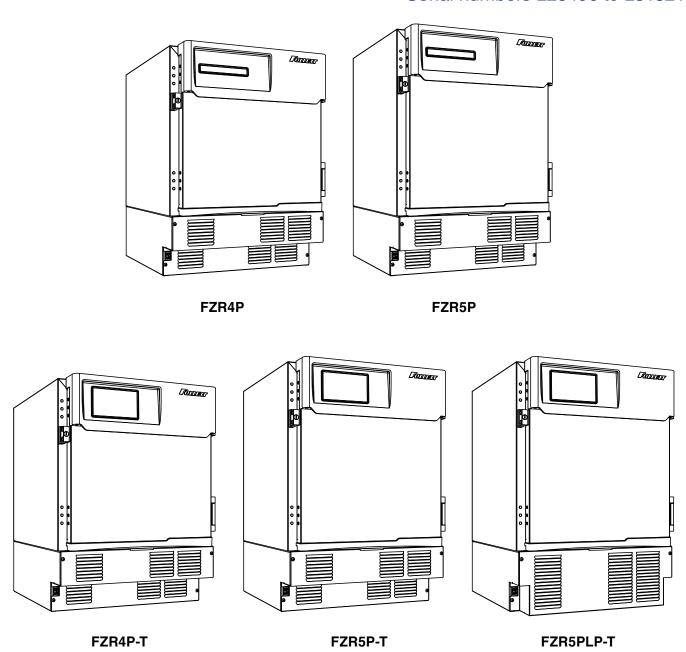


FZR4P and FZR5PLP-T Performance Plus Undercounter Freezers

Installation, Operation and Service Manual Serial numbers L28496 to L31321



Following installation, please forward this manual to the appropriate operations person.

Contents

Welcome to Follett	3
Before you Begin	3
Specifications	3
Electrical Specifications	
Refrigeration Specifications	4
Installation Specifications	4
Installation	5
Installing Levelers	5
Battery Backup (Touchscreen and Keypad units only)	5
Installing Shelves	6
Installing Drawer	
Third-party Probe - Optional	
Reversing the Door Swing – Optional	
Installing Glycerine Solution in Product Simulation Bottle	
Operation	
Temperature Control	
Defrosting	
Controller Operation - Performance Plus	12
Controller Display	12
Controller Security	
Changing Temperature Display from C to F	
Sleep Function	
Temp Log	
Alarming Functions	
Follett Keypad Lock	
Controller Operation - Performance Plus Touchscreen	
Use and care of the LCD Performance Plus Touchscreen	
Cleaning	28
Annual Cleaning	28
Service	28
Door Gasket Replacement	28
Slide-out Compressor Tray	28
Removing Drawers	
Removing Slides	
Changing the back-up Batteries	
Controller Replacement	
Wiring Diagram	
Refrigeration System	
Checking Refrigeration System Pressures	
Compressor Information	33
Troubleshooting	34
Before calling for service	34
Accessories	35
Replacement Parts	
Evaporator	
Condensing Unit	
Hardware	
Hardware and Flectrical Components	40



Welcome to Follett

Follett equipment enjoys a well-deserved reputation for excellent performance, long-term reliability and outstanding after-the-sale support. To ensure that this product delivers that same degree of service, we ask that you take a moment to review this manual before beginning the installation. Should you have any questions or require technical help at any point, please call our technical service group at (877) 612-5086 or (610) 252-7301.

Before you Begin

After uncrating and removing all packing material, inspect the equipment for concealed shipping damage. If damage is found, notify the shipper immediately and contact Follett Corporation so that we can help in the filing of a claim, if necessary.

Check your paperwork to determine which item number you have. Follett item numbers are designed to provide information about the type of freezer you are receiving. Following is an explanation of the different item numbers.

Model	Item Number	User Interface		Keypad	Stackable/ Use with	Ships with Chart	Drawer
Number	item Number	Performance Plus	Performance Plus Touchscreen	Lock	Pedestal	Recorder	Diawei
	FZR4P-0-00-00	Х			Х		
[EZD4D	FZR4P-0-KP-00	Х			Х		
FZR4P	FZR4P-T-00-00		Х		Х		
	FZR4P-T-KP-00		Х	Х	Х		
	FZR5P-0-00-00	Х			Х		
EZDED	FZR5P-0-KP-00	Х		Х	Х		
FZR5P	FZR5P-T-00-00		Х		Х		
	FZR5P-T-KP-00		Х	Х	Х		
EZDEDI D.T.	FZR5PLP-T-00-00		Х		Х		Х
FZR5PLP-T	FZR5PLP-T-KP-00		Х	Х	Х	Х	Х

Specifications

FZR4P	31.38" (79.7 cm) H x 23.75" (60.3 cm) W x 27" (68.5 cm) D	Fits below 34" (86.4 cm) high ADA- compatible counter	3.9 cu ft capacity
FZR5P	34.00" height (86.4 cm) H x 23.75" (60.3 cm) W x 27" (68.5 cm) D	Fits below standard 36" (91.4 cm) high counter	4.5 cu ft capacity
FZR5PLP-T	34.00" (86.3 cm) height x 23.75" (60.3 cm) width x 27" (68.5 cm) depth	Fits below standard 36" (91.4 cm) high counter	2 drawers with total storage of 40 cardboard plasma packs 300 ml/pack); max. drawer load of 35 lb (16 kg) each



Electrical Specifications

- 115 V, 60 Hz, 1 phase
- Full load: 6.7A
- Minimum circuit ampacity: 15A
- Connect to dedicated circuit, fuse or breaker
- Maximum size of branch circuit overcurrent device: 15A
- Follett recommends circuit be protected by GFCI

Refrigeration Specifications

		Maximum Desigi	n Pressures (psi)
Refrigerant	Charge Size (oz)	High Side	Low Side
R404A	10	385	174

Installation Specifications

Ambient temperature must not exceed 39 C (100 F).

The front louvered panel must be kept free of any cabinet trim or obstructions to ensure proper ventilation of the refrigeration system.

CAUTION!

- Equipment must be wired according to local and national electrical codes.
- Always disconnect power before servicing freezer.



Installation

Installing Levelers

- 1. Remove levelers from plastic bag packed inside freezer (Fig. 1).
- 2. Tip freezer back and screw levelers in all the way to stop (they will extend 1/8" below base of FZR).
- **3.** Adjust levelers as needed to level FZR in both directions. To access levelers, remove the lower front panel. Turn levelers clockwise to extend levelers.

Note: If you are using this in a food service application and installing in accordance with NSF, you must seal the unit to the floor once it is set in place. Place a 1/8" bead of NSF-approved silicone sealant (not provided) around the base of the unit.

Battery Backup (Touchscreen and Keypad units only)

- 1. Provide power to the unit and turn the power switch to the **ON** position.
- **2.** Open the door using the keypad lock and prop the door open so it doesn't close during the battery installation.
- **3.** Turn power switch to the **OFF** position or unplug the unit from the power supply.
- **4.** Remove the four screws (**Fig. 2.1**) on the kick panel at the bottom of the unit.
- Remove the kick panel and slide the panel to the right of the freezer.

Note: Take care when removing, some wires are connected to the kick panel (Fig. 2.2).

- **6.** Find the control module on the left-hand side of the unit, just to the left of the condenser.
- 7. Locate the battery pack wiring harness that is hanging next to the backup battery pack.
- 8. Connect the battery pack harness to the battery pack.
- If a Low Battery Alarm Error is present on the controller display, acknowlede the alarm as follows:
 - Basic controller: Press and hold SET button for 3-5 seconds until RST appears
 - Touchscreen controller: Press the checkbox icon old located in the yellow alert box.
- **10.** Re-install the kick plate.
- **11.** Close the door and check to make sure that the wire on the hinge side of the door is not kinked or pinched.
- **12.** Test operation of the keypad lock while the power to the unit is **OFF** to confirm back-up battery connection.
- **13.** Turn the power switch **ON** or plug the unit back into the power supply.

Fig. 1

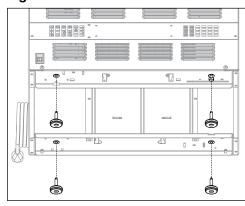
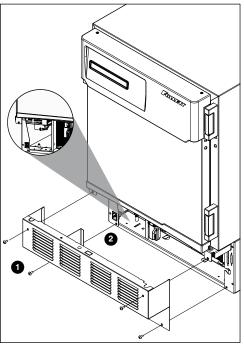


Fig. 2

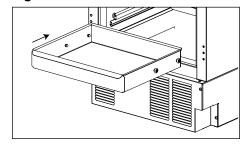


Installing Shelves

- 1. Remove shelves packed as an accessory (Fig. 3).
- 2. Place top notch of shelf bracket into pilaster, then bottom notch.
- 3. Press down on top of shelf to lock the shelf into the pilaster.

Fig. 3

Fig. 4



Installing Drawer

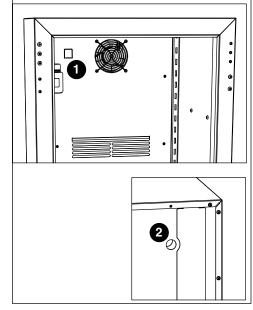
CAUTION!

- Do not use casters on units with drawers. Personal injury or damage to unit could result.
- 1. Remove drawer packed as an accessory (Fig. 4).
- 2. Install the two rollers to the threaded holes on each side of the inside of the cabinet.
- 3. Hang one drawer slide on the each side of the cabinet by holding the slide parallel to the bottom of the cabinet, tipping the slide at a 45 degree angle, and pushing the slide over the two rollers.
- 4. Once the drawer slides are installed, slide the two rear rollers of the drawer into the slots on the top of the lower channel of the slides. Tip up the front of the drawer and slide the back until the front drawer roller lines up to slot. Drop the front drawer roller into the channel and push the drawer all the way in the cabinet.
- **5.** Test operation of the drawer by sliding the drawer all the way out, then back in.

Third-party Probe - Optional

- 1. Locate the three sided knockout (Fig. 5.1) on the evaporator cover on the inside of the freezer, just left of the fan.
- 2. Push the knockout with a screw driver until it folds down.
- 3. Locate the yellow foam circle on the rear of the box (Fig. 5.2).
- **4.** Using a screw driver, puncture a hole through the foam to make an access hole for the third-party temperature probe.
- **5.** Fish the temperature probe through the foam circle in the back of the unit, then through the knockout on the evaporator cover.
- **6.** Position the third party probe in the desired location in the freezer cabinet.
- 7. Use Permagum* or equivalent sealant to replace foam insulation and ensure proper performance of freezer.
- * Permagum is a registered trademark of the Presstite Engineering Company.

Fig. 5



Reversing the Door Swing – Optional

Tools needed:

- #2 Phillips head screwdriver
- Flat-head screwdriver
- Awl
- Gloves
- Safety glasses
- **1.** Turn power OFF (and, if applicable, disconnect the battery backup) prior to reversing door swing.
- 2. Remove kick panel* and disconnect reed switch where applicable (Fig. 6).
 - * If the unit has a keypad lock, the door must be open to remove the kick panel.
- **3.** Find the control module on the left-hand side of the unit, just to the left of the condenser.
- **4.** Remove the thumb nut **(Fig. 7.1)** securing control module to underside of cabinet **(Fig. 7.2)**.

Fig. 6

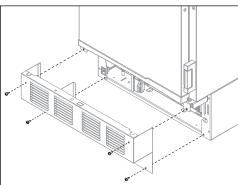
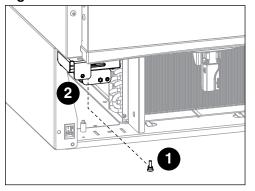
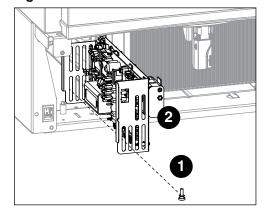


Fig. 7



5. Pull control module forward 1 inch, rotate left as per Fig. 8, and continue to pull the control module forward.

Fig. 8



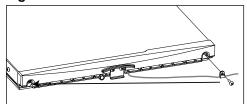
- **6.** Disconnect the door communication harness from the P10 terminal on the control board.
- 7. Locate the wire tie securing the door harness to the underside of the cabinet and cut.
- **8.** Locate the ground screw in the front right-hand corner that secures the communication harness ground wire and remove. Do **not** discard the ground screw.
- **9.** Remove the wire and strain relief from the right side panel and pull the communication harness through the opening. **(Fig. 9)**.

Fig. 9



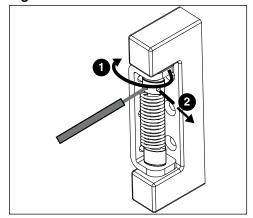
10. Remove the screw from the white strap on the hinge side of the wire channel (Carefully remove the control wire from the channel ensuring the insulation jacket does not tear.) Route through channel to opposite side of door. Reinstall the wire and strap on the opposite side of the door.

Fig. 10



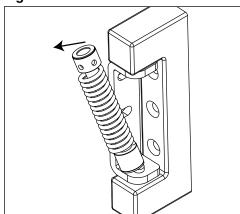
- **11.** Use a flat screwdriver to carefully remove hinge covers.
- 12. Rotate top of spring assembly (clockwise for left-hands doors and counter-clockwise for right-hand doors) (Fig. 11.1) to remove the pin (Fig. 11.2).
- 13. Relieve torque on the spring.
- **14.** Remove the knockout on the kick panel and move the strain relief to the opposite side.

Fig. 11



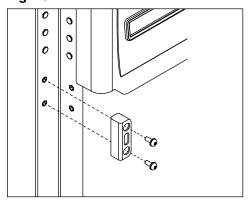
15. With flat-head screwdriver, simultaneously push down and pry the top of the spring out of the top of the hinge **(Fig. 12)**.

Fig. 12



16. Remove screws and latch from refrigerator cabinet and the lock from the door **(Fig. 13)**.

Fig. 13



- **17.** Support door and remove screws attaching hinge to refrigerator cabinet and remove the door **(Fig. 14)**.
- 18. Remove the hinge from the door.
- **19.** Remove hinge screws from opposite side of cabinet and transfer to riv-nuts now left exposed from hinge removal on both the cabinet and door side.
- **20.** Reinstall the hinges on the opposite side of the door.

NOTE: When reversing the door the hinges must also be flipped upside down

- **21.** Adjust the hinges on the door by pushing the loose hinges towards the gasket side of the door until the hinge is stopped by the screws. Tightened screws.
- **22.** Remove knock out on left side panel and route door cable and strain relief through opening.
- **23.** Reinstall the door onto the cabinet but keep the mounting screws loose temporarily.
- 24. Reinstall lock and strike bracket to opposite side of door/cabinet.
- **25.** Reinstall tension spring onto top hinge and adjust for proper closure.
- **26.** When spring is properly tensioned, door should automatically close when held open roughly 1".
- 27. Reinstall hinge covers.
- 28. Route door cable to the P10 terminal on the control board.
- **29.** Using ground screw from Step 7, secure the communication harness ground wire in the front left-hand corner of the base plate. The connection is approximately 2" from the left side and 0.5" from the front.
- **30.** Reinstall control module.
- 31. Reinstall kickplate.

Installing Glycerine Solution in Product Simulation Bottle

(glycerine not included - P/N00959296)

- 1. Remove the bottle from the bracket located in the upper left side of the freezer (Fig. 15).
- **2.** Remove the top and fill the bottle with a 60/40 solution of glycerine and water.
- 3. Replace the top (and probe).
- 4. Reinsert bottle into the bracket.

Note: If you are using this in a food service application, and installing in accordance with NSF, you must remove the probe from the bottle. NSF requires that air temperature be displayed.

Fig. 14

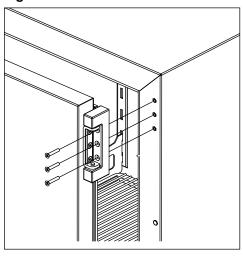


Fig. 15



Operation

The temperature control board and probe indicate when the refrigeration system is required to turn on and off.

The refrigeration system removes heat from the cabinet interior and rejects it to the surrounding room air. When the cabinet interior temperature rises above the controller cut-in temperature, the controller turns the refrigeration system on. The controller energizes the evaporator fan and solid-state control relay which energizes the condensing unit. The compressor uses a current-style starting relay and a starting capacitor to start the compressor motor.

When the cabinet interior falls below the predetermined cut-out temperature, read by the P1 (control probe), the controller de-energizes the solid state compressor relay and condenser fan motor. The evaporator fan continuously runs to acheive desired product temperature.

Any accumulated frost on the evaporator coils melts during the electric defrost cycle. The condensate drains out of the unit to the condensate tray to the left of the condensing unit. The heat from the condensing unit evaporates any condensate in the drain pan.

Temperature Control

The temperature control system is preset by the factory to maintain a cabinet temperature of –28 C (–18 to F). If desired, the set-point temperature can be raised as high as –17 C (0 F) by following the instructions in Controller Operation on page 6 for changing the temperature set point. The 2.2 C (4 F) differential will be maintained regardless of the controller set point.

Defrosting

The Performance Plus freezer is equipped with an electric defrost to keep the evaporator frost free. Defrost cycle terminates after 30 minutes or when the evaporator reaches 5 C (41 F) as read via the P2 (defrost) probe.



Controller Operation - Performance Plus

In normal operation, the controller displays cabinet temperatures in degrees C or user-selected degrees F. F temperatures are displayed to the nearest degree and C temperatures are displayed to one decimal point.

The controller is pre-programmed with a -28 C (-18 to F) set point. **COMP** displays when the compressor is running. If this set point does not meet your specific application needs, instructions for changing the set point are found below.

Controller Display

The controller display will show the temperature in degrees C or degrees F as selected by the user except when the unit is in an alarm.

The controller has system indicators above the temperature display to let you know when: the compressor is energized (**COMP**), the evaporator fan is energized (**FAN**) or the unit is in defrost (**DEF**).



To displa	To display temperature Set-point			
Step	Input	Display		
1	Press and release SET	Current set-point temperature will display for approximately 5 seconds. Display will return to current product temperature.		

To chang	To change temperature Set-point			
Step	Input	Display		
1	Press and hold SET for 3 seconds	Set-point will flash.		
2	Press UP or DOWN arrows to desired set-point	New temperature set-point will flash on the display.		
3	Press and release SET to accept	Product temperature will display.		

Controller Security

The controller can be locked so that the set-points in the controller cannot be changed.

- 1. To lock, press UP and DOWN arrows simultaneously until LOC appears (approximately 5 s).
- 2. To unlock the controller, press up and down arrows simultaneously until UNL appears. Changes are only accepted when the controller is unlocked.

Changing Temperature Display from C to F

- 1. Press SET and UP arrow simultaneously until L1 is displayed.
- 2. Press the **UP** arrow until **UNT** is displayed. Press **SET** then use the **UP** and **DOWN** arrows to change the temperature display from F to C. Press **SET** to accept. The display will return to the temperature in approximately 10 s.

Sleep Function

Press the **SLEEP** button to blank the display, or press any button to wake the display. If the unit goes into an alarm, the display will wake to display the alarm.



Temp Log

High and low log display

- 1. Press the **UP** arrow to display the highest temperature the freezer has recorded since last reset or power cycle.
- 2. Press the **DOWN** arrow to display the lowest temperature that the freezer has recorded since last reset or power cycle.

Reset high and low log

- 1. Press **UP** or **DOWN** arrow until recorded temperature is displayed.
- 2. Press and hold SET until RST is displayed.

Alarming Functions

Set high and low alarms

- 1. Press and hold **SET** and **UP** arrows simultaneously until **L1** is displayed. Use the **UP** and **DOWN** arrows to navigate parameters.
- 2. The low temperature alarm parameter is AIL. Once the parameter is displayed, press SET to display the low alarm temperature. The alarm temperature will flash on the display. Use the UP and DOWN arrows to set the alarm temperature. Press SET to accept.
- 3. The **high** temperature alarm parameter is **AIH**. Once the parameter is displayed, press **SET** to display the high alarm temperature. The alarm temperature will flash on the display. Use the **UP** and **DOWN** arrows to set the alarm temperature. Press **SET** to accept.

Start-up alarm delay

The Performance Plus unit has a 120 minute time delay between when the unit is energized to when the temperature alarms become active. This delay can be change in parameters in the controller under **Alarm Startup Delay (ASd)**.

Mute the Alarms

The mute button is used to temporarily mute the audible alarm for 10 minutes. If the alarm condition of the unit has not changed in 10 minutes, then the alarm will sound again.

Alarm acknowledgement and alarm Reset

The alarm will need to be acknowledged after the alarm condition has been resolved, before the alarm will reset. To acknowledge the alarm press and hold set until the RST is displayed.

Alarming Contacts

This unit is equipped with dry contacts that may be connected to a 3rd party monitoring system. The contacts are located on the back of the unit. Standard Performance Plus units utilize the Alarm 1 set (top 3). 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, System errors or probe error.

Probe calibration

The temperature probes can be calibrated from **-9.9 to +9.9**. The calibration is in the second level menu under **P1C** (control probe) **P2C** (defrost) **P3C** (Alarm).



Alarm Codes

When the unit senses an alarm, the display will flash the following codes.

Value	Description
HA1	Temperature is above the High Alarm#1 set point.
LA1	Temperature is below the low Alarm #1 set point.
HA2	Temperature is above the High Alarm #2 set point.
LA2	Temperature is below the Low Alarm #2 set point.
DFA	Defrost time out (lasted the full 30 minutes)
Lob	Low battery alarm.
dA	Door open alarm.

Error Codes

Value	Description
P1-P3	Controller is not sensing the probe.
F9	Error saving new parameter values to permanent storage.
F10	Incomplete model configuration.
F11	Number/membrane is sticking.
F21	Key shorted on user interface.
F22	Communication error with user interface.
F23	Communication error with Machine Control.

Advanced Settings

The freezer can be further customized through the first level (L1) and second level parameters (L2) in the chart below.

- 1. Press and hold **SET** and **UP** arrows simultaneously until **L1** is displayed.
- 2. Use the **UP** and **DOWN** arrows to navigate the parameters. When the desired parameter is displayed, press **SET**.
- 3. Use the **UP** and **DOWN** arrows to navigate the sub menu of the parameter. Press **SET** to accept and the display will return to the parameter list (after 30 seconds the display will return to the temperature display).

Parameter	Display	Description
Beeper Function	bPr	Controls the audible beeper function on the controller. Off , All , door , Alarm , Error.
Beeper Volume	bPu	Sets the volume of the beeper: 0 (minimum) to 10 (maximum).
Button Clicks	btc	Sets if a beep should sound each time a button is pressed. Yes or No .
Sleep Function	SLP	Determines if sleep function activated from the panel. Yes or No.
Sleep Timer	SLt	Amount of time before the screen blanks automatically. 0 s to 600 s.
Alarm1 High Temp	A1H	High temperature to activate alarm1. User set point to 121 C (250 F).
Alarm1 Low Temp	A1L	Low temperature to activate alarm1. User set point to -46 C (-50 F).
Alarm1 Probe	A1P	Probe for Alarm. P1 (cabinet air), P2 (evaporator), P3 (simulation bottle).
Units	unt	Display temperatures in degrees C or F. F or C.



- 1. Press and hold SET and UP arrows simultaneously until L1 is displayed.
- 2. Press and hold SET and UP arrows simultaneously again until L2 is displayed.
- 3. Use the **UP** and **DOWN** arrows to navigate the parameters. When the desired parameter is displayed, press **SET**.
- 4. Use the **UP** and **DOWN** arrows to navigate the sub menu of the parameter. Press **SET** to accept and the display will return to the parameter list (after 30 seconds the display will return to the temperature display).

Parameter	Display	Description
Alarm1 Delay	A1d	Alarm1 delay before sounding. 0 to 60 minutes
Alarm1 Function	A1F	Defines the action taken when Alarm2 is activated. NO (normally open), NC (normally closed), R1 (activate relay), R2 (not used), DIS (disable).
Alarm1 Reset	A2r	Temperature difference to reset alarm1. 0 to 10 degrees.
Alarm2 Delay	A2d	Alarm1 delay before sounding. 0 to 60 minutes.
Alarm2 Function	A2F	Defines the action taken when Alarm2 is activated. NO (normally open), NC (normally closed), R1 (activate relay), R2 (not used), DIS (disable).
Alarm2 Reset	A2r	Temperature difference to reset alarm1. 0 to 10 degrees.
Alarm Ring back	Arb	Defines the time delay until the alarm will resound. 0 to 120 minutes
Alarm Startup Delay	ASd	Defines the alarm delay during startup. 0 to 180 minutes.
Alarm Silencing	ASL	Determines if the alarms can be silenced or not. Yes, No.
Maintain Alarm	nAL	Determines if the alarm (1-3) should be maintained if the temperatures fall back into range. Yes , No .
Probe 1 Calibration	P1C	Offset value for probe 1 calibration9.9 to 9.9.
Probe 2 Calibration	P2C	Offset value for probe 2 calibration9.9 to 9.9.
Probe 3 Calibration	P3C	Offset value for probe 3 calibration9.9 to 9.9.
Controller Parameter Reset	rSt	Reset to restore factory parameters.

Follett Keypad Lock

Default user passcode for first-time users

User Code 01 is factory set by default to 1 2 3 4 5 6.

Note: In order to continue using 1 2 3 4 5 6 as a default, user-selectable programming codes must be stored in slots 02 to 40.

User Codes 02 to 40 do not have any codes set up and are available for user-programming.

Each time a button is pressed, a chirp will be heard.

To Change the Master Code

The master code is needed to add or change the individual user codes. By default, the master code is set to 1 2 3 4 5 6.

The master code is stored in User ID # 99.

- 1. Press 3 6 5, the *, followed by the current Master Code, followed by ENTER (5 Chirps will be heard).
- 2. Press 9 9, followed by ENTER. (3 chirps will be heard).
- 3. Enter the new master code, followed by ENTER (3 chirps will be heard).
- 4. Re-enter the new master code, followed by ENTER. (5 chirps will be heard).
 - Pressing [CANCEL] at any point will cancel the routine.



To Enter or Change a User Code

- 1. Press 3 6 5, the *, followed by the Master Code, followed by ENTER. 5 Chirps will be heard.
- 2. Enter the user ID (a two digit code from 00 to 40), followed by ENTER. 3 chirps will be heard.
- 3. Enter the new user code (6 numbers), followed by ENTER. 3 chirps will be heard.
- **4.** Re-Enter the new User Code, Followed by **ENTER**. 5 chirps will be heard to acknowledge that a new code was entered.

Example: To enter a new user code of 4 4 3 3 5 5 for ID # 15

- 1. Press 3 6 5 * 1 2 3 4 5 6 [ENTER] (5 chirps will be heard).
- 2. Press 1 5 [ENTER] (3 chirps will be heard).
- 3. Press 4 4 3 3 5 5 [ENTER] (3 chirps will be heard).
- 4. Press 4 4 3 3 5 5 [ENTER] (5 chirps will be heard).

The new code has been entered for the ID.

To Delete a User Code

- 1. Press 3 6 5, the *, followed by the Master Code, followed by ENTER. 5 Chirps will be heard.
- 2. Enter the user ID to clear, followed by ENTER (3 chirps will be heard).
- **3.** Press **3 3 5**, # (3 chirps are heard) (335 = DEL).
- 4. Enter the user ID to clear, followed by ENTER (2 chirps will be heard).
- 5. Press 3 3 5, # (5 chirps are heard).

The code assigned to that user ID has been deleted. If an error is encountered, the control will beep continuously for 3 seconds. The Master Code stored in user ID 99 cannot be deleted.

Example: To delete the user code in ID 15:

- 1. Press 3 6 5 # 1 2 3 4 5 6 [ENTER] (5 chirps will be heard).
- 2. Press 1 5 [ENTER] (3 Chirps will be heard).
- **3.** Press **3 3 5**, # (3 Chirps will be heard) (335 = DEL).
- 4. Press 1 5 [ENTER] (2 Chirps will be heard).
- **5.** Press **3 3 5**, # (5 Chirps will be heard).



Controller Operation - Performance Plus Touchscreen

Use and care of the LCD Performance Plus 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 Centrigrade to Fahrenheit Help Probe set points Alarming functions Alarm mute Reset

Fig. 16



Fig. 17



- Product temperature is displayed in the upper right corner.
- 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.

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.

Reset the high and low temperatures

Touch the temperature display a second time and the reset function will appear under the high and low temperature. Touch the reset icon and a yellow message box will appear. Press of 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.

Fig. 18



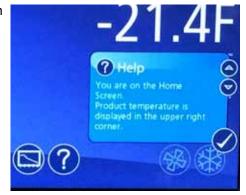
Fig. 19



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. 20



Settings 🛞

- Refrigeration Set Point (3)
 - 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 between −18 C (0 F) and −37 C (−35 F). 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.
- - 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.

Fig. 21



Fig. 22



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.

Fig. 23



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

The Performance Plus touchscreen units have a door switch that is located on the kick plate. The door switch will turn on the LED light and turn off the evaporator fan. If the door is open for more than one minute it will also cycle off the compressor. When the door is closed the evaporator fan and compressor will return to service.

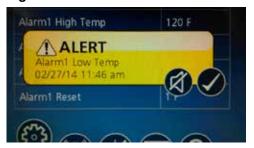
Door Alarm

The Performance Plus touchscreen units have a door alarm that is factory set for one minute. The alarm will clear when the door is closed. The door alarm activation time can be changed from 0-600 seconds in advanced setting under Door Open Alarm Delay.

Power Alarm

The Performance Plus touchscreen units have 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.

Fig. 24



Start-up alarm delay

The Performance Plus unit has a 120 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 (2)

- 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.
- Audible Alarm (1)
 - Toggle between **ON** and **OFF** to engage and disengage the audible alarm function.
- Mute
 - Touch the (i) icon to mute audible alarm for 15 minutes.

Alarming Contacts

This unit is equipped with dry contacts that may be connected to a 3rd party monitoring system. The contacts are located on the back of the unit. Performance Plus touchscreen units utilize Alarm 1 and Alarm 2 set (all 6). 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.

Probe calibration

The temperature probes can be calibrated from **-9.9 to +9.9** in the advanced setting on the touchscreen models. **P1** control, **P2** defrost, and **P3** Alarm.

Screen saver

The screen saver will replace the home screen and display a blank screen, time and date, or the temperature. When the screen is touched or the unit has an alarm or event, it will return to the home screen. The screen saver can be changed in the advanced setting.

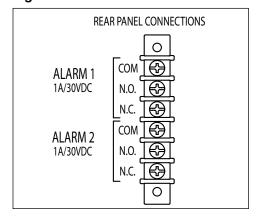
Screen saver function: blank, time and date, or temperature.

Screen saver time (sec): 0—600 seconds between the last touch of the screen to the activation of the screen saver.

Fig. 25



Fig. 26



Information Logs

- All available graphs, data logs and event logs are accessed through the Information Logs function. The home screen in the Information Logs section displays the product (P3) temperature graph with one week's data. Date and time information is displayed on the horizontal axis.
- The Performance Plus units come factory set to display only the product temperature (P3) on the graph. All of the probes on the Performance Plus unit can be viewed on the graph if desired. Probes can be added to the graph through the advanced setting under P1 to P3 by selecting the probe and changing the parameter from No to Yes. The selected probe will now display on the graph.
 - P1 control, P2 defrost, P3 Alarm
- Zoom in (+) or Zoom out (-) on an event/temperature on the home screen will change the time scale.
- Using the left and right arrows below the graph will scroll the graph.
 All the stored temperature data on the graph is viewable.
- Temperature Log to display a chronological listing of logged temperatures (latest logged temperature will display first), touch the "Temperature 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. 28

Fig. 27



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. 29



Data logging

The Performance Plus 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 change 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 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.
- 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 of 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 v to accept or v 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 Performance Plus unit. Download data reminder can be found in the advanced setting under Data duration and can be set from 1 to 180 days.

Follett Keypad Lock

For units enabled with keypad and electronic lock feature, keypad will be displayed on left side of screen.

Default user passcode for first-time users

- Master User Code 01 is factory set by default to 1 2 3 4 5 6.
- User Codes 01 to 40 are available for user-programming.
- Each time a button is pressed, a chirp will be heard.
- See Page 12 for detailed Follett Keypad Lock instructions.

Fig. 30



Fig. 31



Fig. 32



Changing and Adding the User Codes

- 1. Touch Settings (icon.
- 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.
- 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 1 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. 33



Fig. 34



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 1111).
- 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.

Advanced Settings

■ Touch **Advanced Settings**, enter your 4-digit user access code in the keypad that appears, and touch the checkmark icon oto access advanced settings screens (factory default is 1111).

Fig. 35





Advanced Setting - Touchscreen

Parameter	Default Value	Range	Description
Set Time and Date			
Time	7:45	0-12	Holds Hour
AM/PM	AM	AM, PM	Holds AM/PM
Month	12	1-12	Month
Day	16	1-31	Day
Year	2013	2010-2099	Year
System Informatio	n		
Serial Number	E12345	_	_
MC Version	33	_	MC version
EMC version	2	_	EMC version
Performance Plus UI version	17	_	Performance Plus UI version
Keypad version	2	_	Keypad version
Display Setup			
Beeper Function	ALL	Off, All, dr, Alr, Err	Controls the audible beeper function on the controller. Off (all off), All (all on), Door (dr), Alarm (Alr), Error (Err).
Beeper Volume	5	0-10	Beeper.
Button Clicks	Yes	Yes, No	Sets if a beep should sound each time a button is pressed.
Display Probe	Alarm (P3)	Control (P1), Defrost (P2), Alarm (P3), P4, P5	The probe to display on controller.
Resolution	Int	Int, Dec	Integer or decimal
Sleep Function	Yes	Yes, No	Sleep function will blank the screen after 0-600 seconds of non-use.
Sleep Timer	0 seconds	0-600 seconds	Amount of time before the screen blanks automatically.
Screen Saver Function	Temperature	Blank, temperature, date/time	Screen saver function will hide the home screen. It will display a blank screen, temperature, or time and date.
Screen Saver Timer	0 seconds	0-600 seconds	Amount of Time before the screen saver initiates.
Change Keypad Access Code	Change	_	Allows entry/editing of keypad access codes. Password required.
Control Setup			
User Set Point	-28 C (-18 F), Plasma -30.6 C (-23 F)	LSP-USP	The temperature setpoint that the user adjusts.
Differential	2 C (4 F)	1-60 degrees	Defines the difference between the cut-in and cut- out temperatures.
Upper Setpoint	–18 C (0 F)	_	Upper range of user-adjustable setpoint.
Lower Setpoint	–37 C (–35 F)	_	Lower range of user-adjustable setpoint.
Lock Setpoint Adjustment	Unlocked	Unlocked, locked	Locks the setpoint C/F, and alarm high/alarm low against accidental changes.
Import Parameters	No USB drive	No USB, import parameters	Import parameters from a USB port.
Export Parameters	No USB drive	No USB, export parameters	Export parameters from a USB port.
Alarm Setup			
Alarm 1 Delay	1 minute	0-60 minutes	Alarm1 delay before sounding.
Alarm 1 Function	R1	No, R1, R2, disable	Defines the action when Alarm 1 is activated. None (No), Relay 1 (R1), Relay 2 (R2), Display (disable).
Alarm 1 High Temp	49 C (120 F)	User Set Point 250	High temperature to activate Alarm 1.



Alarm 1 Low	Parameter	Default Value	Range	Description	
Alarm 1 Reset up Alarm 2 Set up Alarm 2 Delay 1 0-60 minutes Alarm 2 delay before sounding Alarm 2 Marm 2 Delay 1 0-60 minutes Alarm 2 delay before sounding Alarm 2 Delay 1 0-60 minutes Alarm 2 delay before sounding Alarm 2 Delay 1 Defines the action when Alarm 2 is activated. Alarm 2 High 49 C (120 F) User Set Point 250 High temperature to activate alarm 2. Temperature 50 Defines the action when Alarm 2 is activated. Alarm 2 High temperature to activate alarm 2. Temperature to activate alarm 2. Temperature 50 Defines 1 Defines 2 Defines 2 Defines 2 Defines 3 Defines 3 Defines 3 Defines 3 Defines 4 Defines 3 Defines 4 Defines 4 Define		-46 C (-50 F)	-50 - User Set Point	Low temperature to activate Alarm 1.	
Alarm 2 Set up Alarm2 Delay 1 0-60 minutes Alarm2 delay before sounding Alarm2 Function Disable No, R1 relay, R2 relay, Disable Defines the action when Alarm2 is activated. Alarm2 High Temp	Alarm 1 Probe	Alarm (P3)		Probe for Alarm 1.	
Alarm2 Delay 1	Alarm 1 Reset	1	0-10	Temperature difference to reset Alarm 1.	
Alarm2 Function Disable No, R1 relay, R2 relay, Disable Defines the action when Alarm2 is activated. Alarm2 High Temp Alarm2 Low Temp Alarm2 Probe Alarm (P3) Control (P1), Defrost (P2), Alarm (P3) Alarm2 Reset 1 degrees 0-10 degrees Temperature to activate alarm 2. Alarm3 Set up Alarm3 Punction Disable No, R1 relay, R2 relay, Disable Defines the action when Alarm3 is activated. Alarm3 Punction Disable No, R1 relay, R2 relay, Disable Defines the action when Alarm3 is activated. Alarm3 Function Disable No, R1 relay, R2 relay, Disable Defines the action when Alarm3 is activated. Alarm3 High 49 C (120 F) User Set Point 250 High temperature to activate alarm 3. Alarm3 Probe Alarm (P3) Alarm (P3) Low temperature to activate alarm 3. Alarm3 Probe Alarm (P3) Control (P1), Defrost (P2), Alarm (P3), P44 Alarm3 Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. Alarm Relay to degrees Temperature difference to reset alarm 3. Alarm Relay to degrees Temperature difference to reset alarm 3. Alarm Relay to degrees 1 degrees degree degre	Alarm 2 Set up				
Alarm2 High Temp	Alarm2 Delay	1	0-60 minutes	Alarm2 delay before sounding	
Alarm2 Low -46 C (-50 F) -50 - User Set Point Low temperature to activate alarm 2.	Alarm2 Function	Disable	No, R1 relay, R2 relay, Disable	Defines the action when Alarm2 is activated.	
Temp Alarm 2 Probe Alarm (P3) Alarm (P3) Alarm (P3) Alarm (P3) Probe for Alarm 2. Alarm2 Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 2. Alarm3 Set up Alarm3 Set up Se		49 C (120 F)	User Set Point 250	High temperature to activate alarm 2.	
Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 2. Alarm 3 Set up Alarm 3 Set up Alarm 3 Function Disable No, R1 relay, R2 relay, Disable Defines the action when Alarm 3. Temporature difference to reset alarm 2. Alarm 3 High Set up Alarm 3 Low Set Point 250 Set Point Set Point Set Point Set Up Set Point Set Up Set		-46 C (-50 F)	-50 - User Set Point	Low temperature to activate alarm 2.	
Alarm 3 Set up Alarm 3 Delay 1 0-60 minutes Alarm3 delay before sounding Alarm3 Function Disable No, R1 relay, R2 relay, Disable Defines the action when Alarm3 is activated. Alarm3 High 49 C (120 F) User Set Point 250 High temperature to activate alarm 3. Alarm3 Low 1-46 C (-50 F) 1-50 - User Set Point 1 Low temperature to activate alarm 3. Alarm3 Probe Alarm (P3) Control (P1), Defrost (P2), Alarm (P3), P4 Alarm3 Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. General Alarm Reset Alarm Ringback 10 minutes 0-120 minutes Defines the time delay until the alarm will resound. Alarm Remote Reset No On, I1, I2, I3, I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Alarm Silencing Yes Yes, No Determines if the alarms can be silenced or not. Maintain Alarm Yes Yes, No Determines if the alarms can be silenced or not. Door Open Alarm No Yes, No Sound beeper when door alarm activated. Door Open Alarm Door Open Alarm On Yes, No Determines if the elarm delay. Door Open Alarm Door Open Alarm On Yes, No Determines if the elarm activated. Door Open Alarm On On Yes, No Determines if the elarm activated. Door Open Alarm On On One Pisable No, R1 relay, R2 relay, Disable Alarm Relay to activate when door open alarm activated. Door Control No Yes, No Defines the time to shut off the compressor after the door is open. Door Compressor on One One One One One One One One One On	Alarm2 Probe	Alarm (P3)		Probe for Alarm 2.	
Alarm3 Delay 1 0-60 minutes Alarm3 delay before sounding Alarm3 Function Disable No, R1 relay, R2 relay, Disable Defines the action when Alarm3 is activated. Alarm3 High Temp Alarm3 Low Temp Alarm Shigh Temp Alarm Probe Alarm (P3) Control (P1), Defrost (P2), Alarm (P3) Probe for Alarm 3. Alarm3 Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. General Alarm Reset Alarm Renote No On, I1, I2, I3, I4 Determines if the alarm delay until the alarm will resound. Alarm Startup Delay Alarm Wes Yes, No Determines if the alarm (can be silenced or not. Maintain Alarm Yes Yes, No Determines if the alarm (can be silenced or not. Maintain Alarm No Yes, No Determines if the alarm (can be silenced or not.) Door Control Door Open Alarm Relay Door Open Alarm No Yes, No Sound beeper when door alarm activated. Door Open Alarm Door Open Alarm On, No Yes, No Defines if the evap fan should shut off when the door so open. 0=ignore Light control Door Compressor of So seconds O-180 Seconds Defines the time to shut off the compressor after the door is open. 0=ignore Light control Turn light on/off with door openings.	Alarm2 Reset	1 degrees	0-10 degrees	Temperature difference to reset alarm 2.	
Alarm 3 Function Disable No, R1 relay, R2 relay, Disable Defines the action when Alarm3 is activated. Alarm3 High 49 C (120 F) User Set Point 250 High temperature to activate alarm 3. Alarm3 Low Temp -46 C (-50 F) -50 - User Set Point Low temperature to activate alarm 3. Alarm3 Probe Alarm (P3) Control (P1), Defrost (P2), Alarm (P3), P4 Alarm3 Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. General Alarm Reset Alarm Ringback 10 minutes 0-120 minutes Defines the time delay until the alarm will resound. Alarm Remote Reset No On, I1, I2, I3, I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Alarm Startup 120 minutes 0-180 minutes Defines the alarm delay during startup. Delay Yes, No Determines if the alarms can be silenced or not. Maintain Alarm Yes Yes, No Determines if the alarms can be silenced or not. Maintain Alarm No Sound beeper when door alarm activated. Door Open Alarm Sound So	Alarm 3 Set up				
Alarm3 High Temp Alarm3 Low Temp Alarm3 Low Temp Alarm3 Probe Alarm (P3) Alarm (P3) Alarm (P3), P4 Alarm (P3), P4 Alarm Reset 1 degrees 0-10 degrees Temperature difference to reset alarm 3. General Alarm Reset Alarm Remote Reset Alarm Remote Reset Alarm Startup Delay Alarm Silencing Temp Door Control Door Open Alarm Door Open Relay Door Open Relay Door Open Relay Door Compressor time Door Compressor time Door Compressor time Light control Turn light on/off with door openings. Vontrol (P1), Defrost (P2), Alarm (P3), P4 Low temperature to activate alarm 3. Probe for Alarm 3. Alarm Silencing 1 degrees Octor Alarm Silencing 1 degrees One I, I, I, I, I, I, I, I, I, I degrees One I,	Alarm3 Delay	1	0-60 minutes	Alarm3 delay before sounding	
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Alarm Reset		-46 C (-50 F)	-50 - User Set Point	Low temperature to activate alarm 3.	
General Alarm Reset Alarm Ringback 10 minutes 0-120 minutes Defines the time delay until the alarm will resound. Alarm Remote Reset No On, I1, I2, I3, I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Alarm Startup Delay 120 minutes Pes, No Determines if the alarms can be silenced or not. Maintain Alarm Yes Yes, No Determines if the alarms can be silenced or not. Maintain Alarm Yes Yes, No Determines if the alarms can be silenced or not. Maintain Alarm No Pes, No Determines if the alarm (1-3) should be maintained if the temperatures fall back into range. Door Control Door Open Alarm No Yes, No Sound beeper when door alarm activated. Door Open Alarm 60 seconds Door open alarm delay. Door Open Relay Disable No, R1 relay, R2 relay, Disable Alarm Relay to activate when door open alarm activated. Door Fan control No Yes, No Defines if the evap fan should shut off when the door is open. Door compressor time to shut off the compressor after the door is open. 0=ignore Light control No Yes, No Turn light on/off with door openings. Turn light on/off with door openings. Turn light on/off with door openings. Turn off the light after XX seconds Power Alarm	Alarm3 Probe	Alarm (P3)		Probe for Alarm 3.	
Alarm Ringback 10 minutes 0-120 minutes Defines the time delay until the alarm will resound. Alarm Remote Reset No On, I1, I2, I3, I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Alarm Startup Delay 120 minutes O-180 minutes Defines the alarm delay during startup. Maintain Alarm Silencing Yes Yes, No Determines if the alarms can be silenced or not. Maintain Alarm Yes Yes, No Determines if the alarms can be silenced or not. Maintain Alarm No Determines if the alarms can be silenced or not. Door Control Door Open Alarm No Yes, No Determines if the alarms can be silenced or not. Door Open Alarm No Yes, No Determines if the alarms can be silenced or not. Door Open Alarm No Open Alarm Sound beeper when door alarm activated. Door Open Alarm Delay Disable No, R1 relay, R2 relay, Disable Alarm Relay to activate when door open alarm activated. Door Open Relay Disable No, R1 relay, R2 relay, Disable Alarm Relay to activate when door open alarm activated. Door Compressor 60 seconds Defines if the evap fan should shut off when the door is open. Door compressor 60 seconds Defines the time to shut off the compressor after the door is open. Deginore Light control Turn light on/off with door openings. Turn light on/off with door openings. Turn off the light after XX seconds Power Alarm	Alarm3 Reset	1 degrees	0-10 degrees	Temperature difference to reset alarm 3.	
Alarm Remote Reset No On, I1, I2, I3, I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Alarm Startup Delay 120 minutes O-180 minutes Defines the alarm delay during startup. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Determines if the alarms can be silenced or not. Determines if the alarms can be silenced with a remote input from I1, I2, I3 or I4 Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced or not. Determines if the alarms can be silenced	General Alarm Re	eset			
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Maintain Alarm Yes Yes, No Determines if the alarm(1-3) should be maintained if the temperatures fall back into range. Door Control Door Open Alarm Door Open Relay Disable No, R1 relay, R2 relay, Disable Alarm Relay to activate when door open alarm activated. DoorFan control No Yes, No Defines if the evap fan should shut off when the door is open. Door compressor time Control Door Compressor time Light control Turn light on/off with door openings. Turn light on/off with door openings. Turn off the light after XX seconds Turn off the light after XX seconds Turn off the light after XX seconds		120 minutes	0-180 minutes	Defines the alarm delay during startup.	
the temperatures fall back into range.Door ControlDoor Open Alarm Door Open Alarm DelayNoYes, NoSound beeper when door alarm activated.Door Open Alarm Delay60 seconds0 - 300 secondsDoor open alarm delay.Door Open Relay Door Open RelayDisableNo, R1 relay, R2 relay, Disable Alarm Relay to activate when door open alarm activated.DoorFan control Door compressor timeNoYes, NoDefines if the evap fan should shut off when the door is open.Door compressor time60 seconds0-180 SecondsDefines the time to shut off the compressor after the door is open. 0=ignoreLight controlNoYes, NoTurn light on/off with door openings.Light off timer120 seconds0-600 SecondsTurn off the light after XX secondsPower Alarm	Alarm Silencing	Yes	Yes, No	Determines if the alarms can be silenced or not.	
Door Open Alarm No Yes, No Sound beeper when door alarm activated. Door Open Alarm Delay 60 seconds 0 - 300 seconds Door open alarm delay. Door Open Relay Disable No, R1 relay, R2 relay, Disable Alarm Relay to activate when door open alarm activated. DoorFan control No Yes, No Defines if the evap fan should shut off when the door is open. Door compressor time 60 seconds 0-180 Seconds Defines the time to shut off the compressor after the door is open. 0=ignore Light control Turn light on/off with door openings. Light off timer 120 seconds 0-600 Seconds Turn off the light after XX seconds Power Alarm Power Alarm	Maintain Alarm	Yes	Yes, No		
Door Open Alarm Delay Disable No, R1 relay, R2 relay, Disable Alarm Relay to activate when door open alarm activated. Door Open Relay Disable No, R1 relay, R2 relay, Disable Alarm Relay to activate when door open alarm activated. Door Fan control No Yes, No Defines if the evap fan should shut off when the door is open. Door compressor time 0-180 Seconds Defines the time to shut off the compressor after the door is open. 0=ignore Light control Turn light on/off with door Openings. Light off timer 120 seconds O-600 Seconds Turn off the light after XX seconds Power Alarm	Door Control				
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DoorFan control No Yes, No Defines if the evap fan should shut off when the door is open. Door compressor time O-180 Seconds Defines the time to shut off the compressor after the door is open. 0=ignore Light control Turn light on/off with door openings. When the evap fan should shut off when the door is open. Turn light on/off with door openings. Turn light on/off with door openings. Turn off the light after XX seconds Power Alarm		60 seconds	0 - 300 seconds	Door open alarm delay.	
Door compressor time 0-180 Seconds Defines the time to shut off the compressor after the door is open. 0=ignore Light control Turn light on/off with door Turn light on/off with door openings. Light off timer 120 seconds 0-600 Seconds Turn off the light after XX seconds Power Alarm	Door Open Relay	Disable	No, R1 relay, R2 relay, Disable	· ·	
time door is open. 0=ignore Light control Turn light on/off with door openings. with door Light off timer 120 seconds 0-600 Seconds Turn off the light after XX seconds Power Alarm	DoorFan control	No	Yes, No	■	
Turn light on/off with door openings. Light off timer 120 seconds 0-600 Seconds Turn off the light after XX seconds Power Alarm	•	60 seconds	0-180 Seconds		
with door Light off timer 120 seconds 0-600 Seconds Turn off the light after XX seconds Power Alarm	Light control				
Power Alarm		No	Yes, No	Turn light on/off with door openings.	
	Light off timer	120 seconds	0-600 Seconds	Turn off the light after XX seconds	
Power Alarm No Yes, No Defines if an alarm should sound if power is lost.	Power Alarm				
i i i i i i i i i i i i i i i i i i i	Power Alarm	No	Yes, No	Defines if an alarm should sound if power is lost.	



Parameter	Default Value	Range	Description
Power Alarm Relay	No	Yes, No	Defines if relay should open/close on power alarm.
Power Alarm Timer	5 minutes	0 - 120 minutes	Delay before sounding the power alarm.
Battery Level			Battery Level
Data Storage	Yes	Yes, No	Overwrite circular data?
Data Full Alarm	No	Yes, No	Alarm when data memory is full?
Data log			
Sample Rate	15 minutes	0 - 360 minutes	minutes between data sampling. 0=Off
Data Duration			
Data Storage	Yes	Yes, No	Overwrite circular data?
Data Full Alarm	No	Yes, No	Alarm when data memory is full?
Track Events	Yes	Yes, No	Track events with log
P1 Datalog	No	Yes, No	Log P1 to event log
P2 Datalog	No	Yes, No	Log P2 to event log
P3 Datalog	Yes	Yes, No	Log P3 to event log
Defrost			
Manual Defrost	No	Yes, No	Force the unit into a defrost
Defrost Control	Power on	"Power on,manual only,disable,time of day, compressor on time"	Defines tactic for initiating a defrost
Defrost Type	Heater	Heater, Evaporator	Type of defrost (forced heat or fan only)
Defrost Termination Tactic	Temperature	time, temperature	Defrost end routine
Defrost Timer	6 hours	0-720 hours	Hours between defrost cycles
Defrost Termination Temp	5 C (41 F)	0 to 66 C (32 to 150 F)	When set to temperature, defines temp.
Defrost Duration (mins)	30 minutes	0-60 minutes	When dtr set to t(time), duration of defrost. Failsafe time when set to temp.
Evap Fan Defrost Delay	30 seconds	0-300 seconds	Time to delay starting of evap fan after restarting system. (ignored if dtp=Fan)
Drip Timer	0 seconds	0-300 seconds	delay at end of defrost cycle before starting system.
Evap Fan Restart	Temperature	Time , Temperature	Defines if the evap fan should restart on time or temp after compressor starts during the defrost routine. T=time, Tp=temp
Evap Fan Temp	−9 C (15 F)	-37 to 13 C (-35 to 55 F)	Temperature to restart evap fan, when EFr= temp.
Graphing			
X Axis Range (hrs)	168 hours	1-384 hours	Time span for x-axis
Y Axis Minimum	–1 C (30 F)	-46 to 121 C (-50 to 250 F)	Minimum temperature shown on graph
Y Axis Maximum	27 C (80 F)	-46 to 121 C (-50 to 250 F)	Maximum temperature shown on graph
Graph Show Alerts	No	Yes, No	Determines whether alerts are displayed on the graph
P1 Graph Display	NO	Yes, No	Determines whether to graph probe 1
P2 Graph Display	No	Yes, No	Determines whether to graph probe 2
P3 Graph Display	Yes	Yes, No	Determines whether to graph probe 3



Parameter	Default Value	Range	Description
Door Heater			·
Door Heater	Yes	Yes, No	Controls door heater output
Door Heater Off (mins)	2	0-100	Off time for door heater if dht=on
Door Heater On (mins)	3	0-100	On time for door heater if dht=on
Error control			
Probe Error	BPr	NO, BPr, R1 relay, R2 relay	Action to take when probe error detected
Control On Time (mins)	3 minutes	0.0 - 120.0 minutes	Compressor on time when control probe error (minutes)
Control Off Time (mins)	10 minutes	0.0 - 120.0 minutes	Compressor off time when control probe error
Fail Safe Timer (mins)	0 minutes	0 - 180 minutes	Minimal time the suction or discharge fail safe routines must remain off when triggered.
Discharge Differential	38 C (100 F)	1 to 56 C (1 - 100 F)	The temperature differential the discharge probe must fall thru before resetting.
Calibration			
Calibrate probes			Calibrate probes through a second menu
Viewable			
Cut In			View cut in temperature
Cut Out			View cut out temperature
Probe 1 temp			View temperature of probe 1
Probe 2 temp			View temperature of probe 2
Probe 3 temp			View temperature of probe 3
Probe 8 temp			View temperature of probe 8
Power On Time (hrs)			View cumlitive hours that the unit was in service
Compressor cycles			The number of compressor starts
Compressor run time(hrs)			Veiw cumulative hours that the compressor was energized
Door open Cycles			The number of door opening
Door open time(hrs)			View cumulative hours that the door was open
Factory Reset			
Reset	No	No, Yes	Reset all parameters to factory reset



Cleaning

Interior: Using a sponge or soft cloth, clean unit with a non-abrasive, non-chlorinated, all-purpose detergent.

Exterior: Wipe 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.

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.

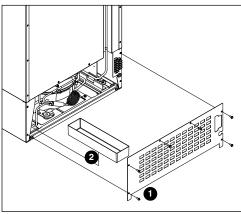
Use only non-chlorine-based cleaners. Cleaners containing chlorine can cause staining and pitting of the stainless steel.

- Disconnect power to unit by turning switch on the lower front panel to the OFF position and removing power cord from receptacle.
- 2. Remove lower front and rear panels (Fig. 36.1).

Note: Front louvered panel may be removed for more frequent cleaning of the condenser as needed.

- **3.** Remove drain pan **(Fig. 36.2)**. (FZR4P, FZR5P drain pan location shown.)
- **4.** Clean drain pan with a non-abrasive, non-chlorinated all-purpose detergent.
- 5. Reinstall drain pan.
- **6.** Use a vacuum cleaner with brush attachment to clean condenser through lower front panel and compressor motor and related parts through lower rear panel.
- 7. Reinstall lower rear and lower front panels.

Fig. 36



Service

Door Gasket Replacement

- **1.** Remove existing gasket from mounting track.
- 2. Verify mounting track is free of any remaining gasket material.
- 3. Align new gasket with mounting track and press firmly in place.
- **4.** Open and close door, checking for proper gasket seal without pinching against freezer.
- 5. Adjust latch and or striker as necessary for proper door closure.

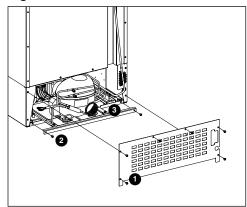
Slide-out Compressor Tray

Follett's slide-out compressor tray allows technicians to partially slide the condensing unit from the freezer back without cutting refrigerant lines.

- 1. Remove rear panel (Fig. 37.1).
- 2. Remove two bolts securing condensing unit to unit base (Fig. 37.2).
- 3. Carefully slide out condensing unit (Fig. 37.3).

Note: Do not put strain on the refrigerant lines.

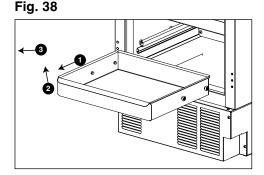
Fig. 37





Removing Drawers

- 1. Pull drawer forward to stop (Fig. 38.1).
- 2. Lift drawer front to free front rollers from sides (Fig. 38.2).
- 3. Still lifted, pull drawer forward to free back rollers from sides (Fig. 38.3).



Removing Slides

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

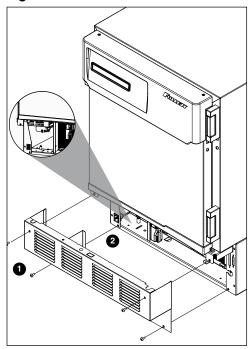
Changing the back-up Batteries

- **1.** Provide power to the unit and turn the power switch to the ON position.
- **2.** Prop the door open so it doesn't close during the battery change.
- **3.** Turn power switch to the OFF position and unplug the unit from the power supply.
- Remove the four screws (Fig. 39.1) on the kick panel at the bottom of the unit.
- Remove the kick panel and slide the panel to the right of the freezer.

Note: Take care when removing, some wires are connected to the kick panel (Fig. 39.2).

- **6.** Find the control module on the left-hand side of the unit, just to the left of the condenser.
- 7. Open the Velcro strap (Fig. 39.3) that holds the battery pack and the battery connector.
- 8. Remove the battery pack.
- **9.** Disconnect the connector to the battery pack.
- **10.** Remove the eight AA batteries from the battery pack.
- 11. Install eight NEW AA batteries into the battery pack.
- **12.** Re-connect the battery connector with the black and red wires to the top of the battery pack.
- **13.** Place the battery pack back in place on the control module and tighten the Velcro strap around the battery pack.
- 14. Re-install the kick plate.
- **15.** Close the door and check to make sure that the wire on the hinge side of the door is not kinked and slides freely in the strain relief.
- **16.** Test operation of the keypad lock while the power to the unit is OFF to confirm back-up battery connection.
- **17.** Turn the power switch ON or plug the unit back into the power supply.

Fig. 39





Controller Replacement

- 1. Open the door and prop the door open, so it doesn't close. For KP units, enter default code of 1 2 3 4 5 6.
- **2.** Turn power switch to the OFF position and unplug the unit from the power supply.
- 3. Remove the four screws (Fig. 40.1) on the kick panel at the bottom of the unit.
- **4.** Remove the kick panel. Some units may have a reed switch installed in the kick panel. For these units, disconnect the reed switch harness from the control board harness.
- **5.** The control module is located to the left of the condenser coil. The module is attached to the underside of the cabinet.
- **6.** Remove the thumb nut securing the front of the control module to the cabinet.

- 7. Pull control module forward 1 inch, rotate left as per Fig. 42, and continue to pull the control module forward. Place the module on the ground in front of the unit.
- **8.** Keep all wires connected to the original board. Locate and 8 standoffs keeping the control board elevated from the control module mounting plate.
- **9.** Using a needle-nose pliers, one at a time pinch the standoff tab inward and gently pull up on the control board. Repeat this process for all 8 standoffs until the board is free.
- **10.** Install the new control board on the control module mounting plate.
- **11.** Remove 1 wire at a time from the original board and transfer them to the same terminal on the new control board.
- **12.** Turn power ON and confirm operation of unit, including KP/E lock if applicable.
- 13. Reinstall the control board module.
- **14.** If applicable, reconnect the reed switch harness to the control board harness.
- **15.** Resinstall the front panel.
- **16.** Close the door.

Fig. 40

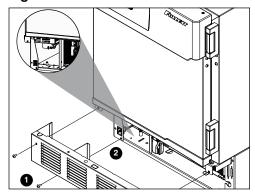


Fig. 41

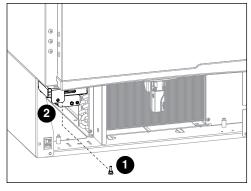
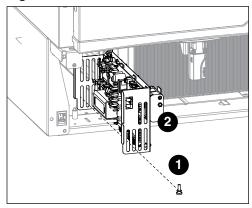
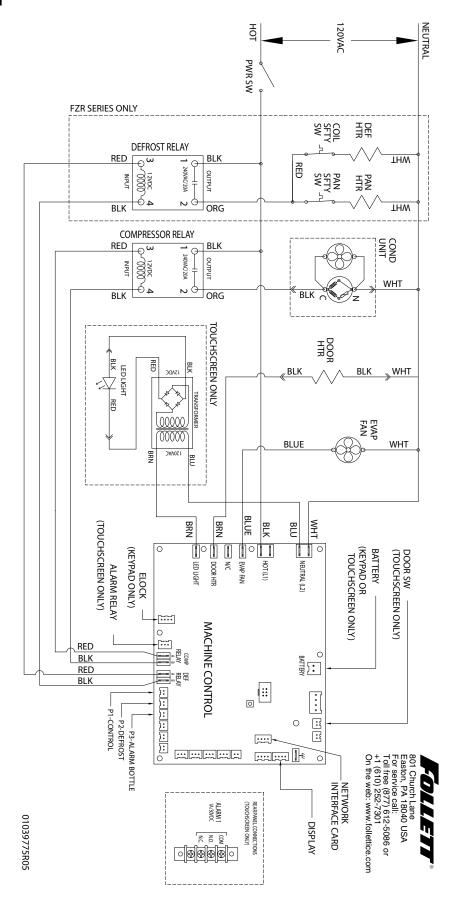


Fig. 42



Wiring Diagram





Refrigeration System

The Performance Plus 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 and is critically charged. The connection of refrigeration service hoses to the fittings will almost invariably result in a significant change in the system charge. This change can adversely affect the performance of your freezer. Therefore, Follett recommends that if hoses are ever connected to the refrigeration system for service, the refrigerant should be recovered, the system evacuated, and recharged by weighing in the correct refrigerant charge.

Checking Refrigeration System Pressures

- 1. Remove the rear access panel.
- 2. Turn the power switch to the **ON** position.
- 3. Verify that the temperature controller is set to the original factory cut-in setting.
- 4. Allow the freezer to operate and stabilize at least 30 minutes, verifying the cut-out temperature is being reached
- **5.** If the compressor doesn't cycle after 20 minutes, the following checks must be completed before checking refrigeration pressures:
 - condenser coil is clean and clear
 - condenser fan is running
 - evaporator coil is clean and clear
 - evaporator fan motor is running
 - compressor is running at normal amp draw
- 6. Measure air temperature at condenser intake grille.
- 7. Connect refrigerant hoses and verify correct pressures with the temperature chart below.
- 8. Troubleshoot refrigeration system as needed.

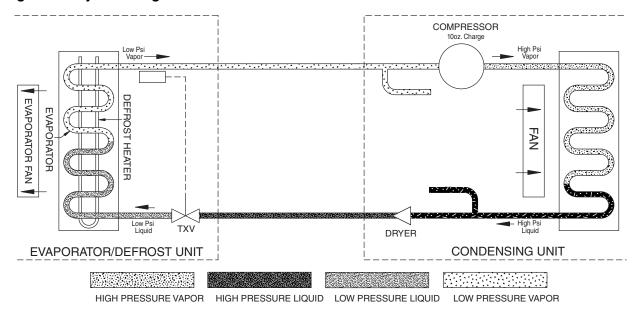
FZR4P, FZR5P

Condenser inlet air temperature	70 F (21.1 C)	80 F (26.7 C)	100 F (37.8 C)
Suction pressure (psi)	12	13	17
Discharge pressure (psi)	199	226	325

Note: Do not attempt to obtain correct refrigeration pressures by adjusting the system charge.



Refrigeration System Diagram



Compressor Information

Compressor	NF7CLX
Run load amps (RLA)	4.1
Lock rotor amps (LRA)	28
Ohms start winding to common	5.4
Ohms run winding to common	1.7
Ohms start winding to run winding	7.2



Troubleshooting

Before calling for service

- 1. Check that unit is plugged in.
- 2. Test outlet with another appliance to verify power.

Symptom	Possible Cause	Solution
Refrigerator does not operate (no components run).	Power switch faulty or in OFF position; loose connection.	Turn power switch to ON; check switch and connections.
	Refrigerator not plugged in.	Connect plug.
	No power to cord.	Restore power.
	Temp controller not energizing components.	Check controller contact terminals for power. Replace controller if needed.
	Probe not sensing set point temperature.	Replace controller and/or probe.
Compressor does not run.	Thermal overload open or defective.	Allow to cool or replace.
	Capacitor and/or relay defective.	Replace as required.
	Compressor defective.	Replace compressor.
Evaporator fan motor does not run.	Defective fan motor.	Replace fan motor.
Refrigerator does not shut off.	Controller not sensing cut-off temperature.	Replace controller and/or probe.
	Controller keeping refrigeration system energized.	Replace controller.
	Control relay faulty.	Replace control relay.
Refrigerator does not maintain	Condenser or evaporator coil needs cleaning.	Clean coils.
temperature (all components run).	Faulty door gasket.	Replace door gasket.
	Excessively high ambient or inadequate air clearance.	Maximum recommended ambient is 100 F (38 F).
	Refrigerant leak.	Locate and repair leak.
	Incorrect refrigerant charge.	Recover, evaluate and weigh in correct charge.
	Plugged capillary tube.	Replace capillary tube and filter drier.
	Inefficient compressor.	Consult technical services.

If problems persist after following this basic troubleshooting guide, call Follett's technical service group at (877) 612-5086.



Accessories

The following accessories are available for Performance Plus undercounter freezers. Instruction sheets are available in the download section of the Follett website (www.follettice.com).

Temperature Surveillance Module Accessory (P/N 00168674)

Reference instruction 00168609 (packed with module)

Pedestal Base (P/N 01059120)

Reference instruction 01062488 (packed with base)

Stacking Kit - Performance Plus to Peformance Plus (P/N 01054006)

Reference instruction 01054022 (packed with stacking kit)

Temperature Alarm Accessory (P/N 00112185)

Reference instruction 00112052 (packed with temperature alarm accessory)

Universal ADC Bracket (P/N 01059096)

Reference instruction 01062470 (packed with bracket)

Stacking Kit Legacy to Performance Plus (P/N 01067172)

Reference instruction 01067180

Note: new kickplates may need to be ordered, please contact Follett for more information.

Stacking Kit Countertop to Performance Plus (includes one straight kick plate) (P/N 01100759)

■ Reference instruction 01103084

Caster Kit (P/N 01053636)

Reference instruction 01067578

Seismic Kit (P/N 01059104)

■ Reference instruction 01068097

Straight Kick Plate Kit (P/N 01067016)

Reference instruction 01067560

Drawer Kit (includes one straight kick plate) (P/N 01053644)

Reference instruction 01067586

Two-drawer Kit (includes one straight kick plate) (P/N 01067750)

Reference instruction 01067586

Facia Door Heater Kit REF4 (P/N 01099431)

Reference instruction 01099456

Facia Door Heater Kit REF5 (P/N 01099449)

Reference instruction 01099456

Remote Alarm Accessory (P/N 01092022)

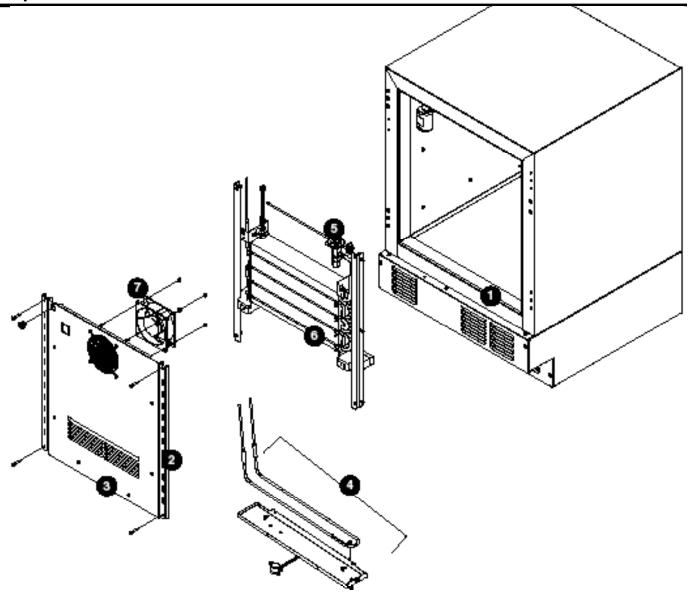
■ Reference instruction 01095868

Wall Mount Kit (P/N 00153700)

Reference instruction 00153692

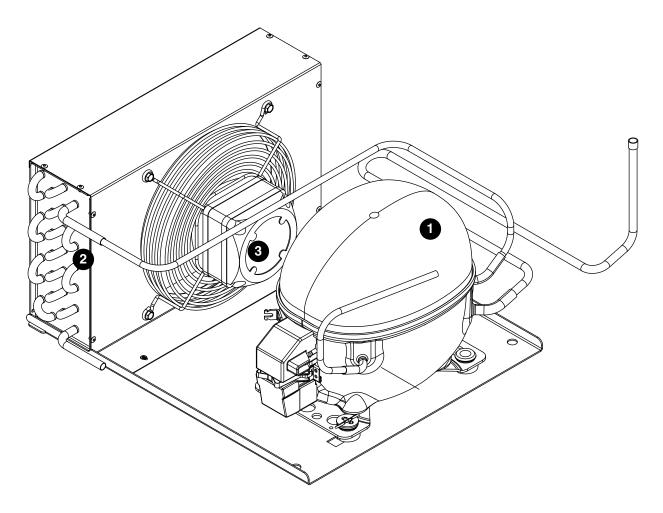


Replacement Parts



Evaporator

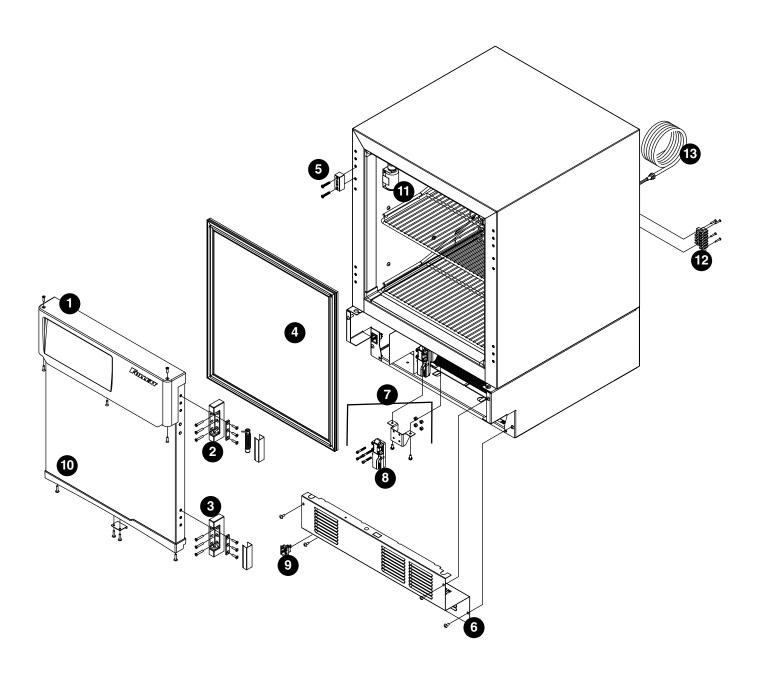
Reference #	Description	Part #
Not shown	Door heater REF5P/FZR5P	01049477
Not shown	Door heater REF4P/FZR4P	01049469
Not shown	Condensate pan	01012061
1	Thermal break cover REFP/FZRP (set of 6)	01053875
2	Shelf support	01192186
3	Evaporator cover REF4P/FZR4P	01192137
3	Evaporator cover REF5P/FZR5P	01192145
4	Drain pan heater assembly	01053974
5	TXV valve	01037563
6	Evaporator defrost heater	01017219
7	Evaporator fan motor	01053818



Condensing Unit

Reference #	Description	Part #
1	FZR Compressor (includes start components)	01280312
2	Condensor coil (includes coil, fan and base)	01280320
3	Condenser fan motor with blade	01363753
Not shown	Compressor start components	01053891
Not shown	Filter drier	01038223





Hardware

Reference #	Description	Part #
1	Façade, basic controller with hardware - Serial numbers after K29694	01192152
1	Façade, basic controller with hardware - Serial numbers before K29695	01053586
Not shown	Façade, basic controller with key pad & hardware - Serial numbers after K29694	01192160
Not shown	Façade, basic controller with key pad & hardware - Serial numbers before K29695	01053594
Not shown	Façade, Performance Plus touchscreen - Serial numbers after K29694	01192178
Not shown	Façade, Performance Plus touchscreen controller with hardware - Serial numbers before K29695	01053602
Not shown	Façade mounting bracket	01062702
2	Hinge top, with spring assembly & hardware	01053677
3	Hinge bottom	00940478
Not shown	Hinge kit, top & bottom with hardware	01053685
4	Door gasket FZR5P	01015924
4	Door gasket FZR4P	01037258
5	Lock with key, spacer & hardware	01053693
6	Kick panel with strain relief & hardware	01192194
6	Kick panel, PL and BB models, with strain relief & hardware	01192202
7	Spring bolt with bracket, latch & hardware	01053719
8	Spring bolt	01037571
9	Power switch	00967604
Not shown	Bottom door cap with magnet	01053735
10	Door, solid, REF5P/FZR5P, SVC	01067479
10	Door, solid, REF4P/FZR4P, SVC	01067487
11	Bottle bracket with cap & gasket	01053792
Not shown	Leveler	00128900
Not shown	Shelf	01025444
Not shown	Drawer with hardware	01053800
12	Alarm terminal block	01017508
13	Power cord	00995605
Not shown	Drawer kit	01053644
Not shown	Shelf kit	01025444
Not shown	Caster	01053636
Not shown	Glycerol	00959296
Not shown	Replacement key	01059112
Not shown	Seismic bracket	01059104
Not shown	Door heater REF5P/FZR5P	01049477
Not shown	Door heater REF4P/FZR4P	01049469
Not shown	Display, controller, touchscreen	01124221
Not shown	Display, controller, basic	01085794
Not shown	Kick panel support	01212224
Not shown	Communication harness, main board to display	01226554
Not shown	Battery pack	01053222
Not shown	Battery cable	01040278



Hardware and Electrical Components

Reference #	Description	Part #
Not shown	Board, control, FZR4P/5P/PLPC (serial numbers E98967 and above)	01111186
Not shown	Board, control, FZR4P/5P/PLP-KP (serial numbers E98967 and above)	01111194
Not shown	Board, control, FZR4P/5P/PLP-T (serial numbers E98967 and above)	01111202
Not shown	Board, control, FZR4P/5P/PLP-T-KP (serial numbers E98967 and above)	01111210
Not shown	Key pad driver board	01034735
Not shown	Compressor/defrost relay	01042092
Not shown	Temperature probe	01062801
Not shown	Refrigeration scrader valve caps	206230

Temperature Surveillance Module (Chart Recorder) Related Items

Reference #	Description	Part #
Not shown	Bracket, bottle, 125 mL	00171132
Not shown	Gasket, bottle, 125 mL	00171124
Not shown	Bottle, with cap, 125 mL (gasket not included)	00171116
Not shown	Battery	00112177
Not shown	Chart paper, 6" 7-day, 7 day (qty 60)	00162099
Not shown	Pens, replacement (qty 6)	00162081
Not shown	Probe, chart recorder	00162073

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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