



Installation, Operation, & Technical Manual

6/23/2011

**VF-1200X SERIES
UNDERCOUNTER REFRIGERATORS**



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Table of Contents

Installation.....	3
Unpacking.....	3
Installing Legs.....	3
Installing Shelves / Drawers.....	3
Installing Refrigeration Module.....	4
Reversing Door Orientation.....	4
 Caution.....	 5
 Mechanical Specifications.....	 5
 Models & Options.....	 5
 Electronic Temperature Controller.....	 6
 VersaTrak Integration.....	 7
 Operation.....	 8
 Cleaning & Maintenance.....	 8
General Cleaning.....	8
Annual Cleaning.....	8
 Replacement Parts.....	 9

Installation

Unpacking

After removal of the unit from its packaging, please inspect the exterior for concealed shipping damage. If any damage is found, notify the responsible shipping company immediately and contact The Veracity Group at **(888)-369-3601** for assistance.

Installing Legs

1. Remove legs from packaging
2. Tilt the **VersaFridge** unit back or to the side and screw the 4 ea legs into the 4 ea appropriate holes on the base of the cabinet. The legs should extend approximately 1/8" (3.2mm) to 1/4" (6.4mm) below the base of the unit. (See Figure 4.1)
3. Adjust the legs as needed to level the unit.
4. Once set in place, the perimeter of the units base along the floor must be sealed with NSF approved silicone or another NSF approved sealant.

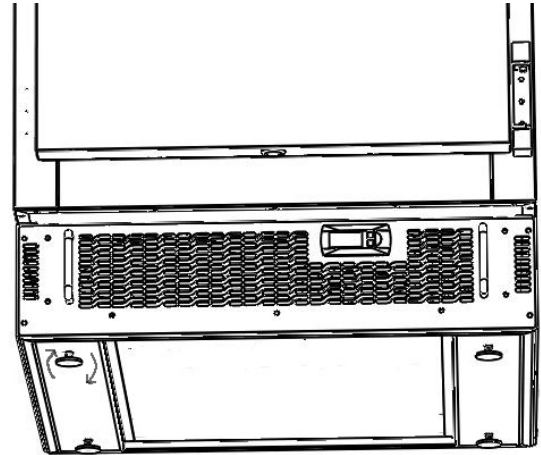


Figure 4.1

Installing Shelves / Drawers

1. Install shelf brackets by screwing clockwise into the holes provided on the interior left and right walls of the cabinet. (See Figure 4.2)
2. 4 ea shelf brackets are required per shelf
3. Place the shelves onto the shelf brackets. Make sure to check that the shelves are installed correctly, level, and secure.
4. Drawers can be added by attaching slides to any pair of holes on each side and clicking drawer in place.

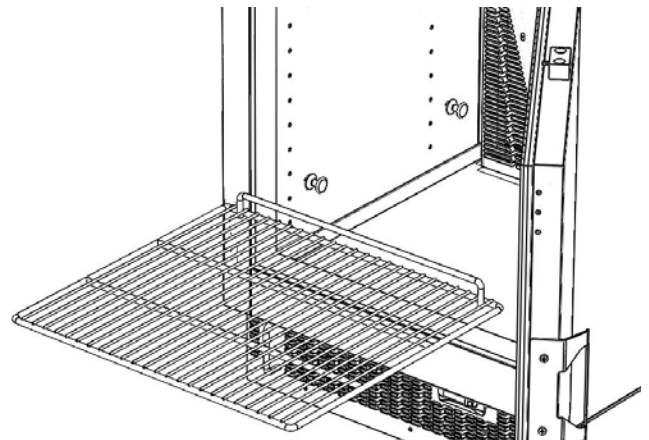


Figure 4.2

Installation (Continued)

Installing Refrigeration Module

1. Place the rear of the module inside the opening in the front lower face of the **VersaFridge** unit. (See Figure 4.3)
2. Grasping the handles on the front of the refrigeration module, gently push/guide the module into the cabinet. It should slide and dock in place easily. If it is difficult to push in, pull the module out and begin the process again.
3. Install the 4 ea screws in the face of the cabinet using a Phillips screwdriver. When installed, the front louvered faceplate should finish flush with the front of cabinet base.
4. Plug the units power cord into the appropriate power supply.

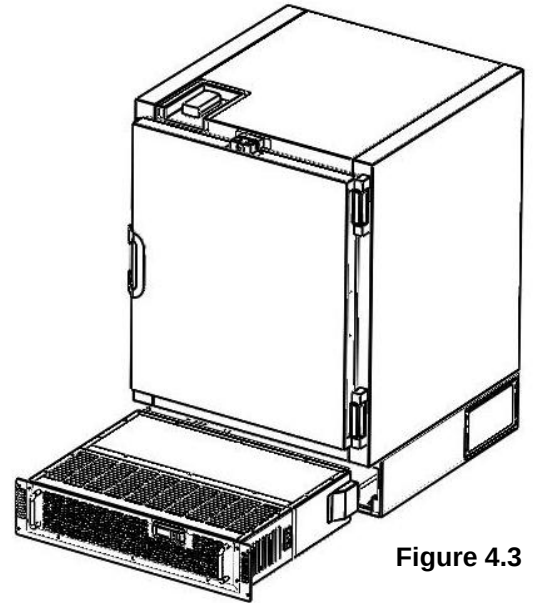


Figure 4.3

Reversing Door Orientation

1. Remove screws from the door handle and the 8 plastic plugs on the opposite side of the unit (2 in the door and 6 on the cabinet). Re-attach handle on other side of the door. (Figure 5-1)
2. Using a flat screwdriver, carefully remove the hinge covers.
3. Insert a nail into the holes around the top of the spring and relieve the spring tension and then remove the pin. (Figure 5-2) then use the same process one hole at a time to remove all tension from the spring.
4. Now compressing the top of the spring unit toward the bottom you should be able to remove it from the hinge. (Figure 5-3)
7. Remove the 6 screws in each hinge bracket and install on the opposite side of the unit and door. (Figure 5-4)
8. Replace the spring assemblies into each hinge with the holes on the **BOTTOM** and add tension to the spring and replace the pin so that when the door is about 1/4 of the way open it will shut on its own without any issues.
9. Replace hinge covers and plastic plugs and you are done!

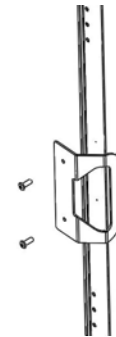


Figure 5.1

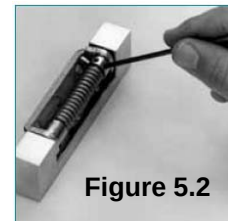


Figure 5.2



Figure 5.3

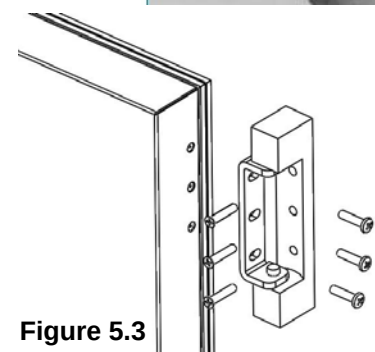


Figure 5.3

Note: The lock cylinder located on the top of the door does not need to be relocated in order to change the orientation of the door.

Caution

Ambient temperature must not exceed 100°F (38°C)

The front louvered panels must be unobstructed to ensure proper ventilation to the **VersaFridge** refrigeration module system.

Always disconnect the unit from the power supply prior to service.
The unit must be installed and wired in compliance with all local and NEC codes.

Mechanical Specifications

115V, 60Hz, 1 phase

RLA: 1.75

(Maximum size of branch circuit over current device: 15 amp)

Refrigerant: 134A

Charge Size: 1.6 oz

Maximum design pressures:

High Side: 235 psi

Low Side: 150 psi

Models & Options

Models

	Wire Shelves	1.5" (38mm) Drawers	4" (102mm) Drawers
VF-1200-0	3	0	0
VF-1200-1	0	0	3
VF-1200-2	3	0	1
VF-1200-3	2	1	1
VF-1200-4	3	1	0
VF-1200-5	0	2	2
VF-1200-6	0	3	1

Options

11801	Omnicell Door Bracket
11802	Pyxis Door Bracket
11803	Medselect Door Bracket
11812	Basic Electronic Keypad Door Lock (Field Installed Only)
11820	Glass Door (Factory Install Only)
11830	2" (38mm) Deep Full-Extension Stainless Steel Drawer (EA)
11833	4" (102mm) Deep Full-Extension Stainless Steel Drawer (EA)
11834	Additional Wire Shelf
11835	Package of (2) shelf pins
11836	Replacement Key
11839	Medication Lock Box

Electronic Temperature Controller (Changing Set Points)

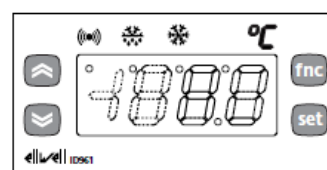
Unlocking the Controller

To make any changes in the controller you must first unlock it, make your changes and re-lock it.

1. Press and hold the **set** button until **CP** appears.
2. Press the **set** button 3 times until **dis** appears.
3. Press the **set** button and **LOC** will appear.
4. Press the **set** button and **Y** will appear.
5. Press the **set** button to change the **Y** to a **N**.
6. Press the **set** button and **LOC** will appear.
7. Press the **fnc** button twice and this will be back to the actual temperature display

KEYS AND MENUS

UP key		Scrolls through the menu items Increases the values Activates manual def. function
DOWN key		Scrolls through the menu items Decreases the values Programmable by parameter
fnc key		ESC function (exit) Programmable by parameter
set key		Accesses the setpoint Accesses the menus Confirms the commands Displaying the alarms (if present)



Changing the Set Point

To change the set point of the refrigerator you must first set the High(**HSE**) and Low(**LSE**) range the actual set point can be between.

1. Press and hold the **set** button until **CP** appears.
2. Press the **set** button and **DIF** will appear.
3. Press **UP** and **HSE** will appear.
4. Press the **set** button and use the **UP** **DOWN** keys until the display shows **40** and press **set**
5. Press the **UP** button and **LSE** will appear.
6. Press the **set** button and use the **UP** **DOWN** keys until the displays shows **36** and press **set**
7. Press the **fnc** button twice and you will be back to the actual temperature display.
(you have now set the maximum and minimum temperatures the refrigerator can be set between)
8. Press the **set** button twice and you will see the current Set point for the refrigerator.
9. Press the **UP** **DOWN** buttons to get to the set point you want the unit to run at and press **set**
10. Press the **fnc** button once and you will be back to the actual temperature display.
(at this point it is HIGHLY recommended that you lock the controller once your set point is entered)

Disabling the Local Alarms

1. Press and hold the **set** button until **CP** appears.
2. Press the **UP** button twice and **AL** will appear.
3. Press the **set** button and then the **UP** button and **HAL** will appear.
4. Press the **set** button and then the **UP** until the display shows **110** and then press **set**
5. Press the **UP** button and **LAL** will appear.
6. Press the **set** button and then the **DOWN** until the display shows **0** and then press **set**
7. Press the **fnc** button twice and you will be back to the actual temperature display.
(at this point it is HIGHLY recommended that you lock the controller once you disable alarms)

Locking the Controller

1. Press and hold the **set** button until **CP** appears.
2. Press the **set** button 3 times until **dis** appears.
3. Press the **set** button and **LOC** will appear.
4. Press the **set** button and **N** will appear.
5. Press the **UP** to change the **N** to a **Y**.
6. Press the **set** button and **LOC** will appear.
7. Press the **fnc** button twice and this will be back to the actual temperature display

Built into each **VersaFridge** is a recess (See Figure 9) to hold either **VersaTrak** WiFi or 900/868 MHz wireless temperature transmitters. Built inside the refrigerator cabinet is a mounting bracket that will accept both a VersaTrak 35ml and a 10ml glycol probe. The probe wires come up through a access port in the recess to be connected with the temperature transmitter. Also built into the cabinet is a door status sensor with a pair of leads that terminate in the recess, to be connected to a contact transmitter.

NOTE: If you are using our *900 MHz Plus or 868 MHz* equipment, you can fit 2 transmitters into the recess. Either a temperature transmitter and a contact transmitter to capture both temperature and door status at the same time or you can use a second temperature transmitter to monitor another refrigerator temperature.

NOTE: If you are using our *WiFi equipment*, we make a special transmitter for this refrigerator that will allow you to capture 1 temperature or 2 temperatures and a door status at the same time. We have also built in a power lead that plugs into the WiFi transmitter. This allows the transmitter be powered off the refrigerator and use its internal batteries as a backup power source. (The internal batteries that have a 15+ year shelf life.)

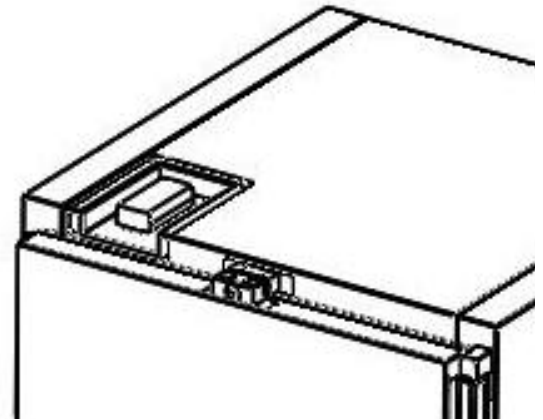


Figure 9

Operation

The refrigeration system removes heat from the cabinet interior and expels it to the surrounding room air. When the cabinet interior temperature reaches 0.8°F (0.44°C) above the controller set point, the probe signals the controller to turn the refrigeration system on. The normally open Controller contacts close and energize the compressor. When the cabinet interior temperature falls to the set point, the probe signals the controller to turn the refrigeration system off. The controller contacts reopen, which de-energizes the compressor.

Any accumulated frost on the evaporator coils melts during the off cycle. The condensate drains to a drain pan mounted inside the refrigeration package system. The heat from the compressor evaporates any condensate in the drain pan area.

The temperature control system is preset by the factory to have a selectable temperature range of maintain a cabinet temperature between 36°F - 40°F (2.2°C - 4.4°C). By default the set point is 40°F, but can be changed following the directions on page 6.

The unit is programmed to defrost automatically and should not require manual defrosting.

Cleaning and Maintenance

General Cleaning

Interior: Wipe down with a soft cloth, sponge, or towel and using a non-abrasive, non-chlorinated detergent.

Exterior: Wipe with a soft cloth, sponge, or towel in the direction of the grain only. Stainless steel polish or WD-40 may be used, if needed.

Annual Cleaning

1. Disconnect/Unplug the unit from the power supply.
2. Using a Phillips screwdriver, remove the 4 ea screws from the front of the refrigeration package module.
3. Gently slide out the refrigeration package module.
4. Using a dry cloth, sponge, or towel, wipe the inside of the base cavity to remove any build up of dirt or dust.
5. Using a canister of compressed air, blow out the inside of the refrigeration package module via the front / side / rear vents and / or louvers to remove build up of dirt, dust, and debris.
6. Reinsert the refrigeration package module into the cabinet, replace the 4 ea screws, and plug the unit back into the power supply.

Note: *Do not use a compressor to blow out the refrigeration package module as the excessive pressure may damage the interior components.*

Replacement Parts

VF-1200-0 VersaFridge Bill of Materials			
Cabinet			
Description	Part Number	Quantity	U/M
Pull Handle, 3.5" Centers, Brushed Nickel	11819	2	EA
Shelf Pin, Screw-In, Gray, 10-32 Thread	11820	12	EA
Shelf, Silver freeze, W/Rail, 19.25" x 17.75"	11821	3	EA
Heater Wire, 90"/115V/32 Degree/2.2Watt	11822	1	EA
Door			
Description	Part Number	Quantity	U/M
Door Handle, 430 s/s	11814	1	EA
Security Lock, Chrome	11811	1	EA
Magnetic Door Gasket	11815	1	EA
Non-Rise Hinge, 1-18" Offset	11816	2	EA
Spring Cartridge Kit	11817	2	EA
Refrigeration & Electrical			
Description	Part Number	Quantity	U/M
Refrigeration Package Module, 115V, 134A	VF-RM-1	1	EA
Power Cord, 79", 18 AWG, Black	11823	1	EA