INSTRUCTION MANUAL
VERTICAL COOLER

T SERIES REACH-INS
B SERIES REACH-INS

FREEZER:		REFRIGERATOR:	
MBF8001	MBF8002	MBF8004	MBF8005
MBF8003	MBF8007	MBF8006	MBF8010
MBF8008	MBF8009	MBF8011	MBF8012
MBF8113	MBF8114	MBF8116	MBF8117
MBF8115		MBF8118	
MBF8501	MBF8502	MBF8505	MBF8506
MBF8503	MBF8504	MBF8507	MBF8508

Please read the user' s manual before you use this product.
If you request unnecessary services, you may waste money.
Thus, fix simple troubles by yourself which you have found.

Content:

1. Preface

This instruction manual provides all the necessary information regarding:

- ▲ use of the refrigerator
- ▲ technical specifications
- ▲ installation and handling
- ▲ operator procedures and instructions
- ▲ maintenance operation

The manual is to be considered an integral part of the refrigerator and should be stored in a safe place for father consult to permit a good working life of the refrigerator.

ATTENTION

The manufacturer cannot be held liable in the following cases:

- ■ improper installation (not in accordance with the guidelines indicated herein)
- ■ misuse of the refrigerator
- ■ power supply defects
- ■ improper or inadequate maintenance
- ■ unauthorised modification or tampering
- ■ use of non-original spare parts
- ■ partial or total failure to comply with the instructions

All electrical equipment can be hazardous to health. Current standards and legal requirements must be complied with during the installation and use of any equipment.

2. Use of the equipment

The refrigerator are for preserving fresh perishable foodstuffs, with an in-built refrigerated unit.

The operating temperature for refrigeration is:

- between +1°C and +8°C at room temperature of +43°C an 60%RD.

The operating temperature for frozen food maintenance is:

- between –17°C and –22°C at room temperature of +43°C an 60% RD.

3. Technical features

The refrigerator is a ventilated system, the evaporator is in a separate insulated box on the top. All the materials used in the manufacture of this unit are guaranteed to be suitable for use with foodstuffs. The gases used in refrigerator is R134a; in the refrigerator for frozen food maintenance is R404a.

The refrigerating circuit are in compliance with the current normative.

4. Operation

The gas in the refrigerating circuit is in the first time compressed, liquefied and then evaporated in the ventilated evaporator, situated on the top of the container.

This cycle involves the absorption of heath from the air in the refrigerator compartment and the reason is cooled. The heat produced is then dissipated to the outside environment by a condenser unit located on the top of the refrigerator.

5. Control unit

The refrigerator is command from a “digital control unit” and a “main switch pilot light” in the top panel of the refrigerator.

The “main switch pilot light” is for turning on the power supply.

The green pilot light comes on to indicate that the unit is connected to the main electricity and to start work.

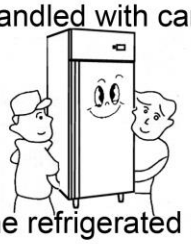
The green pilot light comes off to indicate that the unit is disconnected and don’ t work. The “digital control unit” is for the regulation of all parameters to provide the correct working of the refrigerator. Please consult all parameters in the attachment manual of the “digital control unit”.

This manual is part of the instruction manual and is very important in case of service.

6. Handling

The refrigerator arrive in PET film and packed in cardboard box on a wood pallet.

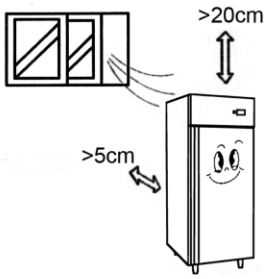
The refrigerator must be transported and handled with care to avoid posing a hazard to persons or property.



Never place a refrigerator with an in-built refrigerated unit on its side or turn it upside down as this may damage or impair operation of the refrigerated unit.

We can not held liable for any damage or defects arising directly or indirectly from improper handling of the equipment or non-compliance with the safeguards illustrated above.

7. Installation procedure

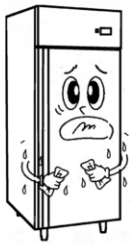


▲ Place the refrigerator in the coolest and best ventilated part of the room. Don' t install the refrigerator in the near of heat and direct sunlight sources.

▲Remove the straps securing the cardboard packing

Remove the cardboard. Covering

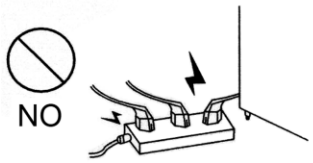
Remove the PET protection film



▲Clean the refrigerator with mild detergent and then dry it with a soft cloth.

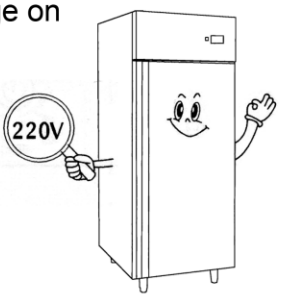
8. Connecting to the main power supply

This operation must be carried out by professionally and qualified persons.



The refrigerator are supplied complete with a power supply cable for the connection to the main power supply. A thermomagnetic circuit breaker (not supplied) must be installed between the mains power point and the power supply cable of the refrigerator.

Before proceeding make sure that:



▲ the mains voltage corresponds to the voltage on the refrigerator 220V/50Hz/1Ph; to ensure proper operation it is essential for the power supply voltage to come within a range of +/- 10% of the unit's rated voltage

▲ the electric system to which the refrigerator is sized to cater for the rated electric output of the buffet unit being installed
▲ the electronic system to which the refrigerator is connected is made in compliance with current standard requirements
▲ the electric connections and the installation of the thermomagnetic circuit breaker have been done by qualified person.

Connecting steps:

▲ Install a thermomagnetic circuit breaker suited to the rated output of the unit being installed
▲ Connect the refrigerator unit to the thermomagnetic circuit breaker outlet
▲ Check that the refrigerator is in order as demonstrated by the pilot light incorporated in the main switch coming on

9. Maintenance instructions

The smooth operation and life of the equipment are mainly determined by correct and regular maintenance

Cleaning:

Regular cleaning of the refrigerator unit is strongly recommended each month. Please follow the instructions below.

Disconnect the refrigerator power supply cable from the mains prior to carrying out any type of cleaning operation.

Cleaning the refrigerator surface:

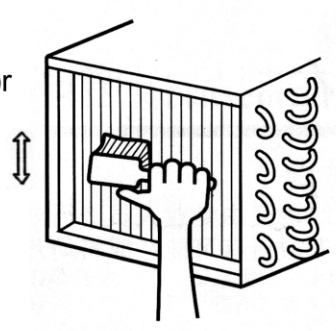
Clean the refrigerator with mild detergent and then dry it with a soft cloth.
Do not use abrasive detergents!

Cleaning the inside of the refrigerator:

Clean the inside area min. each month with a detergent suitable for use with foodstuffs.

Cleaning the condenser:

For an efficient operation of the refrigerator it is advisable to clean the condenser regularly approx. every 4 months with a dry brush or vacuum cleaner.



10. Troubleshooting

Refrigerator stops working (light off):

- ☆ Power supply failure

▲ Remedies:

- ☆ Check that the plug is inserted properly in the socket
- ☆ Check that the switch on/off
- ☆ Check that the mains voltage powers the plug

Refrigerator temperature go up:

- ☆ Unit to near to a heat source
- ☆ Condenser dirty or close

▲ Remedies:

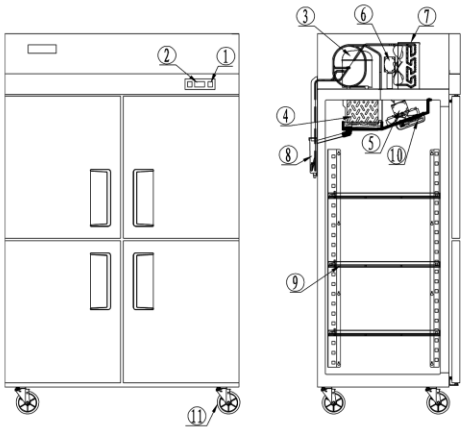
- ☆ Move the counter or the heat source further away
- ☆ Clean the condenser

11. Technical service

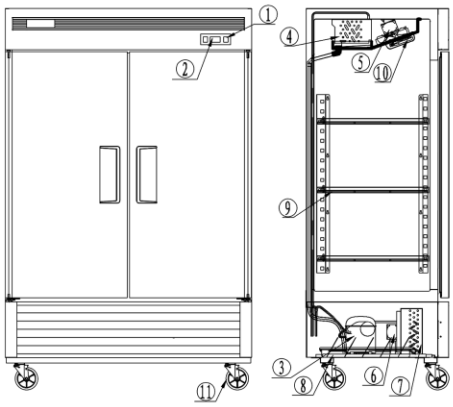
For technical service please contact the dealer technical department and give him the serial n°, and the date of buy.

12. Configuration Sketch Map

T Serise Reach-Ins



B Serise Reach-Ins



1. Power switch
2. Microcomputer controller
3. Compressor
4. Evaporator
5. Evaporator fan motor
6. Condenser fan motor
7. Condenser
8. Drain case
9. Shelf
10. Lamp
11. CASTER

Operating Instruction

1. New upright air-cooling refrigerator should be opened and ventilate it before it is in use. After that, users should use warm water clean its inside.
2. After connecting the power supply, press the "POWER" switch on the controller keyboard (Green Indicator Light ON), the fridge will come to work. The microcomputer controller, installed in the controller keyboard, could automatically adjust the temperature ranges. This intelligent digital controller works as: if the temperature increases and reaches set point plus differential the compressor is started and then turned off when the temperature reaches the set point value again.

3. Microcomputer Controller Operation Instruction:
4. Microcomputer panel sketch map, meanings of running indicator light and LED showing.

(Mod. XR06CX)

5. SET To display target set point, in programming mode it selects a parameter or confirm an operation.

❄ To start a manual defrost。

∧ In programming mode it browses the parameter codes or increases the displayed value .

∨AUX In programming mode it browses the parameter codes or decreases the displayed value .

∨+∧ To lock or unlock the keyboard

SET+∨To enter in programming mode

SET+∧To return to room temperature display .

LED	MODE	SIGNIFICATO
❄	On	Compressor enabled
	Flashing	Anti short cycle delay enabled (AC parameter)
❄	On	Defrost in progress
	Flashing	Dripping in progress
	On	Fans output enabled
	Flashing	Fans delay after defrost
°C	On	Measurement unit
	Flashing	Programming mode
°F	On	Measurement unit
	Flashing	Programming mode

6. How to see the point .

Push and immediately release the SET key, the set point will be showed;
Push and immediately release the SET key or wait about 5s to return to normal visualisation.

7. How to change the setpoint .

Push the SET key for more than 2 seconds to change the Set point value;
The value of the set point will be displayed and the "°C" or "°F" LED starts blinking;
To change the Set value push the ∧ or ∨AUX arrows.
To memorise the new set point value push the SET key again or wait 10s.

8. How to start a manual defrost .

Push the DEF ❄ key for more than 2 seconds and a manual defrost will start .

9. How to change a parameter value

To change the parameter's value operate as follows:

Enter the Programming mode by pressing the SET+▽ keys for 3s ("°C" or "°F" LED starts blinking).

Select the required parameter. Press the "SET" key to display its value

Use △ or ▽AUX to change its value.

Press "SET" to store the new value and move to the following parameter.

To exit: Press SET+△ or wait 15s without pressing a key.

NOTE: the set value is stored even when the procedure is exited by waiting the time-out to expire.

10. To lock the keyboard .

Keep pressed for more than 3s the ▽+△ keys.

The "OF" message will be displayed and the keyboard will be locked.

If a key is pressed more than 3s the "OF" message will be displayed.

11. To unlock the keyboard .

Keep pressed together for more than 3s the ▽+△ keys till the "on" message will be displayed .

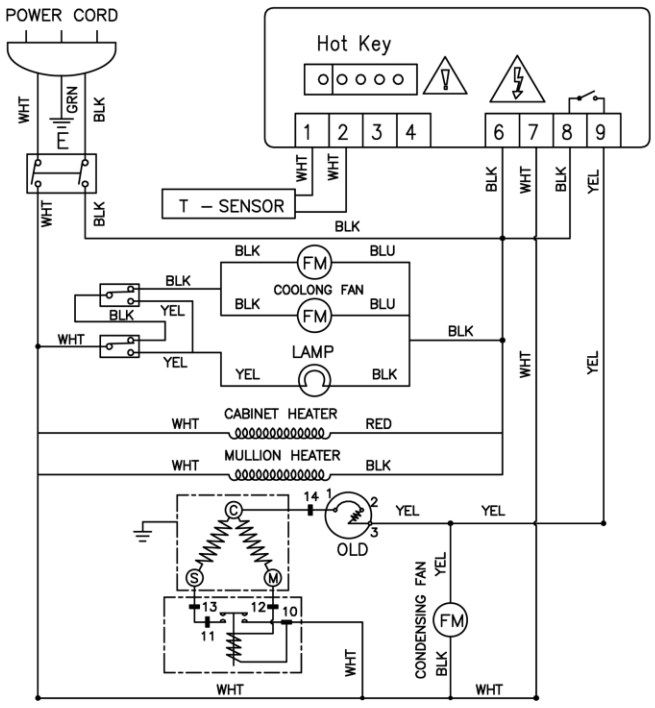
12. Alarm signalling .

Mess.	Cause	Outputs
"P1"	Room probe failure	Compressor output according to "Cy" e "Cn"
"P2"	Evaporator probe failure	Defrost end is timed
"HA"	Maximum temperature alarm	Outputs unchanged
"LA"	Minimum temperature alarm	Outputs unchanged
"EA"	External alarm	Outputs unchanged
"CA"	Serious external alarm	All outputs OFF
"dA"	Door Open	Compressor and fans restarts

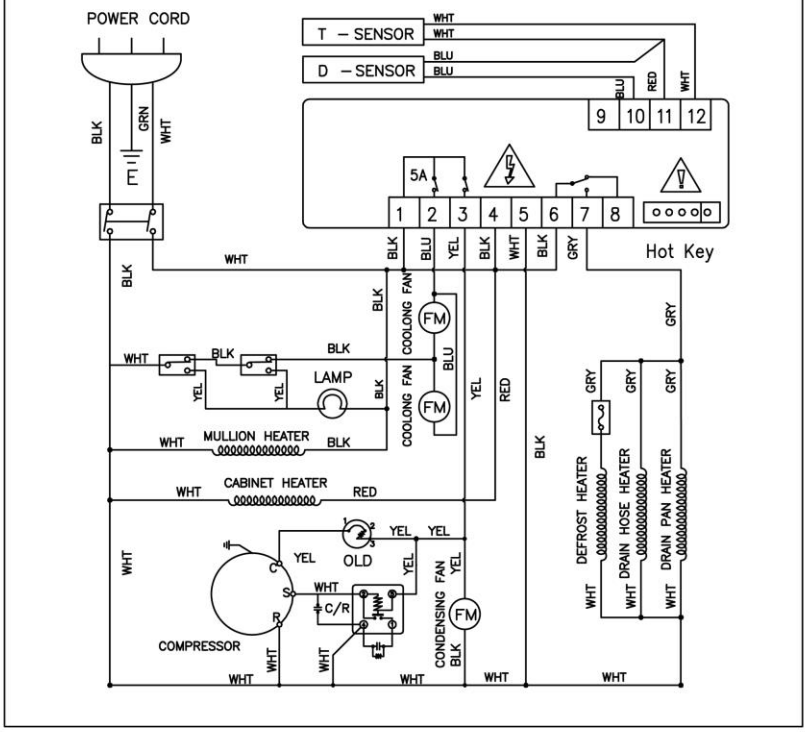
Our products have been modified precisely before leaving factory, so to avoid damaging compressor unit or other malfunctions, users mustn’ t modify the microcomputer parameters privately.

Electrical Control Circuit Diagram

Fan cooling chill series product



Fan cooling freeze series product



Technical Parameters

T Series Reach-Ins

Product Name	Model code	Prevention class of getting an electic shock	Power source (V) Rating frequency(Hz)	Rated current(A)	Temperature range (℃)	Refrigerant	Dimension (mm)	Net Weight (kg)
Single-door freezer	MBF8001	I	220~240/50	3	-22~-17	R404a	730×845×2130	120
Two-door freezer	MBF8002	I	220~240/50	4	-22~-17	R404a	1314×845×2130	185
Three-door freezer	MBF8003	I	220~240/50	5	-22~-17	R404a	1976×845×2130	280
Single-door refrigerator	MBF8004	I	220~240/50	2.3	+1~+8	R134a	730×845×2130	120
Two-door refrigerator	MBF8005	I	220~240/50	2.8	+1~+8	R134a	1314×845×2130	175
Three-door refrigerator	MBF8006	I	220~240/50	4	+1~+8	R134a	1976×845×2130	280
Half two door freezer	MBF8007	I	220~240/50	3	-22~-17	R404a	730×845×2130	120
Half four door freezer	MBF8008	I	220~240/50	4	-22~-17	R404a	1314×845×2130	185
Half six door freezer	MBF8009	I	220~240/50	5	-22~-17	R404a	1976×845×2130	280
Half two door refrigerator	MBF8010	I	220~240/50	2.3	+1~+8	R134a	730×845×2130	120
Half four door refrigerator	MBF8011	I	220~240/50	2.8	+1~+8	R134a	1314×845×2130	175
Half six door refrigerator	MBF8012	I	220~240/50	4	+1~+8	R134a	1976×845×2130	280
Single-door freezer		I	220~240/50	3	-22~-17	R404a	730×845×2130	120
Two-door freezer		I	220~240/50	4	-22~-17	R404a	1314×845×2130	185
Three-door freezer	MBF8115	I	220~240/50	5	-22~-17	R404a	1976×845×2130	280
Single-door refrigerator		I	220~240/50	2.3	+1~+8	R134a	730×845×2130	120
Two-door refrigerator		I	220~240/50	2.8	+1~+8	R134a	1314×845×2130	175
Three-door refrigerator	MBF8118	I	220~240/50	4	+1~+8	R134a	1976×845×2130	280

NOTES :

If the technical data has any changes, we will not notify you any longer.

B Series Reach-Ins

Product Name	Model code	Prevention class of getting an electic shock	Power source (V) Rating frequency(Hz)	Rated current(A)	Temperature range (℃)	Refrigerant	Dimension (mm)	Net Weight (kg)
Single-door freezer	MBF8501	I	220～240/50	3	-22~-17	R404a	685×800×2135	120
Two-door freezer	MBF8502	I	220～240/50	4	-22~-17	R404a	1003×800×2135	160
Two-door freezer	MBF8503	I	220～240/50	4	-22~-17	R404a	1382×800×2135	190
Three-door freezer	MBF8504	I	220～240/50	5	-22~-17	R404a	2079×800×2135	280
Single-door refrigerator	MBF8505	I	220～240/50	2.3	+1~+8	R134a	685×800×2135	115
Two-door refrigerator	MBF8506	I	220～240/50	2.8	+1~+8	R134a	1003×800×2135	155
Two-door refrigerator	MBF8507	I	220～240/50	2.8	+1~+8	R134a	1382×800×2135	180
Three-door refrigerator	MBF8508	I	220～240/50	4	+1~+8	R134a	2079×800×2135	280

OFFICIAL APPROVAL AND RULES

Our products full fill the present E.U. rules, including the CE mark of the European official approval

89/336/EEC including amendments-electromagnetic compatibility (EMC)

73/23/EEC including amendments-low voitage (LVD)

EN 60335-1:2005 EN 60335-2-24:2004

EN 55014-1:2003 EN 55014-2:2002

EN 61000-3-2:2001 EN 6100-3-3:2002

Serial № C003-106-076

@20110906

EC DECLARATION OF CONFORMITY

We Katerbay Ltd,

Declare that the DoC is issued under our sole responsibility and belongs to the following products:

Unifrost Commercial Refrigerator: R700SVN (OEM MBF8116GR) & R1300SVN (OEM MBF8114GR)

Manufacturer:	**Certified Body:**	
Katerbay Ltd,	TUV Rheinland LGA Products GmbH	
Claremorris Business Park,	Registration No:	AE 50552329 0001
Co Mayo, F12 H6E4	Report No:	CN224302 001
Ireland	Dated:	26.02.22
	Certificate No:	S50513150

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation EMC Directive 2014/30/EU Low Voltage Directive (LVD) 2014/30/EU. Ecodesign Directive 2009/125/EC (EU)2019/2016 EU 2019/2018 (EU) 2019/2024

The following harmonised standards have been applied:

EN IEC 55014-1:2021	EN IEC 61000-3-2:2019+A1	EN 61000-3-3:2013+A1+A2
EN IEC 55014-2:2021	EN ISO 23953-2:2015	EN ISO 23953-1:2015

Signed for and on behalf of:	Date of Issue:	Name, Function, and Signature:
Katerbay Ltd	13.05.24	Pat Naughton, Sales Director

CE The CE Markings affixed to all products complies with all EC Directives

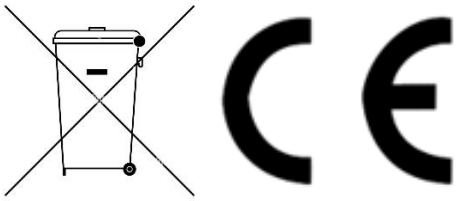
Company Seal

DISPOSAL

Disposal of the cabinet must take place in an environmentally correct way. EU Regulations stipulate that all refrigeration products be disposed of by specialist companies who are authorised to remove and recycle all gasses, metal and plastic components.

Consult your local waste authority for information on disposal of commercial refrigeration or contact Unifrost Head Office on 094 937 7444 for a list of companies in your area.

***The WEEE Logo on the product and documentation indicates that the product must not be disposed of as household waste.**



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