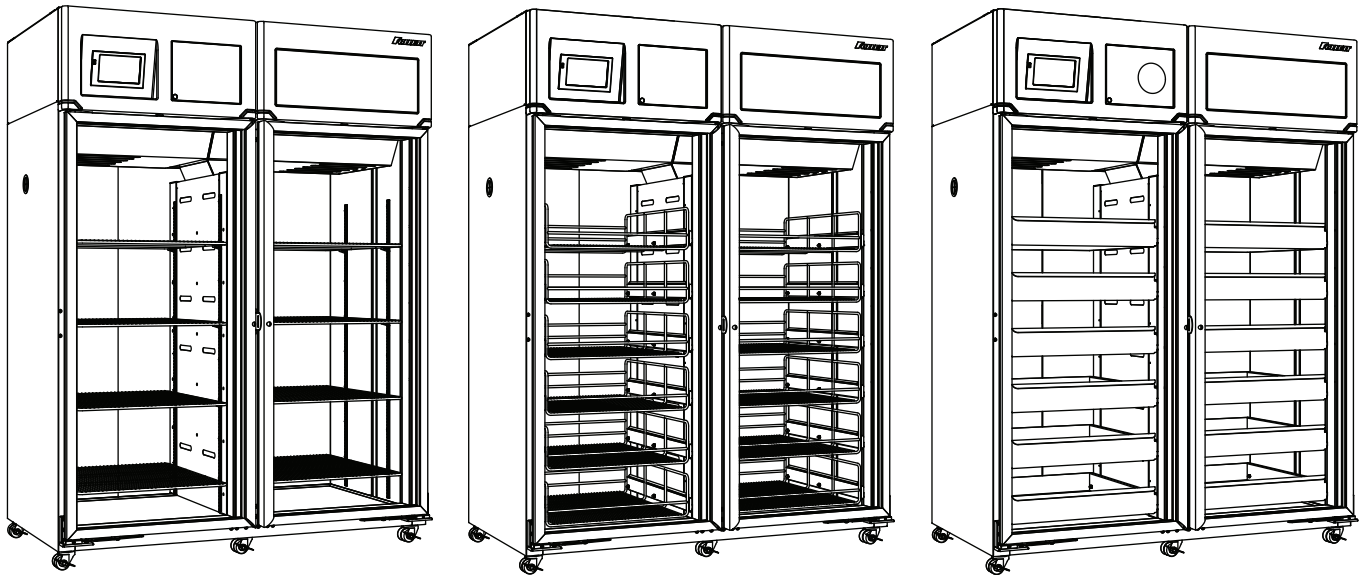


Installation Guide

Please visit <https://www.follettice.com/technicaldocuments>
for the Operation and Service manual for your unit



Welcome to Follett Products LLC

Follett equipment enjoys a well-deserved reputation for excellent performance, long-term reliability and outstanding after-the-sale support. To ensure that this equipment delivers that same degree of service, review this guide carefully before you begin your installation.

Should you need technical help, please call our Technical Service group at (877) 612-5086 or (610) 252-7301.

Please have your model number, serial number and complete and detailed explanation of the problem when contacting Technical Service.

Getting Started

After uncrating and removing all packing material, inspect the equipment for concealed shipping damage. All freight is to be inspected upon delivery. If visible signs of damage exist, please refuse delivery or sign your delivery receipt "damaged." Follett Customer Service must be notified within 48 hours. Wherever possible, please include detailed photos of the damage with the original packaging so that we may start the freight claim process.

Specifications	Specifications		
	REF45-LB	REF45-PH	REF45-BB
Capacity	20.6 cu ft (583.3 L) per side	20.6 cu ft (583.3 L) per side	20.6 cu ft (583.3 L) per side
Storage system	(8) epoxy-coated shelves	(12) epoxy-coated rollout baskets	(12) stainless steel rollout drawers
Exterior width	59.75" (151.8 cm)	59.75" (151.8 cm)	59.75" (151.8 cm)
Exterior depth	30" (76.2 cm)	30" (76.2 cm)	30" (76.2 cm)
Exterior depth with handles	33.55" (85.2 cm)	33.55" (85.2 cm)	33.55" (85.2 cm)
Exterior height with casters	79.54" (202 cm)	79.54" (202 cm)	79.54" (202 cm)
Interior dimensions (w x d x h)	54" x 27" x 54.3 (61 cm x 73 cm x 143 cm)	54" x 27" x 54.3 (61 cm x 73 cm x 143 cm)	54" x 27" x 54.3 (61 cm x 73 cm x 143 cm)
Crated weight	760 lbs (345 kg)	880 lbs (399 kg)	920 lbs (417 kg)
Max. heat rejection	5240 BTU/hr (1536 W)	5240 BTU/hr (1536 W)	5240 BTU/hr (1536 W)

Standard features – all models	
Door	– Glass: Dual pane, low-E glass, condensation free to 80 F (27 C) air/60% RH – Solid: Stainless steel, foam-insulated door.
Door handle	ADA-compliant, full length handle with integral lock
Interior/exterior material	Heavy-duty, corrosion resistant stainless steel
Casters	(6) dual-wheel swiveling casters with toe locks
Insulation	2.75" (7 cm) thick, CFC-free foam insulation throughout
Lighting	(2) full length side LED lights
Air circulation system	Ducted air through 24 center plenum openings with front face return
Temperature probe	Stainless steel RTD (platinum resistance temperature device) top, bottom probe standard on - BB models, available as option on -LB, -PH models, immersible with panel quick-disconnect

Ambients

Intended for indoor use where ambient temperature typically does not exceed 80 F (27 C) and ambient relative humidity does not exceed 60% RH. A heated door is recommended for higher humidity ambients.

Clearances

The top of the refrigerator must have 16" (40.64 cm) of clear space above to ensure proper ventilation of the refrigeration system.

The back of the refrigerator should have 2" (5 cm) of clearance to allow for power cord clearance.

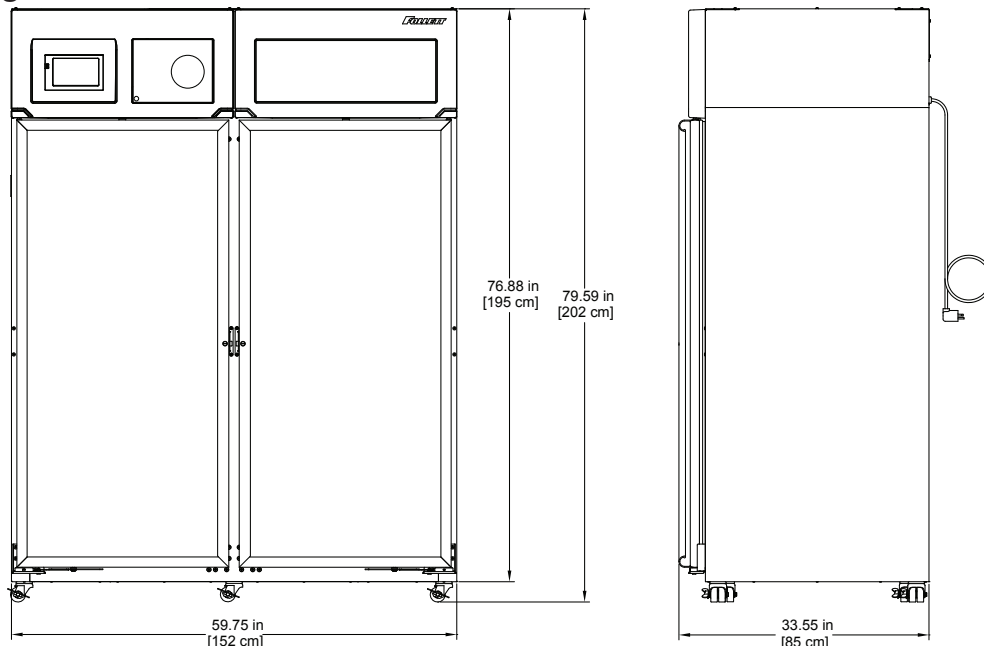
Electrical specifications

- 115 V, 60 Hz, 1 phase
- Full load amps: 11A
- Maximum size of branch circuit overcurrent device: 20A dedicated circuit
 - Refrigerator is supplied with a NEMA 5-20 hospital-grade plug.
 - Follett recommends circuit be protected by GFCI.

Refrigeration specifications

- Refrigerant R134a, 13 oz (369 g)

Detail drawing



Installation

DANGER



- Do not tilt any unit further than 30° off vertical during uncrating or installation
- Refrigeration module area contains mechanical, moving parts. Keep hands and arms clear of this area at all times. If access to this area is required, power to unit must be disconnected first.

1. For standard key lock units, remove key attached to door.
2. For keypad units, open door to right of the touchscreen and connect back-up battery pack. Enter the default user code (1 2 3 4 5 6) and press the check mark to open the doors (see Page 7).
3. Remove casters from box located inside cabinet. Once the casters are removed, disconnect back-up battery pack until unit is installed at its final destination.

Note: California facilities requiring floor anchors, refer to wall anchor kit instructions (P/N 00938241) packed with seismic kit before proceeding with caster installation.

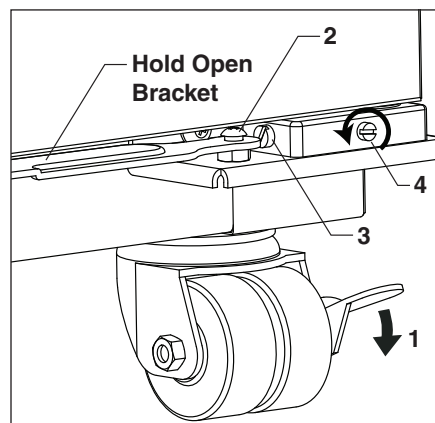
4. Unbolt refrigerator from pallet.
5. Remove wood block under each door.
6. Push left or right side of refrigerator approx. 6" (15.3 cm) off the pallet and install two casters. Tighten with channel locks until caster meets bottom of cabinet.
7. Continue sliding the refrigerator off the pallet until 55% is off the pallet and install the center casters and tighten.
8. Continue sliding until 95% of unit is off of pallet
9. Grab pallet and rotate exposing 1 of the remaining casters nuts (located on the bottom of the unit) and install caster.
10. Continue rotating pallet until last remaining caster nut is exposed. Install final caster.
11. Remove unit completely from pallet.



Adjust self-closing door

1. Roll refrigerator to desired location and lock as many casters as possible (**Fig 1.1**).
2. If the door appears to be sagging, remove the Phillips screw (**Fig. 1.2**) holding the Hold Open Bracket to the Hinge Bracket to gain access to the Sag Adjustment Screw (**Fig. 1.3**). Turn the Sag Adjustment Screw to align the door squarely with the freezer cabinet. When finished, reinstall the Hold Open Bracket.
3. Check door for closing tension and adjust if necessary. To check closing tension, open door 1" (2.54 cm) and turn screw (**Fig. 1.4**) counterclockwise until you achieve positive close. Then, turn another half turn counterclockwise.

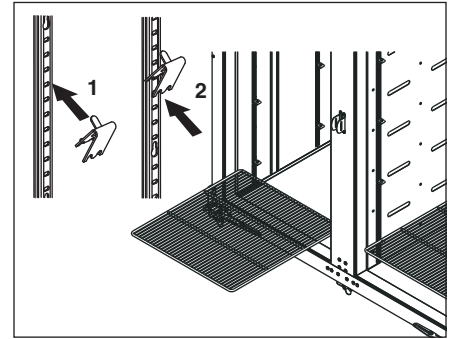
Fig. 1



Install shelves (if equipped) and power up

1. If refrigerator is equipped with shelves, remove bag containing shelf supports and position them in desired locations on each pilaster and insert shelves (**Fig. 2**).
2. Plug refrigerator into a 115 V, 60 Hz, 15A dedicated outlet.

Fig. 2



⚠ DANGER



- **Do not extend all of the drawers or baskets when fully loaded to avoid the possibility of the refrigerator tipping forward**
- **Refrigeration module area contains mechanical, moving parts. Keep hands and arms clear of this area at all times. If access to this area is required, power to unit must be disconnected first.**

Fill product bottle

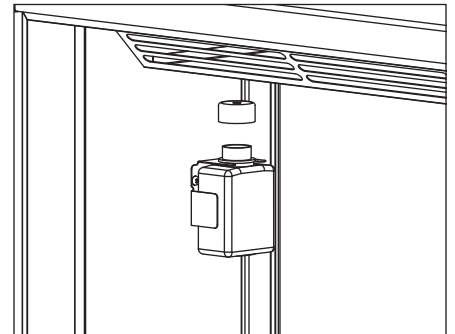
1. Remove probe and cap from the top bottle and fill with glycerine supplied with unit (e.g., 50% glycerine and 50% water) (**Fig. 4**). Replace cap and reinsert probe sensor.
2. If equipped with a bottom probe, perform same procedure for bottom bottle.

ATTENTION INSTALLER

It is imperative that the top/bottom probe bottle be filled with a solution that your facility uses to ensure proper operation of unit.

3. Adhere supplied probe wire clips (x4, packaged with manual) to inside wall leading to the probe bottle.
4. Route probe wire into clips and close the clips.

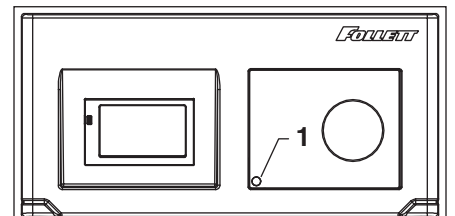
Fig. 3



Power the Unit

1. Press lower left corner of front façade door to access power switch inside (**Fig. 4.1**).

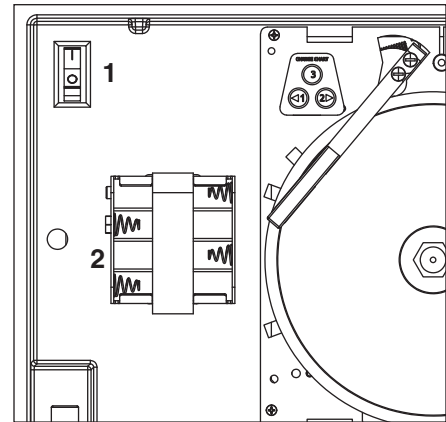
Fig. 4



2. Press power switch to turn unit on (**Fig. 5.1**).
3. Connect wiring harness to back-up battery pack and connect 9 V chart recorder back-up battery (if equipped) (**Fig. 5.2**).

Note: Acknowledge low-battery alarm icon if present.

Fig. 5



Controller Operation

Use and care of the LCD touchscreen

The LCD touchscreen utilizes capacitive touch technology. This will allow you to engage the functionality by touching the screen with your fingers, even while you are wearing latex or cotton gloves. Functionality will not engage by touching with an inanimate object, such as a pen or stylus.

- To preserve optimal touch sensitivity, keep the screen clean by using a clean, dry cotton cloth.
- Do not expose the screen to liquids or excessive dust, heat or humidity.

Control function icons and navigation buttons engage functionality of the user interface. Status indicators alert the user to a change of status.

Home screen

The home screen consists of three primary information areas: the temperature display, control function display zone and system status display.

Control Functions	System Status	Functions and Settings
Settings	Compressor is running	USB download available (downloading when blinking)
Alarming	Evaporator fan is running	Refrigeration set points
Light	Door is open	Sleep functions
Information log	Defrost cycle is in process	Centigrade to Fahrenheit
Help		Probe set points
		Alarming functions
		Alarm mute
		Reset

- Product temperature is displayed in the upper right corner.
- Current selected display probe above temperature readout.
- Primary control function icons are displayed in the lower left corner.
- System status icons will display in lower right corner to indicate a condition has been activated.

Fig. 6

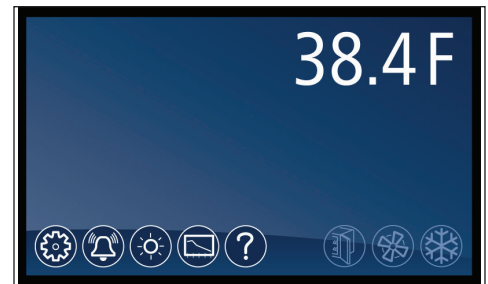


Fig. 7






High and low temperature display

From the home screen touch the temperature display in the upper right corner. The high/low temperatures will appear below the temperature display. To the left of the high/low temperature, a time and date stamp will be displayed.

View the bottom probe temperature and min/max temperature log

1. Press the temperature display in the upper right hand corner of the display
 - Will initially display MIN/MAX temperature of Top probe.
2. Press a second time to prompt a reset Top probe MIN/MAX.
3. Press a third time to display HIGH/LOW alarm settings.
4. Press a fourth time to display current Bottom probe temperature.
5. Press a fifth time to display Bottom probe MIN/MAX temperature.
6. Press a sixth time for prompt to reset Bottom probe MIN/MAX temperature log.

Reset the high and low temperature log

Touch the temperature display a second time and the reset function  will appear under the high/low temperature. Touch the reset icon and a yellow message box will appear. Press  to confirm reset or  to cancel.

Alarm set point display

From the home screen touch the temperature display three times. The high and low alarm set point will appear under the temperature.

Help




- Help is available at any time by touching the  icon at the bottom of the screen.
- Help is screen-specific; touching the  icon will display an explanation of the functionality and use of the screen you are currently viewing.
- Touch  to exit help screen.

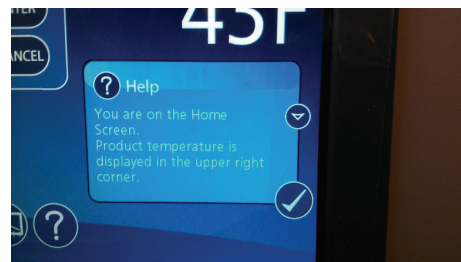
Fig. 8













Fig. 9





Fig. 10







Settings

- Refrigeration Set Point 
 - Touch the number displayed in the box to the right of the Set point label and use the keypad or **UP** and **DOWN** arrows to select product temperature. Press  to accept or  to cancel.
- Sleep Temperature Display 
 - Toggle **ON** to hide the temperature reading immediately on the home screen.
- Set the Sleep Delay 
 - To automatically hide the temperature after 0-600 seconds of inactivity, touch the box to the right of the delay (0-600) box. Use keypad or **UP** and **DOWN** arrows to select from 0-600.
- Temperature 
 - Toggle between **F** and **C** to select Fahrenheit or Celsius.
- Brightness 
 - Touch the number displayed in the box to the right of the Brightness  icon and use the keypad or **UP** and **DOWN** arrows to select from 1-10. Press  to accept or  to cancel.

System Information

- Touch the System Info icon  to display the model number, unit serial number and software version. Touch the checkbox icon  in the lower right corner of the box to clear.

Alarm or Alert Notifications

- If an alarm or event condition is detected and an alarm is engaged, an alert notification will appear in the left center of the screen with an explanation of the alert condition and a checkbox  at the bottom right of the alert box.
- No further action can be taken on the User Interface until the alert condition is acknowledged and cleared by touching the checkbox .
- Mute 
 - Touch the  icon to mute audible alarm for 15 minutes.

Door Switch

- This unit is equipped with a door switch that is located in the façade, and a magnet located on the top of each door. With the door closed, the switch reads closed. When the door is opened, the switch contacts open and turn on the LED lights.

Fig. 11

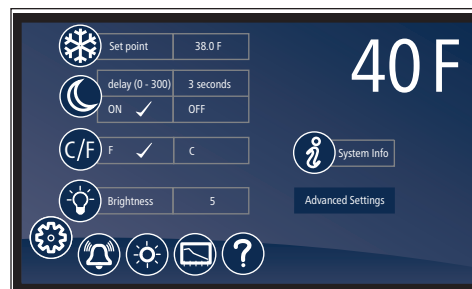


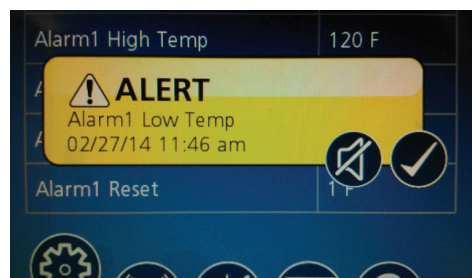
Fig. 12



Fig. 13



Fig. 14



Door Alarm

- This unit is equipped with a door ajar alarm that is factory set for 1 minute. In the event the door switch reads open for longer than 60 seconds (default) an audible and visual alarm will occur. The alarm will clear when the door is closed. The door alarm activation time can be changed from 0-600 seconds in the Advanced Settings Menu under Door Open Alarm Delay.










Power Alarm

- This unit is equipped with a Power Alarm that will sound if the unit loses power for more than five minutes. The Power Loss Alarm box will display every five minutes, then the screen will sleep. An audible alarm will sound every 30 seconds during the power failure. An alarm box will be displayed when power is restored. The event log will record the exact time and date of the power loss and when the power was restored.

Start-up alarm delay

This unit has a 375 minute time delay between when the unit is energized to when the temperature alarms become active. This delay can be changed in parameters in the controller under **Alarm Startup Delay**.

Setting Alarms

- Alarming Settings control the conditions and timing of event and alarm conditions that result in audible and/or visual alerts.
- To change the high alarm set point, touch the number displayed in the box to the right of the  icon and use the keypad or **UP** and **DOWN** arrows to select an alarm value. Press  to accept or  to cancel.
- To change the low alarm set point, touch the number displayed in the box to the right of the  icon and use the keypad or **UP** and **DOWN** arrows to select alarm value. Press  to accept or  to cancel.
- Audible Alarm 
 - Toggle between **ON** and **OFF** to engage and disengage the audible alarm function.
- Mute 
 - Touch the  icon to mute audible alarm for 15 minutes.

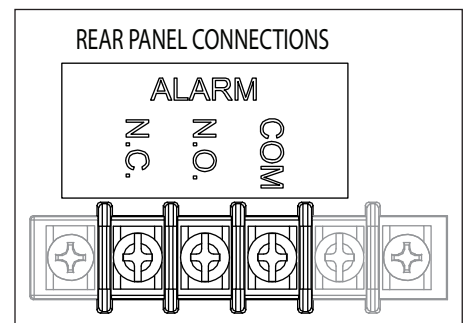
Alarming Contacts

This unit is equipped with dry contacts that may be connected to a third party monitoring system. The contacts are located on the back of the façade. Touchscreen units utilize the Alarm 1 parameter. Each set of dry contacts has a Common, a Normally Open and a Normally Closed connection point. By default, Alarm Relay 1 is set to activate with any of the following alarms: Alarm 1 High temp, Alarm 1 Low temp, Door Open Alarm, and Power Loss Alarm.

Fig. 15



Fig. 16



- Event Log – to display a chronological listing of events (including errors, alarms and alerts), touch the **Event Log** label to the left of the screen. Use the **UP** and **DOWN** arrows to the right of the screen to scroll through the logged temperatures.

Fig. 19



Data logging

- The controller is capable of storing up to 50,000 readings per probe. The factory setting for the sample rate is every 15 minutes, which will provide enough storage for 520 days. The sample rate can be changed to provide data logging for a longer or shorter time interval by changing the **Sample Rate (Min)** in the advanced settings menu. **0 = off and 360 minutes maximum.**

Data Storage

- Data can be captured in different ways. The factory default is for the data to overwrite itself when the memory is full. This can be changed in the advanced setting under **Data storage overwrite**. When this parameter is set to **No**, the system will display an alert when the memory is 75% full. To clear the alert the data must be downloaded.

Data duration alarm

- A reminder can be set to download the data in the **Data duration alarm** in the advanced setting. The data duration can be set from **1 to 180 days**. If the data duration alarm is used, then the **Alarm on data full** parameter in the advanced setting must also be set to **Yes**.

Downloading data

- The touchscreen has the capability of downloading the temperature data and event log via a USB port on the left side of the user interface. The file is a CSV format and is suitable for import directly into Microsoft Excel.

1. Insert the storage device in the USB slot located to the left of the Touchscreen.
2. Select the Graph icon along the bottom of the Touchscreen.
3. Select the USB icon in the lower right hand corner.
4. A yellow alert box with **downloading data** will appear.
5. Press to accept or to cancel.
6. After the unit is done downloading, a second yellow alert box will appear asking if you want to **Erase log**.
7. Press to accept or to cancel.

Note: If you chose to erase the data, the data duration timer and the data full alarm will reset. It will also erase the information that is stored on the graph.

One of the two files below will be downloaded depending on which screen is being viewed:

EL XXXX YY - Event Log

TL XXX YY - Temperature Log

XXXX = last 4 digits of serial number

YY = 0-99 number of downloaded file

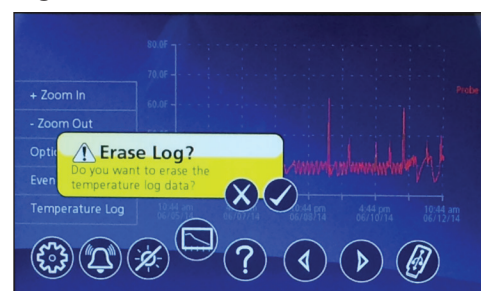
Data download reminder and data full alarm

- If you plan or are required to download data for a certain time period, you can set a **download data reminder** on the unit. Download data reminder can be found in the advanced setting under **Data duration** and can be set from **1 to 180 days**.

Fig. 20



Fig. 21



Follett Keypad Lock – (Optional)

For units equipped with the electronic lock accessory option, a keypad will be displayed on the left side of the touchscreen. In order to gain access to the storage area, a user code must be entered.

- User default code is factory set to **1 2 3 4 5 6** and is stored in memory slot 01.

Fig. 22



Changing and Adding the User Codes







1. Touch Settings  icon.
1. Touch **Advanced Settings**, enter your 4-digit user access code (factory default is **1 1 1 1**) in the keypad that appears, and touch the checkmark icon  to access advanced settings screens.
2. Time and date will be displayed. Scroll using the **UP** and **DOWN** arrows until **Change Access Code** is displayed in the Display Setup screen.
3. Touch **Change Access Code** and enter the master code [**ENTER**]. (By default, the master code is **1 2 3 4 5 6**.)
4. Touch the screen to the right of the user code 2 to 40 to overwrite or add the user code.
5. Enter the new code. Press  to accept or  to cancel.
6. Enter the new code again. Press  to accept or  to cancel.
7. Press **DONE** when finished entering access codes.

Fig. 23

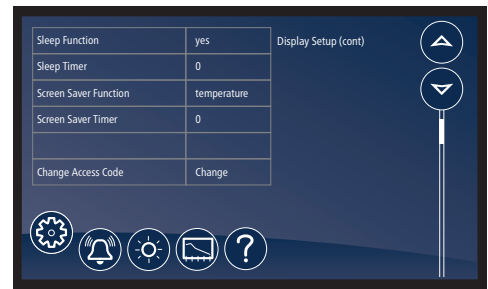


Fig. 24



Electronic Lock Override

- Remove safety screw using a T25 torx bit.
- Place thin screwdriver into rivnut where safety screw was removed and press the latch.
- Open door.

Light

- To turn the interior light on (or off), touch the Light icon or the Light Off icon.
- Light timer is in advanced settings.
- The light will also come on when the door is open.

Time and Date











- To set time and date, press the Settings  icon.
- To display options, touch **Advanced Settings**, enter your 4-digit user access code in the keypad that appears, and touch the checkmark icon  to access advanced settings screens (factory default is 1 1 1 1).
- Time: touch displayed time and use the keypad to enter the time. Press  to accept or  to cancel.
- AM/PM: touch displayed value to toggle between AM and PM.
- Month: touch number displayed and use the keypad to enter the month. Press  to accept or  to cancel.
- Day: touch number displayed and use the keypad to enter the day. Press  to accept or  to cancel.
- Year: touch number displayed and use the keypad to enter the year. Press  to accept or  to cancel.

Fig. 25

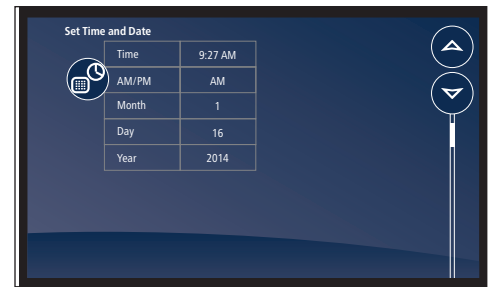


Chart recorder set up (if so equipped)

The chart recorder is mounted in the front right of the façade behind the door (**Fig. 26**). A package of 50 charts that record in C is included with your refrigerator. If you have changed your display to show temperatures in F, you will need different charts. Please call Follett at (877) 612-5086 or +1 (610) 523-9361 to order part number 00967729. The chart recorder is powered by the controller and has its own battery back up. An LED provides battery status info: Steady green = battery okay, flashing green = low battery or no power to the controller.

Chart recorder calibration

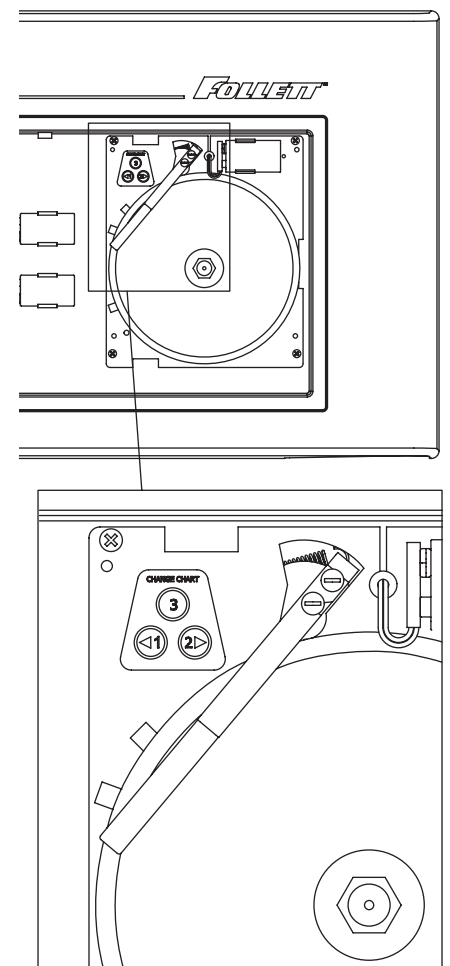
If desired, calibration should be done at the same time as probe calibration by pressing either the left or right arrow keys to correspond with the calibrated product display temperature.

1. Press **Left #1** or **Right #2** arrow button for 5 seconds until pen begins to move.
2. Continue to press **#1** or **#2** button to move pen to record same temperature as probe.

Changing the chart paper

1. Press and hold **#3** button until pen begins to move off chart.
2. Once the pen moves completely off chart, unscrew knob (counter-clockwise) at center of chart.
3. Remove old chart and place new chart in position so that correct time coincides with time line groove on recorder.
4. Reinstall knob.
5. Press and hold **#3** button for approximately (1) one second until pen begins to move back onto chart.
6. Make sure pen is marking paper. If not, carefully adjust arm so that pen makes contact with paper.

Fig. 26



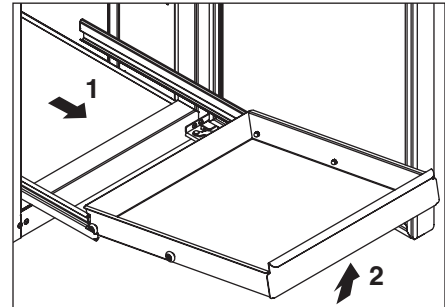
Replacing the pen

1. To replace pen, press and hold the #3 button until pen starts to move off chart.
2. Once pen has moved completely off chart, carefully lift pen up and unsnap the “U” clip part to remove pen from metal pen arm.
3. Position new pen on metal pen arm and snap “U” clip underneath pen around arm to secure.
4. Press and hold #3 button for approximately (1) second until pen begins to move back onto chart.
5. Make sure pen is marking. If not, carefully adjust arm so that pen makes contact with paper.

Removing drawers

1. Pull drawer forward to stop (**Fig. 27.1**).
2. Lift drawer front to free front rollers from slides (**Fig. 27.2**).
3. Still lifted, pull drawer forward to free back rollers from slides.

Fig. 27



Removing slides

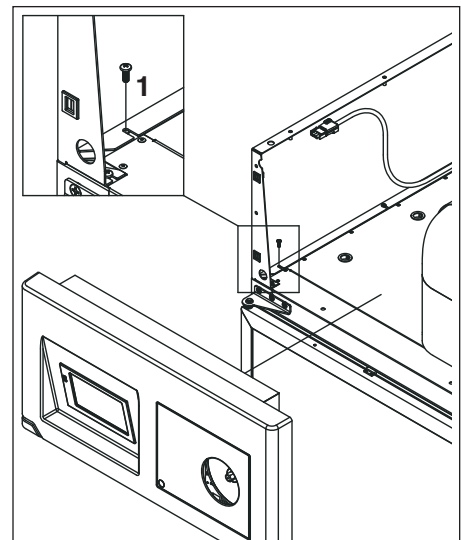
1. Push slides all the way back.
2. Swing bottom of slide away from refrigerator wall and lift slide off rollers.

Façade removal

The façade is removed by loosening the top left and right Phillips screws on the back of the façade to allow the securing clips to rotate away from the side panels. The façade can simply pull off of the front by pulling it out of the bayonet mounts that secure it to the upper left and right panels. If the façade will be completely removed, the electrical plugs should be disconnected. The ground wire should be removed from the top left grounding screw on the cabinet box, not from the façade (**Fig. 28.1**).

Note: Be sure to reinstall the ground wire.

Fig. 28



Cleaning

Use non-chlorine-based cleaners. Cleaners containing chlorine can cause staining and pitting of the stainless steel.

Disconnect power to unit by turning the power switch off, located on the upper front façade panel, and removing the power cord from the receptacle.

Interior cleaning

Using a sponge or soft cloth, clean unit with a non-abrasive, non-chlorinated, all-purpose detergent. Note: The left and right air plenums should be removed to clean them, as well as behind them (**Fig. 29, 30**). In addition the shelves, baskets, drawers and slides should be cleaned as well.

Exterior cleaning

Wipe stainless steel exterior with a soft cloth in the direction of grain as needed. Stainless steel polish may be used to enhance the finish of the unit. The glass door and exterior parts may be cleaned with a soft cloth, window cleaner or other non-abrasive cleaner.

Fig. 29

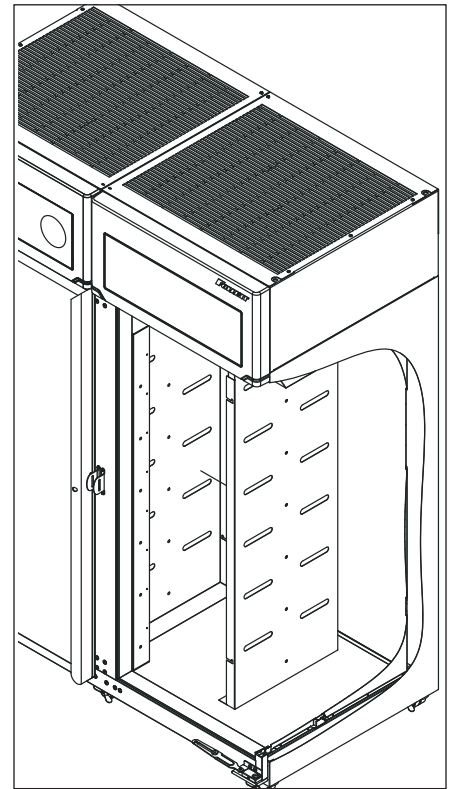
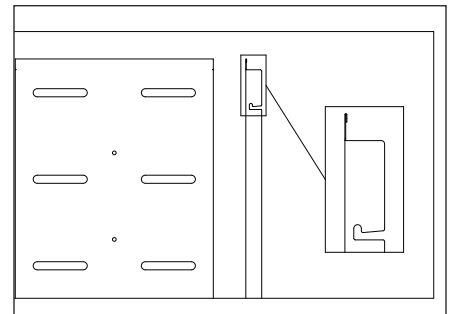


Fig. 30

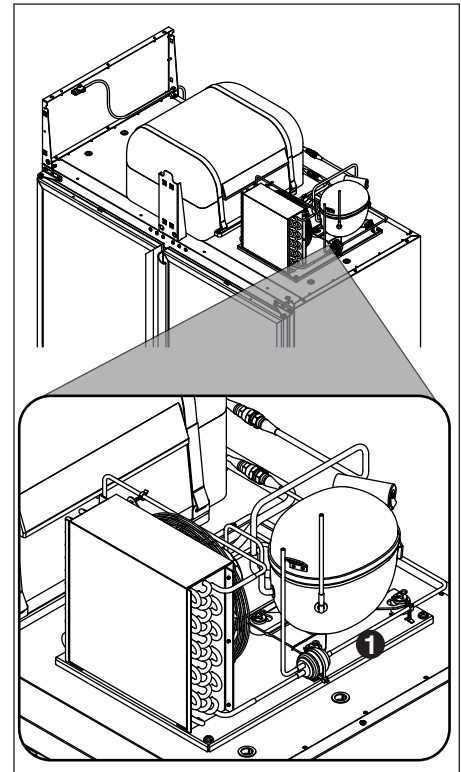


Annual cleaning

Removal of dust and other particulates from air intake areas and the condenser is important for proper operation. Environments with large amounts of dust may require more frequent cleaning.

1. Disconnect power to unit by turning power switch off (located on upper front façade panel) and removing power cord from receptacle.
2. The condenser can be accessed from the top for cleaning. The side panel in front of the condenser may be completely removed for easier cleaning by disconnecting the façade and removing the upper side panel.
3. Inspect drain pan for any debris or obstruction in condensate pan (**Fig. 31.1**).
4. Use a vacuum cleaner with brush attachment to clean condenser, compressor and related parts.
5. Reinstall upper side panel and façade if removed.

Fig. 31



Refrigeration System

The REF45 series refrigeration system is designed to give many years of trouble-free service. Except for routine cleaning of the air-cooled condenser and related parts, the refrigeration system requires no service or maintenance. The system uses a capillary tube metering device and is critically charged. Access fittings are not provided. Temporary piercing valves are required to work on the refrigeration system. Follett recommends that if hoses are ever connected to the refrigeration system for service, the refrigerant should be recovered, permanent access valves should be installed and the system evacuated, and recharged by weighing in the correct refrigerant charge (refrigerant R134a, 13 oz (369 g)).

Note: Do not charge the system by pressures.

Defrosting

REF45 series refrigerators do not require manual defrosting. The evaporator coil defrosts automatically during the cooling system OFF cycle and also during the off time defrost cycle every 8 hours. The automatic defrost will terminate when the evaporator temperature, read off the P1 control probe, reaches 38 F (3.3 C).

Service - System Controls

The temperature controller and evaporator probe (P1-control) indicate when the refrigeration system is required to turn on and off.

The refrigeration system removes heat from the cabinet and rejects it into the surrounding room air.

When the evaporator probe (P1-control) reaches its predetermined cut-in value (Advanced settings, Viewable), the probe signals the controller to turn on the refrigeration system. The controller sends a 12VDC signal to the normally open compressor relay. The relay then closes, energizing the compressor and condenser fan.

When evaporator probe (P1-control) reaches its predetermined cut-out value (Advanced Settings, Viewable), the controller interrupts the 12 VDC signal to the compressor relay, de-energizing the compressor and condenser fan. The evaporator fan runs continuously.

Controller Operation

The controller displays product temperature in degrees C (default) or F to 1 decimal point. The controller set point serves as your desired product temperature.

The controller is pre-programmed to deliver a 3.3 C (38 F) product temperature. The controller allows for the set point to be adjusted as low as 2 C (36 F) and as high as 10 C (50 F).

All set points operate with a differential (10.5 C (19 F)). The set point, in conjunction with the differential, determine the cut-in and cut-out points of the cooling system. For instance, a refrigerator running at the default set point of 3.3 C (38 F) will have the cooling system cut-in at 3.3 C (38 F) and cut-out at -7.2 C (19 F) according to the P1 control probe located in the evaporator coil. Cut-in and Cut-out parameters are viewable in the Advanced Settings Menu.

Sensor Readings/Temperature Display

The Touchscreen is defaulted to display the P4-Top probe, which reads the solution temperature of your product simulation bottle. For ease of troubleshooting, the Touchscreen can be toggled to display the P1-control probe to view the refrigeration cycle. To toggle the display for your desired probe, Access Advanced Settings>Display Probe and select the desired probe.

Note: After service is complete it is recommended to restore the display to the P4-Top Probe.

Heated door (option)

Factory default for the heated door and fascia heater cycle is set to 10 minutes off and 10 minutes on.

Should the need arise, the door schedule can be changed in Advanced Menu>Door Heater.

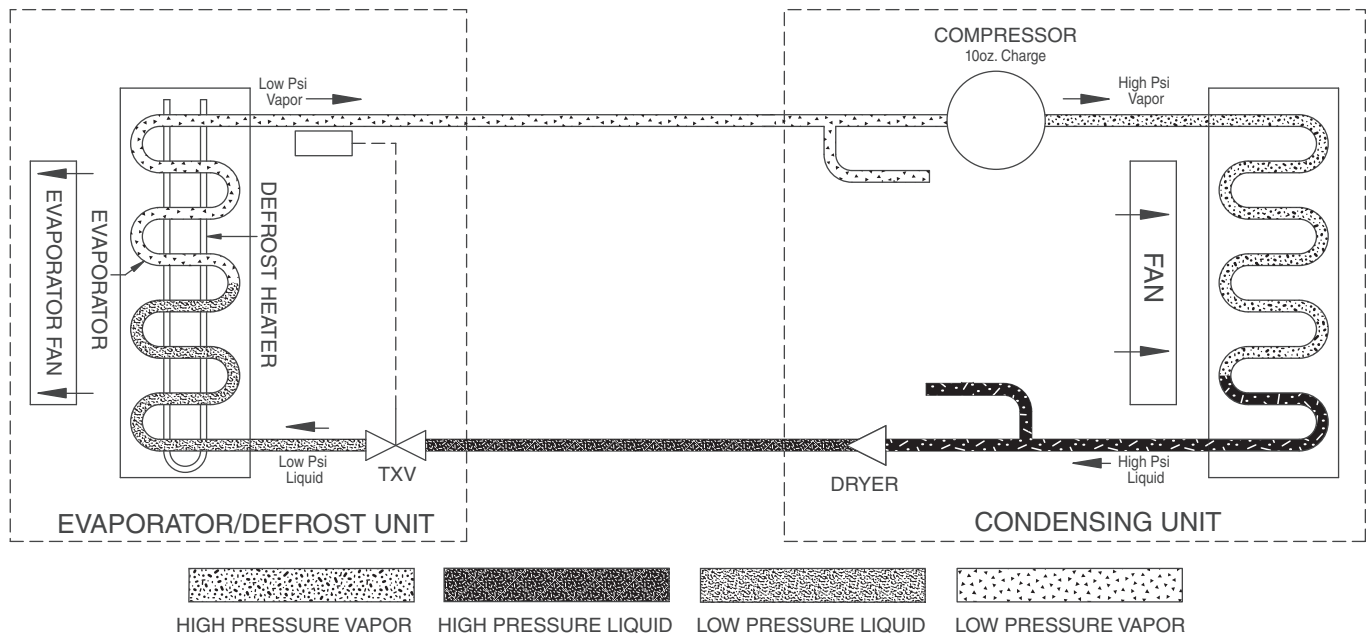
Reversing the door swing (requires a new door)

REF45 units ship standard with non-heated center opening doors. To change the configuration requires new doors.

Heated doors

Heated doors are factory installed. A non-heated door cannot be retrofitted to a heated door in the field.

Refrigeration system



Component Details

Compressor

Running amps: 8.1A at 80 F 60% relative humidity
 Locked rotor amps: 44 LRA (Copeland RRT62C1E compressor)
 Cold winding resistance: S to C (4.6 Ω)
 Cold winding resistance: S to R (5.3 Ω)
 Cold winding resistance: C to R (0.8 Ω)

Condenser Fan

Running amps: 0.6A
 Locked rotor amps: 1.0A
 Cold winding resistance: 25 Ω

Evaporator Fan

Running amps: 0.5A
 Locked rotor amps: 1.7A
 Cold winding resistance: 32 Ω

Refrigeration Pressure

Condenser inlet air temperature	75 F (24 C)
Discharge pressure (psig)	125-127
Suction pressure (psig)	13-16

	70 (21)	80 (26.7)	90 (32.2)	100 (37.8)
Superheat	21	20	18	17
Subcooling	10	9	8	8

Warranty Registration and Equipment Evaluation

Thank you for purchasing Follett® equipment. We hope you find that our equipment meets or exceeds your expectations, as our goal is to deliver high value products and services that earn your complete satisfaction!

Please review the enclosed installation and operations manual. It is important that the installation be performed to factory specifications, so your equipment operates to its maximum efficiency.

Follett LLC will not be liable for any consequential damages, expenses, connecting or disconnecting charges or any losses resulting from a defect of the machine.

For full warranty details, visit our website www.follettice.com/productwarranties.

Warranty registration and equipment evaluation is important to help us keep track of our equipment and to record the machine's performance. We request that you register Follett equipment warranties on our website www.follettice.com/support and choose Warranty Registration and Equipment Evaluation. It's simple to do; please take a moment to register today. There is also space on the form to provide us with comments and feedback. Please let us know about your experience so we can capture it for our continuous improvement efforts.

We pride ourselves on producing outstanding equipment and we work hard to back it up with outstanding customer and technical support. Please let us know what else we can do to assist you. We would be happy to answer your questions.

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