than the lower compartment.



## Time and Date

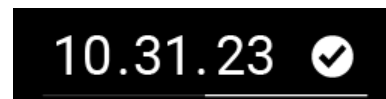
The date and time must be set for the unit upon installation. All alarms will be time stamped based on the set date and time. To set the date and time select the Service Menu Icon . Then select the Time and Date icon .

Time and Date will be preserved in the event of a power loss. If an extended power loss occurred, then verify the date and time are set correctly. To change the date and time see below:

- To change the time, hour then increase or decrease as needed, select confirm icon once at correct hour. Select the minutes, increase or decrease to correct minute, select confirm. Change between AM and PM by selecting the "A" or "P" icon.

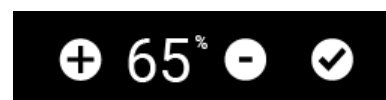


- To change the date, swipe right to access the date menu. Select month and change to correct number and confirm. Repeat with the day and year for the date, then select confirm icon when whole date is correct.



## Changing Humidity Percentage

The humidity percentage adjustment is only available on wine units. To change the humidity percentage, select the Humidity Percentage icon . Increase or decrease the humidity to preferred humidity percentage, then select the confirm icon.



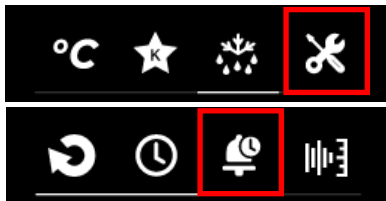


## Alarm History

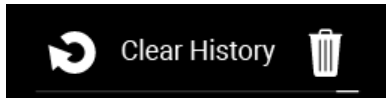
To access the alarm history, select either the Active Alarm icon, or select the Service Menu icon, then select the Alarm History icon. Once inside the menu, swipe left and right to review all the stored alarms, the alarms will be date and time stamped. The alarm history stores up to ten past alarms.



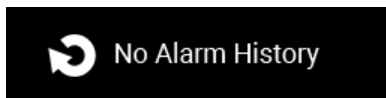
Or



- To clear all alarm history, swipe to the Clear History screen. Select the clear history icon. A prompt will appear to confirm clearing history.



- If no stored alarms exist, the "No Alarm History" prompt will appear.



## Show Room Mode

Showroom mode is intended for units that are being used solely for display purposes. Showroom mode has the user interface fully functional along with the cabinet lights, however, no compressor, evaporator fans or condenser fans will operate.

To enter show room mode, select the Service Menu icon and swipe right on screen. Then select the show room icon. Once selected, the user will be prompted to confirm enabling show room mode. A greyed out icon indicates show room mode is disabled.



## Diagnostic Window

To access the diagnostic window, first select the service menu icon. Then select the Diagnostic Window icon to open the display. The diagnostic display window is useful whenever submitting a service ticket for remote diagnostics.



|              |           |               |           |
|--------------|-----------|---------------|-----------|
| ZONE 1 TEMP  | [ 10] °F  | E. FAN OUTPUT | [ 100] %  |
| ZONE 2 TEMP  | [ 36] °F  | C. FAN OUTPUT | [ 60] %   |
| EVAP. TEMP   | [ -10] °F | DOOR SW 1     | [ CLOSED] |
| COND. TEMP   | [ 105] °F | DOOR SW 2     | [ OPEN ]  |
| HUMIDITY     | [ 50] %   | HOT GAS VLV.  | [ CLOSED] |
| COMP. OUTPUT | [ 75] %   | AIR DAMPERS   | [ CLOSED] |

Zone 1 Temp: For single zone is the cabinet temperature. If dual zone than the lower or colder section.

Zone 2 Temp: Only for dual zone units for the upper warmer zone.

Evap. Temp: Temperature at the evaporator inlet.

Cond Temp: Temperature of the outlet of the Condenser.

Humidity: On wine units, the humidity sensor is installed and will display the humidity percentage.

Comp. Output: Gives the percentage of max speed the variable speed compressor is running.

E. Fan Output: Percentage of max speed the fan is running on the evaporator.

C. Fan Output: Percentage of max speed the fans are running on the condenser.

Door SW 1: On single zone units, it identifies if the door is open (OPEN), or closed (CLOSED). For drawer units, it displays data on the lower drawer.

Door SW 2: Only on drawer units, it identifies if the top drawer is open or closed.

Hot Gas Vlv.: Only on low temperature units or dual zone units with a freezer section, this identifies if the hot gas solenoid valve is ON or OFF.

Air Dampers: Only for dual zone units, identifies if the damper is open or closed.



## MAINTENANCE AND CARE



**WARNING** Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.

### Cleaning the Condenser



**WARNING** Do not use means to accelerate the defrosting process or to clean the evaporator and/or condenser coil other than those recommended by the Perlick technical service team.



**CAUTION** Avoid damaging or crushing the condenser fins or tubing.

Every 30 days is recommended to clean the condenser for optimal performance.

1. Remove front grill.
2. Using a soft bristle brush or brush attachment on a vacuum, remove all dust and debris from the condenser.
3. Verify no fins are damaged or bent. Use a condenser comb to correct if any were bent.



**DANGER** Flammable Refrigerant. Risk of fire or explosion. Do not damage refrigeration tubes.



**CAUTION** Avoid damaging or crushing the condenser fins or tubing.



**WARNING** Do not use any electrical appliances inside the food storage compartments of the appliance.

### Seasonal Maintenance for Units Located Outdoor

#### Winterizing

1. This process should occur when the daily low temperatures are at or below environmental operation temperatures, seen in the Environment Operations Table.
2. Terminate power to the unit using one or more of the following options:
  - a. Turn the master switch located behind the grill off.
  - b. Unplug the power cord from electrical receptacle.
  - c. Turn off the circuit breaker to the electrical receptacle the cabinet is plugged into.

3. Remove all contents from the unit.
4. Remove the front grill.
5. Clean the condenser by using a vacuum cleaner to remove loose debris (leaves, dirt, etc.) that may have accumulated inside the grill.
6. Reinstall the front grill.
7. Clean the interior and exterior of the unit using stainless steel cleaner and polish.

### NOTICE

Do not place a cover over the unit. While not required, you may choose to remove the unit from the outdoor location and store indoors.

**CAUTION** Operating the unit at temperatures lower than those recommended will void the warranty.

### Spring Start-Up

This process should occur after the daily low temperatures are above the environmental operation temperatures, seen in the Environment Operations Table.

1. Remove the front grill.
2. Check the condensing unit to ensure it is clear of loose debris, and clean as necessary with a vacuum cleaner.
3. Reattach the front grill to the unit.
4. Clean the interior and exterior of the unit using stainless steel cleaner and polish.
5. Return power to the unit by:
  - a. Plug the unit into the electrical receptacle or turn on the circuit breaker.
  - b. Turn on the master switch located behind the grill. The controller display will then turn on.
6. The cooling process will begin to bring the unit to the set point temperature. It's recommended you run the unit for 24 hours to stabilize the operating temperature before using.



## **⚠ DANGER**

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

### **Led Replacement**

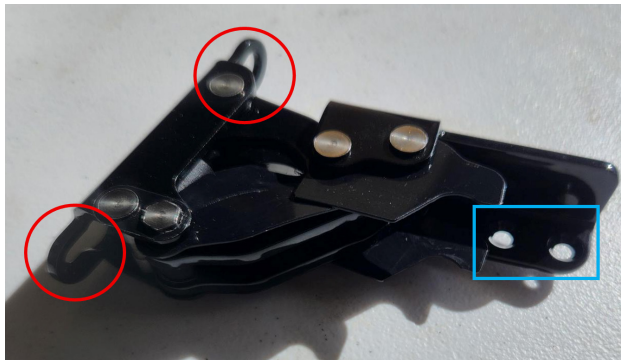
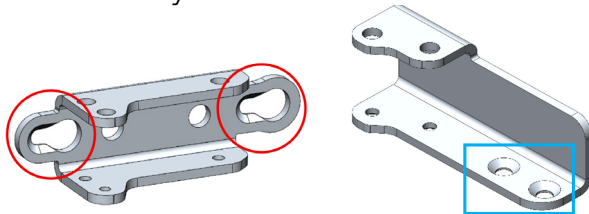
If an LED replacement is required, call your Perlick Factory Authorized Service Center. For the location of the Service Center in your area, contact your selling dealer, inquire via the web at [www.perlick.com](http://www.perlick.com), E-mail us at [warrantyserv@perlick.com](mailto:warrantyserv@perlick.com), or call 844-411-8050.

### **Commercial Hinge Removal and Cleaning (UC Models)**

1. Using a flat blade screwdriver remove the press rivet, red circle. Using a Phillips Head screwdriver remove screw from bracket to door, blue square.



2. Level the overlay by adjusting standoffs in the top bracket with a 4 mm allen key, can use leveling leg tool. Adjust overlay depth so overlay is tight to door and then tighten both M8 nuts on top of door. Then tighten bottom screws fully.



3. Use a 5/16 socket or wrench to disassemble the hinge and splash guard as shown.



4. Remove the spring cover from the hinge and disassemble as shown.



5. Use a damp rag and clean hinge parts under running water for three minutes.
6. To Re-install complete the steps in reverse



### Replace Finger Guards

1. Use a 5/16 socket or wrench to remove the hex pin and move the locking tab.



2. Remove the two short finger guards from the hinge.



3. Unclip the long finger guards from the bushing and remove from the pin.



### Install Finger Guards

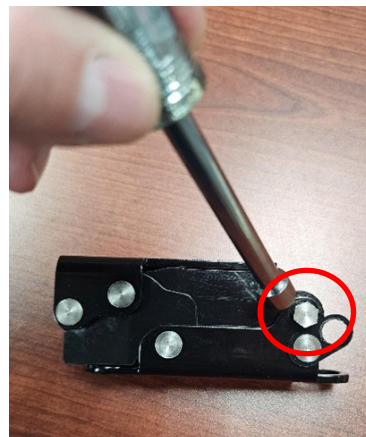
1. Install the two short finger guards onto the pins. NOTE: Make sure the leg is below the bushing flange so it is against the arm. Then rotate into place. Follow instructions for both short guards.



2. Slide the long guard under the short guard on the pin and clip the other end of guard over the bushing. Repeat for the bottom long arm.



3. With the hinge closed, align the arm and hinge and insert the pin. Tighten with a 5/16 socket or wrench.



4. Rotate locking tab and lock over the hex.



5. Test hinge several times to ensure it moves freely.





## Stainless Steel Care & Cleaning

### General

Stainless steel is a “passive” metal because it contains other metals like chromium, nickel and manganese that stabilize the atoms. Chromium provides an invisible passive film that covers the steel surface, acting as a shield against corrosion. If the film is intact and not contaminated, the metal is passive and stainless. If the passive film of stainless steel has been broken, equipment can start to corrode and rust.

The following materials or processes can break down stainless steel’s passive layers and allow corrosion to occur:

**Mechanical abrasion** refers to items that will scratch a steel surface. Steel pads, wire brushes and scrapers are prime examples.

**Water** comes out of the faucet in varying degrees of hardness. Hard water may leave spots. When allowed to sit, these deposits will break down the passive chromium layer and rust stainless steel. Other deposits from food preparation must be promptly removed with an appropriate cleaning agent.

**Chlorides** are found nearly everywhere. They are in water, food, and table salt. Household and industrial cleaners are the worst offenders.

### Preventing Stainless Steel Rust

Use non-abrasive tools to clean stainless steel products. Soft cloths and plastic scouring pads will not harm the steel’s passive layer.

Clean with polish lines. Some stainless steels have visible polishing lines or “grain”. When visible lines are present, always scrub in a motion parallel to the lines. When the grain cannot be seen, polish in a consistent straight pattern and not in a circular motion.

Use alkaline, alkaline chlorinated or non-chloride containing cleaners. While many traditional cleaners are loaded with chlorides, the industry is providing more options of non-chloride cleaners to consumers. If you are not sure of chloride content in the cleaner being used, contact your cleaner supplier. If your cleaner contains chlorides, ask your supplier for an alternative. Avoid cleaners containing quaternary salt; it also can attack stainless steel and cause pitting and rusting.

Keep food equipment clean. Use alkaline, alkaline chlorinated or non-chloride cleaners at

recommended strength. Clean frequently to avoid build-up of hard, stubborn stains. The single most likely cause of damage is chlorides in the water. Remember, adding heat to cleaners that contain chlorides dramatically increases their effect on stainless steel.

If chlorinated cleaners are used, immediately rinse and wipe equipment and supplies dry. The sooner you wipe standing water, especially when it contains cleaning agents, the better. After wiping equipment down, allow it to air dry. Oxygen helps maintain the stainless steel passive film.

### Cleaning the Cabinet Interior/Exterior

#### **NOTICE**

**NEVER use hydrochloric acid (muriatic acid) on stainless steel. Do not use abrasive cleansers or cloths on any interior or exterior surfaces or removable parts.**

Glass panels may be cleaned using any standard glass cleaner available on the market.

To clean interior and exterior non-metallic surfaces and removable parts, wash with mild solution of soap and lukewarm water with a little baking soda. Rinse and dry thoroughly. Avoid getting water on the lights, controllers, fan motors and unfinished wood wine rack faces.



| Job                                                                                                                                                                                                                                                                                                                                                            | Cleaning Agent                                                                                                                                                                                                                          | Comments                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Routine Cleaning                                                                                                                                                                                                                                                                                                                                               | Soap, ammonia, detergent                                                                                                                                                                                                                | Apply with sponge or soft cloth.                                                                                                      |
| Fingerprints and smears                                                                                                                                                                                                                                                                                                                                        | Areal 20, Lac-O-Nu, Lumin Wash, O-Cedar Cream Polish                                                                                                                                                                                    | Provides barrier film to minimize fingerprints. Can be used on all finishes. Rub the surface with a cloth as directed on the package. |
| Stubborn stains and discolorations                                                                                                                                                                                                                                                                                                                             | AllChem Concentrated Cleaner, Samae, Twinkle, Cameo Copper Cleaners, Grade FFF Italian Pumice Whiting, Steel Bright, Lumin Cleaner, Zud Restoro, Sta-Clean, Highlite Cooper's Stainless Steel Cleaner or Revere Stainless Steel Cleaner | Apply with a damp sponge or cloth, then rinse with clear water and wipe dry.                                                          |
|                                                                                                                                                                                                                                                                                                                                                                | Old Dutch, Lighthouse Sunbrite, Wyandotte Bab-O, Gold Dust, Sapollo, Bon Ami or Comet                                                                                                                                                   | For these household cleaners, rub with a damp cloth. They may contain chlorine bleaches so rinse thoroughly after use and wipe dry.   |
|                                                                                                                                                                                                                                                                                                                                                                | Liquid NuSteel or Dubois Temp                                                                                                                                                                                                           | For these products, rub the surface with a dry cloth using only a small amount of cleanser. Rinse with water and dry.                 |
| Heat tint or heavy discoloration                                                                                                                                                                                                                                                                                                                               | Penny-Brite, Copper Brite, Paste Nu-Steel, Dubois Temp or Tarnite                                                                                                                                                                       | Rub onto surface with a dry cloth.                                                                                                    |
| Tenacious deposits, rust, discoloration, industrial atmospheric stains                                                                                                                                                                                                                                                                                         | Bar Keepers Friend, Revere Stainless Steel                                                                                                                                                                                              | When using these cleaners, apply with a damp sponge or cloth, rinse thoroughly and wipe dry.                                          |
|                                                                                                                                                                                                                                                                                                                                                                | Oakite No. 33 Dilac, Texo NY, Flash-KlenzCaddy Cleaner, Turco Scale 4368 or Permag 57                                                                                                                                                   | Swab and soak with a clean cloth. Let stand for 15 minutes or more according to directions on package, then rinse and wipe dry.       |
| Rust discoloration or corrosion caused by cleaning agents containing hydrochloric (muriatic) acid or chlorine bleach                                                                                                                                                                                                                                           | 3M Scotch Pad, type A, grade "fine"                                                                                                                                                                                                     | Clean off the surface soil using cleaning methods above. Then rub discolored or corroded areas lightly with a dry pad.                |
| <p>Use of property names is intended only to indicate a type of cleaner and does not constitute an endorsement. Omission of any proprietary cleaner does not imply its inadequacy. All products should be used in strict accordance with instructions on the package.</p> <p><b>NOTE: Do NOT use steel wool or scouring pads to clean stainless steel.</b></p> |                                                                                                                                                                                                                                         |                                                                                                                                       |

**For Product Information:**

- Contact your selling dealer.
- Inquire via the web at [perlick.com](http://perlick.com)
- Call 844-411-8050 for factory assistance on planning installation or product information
- Write to Perlick Corporation, Customer Service Department, 8300 West Good Hope Road, Milwaukee, WI 53223



### For Product Service:

- Check the model and serial number of your unit located on the label attached to the inside top of the cabinet.
- Inquire via the web at [www.perlick.com](http://www.perlick.com)
- Call 844-411-8050 for factory assistance
- Email us at [warrantyserv@perlick.com](mailto:warrantyserv@perlick.com)

Authorized Service Center.

- Inquire via the web at [www.perlick.com](http://www.perlick.com)
- Call 844-411-8050 for factory assistance
- Email us at [warrantyserv@perlick.com](mailto:warrantyserv@perlick.com)

### Trouble Shooting

If the unit appears to be malfunctioning, read through the OPERATION section of this manual first. If the problem persists, check this trouble-shooting section to see if you can refer to the cause and remedy of the problem and resolve it without a service call.



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

### Alarms and Faults

| Error Code | Fault                                              | Resolution                                                                                                                                                                                                                                                              |
|------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UIX        | Display Communication Fault                        | Reset power to unit, either using rocker switch or breaker. If fault continues:<br><b>Call Service: +1 844-411-8050</b>                                                                                                                                                 |
| MEM        | MC Memory Fault                                    |                                                                                                                                                                                                                                                                         |
| TCX        | Extra High Condenser Temperature                   | <b>Call Service: +1 844-411-8050</b>                                                                                                                                                                                                                                    |
| TEX        | Evaporator temperature exceeds safe operation zone | <b>Call Service: +1 844-411-8050</b>                                                                                                                                                                                                                                    |
| TEY        | Extra Low Evaporator Temperature                   | Run a manual defrost for unit. If the alarm repeats within a week:<br><b>Call Service: +1 844-411-8050</b>                                                                                                                                                              |
| DO2        | Door Opening Long Period                           | Close the door and activate a defrost cycle.                                                                                                                                                                                                                            |
| P1F        | Zone 1 Probe Fault                                 | Acknowledge code. If the alarm repeats within a week:<br><b>Call Service: +1 844-411-8050</b>                                                                                                                                                                           |
| P2F        | Zone 2 Probe Fault                                 |                                                                                                                                                                                                                                                                         |
| PEF        | Evaporator Probe Fault                             |                                                                                                                                                                                                                                                                         |
| TCL        | Low Condenser Temperature                          | Verify ambient temperature was above set point of the unit, if below set point see winterizing unit instructions. Condenser fans could remain running, power cycle unit with rocker switch. If the alarm repeats within a week:<br><b>Call Service: +1 844-411-8050</b> |
| PWR        | Power Outage                                       | Verify that all temperature sensitive product did not spoil during power loss. Verify the correct date and time are entered in the date and time menu .                                                                                                                 |



|     |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| T1H | High Zone 1 Temperature     | <ul style="list-style-type: none"> <li>Verify door and gasket are fully sealing to fridge front.</li> <li>Check condenser coils for buildup and clean condenser coils per maintenance instructions.</li> <li>Ensure front grill is not blocked or obstructed.</li> <li>If surrounding ambient temperature has recently changed dramatically, the compartment may be affected.</li> <li>If warm product was recently placed in the cabinet. Wait 24 hours for the product to chill and then recheck the temperature.</li> </ul> <p>If the alarm repeats within a week:<br/><b>Call Service: +1 844-411-8050</b></p> |
| T2H | High Zone 2 Temperature     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| T1L | Low Zone 1 Temperature      | <p>Verify door and gasket are fully sealing to fridge front. If surrounding ambient temperature has recently changed dramatically, the compartment may be affected.</p> <p>If the alarm repeats within a week:<br/><b>Call Service: +1 844-411-8050</b></p>                                                                                                                                                                                                                                                                                                                                                        |
| T2L | Low Zone 2 Temperature      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| TCH | High Condenser Temperature  | <p>Clean condenser coils per maintenance instructions. If the alarm repeats within a week:<br/><b>Call Service: +1 844-411-8050</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| TEL | Low Evaporator Temperature  | <p>Activate a defrost cycle. Verify the door shuts properly, gasket seals fully, and product is not blocking the evaporator fan or louvered inlets. If the alarm repeats within a week :<b>Call Service: +1 844-411-8050</b></p>                                                                                                                                                                                                                                                                                                                                                                                   |
| DO1 | Door Opening Short Period   | Close the door.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PCF | Condenser Temperature Fault | <p>Acknowledge code. If the alarm repeats within a week:<b>Call Service: +1 844-411-8050</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PHF | Humidity Sensor Fault       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| FCF | Condenser Fan Fault         | <b>Call Service: +1 844-411-8050</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| FEF | Evaporator Fan Fault        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| F2F | Zone 2 Fan Fault            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## SERVICE AND REPAIRS

### Service

**⚠ WARNING** It is strongly recommended that all service work is performed by individuals that are trained on the specific equipment. To avoid risk of injury or death, individuals must be properly trained on the appropriate procedures for handling of flammable refrigerants and safely working with electricity. All component parts shall be replaced with like components. Incorrect parts or improper service may result in injury, damage to property, or fire. All warranty service will need to be performed by Perlick authorized service agent using only OEM parts.

For Product Service:

- Check the model and serial number of your unit located on the label attached to the inside top of the cabinet.
- Inquire via the web at [www.perlick.com](http://www.perlick.com)
- Call 844-411-8050 for factory assistance
- Email us at [warrantyserv@perlick.com](mailto:warrantyserv@perlick.com)

### Repairs

**⚠ WARNING** Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. Proper ventilation must be present during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.



**⚠ WARNING** When performing any service or repair work, all wiring and cabling should be inspected to ensure that it will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges, or any other adverse environmental effects. This inspection shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

#### Leak Detection of Flammable Refrigerants

**⚠ DANGER** Under no circumstances shall a potential sources of ignition be used in searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

The following leak detection methods are permissible with **flammable refrigerants**:

- Electronic leak detectors that have adequate sensitivity and are calibrated. Ensure the electronic leak detector is suitable for being used with **flammable refrigerants** and are set at the appropriate LFL for R600a.
- Soap and bubble method.

If a leak is suspected, all naked flames shall be removed and/or extinguished.

If a leakage of refrigerant is found which requires brazing, all refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.

#### Refrigerant Removal & System Evacuation

**⚠ DANGER** When breaking into the refrigerant circuit to make repairs it is important that best repair practices are always followed due to the flammability of the refrigerant. The following procedure shall be adhered to:

- a. Safely remove refrigerant following local and national regulations
- b. Purge the circuit with inert gas
- c. Evacuate
- d. Purge with inert gas
- e. Open the circuit by cutting or brazing

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. The system shall be purged with oxygen-free nitrogen to render the appliance safe for **flammable refrigerants**. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

Refrigerant purging is achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved. The gas is then vented into the atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.

Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and that ventilation is available.

#### Recovery Of Flammable Refrigerants

**⚠ DANGER** When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e., special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, **Flammable Refrigerants**.



## Flammable Refrigerant Charging Procedure

**⚠ DANGER** In addition to conventional charging procedures, the following requirements shall be followed:

- Ensure that contamination of different refrigerants does not occur when using charging equipment.
- Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.

- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigerating system.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

## DECOMMISSIONING AND DISPOSAL

**⚠** R-600 Class A3 Flammable Refrigerant Used

**⚠ DANGER**

**Risk of Fire or Explosion. Flammable Refrigerant Used.**

It is important to decommission and dispose of this product in accordance with all federal, state, and local regulations.

**⚠ DANGER** Risk of child entrapment. Before you throw away your old refrigerator or freezer:

- Take off the doors.
- Leave the shelves in place so that children may not easily climb inside.

**⚠ ⚠ ⚠ WARNING** Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.

**⚠ ⚠ WARNING** Do not use means to accelerate the defrosting process or to clean the evaporator and/or condenser coil other than those recommended by the Perlick technical service team. If the appliance is going to be decommissioned and stored, it shall be stored in a room without continuously operating ignitions sources such as open flames, gas appliances, or electric heaters. Do not pierce or burn. Be aware

that refrigerants may not contain an odor.

- Be sure to follow all the Important Safety Information located at the beginning of this manual as well as the Important Safety Information located in the Service & Repairs section of this manual prior to any decommissioning & disposal work.

### Decommissioning & Disposal – (End of Life)

- Servicing shall be done by trained service personnel with certified competence in handling **flammable refrigerants** to minimize the risk of possible ignition due to improper service.
- Follow handling instructions carefully in compliance with national regulations.
- Do not puncture refrigerant tubing. Risk of fire or explosion due to puncture of refrigerant tubing; follow handling instructions carefully.
- The appliance contains a **flammable refrigerant** and must be disposed of in accordance with applicable national, state, and local codes and regulations. Refrigerant must be recovered and safely disposed of by properly trained service personnel.
- Prior to disposal of this product the refrigerant must be completely removed.
- When removing refrigerant from a system, it is recommended and good practice that all refrigerants are removed safely.
- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants



are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task commences.

- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of **flammable refrigerants**. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good operating condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.
- **Before refrigerant recovery, ensure that:**
  - Mechanical handling equipment is available, if required, for handling refrigerant cylinders.
  - All personal protective equipment is available and being used correctly.
  - Isolate the system electrically.
  - The recovery process is always supervised by a competent person.
  - Recovery equipment and cylinders conform to the appropriate standards.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the cylinder is sized correctly to hold the entire refrigerant charge. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i.e., special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- Even after refrigerant recovery, some residual refrigerant can be left entrained with the refrigerant oil. Cut out the compressor and drain and dispose of the compressor oil. Compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that **flammable refrigerant** does not remain within the lubricant. Dispose of compressor and compressor oil in compliance with national, state, and local codes and regulations.
- The recovered refrigerant shall be returned to

the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

- All doors and drawers of the unit being disposed must be completely removed from the unit to avoid the risk of child entrapment. Leave shelving in place so children cannot easily climb inside.
- Disposal of this product shall be in compliance with all federal, state, and local regulations.

### Labeling

Equipment shall be labeled stating that it has been decommissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing **flammable refrigerant**, ensure that there are labels on the equipment stating the equipment contains **flammable refrigerant**.

T H E  
**PERLICK®**  
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