

ORFORD Vertical Display and Storage

FMB Vertical Refrigerators

1 and 2 Door Vertical ORFORD Refrigerators



FMB30-B



FMB30-Sn-B



FMB20-B

FMB20-LH-B



FMB20-Sn-B

FMB20-LH-Sn-B

September 2018 edition

FMB Vertical Refrigerators

One Door and Two Door Refrigerator Installation and
Operating Instructions

September 2018 edition

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Installation and Operating Manual

Please keep this manual in a safe place and refer to it and your Warranty information should it be required.

Please fill out for future reference

This information will be required for Warranty Service work to be authorized.

Purchased from:.....

Delivery Docket:.....

Series Model:.....

Item No.:

Cabinet Serial Number:.....

Commissioning Date:.....

Place of Installation:.....

Owner of Cabinet:.....

Owners Address:.....

Owners Details: email:..... Phone:.....

This manual should accompany this appliance if it is sold or reinstalled in another location to ensure correct installation, use and maintenance procedures are followed.

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The information contained within is provided for the benefit of users of these products. Keep this information in a safe place for future reference.

Product specifications enclosed are correct at time of publication. The Orford Group reserves the right to change specifications, in our endeavours for continuous product improvement. The Orford Group cannot be held responsible for errors or omissions in this document.

Shipping Damage

Check for damage when taking delivery of the refrigerator so that correct claim forms can be filed if applicable.

NOTE: You should sign “Received Damaged” on the delivery note if applicable.

Insurance Is Your Responsibility

Inspect packaging and equipment for signs of damage in transit. Notify carrier immediately regarding any damage. Everything leaving our factory is inspected and checked before packing. Everything leaving the factory will be insured by us on your behalf through the transport company’s insurance unless notified by you in writing to the contrary. Transit damage is a matter between you and the Transport Company/Your Insurer where you have arranged your own insurance.

NOTE: You should sign “Received Damaged” on the delivery note if applicable.

Warranty

All equipment is tested prior to dispatch from the Factory. After receipt from the Transport Company and before delivery to the End User/Consumer, The Re-Seller (Distributor) should test run the product. Our warranty covers the replacement of both labor and parts replacement for a period of 12 months (for non-corporate account customers as determined by Orford Refrigeration).

Orford Warranties do not cover service calls resulting from poor maintenance or replacement of consumable part (s). Please refer to additional Warranty Information, or copies of any contracts, supplied with this equipment for more details.

NOTE: Ensure you consult the Problem Solving Checklist before making a Machine Service Call.

Installation

Remove packing. When in position, the refrigerator should be level and the weight evenly distributed over the castors. This is necessary for proper door alignment and drainage of the evaporator condensate.

Cabinet Dimensions and Positioning Requirements

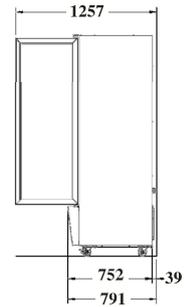
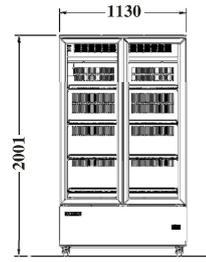
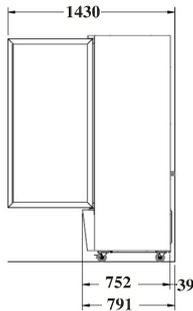
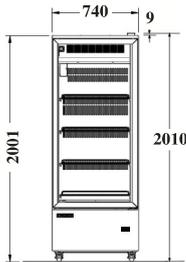
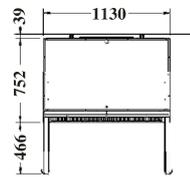
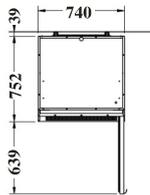
Position the refrigerator in accordance with its Climate Class.

Climate Class defines the climatic ambient conditions for which the cabinet is suited.

Refer table below.

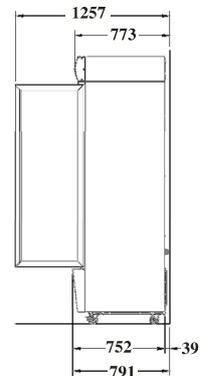
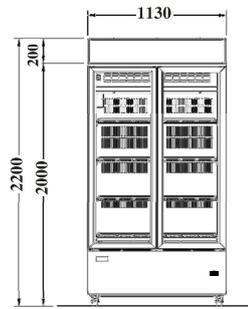
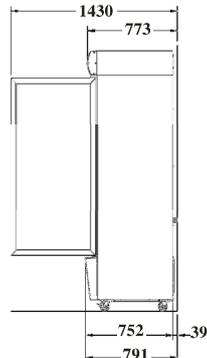
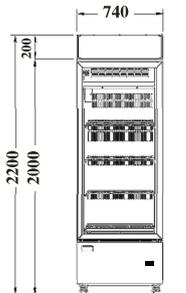
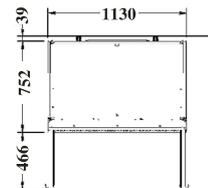
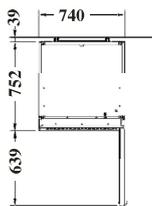
The FMB series are suited to Climate Class 5 as indicated on the cabinet identification label.

Climate Class	Ambient Temperature °C	Ambient Humidity % RH
5	40	40



FMB20-B

FMB30-B



FMB20-Sn-B

FMB30-Sn-B

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Safety Information

- Do **NOT** use this appliance for other than its intended use.
- Do **NOT** probe any openings.
- Do **NOT** block or obstruct any openings or vents. (refer ventilation)
- Do **NOT** use double adaptors or extension leads.
- Do **NOT** overload the shelving. (refer Loading)
- Do **NOT** store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Allow adequate ventilation for the refrigeration unit. (Refer ventilation)
- These appliances are not designed to be stable when moving. Exercise caution when moving these appliances.
- Be careful not to touch moving parts and hot surfaces.
- Ensure the appliance is installed in a stable condition with front castors locked.
- The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction
- Children being supervised not to play with the appliance

Warning!	The Orford Group does not authorize the use of flammable refrigerants for servicing these refrigerators and freezers as injury, loss of life and/or property may result.
Warning!	This appliance is for indoor use only. Locating in a location exposed to rain may result in electrical leakage and electrical shock.
	Non qualified people must not attempt to work with electrical connections or attempt to adapt cables or leads. If the supply cord is damaged, the appliance must be repaired by an authorized person.
	Do NOT overload the power supply. Refer cabinet rating label for power requirements.

Electrical Requirements

Make sure the cabinet wiring is connected to the correct source of power. Maximum current draw is printed on the unit rating tag and where equipment can be plugged into a General Purpose Outlet (GPO). The correct plug top for the required GPO will be supplied as part of the equipment main power cord. Always check line voltage on incoming power to make certain of proper voltage. The voltage should be within 5% of the voltage printed on the unit rating tag.

Power Requirements	Standard 10 Amp. Power Point	220V-240V	50Hz.
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Ventilation

These refrigerators require proper ventilation of the refrigeration unit (Motor).

A minimum of 100mm (4") clearance MUST be allowed at the back of the cabinet. The FMB series refrigerators require air to be drawn beneath the cabinet if no side clearance or rear ventilation is provided. If these cabinets are required to be plinth mounted special provisions will be required for their ventilation. If units are to be built-in, contact The Orford Group for detailed information regarding your model. Self-Contained equipment should only be installed in rooms that are well ventilated or are of sufficient size to dissipate the heat generated by such equipment.

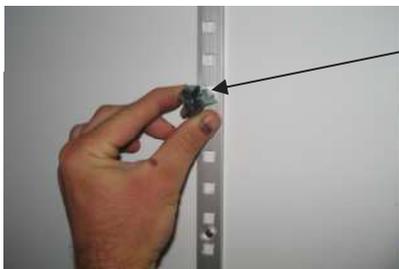
Starting

It is recommended that competent service people start up and check the equipment for correct installation and proper operation. All Self-Contained equipment is run tested in the Factory for proper temperature and operation, but it is possible that during transport or shipping damage, loosening of screws, shifting of control setting, etc, may have occurred.

Shelving

The cabinets are supplied with wire shelving. Each shelf requires 4 shelf clips.

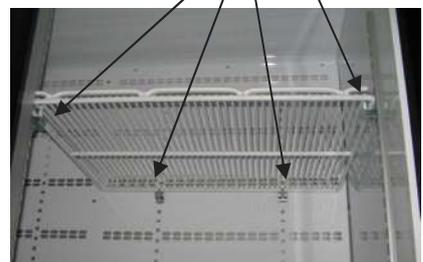
1. Insert the top of the shelf at an angle.
2. Turn and locate the bottoms as shown.
3. Sit the shelf over the shelf clips.



Shelf Clip



Shelf Clips



Note!

The Shelf Clip Can Be Rotated 180 Degrees As Shown, To Have An Increment Of 12mm.

All cabinets should have bottom shelf as low as possible.

Refer Product Loading.

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Product Loading

Product should only be loaded within the confines of the shelf provided. All cabinets should have the bottom shelf as low as possible. No product is to be stored on the cabinet floor, allowing air to circulate efficiently to maintain correct product temperatures. Do **NOT** overload the shelving. (Max 40kg. Per shelf evenly distributed).

Maintenance

Suitably qualified personnel only are to maintain and service this appliance in order to reduce the risk of damage that may cause refrigerant to be lost to the atmosphere.

Cleaning

Warning!

Isolate Power before moving the refrigerator or removing any covers for Maintenance

Take care not to damage the refrigerator's power lead when moving the appliance for maintenance.

Check that all vents are clean and clear of dust, dirt, lint, paper, plastic etc. that may cause an obstruction to proper ventilation.

It is of the utmost importance that the refrigeration unit condenser filter be kept clean of dust, dirt and lint. The refrigeration unit fan will continually draw dust and lint on to the condenser filter collecting to form a "blanket". This seriously restricts the passing of air for adequate ventilation and cooling of the refrigeration unit.

Note: This condition reduces the life of the fan motor and compressor and is one of the major causes of motor and compressor failure. If the condenser filter is not cleaned regularly it will increase your running costs for the cabinet and severely reduce its operating life span.

Cleaning can be done by **1.** Switching off the refrigerator, **2.** Removing the condenser filter from the rear of the cabinet **3.** Using a brush or vacuum cleaner remove the accumulated dust etc. and **4.** Rinse with clean water. Detergent and warm water may be required to clear grease build up from cooking oil etc. **5.** Refit the filter and **6.** Switch on the refrigerator.



Cleaning

We can not recommend how often the condenser filter should be cleaned as this is dependent upon the particular location and surrounding conditions. Clean the condenser filter as often as necessary to keep the air passage clear.

IMPORTANT: The refrigerator should **never** be run without the condenser filter in place as dirt etc. will build up on the condenser and make cleaning difficult.

Door gaskets will remain in best condition if washed weekly with mild soap and water followed by a fresh water rinse.

Keep inside of the cabinet clean by washing weekly. Do not use abrasive pads to clean cabinet finish inside or out.

Clean the glass doors regularly with window cleaner as per the cleaner instructions for maximum merchandising impact.

Service

Recessed LED Tube Replacement

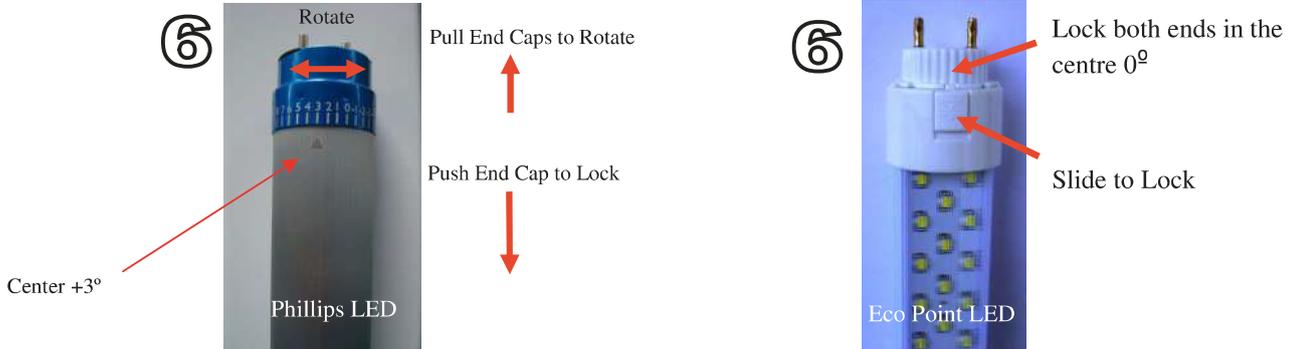


1. Switch power off
2. Remove the plastic light diffuser by squeezing the diffuser towards the front of the cabinet and 3. Pull the back edge out.
4. Remove the diffuser.
5. Rotate the LED tube 90° and slide out to remove.

Note!

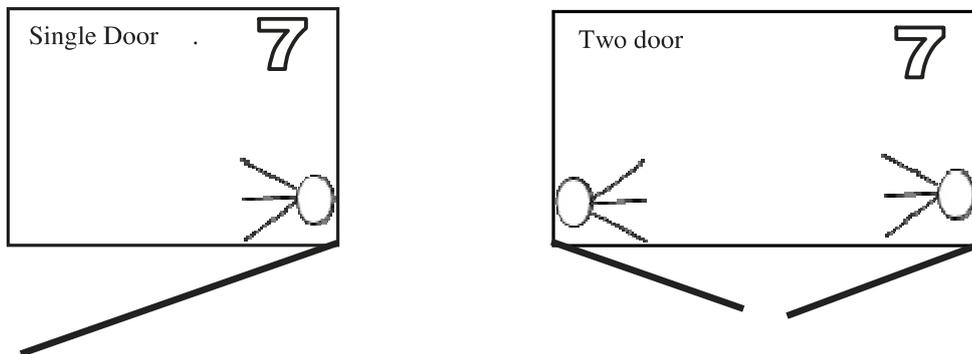
LED lamps must be replaced with identical lamps.

6. When replacing Led tube lock rotating ends in the center +3° position for correct lighting direction on Phillips model or 0° on Eco Point model.



FMB30,
 Left hand led tube (Philips sign) should be on top.
 Right hand led tube (Philips sign) should at the bottom.
 FMB20,
 Right hand led tube (Philips sign) at the bottom..

7. Be sure to rotate tube as to shine the light across the door opening as shown.



8. Electronic Control



WARNING

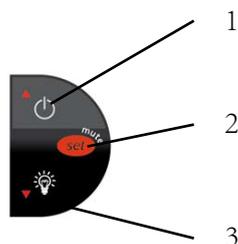
Once the mains flex is connected to a power supply, power will be delayed 3 minutes before the cabinet starts running!

Control Panel

The control panel is located below the door(s) on the front of the appliance.

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1.UP/ES Button; 2. Set Button ; 3. Down/Light Button;

- When the merchandiser is powered on for the first time, the default mode ('Standard Mode') is activated.
- Upon disconnection and subsequent re-connection of the mains power, the previously activated mode is remembered and restored.
- Light Switch: Light can be controlled by Light Switch Button (3) Button must be held for at least 3s in order to switch the light Meanwhile, "ON" or "OFF" is displayed in order to show the command that is going to be performed.

Operation of the merchandiser

- This merchandiser is set-up to run continuously without interference. It is not recommended that the electronic controller set-up be interfered with.
- However, changes to the temperature setting of the 'Standard Mode' can be made by altering the 'ST' parameter in the electronic controller. ('ST' is the lowest set temperature that the merchandiser will run at).
 - The merchandiser will run at ST (which is +2 deg).
 - Example: An average internal temperature of 6°C is obtained by selecting a value of 4 for the 'ST' parameter.
- To alter the average temperature inside the merchandiser, proceed as follows:
- (Refer to figure 4)
 - Press the **SET** keypad button (5) for at least 3 seconds, until '0' is displayed.
 - Press the **UP/ES** keypad button (4) 22 times, until '22' is displayed.
 - Press the **SET** button (5) and the display will change to 'PS'
 - Press the **UP/ES** button (4) 7 times until 'ST' is displayed.
 - '0' will appear on the controller display
 - Using the **Down/Light** button (3) or **UP/ES** button (4), select the 'ST' minimum temperature value preferred.
 - Press the SET button (5) to lock in the parameter change.
- If the compressor indicator (1) is flashing, the electronic controller has initiated a run cycle while the compressor is still in an off cycle. Once the compressor has completed its off cycle (A minimum period of 6 minutes is required) the compressor will start and the compressor indicator will stop flashing.

Problem Solving

Check before calling for machine service

Note: Routine adjustments and maintenance procedures are not covered by warranty, refer to Warranty information supplied with your equipment, for conditions and responsibilities.

If after following the checklist your equipment fails to operate correctly, please have the Series Model Number, Item number and Cabinet Serial Number ready **before** calling for service.

Problem	Possible Cause (s)	Corrective Action (s)
Cabinet does not operate	No electrical power to machine. No power at outlet. Blown fuse, circuit breaker.	Check cord is plugged into outlet. Check another appliance can operate from the outlet. If outlet not working change blown fuse or reset tripped circuit breaker.
Cabinet noisy	Unit cover loose.	Tighten cover.
Cabinet doors do not close properly	Cabinet not level.	Reposition cabinet.
Odour from cabinet interior	Interior not cleaned before use. Some foods produce odours.	Carefully clean interior with mild solution of bicarbonate of soda and warm water. Ensure foods are covered.
Water Inside/Outside cabinet	Check for spills. Check Ambient conditions Check water source	Carefully clean interior/exterior Ensure operating in correct Climate Possible drainage block - do not touch
The controller display E0 and buzzer	The control sensor is broken	The sensor needs to be replaced

Disposal: *** Note:- These refrigerators use flammable blowing agents for their insulation and must be disposed of in accordance with Government regulations pertaining to your area.

General Specifications		
Model	FMB20-B/FMB20-Sn-B	FMB30-B/FMB30-Sn-B
Power Requirements	230 - 240V 50Hz.	230 - 240V 50Hz.
	Standard 10 Amp Power Point	
Gross Volume (L)	557	889
Refrigerated Shelf Area (m ²)	1.0	1.7
Total Display Area (m ²)	0.635	0.911
Interior Lighting	LED	LED
Illuminated Sign Panel (Sn) Models	LED	LED

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