

Flex 20 HC
Flex 20 C HC
Flex 100 HC
Flex 100 C HC
Flex 130 HC
Flex 130 C HC
Flex 130 C SZ HC
Premium Slim 130 [R600a]
Bar-45 [R600a]





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User Manual

This User Manual was originally written in English.
Before using this ICM please read the instructions below carefully.

Please see below the interpretation of the symbols used throughout the manual, for your better understanding.



WARNING



INFORMATION



CAUTION



FIRST AID





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1. Foreword

Thank you for purchasing this new Ice Cold Merchandiser (ICM) from Frigoglass. Before using this ICM please read the instructions below carefully. A well-maintained Frigoglass ICM will help you increase your sales and profits.

Manufacturer:

FRIGOGLASS S.A.I.C. (made in China)

Address:

15, A. Metaxa Street, Kifissia 145 64, Athens, Greece

2. Technical description

2.1. General

The merchandiser must be connected to a grounded mains outlet with fuse rating of 10A-16A. The outlet must be easily accessible for the purposes of installation and servicing.

2.2. Climate classification

According to climate specifications, models Flex 20 HC, Flex 20 C HC, Flex 100 HC, Flex 100 C HC, Bar-45 [R600a], Flex 130 HC, Flex 130 C HC, Flex 130 C SZ HC and Premium Slim 130 [R600a] are Class "4" (as per ISO23953-2). Namely, 30°C ambient temperature and 55% humidity for Flex 20 HC, Flex 20 C HC, Flex 100 HC, Flex 100 C HC, Bar-45 [R600a], Flex 130 HC, Flex 130 C HC, Flex 130 C SZ HC and Premium Slim 130 [R600a] models.

2.3. Technical specifications

Rating Voltage	220-240V, 50Hz
Defrosting	Automatic

2.4. Physical dimensions

Model	Width (mm)	Depth (mm)	Height (mm)	Gross Volume (L)	Net Weight
Flex 20 HC	295	345	563	18	17
Flex 20 C HC	295	345	563	18	17
Flex 100 HC	480	495	817	88	33
Flex 100 C HC	480	495	817	88	33
Flex 130 HC	403	439	1762	166	68
Flex 130 C HC	403	439	1900	166	72
Flex 130 C SZ HC	403	439	1900	166	72
Premium Slim 130 [R600a]	403	439	1790	166	70
Bar-45 [R600a]	899	425	412	46	38



2.5. Maximum weight per shelf

Model	Maximum weight per shelf (kg)
Flex 20 HC	7
Flex 20 C HC	7
Flex 100 HC	18
Flex 100 C HC	18
Flex 130 HC	12
Flex 130 C HC	12
Premium Slim 130 [R600a]	12
Flex 130 C SZ HC	12



Flex 20 HC, Flex 20 C HC, Flex 100 HC, Flex 100 C HC, Flex 130 HC, Flex 130 C HC, Flex 130 C SZ HC, Premium Slim 130 [R600a] and Bar-45 [R600a] are equipped with HC refrigerant, and have been tested and proven to be safe according to related standards. All necessary actions for safe usage & maintenance of this appliance are described in this manual and need to be followed carefully. This appliance must be installed only by a suitably qualified person.

3. Installation & Operation



Failure to comply with the instructions may result in high-energy consumption, poor performance of the unit and void warranty.



- Keep all ventilation openings in the appliance enclosure or in the built-in structure clear of obstruction.
- Do not use mechanical devices or means other than those recommended by the manufacturer to accelerate the defrosting process.
- Do not damage the refrigerant circuit.
- Do not use electrical appliances inside the food storage compartments of the appliance, unless recommended by the manufacturer
- If the supply cord is damaged, it must be replaced by the manufacturer, its service provider or similarly qualified persons in order to avoid a hazard.

**Do not place the merchandiser:**

- **in direct sunlight or near heat sources (radiators, stoves & other heating equipment)**
- **outdoors, without proper protection from rain, moisture and other atmospheric elements**
- **in climate conditions for which it is not certified**
- **in extreme environmental conditions (i.e. extensive exposure to saline humidity)**

3.1. ICM placement instructions

- After unpacking, check the cabinet for any damage caused during transportation. In the event of damage, please contact the forwarding company.
- Always ensure that your merchandiser is installed on a stable surface/floor. There are 4 adjustable feet in Flex 100 HC, Flex 100 C HC, Flex 20 HC, Flex 20 C HC, Flex 130 HC, Flex 130 C HC, Flex 130 C SZ HC, Premium Slim 130 [R600a] and Bar-45 [R600a]. The cooler must be leveled through proper adjustment of the leveling feet in all installations. It must be ensured that the cooler does not exhibit any inclination towards its front side and/or its lateral sides, after adjustment. A slight inclination toward its back side will further facilitate the good circulation of the fluid and support the door closing mechanism. The use of a spirit level is highly advisable to check leveling. Verify that the cooler sits firmly on the leveling feet. The front cooler wheels (if available) should be able to rotate by hand after cooler installation and adjustment. Take the necessary precautions if lifting is required during installation. Do not allow the access of unauthorized individuals during the cooler installation
- The merchandiser must stand upright for at least 1 hour after transportation and prior to start-up. This provides sufficient time for the oil to run back to the compressor after transit and installation.
- Allow a minimum gap of 100mm at the back.
- Do not place anything on top of the ICM.

Note: Relocation of the ICM inside the outlet

- Empty the ICM and unplug from mains supply.
- Fully extract the levelling feet.
- Move the unit to the desired location with the assistance of another person.

3.2. Connection to the mains supply

Connect the ICM to a 220-240 Volt power supply on a min 10 A fused & grounded socket. Do not use extension cables.

**Do not connect the merchandiser to:**

- **a non-grounded wall socket or power line**
- **improper supply voltage and frequency**
- **power supply that does not comply with the safety regulations of the appliance or with current legislation on electrical installations**



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- If the mains cord supplied is not long enough, do not use an extension lead. Ask an authorized electrician to replace the cord with a longer one, only if this is described in the list of authorized spare parts.
- Do not plug the cooler into a multiple outlet strip.
- Route the mains cord in such a way that it is protected from damage and does not pose a risk of tripping.

3.3. Operation instructions



**Do not use the merchandiser to store food.
Do not store explosive substances such as aerosol cans with flammable propellant in this appliance.**



This appliance is not intended for use by young children or handicapped or infirm persons unless they are adequately supervised by a responsible person who will ensure the safe operation of the appliance on their part. Young children should be supervised to ensure that they do not play with the appliance.



Do not operate the appliance while any of the cover sheets and guards is open.

Energy saving tips:

For energy saving and ICM's better performance:

- Load your ICM at night-time so that the drinks are cold once you get there in the morning.
- Store your back-up stock in a cool and/or dark place so that when reloaded, the ICM will need much less time to cool them down.
- Wipe moisture off the products you place in the ICM.
- Avoid opening the door for long periods of time.

3.4. Electronic controller Instructions

For instructions of the functionality of your Carel Controller (option) and its related optional features, please visit the following website link: <http://www.frigoglass.com/manuals/>.

4. Care & cleaning



**Prior to any cleaning (inside or outside the device) procedure, unplug the ICM! Remove the plug and make sure that the operator can check from any of the points which he has access to, that the cable is unplugged.
Never use a water hose or high pressure jet to clean the cooler.**



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It is important to clean the merchandiser twice a year. In order to avoid mould formation, odours, etc. product compartments must also be thoroughly cleaned. The interior of the ICM should be cleaned with a mildly soapy cloth and the glass surface using a window-cleaning agent.



- In case the merchandiser is placed in very dusty and/or greasy environment, the regular cleaning of the condenser by an authorized technician is mandatory.
- Keep the cooler in a stable position during cleaning, do not step on or lean over the cooler.
- Do not clean with sharp objects, flammable or corrosive liquids or sprays.

5. Troubleshooting



ALL ACCESS TO THE COOLING SYSTEM AND ELECTRICAL PARTS (CHANGING LIGHTING OR REFRIGERATION DECK) MUST BE PERFORMED BY AUTHORIZED SERVICE PERSONNEL ONLY.



Flex 20 HC, Flex 20 C HC, Flex 100 HC, Flex 100 C HC, Flex 130 HC, Flex 130 C HC, Flex 130 C SZ HC, Premium Slim 130 [R600a] and Bar-45 [R600a] are equipped with HC refrigerant. All service operations on cooling mechanism & gas charging should be performed in a well ventilated environment or in open air. Do not smoke during maintenance.



- **UNPLUG THE COOLER PRIOR TO ANY MAINTENANCE OR SERVICE OPERATIONS. REMOVE THE PLUG AND MAKE SURE THAT THE OPERATOR CAN CHECK FROM ANY OF THE POINTS WHICH HE HAS ACCESS THAT THE CABLE IS UNPLUGGED.**
- After maintenance operations, make sure that the grounding connections are in place before assembling the covers. Make sure you use the same fastening components and covers.
- If any electrical components need to be replaced, use only the identical components in the spare part list supplied by the technical service department of Frigoglass.
- Keep the glass door of the cooler closed during cooling mechanism maintenance. The appliance will not stand stable when the compressor is disassembled. If the compressor needs to be replaced, use adequate support to stabilize the cooler.
- After maintenance operations make sure that the strain relief, which supports the supply cord, is assembled properly.

If the ICM is not functioning properly or is out of order, please check the following before calling the authorized service provider:



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FAULT	POSSIBLE REASONS	HANDLING
The ICM does not work.	Power cord not plugged in.	Plug it in.
	No power coming through the socket.	Check the outlet fuse.
The cooler does not cool.	The ICM has recently been reloaded with warm products. Please note that it takes some time to cool warm products.	Preferably, reload the ICM before night closing.
	The ICM is loaded in such a way that the air circulation in the interior is getting blocked.	Load the ICM according to the standards you have been provided with by the company.
	The door does not seal properly.	Repair the doors for proper closing (this type of repair should be performed by an authorized technician).
The cooler does not cool.	Leakage in the cooling system.	Repair the leakage (this type of repair should be performed by an authorized technician).
The ICM makes noise.	Intense metallic noise.	Call a Service technician.
	Inclined or curved floor.	Level the ICM properly by adjusting its feet. Placing a spirit level on the top of the ICM will assist you in leveling it.
There is water on the floor.	The drainage hole for the condensate water is blocked.	Unblock the drainage hole.
	There is a leakage in the tray.	Call a Service technician.
The lights don't work.	The lighting or the transformer are out of order.	Call a Service technician.

If after all the above-mentioned checks the problem with your ICM remains, contact the customer service department of your supplier and provide the following information:

- Type of ICM
- Serial number of the ICM
- Brief description of the problem / observation

6. First Aid

In case of accident, proceed to the following:

ACCIDENT	IMMEDIATE ACTION
Inhalation of refrigerant	Take deep breaths of clean air. If irritation persists, contact a doctor.
Contact with eyes	Wash your eyes thoroughly with plenty of water for at least 15 minutes and then consult a doctor.
Contact with skin	Wash immediately with water.



7. Disposal of the unit and packaging

For detailed information regarding the recycling of this product and its packaging, please contact your local city office, your waste disposal service or the manufacturer through its service agent. By ensuring this product and its packaging is disposed of properly, you will help prevent potential negative consequences for the environment and human health, which could otherwise incur by this product's and packaging inappropriate disposal.

Packaging consists of wooden pallets, cardboard/ plastic parts and stretch film. Cardboard, kraft paper, plastic parts and films can be disposed for recycling at your curbside collection bins or at your local recycling facility. Wooden pallets may be reused or disposed for energy recovery.

8. Recycling Information

1. Based on the objectives of environmental policy according to the European Community (EC) directives of Waste Electrical and Electronic Equipment (WEEE)¹ which aim to preserve, protect and improve the quality of the environment, protect human health and utilize natural resources prudently and rationally, as an end user, you are kindly requested to do the following:

- If the appliance has stopped working, even after troubleshooting, first check if it can be repaired, before disposing it. Contact your distributor or supplier for further information on possible repairs of your appliance, if in doubt.
- If the appliance has reached its "End of Lifecycle" (EOL), in other words, the appliance is not repairable or re-usable, do not dispose of the appliance as unsorted municipal waste. Instead, ensure that it is collected separately from a recycling company.

Note: The disposal of electronic and electrical appliances in landfill sites or through incineration creates a number of environmental problems. When obsolete materials are not recycled, raw materials have to be processed for the production of new products. This represents significant loss of resources as the energy, transport and environmental damage caused by these processes is considerable.

- To help in the recovery and recycling process of this appliance, do not dismantle or break parts off the appliance prior to collection. By removing parts off the appliance, you can reduce its recyclability rate.

2. The symbol shown in fig.1 indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

¹ **References**

Waste Electrical and Electronic Equipment (WEEE) European Community (EC) Directive Nr. 2002/96/EC



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Figure 1 - Crossed-Out Wheeled Bin

3. Finally, observe any recycling laws applicable to your community or country.

9. Warranty

The appliance is covered by a warranty as this has been agreed upon sale.

FOR AUTHORIZED SERVICE PERSONNEL ONLY

APPENDIX A HANDLING & TRANSPORTATION GUIDELINES



The merchandiser should always be transported:

- in upright position (unless otherwise authorized by the supplier)
- with the doors closed
- in its original packaging or similar one.

Cooler temperature during storage or transportation should not be below -20°C or above +60°C.

APPENDIX B PREVENTIVE MAINTENANCE GUIDELINES



PRIOR TO ANY CLEANING OR MAINTENANCE PROCEDURE (INSIDE OR OUTSIDE THE DEVICE), UNPLUG THE ICM! REMOVE THE PLUG AND MAKE SURE THAT THE OPERATOR CAN CHECK FROM ANY OF THE POINTS WHICH HE HAS ACCESS THAT THE CABLE IS UNPLUGGED.

It is mandatory that the Customer performs the following operations during the Maintenance of an ICM once or twice a year, using a vacuum cleaner:

- Cleaning of the condenser
- Cleaning of the dust filters (if applicable).

If the ICM is placed in an environment where dust is accumulated on the condenser, then the condenser has to be cleaned more often.

Additionally, it is recommended that the following operations are carried out during preventive maintenance:

1. Mechanical System:

- Check that the equipment is correctly positioned and leveled.
- Check that the front and back grid are fixed in place.
- Check the self-closing system of the door.
- Check that the fan support and fan grid are fixed in place.
- Check the draining system and unclog if necessary.

2. Electrical System:

- Check the power cable (replace if needed).
- Check the illumination system.
- Check the electrical connections.
- Check that the electrical box cover of the thermostat or the electronic controller is properly installed.
- Check that components that might have been replaced during servicing are original.



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3. Refrigeration System:

- Check that the compressor is functioning properly.
- Check the starting relay, the overload and the capacitor. The Supplier recommends that the compressor's starting relays and overloads be replaced every 3-4 years.
- Check the fan motor condenser and fan motor evaporator.
- Check that the thermostat or the electronic controller and its components are functioning properly.
- Check the cooling performance of the ICM.
- Check the cooling circuit using the appropriate leak detector in case there is any concern or sign of refrigerant leak.

APPENDIX C
GUIDELINES TO PREVENT CORROSION OF THE CABINET

1. Avoid damages resulting from improper installation & operation, improper maintenance & cleaning, as well as improper handling and transportation, as per paragraphs 3, 4 and the Appendix A above.
2. Do not perform unauthorized adaptations, modifications or adjustments to the cabinet.

Head Office		Address	Switchboard
GREECE	FRIGOGLASS S.A.I.C.	15, A. Metaxa Street Kifissia 145 64, Athens	+30 210 6165700

PRODUCTION FACILITIES		Address	Switchboard
INDIA	FRIGOGLASS INDIA PRIVATE LIMITED	Plot no. 26 - A, sector 3 IMT Manesar, Gurgaon 122050, Haryana	+91 124 4320800
INDONESIA	FRIGOREX INDONESIA P.T	Jababeka Industrial Estate Jl. Jababeka VI Block P. No.1, Cikarang, Bekasi 17530	+62 21 8934 463
NIGERIA	FRIGOGLASS WEST AFRICA LIMITED	Lagos-Ibadan Expressway, Sanyo bus stop, U.I. Post Office, Ibadan, PMB 78, Oyo State, Nigeria	+234 02 2310 688-9
ROMANIA	FRIGOGLASS ROMANIA SRL	DN 59 Timisoara-Moravita KM. 16, 307396 Parta, Timis	+40 256407530
RUSSIA	FRIGOGLASS EURASIA LLC	Novosilskoe Shosse 20A, Orel 302011	+7 0862360404
SOUTH AFRICA	FRIGOGLASS SOUTH AFRICA (Proprietary) LTD	16 Walton Road, Aeroton, Johannesburg	+27 112483000

SALES OFFICES		Address	Switchboard	
EUROPE	GERMANY	FRIGOGLASS GMBH	Memelerstrasse 30 D-42781 Haan	+49 21293730
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