



INSTRUCTION MANUAL

VERTICAL COOLER

Ventilated Cooling Series
Static Cooling Series



*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.*



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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 future 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 R600a; in the refrigerator for frozen food maintenance is R290.

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.

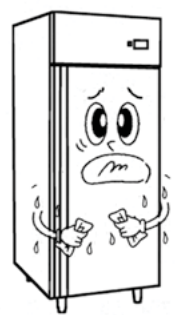
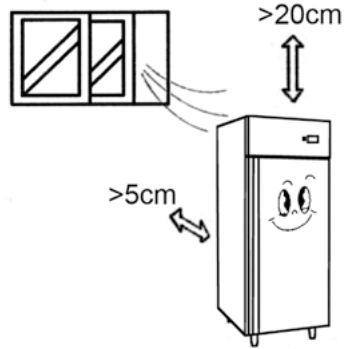
Never place a refrigerator with an in-built refrigerated unit on its side or turn it upside down as this may damage or impair operation of the refrigerated unit. We can not held liable for any damage or defects arising directly or indirectly from improper handling of the equipment or non-compliance with the safeguards illustrated above.






7. Installation procedure

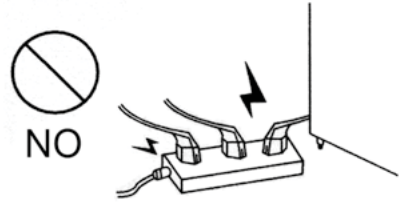
- ▲ Place the refrigerator in the coolest and best ventilated part of the room. Don't install the refrigerator in the near of heat and direct sunlight sources.
- ▲ Remove the straps securing the cardboard packing
Remove the cardboard. Covering
Remove the PET protection film
- ▲ Clean the refrigerator with mild detergent and then dry it with a soft cloth.



8. Connecting to the main power supply

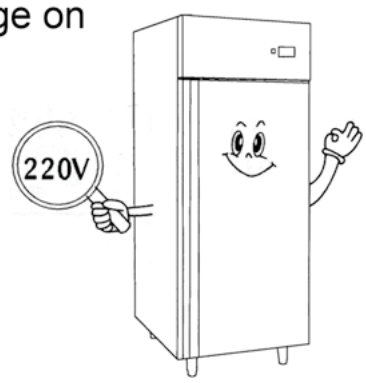
 This operation must be carried out by professionally and qualified persons.

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:

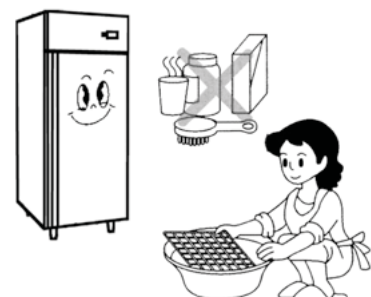
Regular cleaning of the refrigerator unit is strongly recommended each month. Please follow the instructions below.



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!



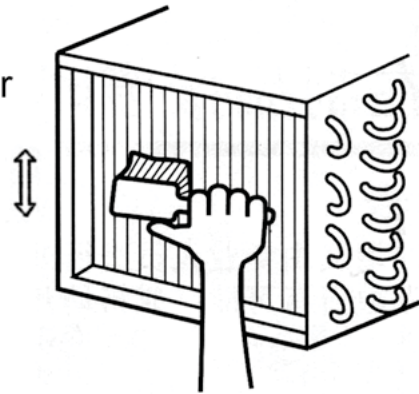


Cleaning the inside of the refrigerator:

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

▲ Remedies:

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

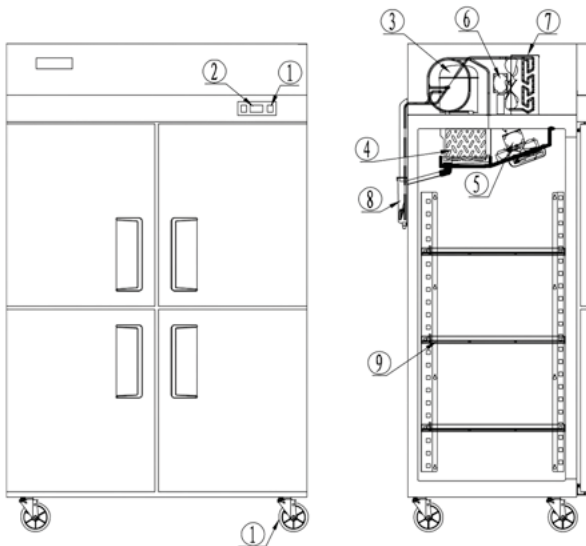
11. Technical service

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



12. Configuration Sketch Map

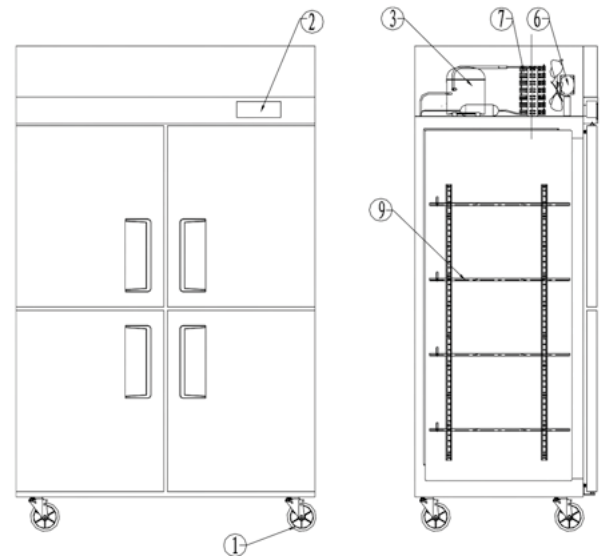
Ventilated Cooling Series



1. CASTER
4. Evaporator
7. Condenser

2. Microcomputer controller
5. Evaporator fan motor
8. Drain case

Static Cooling Series



3. Compressor
6. Condenser fan motor
9. Shelf

Operating Instruction

1. Display and functions

During normal operation, the controller displays the value of the probe set using parameter '4'

(=1 ambient probe, default, =2 second probe,

3= third probe). In addition, the display has LEDs that indicate the activation

of the control functions (see Table 1), while the 3 buttons can be used to activate/deactivate some of the functions (see Table 2).



2.LEDs and associated functions



icon	function	normal operation			start up
		ON	OFF	blink	
	compressor	on	off	request	ON
	fan	on	off	request	ON
	defrost	on	off	request	ON
AUX	aux	output on	output off	-	ON
	alarm	all	no alarm	-	ON
	clock	RTC fitted and enabled, at least 1 time band set	RTC not fitted or disabled, not even 1 time band set	-	ON if RTC fitted

Tab. 1



3. Table of functions activated by the buttons - models S, X, Y, C

button		normal operation		start up	
		pressing the button alone	pressed together		
	up ON/OFF	more than 3 s: toggle ON/OFF	Pressed together start/stop continuous cycle	Pressed together start parameter reset procedure	for 1 s display firmware vers. code for 1 s RESET current EZY set
	down defrost	more than 3 s: start/stop defrost			
	setmute	- 1 s.: display/set the set point - more than 3 s: access parameter setting menu (enter password '22') - mute audible alarm (buzzer)	-		

Tab. 2

4. Setting the set point (desired temperature)

- press SET for 1 s, the set value will start flashing after a few moments; increase or decrease the value using UP or DOWN;
- press SET to confirm the new value.

5. Switching the device ON/OFF



---Press UP for more than 3 s. The control and defrost algorithms are now disabled and the instrument displays the message “OFF” alternating with the temperature read by the set probe.

6. Manual defrost (models S, X, Y and C only)

---Press for DOWN more than 3 s (the defrost starts only the temperature conditions are valid).

7. Continuous cycle (models S, X, Y and C only)

---Press UP and DOWN together for more than 3 s.

8. Access and setting type F (frequent) and type C (configuration) parameters

---press SET for 3 s (the display will show “PS”);

- to access the type F and C parameter menu, enter the password “22” using UP/DOWN;
- to access the F parameter menu only, press SET (without entering the password); scroll inside the parameter menu using UP/DOWN;
- to display/set the values of the parameter displayed, press SET, then UP/DOWN and finally SET to confirm the changes (returning to the parameter menu).

---To save all the new values and exit the parameter menu, press SET for 3 s;

---To exit the menu without saving the changed values (exit by timeout) do not press any button for at least 60 s.

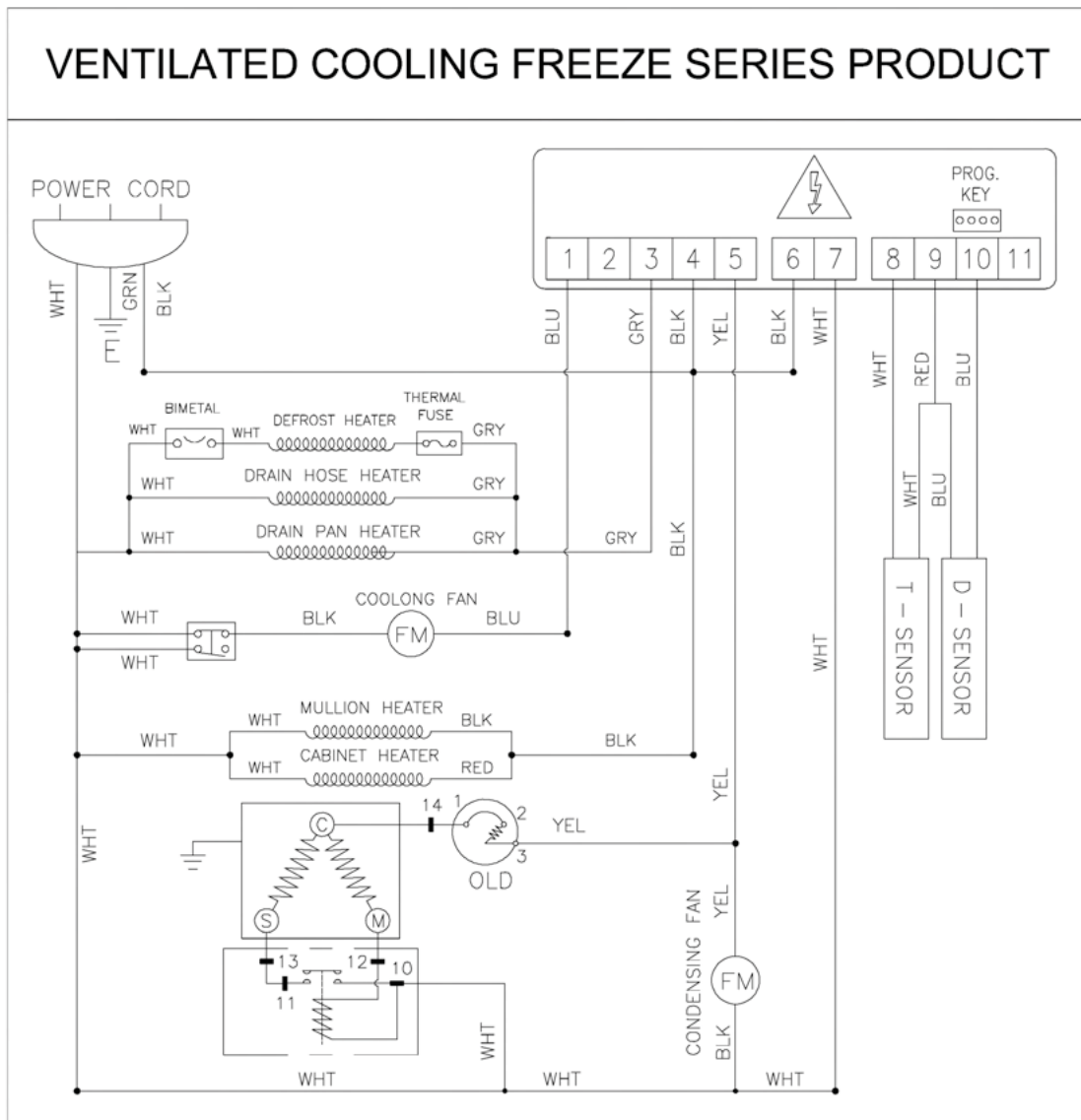
9. Safety standards

Compliant with the relevant European standards. Installation precautions: the connection cables must guarantee insulation up to 90°C; for 12 Vac versions use Class II transformers. To ensure compliance with the immunity standards (surge), the transformer must be one of the models specified. To ensure double insulation between the power connectors and the relay outputs, earth the secondary winding; ensure a space of at least 10mm between the case and the nearby conductive parts; digital and analogue input connections less than 30m away; adopt suitable measures for separating the cables so as to ensure compliance with the immunity standards; Secure the connection cables of the outputs so as to avoid contact with very low voltage parts.



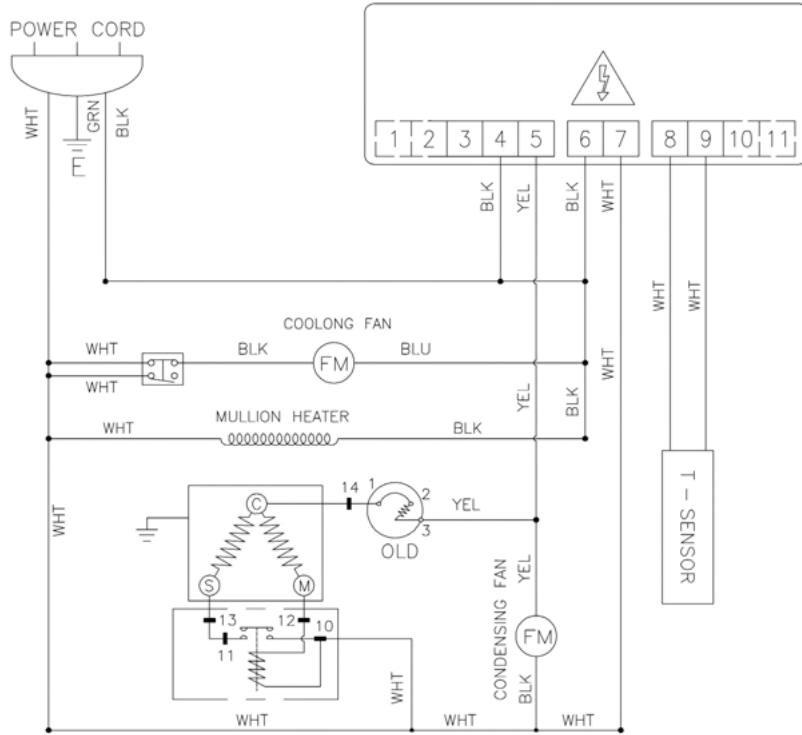
Our products have been modified precisely before leaving the factory, so to avoid damaging the compressor unit or other malfunctions, users must not modify the microcomputer parameters.

Electrical Control Circuit Diagram

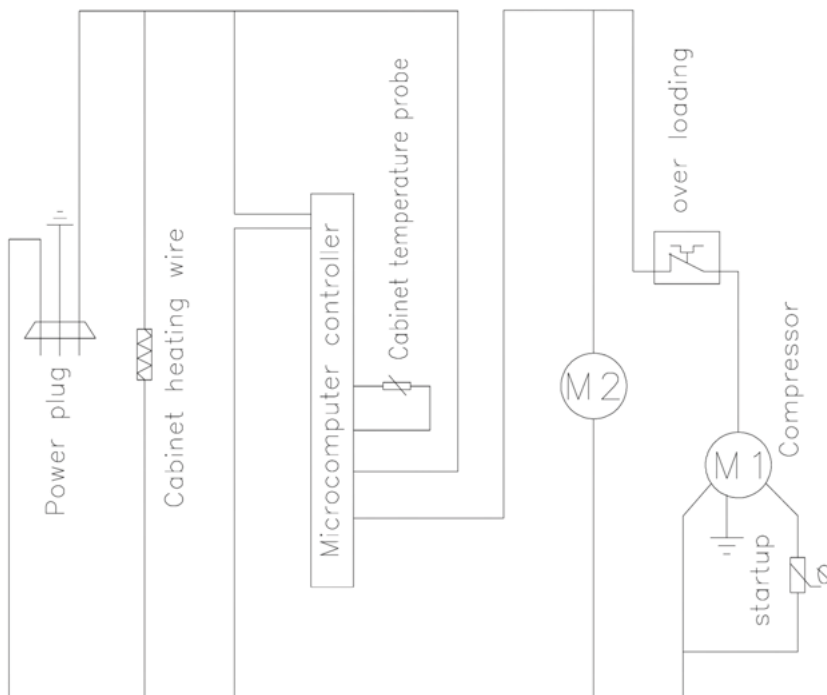




VENTILATED COOLING REFRIGERATOR SERIES PRODUCT



STATIC COOLING SERIES PRODUCT





Technical Parameters

Ventilated Cooling Series

Model code	Power source (V)	Rating frequency (Hz)	Input power (kW)	Temperature range (°C)	Refrigerant	Capacity (L)	Net weight (kg)	Dimensions (mm)
ERE54	220	50	0.7	Chiller -1~+8 @ 43°C ambient Freezer -22~-17 @ 43°C ambient	Chiller R600a Freezer R290	855	135	1200W x 745D x 1950H

NOTES:

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



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

