



Ice maker's Manual
Model: **C/M-400**

CONTENTS

PRECAUTIONS	10
INSTALLATION	11-12
OPERATION	13
TIPS	14-15
TROUBLESHOOTING	16
WARRANTY	17
NAME AND CODE OF SPARE PARTS	18-19

PRECAUTIONS

SAFETY SYMBOLS



This symbol mark indicates improper use of the ice maker



This symbol mark indicates instructions, which must be followed by the user

Dear valued customer,

The ice maker, you just bought, is possible to be installed and operate by yourself without any help of a technician, only by reading carefully this "operating manual". But you can also ask for installation, help or be advised by authorized personnel from the merchandiser you bought this product. This icemaker is a Greek product and has been manufactured from Master Frost having its principal office in Lamia- Greece.

...Please also consider that you must always ask for the European Conformities mark-compliance with E.U. directives – and manufacturer elements.

Closing I'd like to thank you for choosing "MASTER FROST" icemaker.

Well THANK YOU!!

With respect
Production Manager
Andrew Avdikos

INSTALLATION

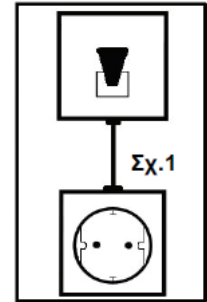


The power supply will be connected with the icemaker **MUST** have its own fuse as you in drawing 1.

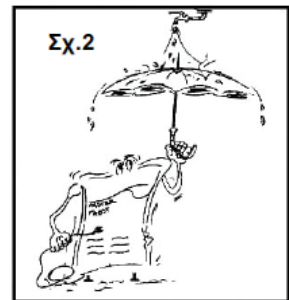
The fuse must be:

For the ice makers **C-250, C/M-300, C/M-400, C/M-600, C/M-800.....10 Amps**

For the ice makers **C/M-1200, C/M-1600, C/M-280016 Amps**

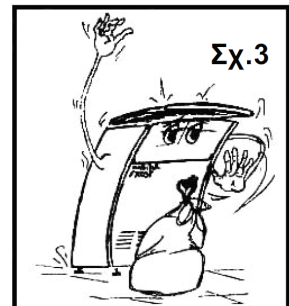


Do not pour water on your icemaker or the power cord



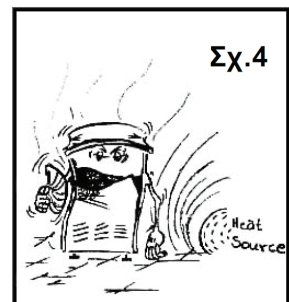
Do not install the device in small and narrow places that impede the free airflow IN and out of the air-duct.

Always leave 25-30cm.distance from the air – duct of your icemaker before put anything that prevents airflow.



Do not ever install your icemaker near heat sources.

The ambient working temperature **MUST** not exceed 32 Celsius nor underneath 10 Celsius.

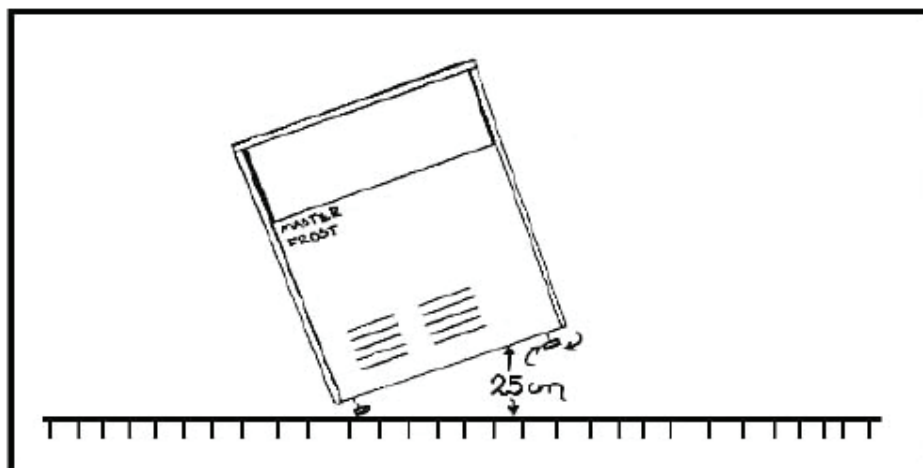


If your icemaker works in a warm ambient temperature over 42 Celsius and starts and stops within few seconds, then there is a risk of destroying your compressor.


INSTALLATION

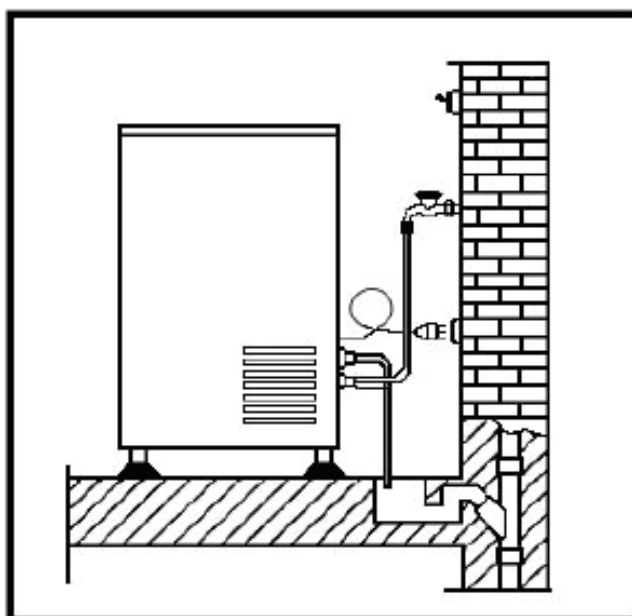
Inside the plastic bag you should find everything you need to start produce ice...

- Lift the icemaker from one side, about 25 cm from the ground, and place its feet. Same do from other side.



- At the back of the ice maker you will find an inlet and outlet of water. Place one side of granual pipe in outlet in outlet of icemaker and the other side to the drain of store – home. The other pipe, which have bolt in each side, is to be connected to the inlet of water. But first place in each bolt a rubber insulator (there are 2 rubbers in plastic bag). After that connect on side to inlet of icemaker and the other side to tap.
- Lastly allow inlet of water (open the tap) and then connect the power cord to plug. Now the apparatus will be supplied with tap water and after 2 min will start the cycle.

 Do not place icemaker in position that allows the drain to be higher from outlet of water.

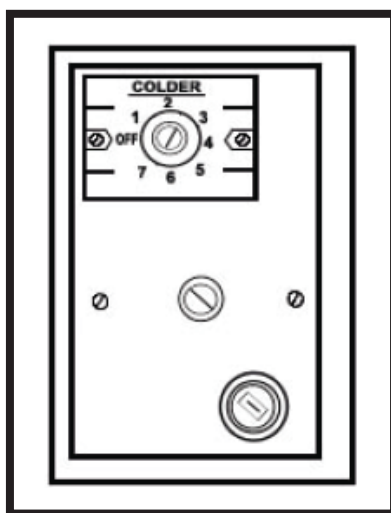


OPERATION

Your icemaker has been adjusted from the factory to function after installation, without any other need of technician. But here you'll find how to make adjustment to your icemaker. Please note the adjustments are so easy to be done without the need of technical knowledge.

Find the adjustment switches

- Pull up the front cover of device and the adjustment switches will be appear.
- Find the screw type with the numbers around it. This switch enables the fluctuation of the size ice size.
- With a screwdriver turn the switch right for increasing volume in each ice piece. Or turn it left to decrease volume in each ice piece.
Minimum weight for C models is 17 grams and max 32 grams.
Minimum weight for M models is 20 grams and max 28 grams.



Do not fluctuate marginal the adjustments, on left end position the icemaker stops to function. On right end position the icemaker will make a big mass of ice. If such thing happen you must stop the ice maker and wait till the ice melts. Or you can make the ice melt quicker by boiling water and pour it on top of icemaker, after you take off first the top cover. So, please make adjustments gradually per working cycle, till you will be satisfied with the size of ice.

- Near the switch we mentioned there is another screw type switch. Through this switch is possible to make adjustments with the storage capacity. Same turn right for increase the capacity and left for decreasing the capacity of your icemaker storage.
- The icemaker stops working when ice reaches the point you wish and starts again when a quantity of ice will be taken.



DO NOT! Try to adjust the red switch.
This is a timer and never needs adjustment.
However, if you need to adjust it you should turn ONLY clockwise.

TIPS

For having the best performance of your ice maker, you should clean once a month its condenser, mostly in summer time. The condenser is behind the front cover. Clean it with UP and DOWN movements ONLY!! Do not supply your icemaker with water from a tanker, which is exposed to the sun.

- For cleaning the water storage, distributor and sprayers:

First lift off the top cover, then take off the door. Now pull up the white flags. Behind the flags is the water storage. Take off the sliding conveyor. Place your hands down of distributor and lift it first. Rotate it 60° and pull it out gently in such way, so you will disconnect the distributors pipe from pumps pipe. Now you can clean the icemaker. Please also consider the sprayers, which are on distributor. Take them off and clean them by brushing with toothbrush or mix water vinegar. Be careful when you are going to connect them in the distributor, you must put in such way to be parallel in to each other.



- For having a quick cleaning of your icemaker just pour mix of water vinegar in water storage, then connect with 1.2 m $\Phi 1/2'$ pipe the white hose you disconnect before the distributor. The other side of the long pipe places it in water storage. Now start the ice maker. Leave for 10 min and then stop it. After that, wash the water storage with water and then dry it. Connect everything from last piece to first. And place the machine into function again.
- The ice maker has been designed for producing ice and not as storage to preserve fruits or bottles or in general to preserve foods, drinks. For example leaves from fruits or etiquettes from bottles could obstruct the drainage system.
- In situation of malfunction of your ice maker, first refer to troubleshooting section. If nothing performed after troubleshooting guiding, please ask for assistance by authorized personnel.
- We suggest installing before inlet of water a softener in case the supplied water is hard. The softener could be a mechanical filter.
- If you intent to use your icemaker periodically, through seasons, it is better to follow procedure of cleaning the device, plus stop power supply and blow air in pump circuit, in order to remove all water from pump circuit.
- In case you need to transport your ice maker it's better to place it at its feet. If thaw cannot be followed and the icemaker is placed in some else way, then after transportation leave it for 2 hours in its feet before using it.

TIPS

- If you decide to scrap your ice maker, please proceed as follows:
 1. First disconnect power cord and cut the wire from the point it comes out of the icemaker.
 2. Dispose all materials to each kind.
 3. Make sure refrigerant coolant and oil from compressor, are not escaping to environment.
 4. Make sure all above, proceeded in compliance with your country regulations.
- Electrical safety against shock, is clearly bind with the appropriate connection of the ice maker's power cord to an efficient earthing system. Be sure before installation that there is an efficient earth system.
- After installation destroy any plastic bag, that could cause suffocation to a child.
- Do not leave a child to reach the ice maker with the intent to play with it.

TROUBLESHOOTING

<p>The ice maker doesn't work</p>	<p>Check the plug – if there is any power.</p> <p>Check for short circuit – check fuses.</p> <p>Check if the storage is full of ice. If so remove ice to perform production.</p>
<p>The icemaker works but it doesn't produce ice/or is melting in the storage</p>	<p>Check the sliding conveyor. It might have remove from its position and prevent ice to fall in the storage by keeping it in the Water storage (behind flags). Light sliding conveyor slightly to up step of water storage.</p> <p>Check the drain, maybe the water comes back to storage and melts the ice. If so, you must install icemaker higher from drain.</p> <p>Last Unscrew back over, on left you will find a black pipe. Squeeze it so any obstacle will remove.</p>
<p>The produced ice is unformed/bad shaped</p>	<p>You must clean the distributor and sprayers. (See TIPS in this manual)</p> <p>Check for possible rubbish in filter of electro valve or pump.</p> <p>Check pump.</p> <p>Check electro valve.</p>
<p>The icemaker is working for long hour/s without producing ice</p>	<p>Lift the front cover of device and with the brush clean with UP and DOWN movements only the condenser (The component it is first to your disposal).</p> <p>Check the working temperature of the ice maker.</p> <p>If it is over 42 Celsius, you have to decrease the ambient working temperature, or install the ice maker somewhere else.</p> <p>If nothing of above change the problem Please call for assistance for authorized personnel, because the icemaker has lost its refrigerant. FREON (R452A) due to transportation, hit, of from long use.</p>

WARRANTY

Master Frost SA products are covered from the Master Frost SA International limited warranty, according to the conditions and instructions as described in this manual. Please read the warranty and this manual before starting using your icemaker for first time...

When the product is delivered the sales distributor should fill in the invoice tax document the ice maker's serial number and date of purchase and give a copy to Master Frost SA. If the document cannot be presented then other evidence is required to validate the warranty.

Warranty periods:

The warranty period starts on the date of delivery to the first owner/user. The date of delivery should be noted additionally with the ice maker's serial number on the tax document-invoice.

All components or parts replaced or repaired under warranty will receive the remaining warranty of the parts, products, components replaced...

The warranty period has been set to **12months** after date of purchase and covers every faulty part or component or product. It is usual the factory to ask for the icemaker's serial number, the faulty part serial number the invoice tax-document of date of purchase and for sending to our premises the faulty part.

General: This is to certify that Master Frost SA guarantees the product(s) indicated to be free from defects in material and workmanship under real working conditions and with the limitations specified in this manual.

Master Frost SA reserves the right to make changes in the product(s) manufactured and/or sold by Master Frost SA at any time without prior notice and without incurring any obligation to make the same or similar changes on product(s) previously manufactured or sold. Master Frost SA reserves the right to change design or construction that may deem to be necessary for the benefit of our customer – end user...

What the Warranty Covers:

This warranty covers the cost of either replacing defective parts or of having such parts repaired or of any equivalent parts whichever is the lowest to Master Frost SA. All warranty repairs or replacements must be carried out by authorized personnel or dealer.

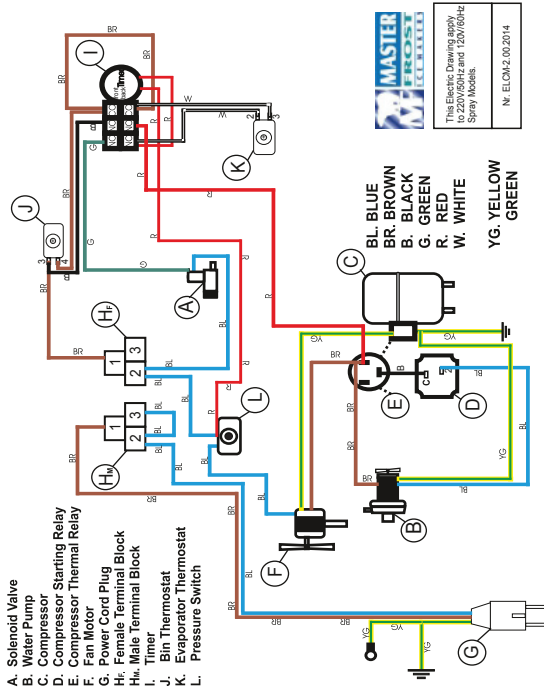
What the Warranty Does not cover:

This warranty does not cover the following:

Any parts or product(s) damaged during transportation, bad installation, repair, and modifications to ice maker different than this manual allows. The parts are faulty due to carelessness, miss of maintenance, improper use, miss of following instructions, repairs or maintenance from unauthorized personnel.

This warranty does not cover transportation fees for the products or spares under valid warranty. All transportation fees and authorized personnel fees are of the customer's responsibility.

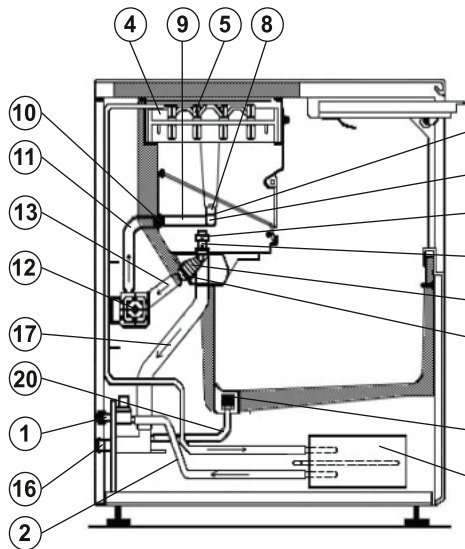
ΗΛΕΚΤΡΙΚΟ ΔΙΑΓΡΑΜΜΑ ELECTRIC DIAGRAM



- A) Ηλεκτρική βαλβίδα εισόδου νερού
B) Αντλία νερού
C) Συμπιεστής
D) Ρελέ λειτουργίας συμπιεστή
E) Θερμικό υπερφορτώσεως
F) Ηλεκτρικός ανεμιστήρας
G) Ρευματολήπτης
H) Συγκρότημα ακροδεκτών
I) Χρονοδιακόπτης
J) Θερμοστάτης αποθήκης
K) Θερμοστάτης εξατμιστού
L) Πρεσοστάτης
- A) Water inlet electric valve
B) Water pump
C) Compressor
D) Compressor starting relay
E) Thermal overload
F) Electric fan
G) Plug
H) Terminal block
I) Timer
J) Bin thermostat
K) Evaporator thermostat
L) Presostat

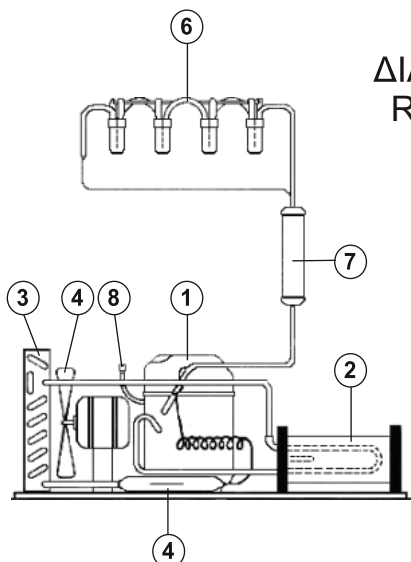
BL	ΜΠΛΕ	BLUE
B	ΜΑΥΡΟ	BLACK
G	ΠΡΑΣΙΝΟ	GREEN
R	ΚΟΚΚΙΝΟ	RED
W	ΛΕΥΚΟ	WHITE
BD	ΜΠΛΕ ΣΚΟΥΡΟ	BLUE DARK
BR	ΚΑΦΕ	BROWN
YG	ΚΙΤΡΙΝΟ/ΠΡΑΣΙΝΟ	YELLOW/GREEN

ΔΙΑΓΡΑΜΜΑ ΚΥΚΛΟΦΟΡΙΑΣ ΝΕΡΟΥ WATER CIRCUIT DIAGRAM



- 4.000.00.015 1) Ηλεκτρική βαλβίδα εισόδου νερού
2.040.40.041 2) Σωλήν εισόδου νερού
4.040.00.012 3) Εναλλάκτης ζεστού νερού
0.040.20.081 4) Θήκη εξατμιστού
4.040.00.010 5) Εξατμιστής C
4.040.00.017 5) Εξατμιστής M
2.040.50.021 6) Διανομέας νερού C
2.040.50.022 6) Διανομέας νερού M
0.000.20.051 7) Πώμα διανομέα νερού
0.000.20.052 8) Ψεκάστρες
2.040.40.011 9) Σωλήν εισόδου διανομέα
0.000.20.011 10) Σύνδεσμος σωλήνα καταθλήψεως
4.040.00.009 11) Σωλήν καταθλήψεως αντλίας
8.000.75.001 12) Αντλία νερού
4.040.00.008 13) Σωλήν αναρροφήσεως αντλίας
0.000.20.012 14) Σύνδεσμος σωλήνα αναρροφήσεως
2.000.10.013 15) Φίλτρο αντλίας
0.000.20.018 16) Αποχέτευση νερού
4.040.00.007 17) Σωλήν υπερχείλισης
0.000.20.014 18) Υπερχείλιση
0.000.20.015 19) Καπάκι υπερχείλισης
4.040.00.019 20) Σωλήν αποχέτευσως αποθήκης
0.000.20.013 21) Σύνδεσμος σωλήνα αποχέτευσως
- 1) Water inlet electric valve
2) Water inlet pipe
3) Heat-Water exchanger
4) Evaporator Gasket
5) Evaporator C
5) Evaporator M
6) Water distributor C
6) Water distributor M
7) Plug for water distributor
8) Sprayers
9) Distributor inlet hose
10) Delivery pump connecting pipe
11) Delivery pump hose
12) Water pump
13) Inlet pump hose
14) Inlet pump connecting pipe
15) Pump filter
16) Water drain
17) Overflow drain hose
18) Overflow
19) Overflow cup
20) Bin drain hose
21) Bin drain connecting pipe

ΔΙΑΓΡΑΜΜΑ ΨΥΞΕΩΣ ΑΕΡΟΨΥΚΤΗΣ ΚΥΚΛΟΦΟΡΙΑΣ REFRIGERATION DIAGRAM AIR COOLED CIRCUIT



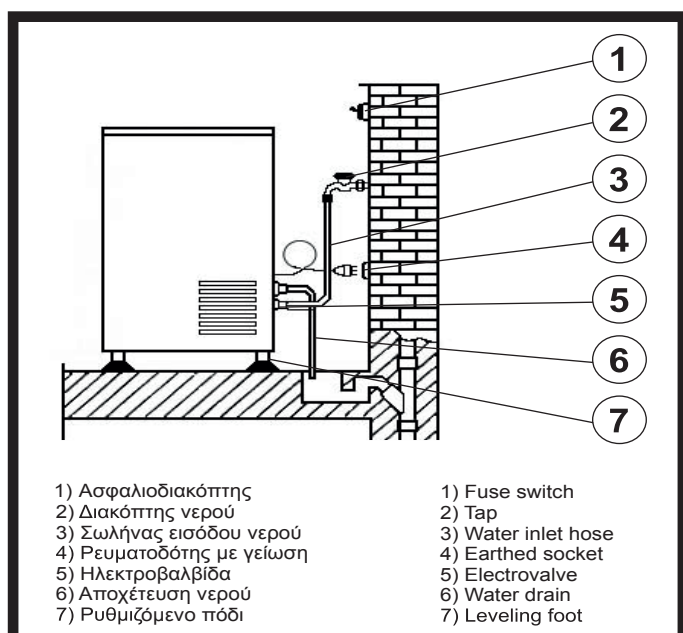
- 8.040.30.005 1) Συμπιεστής
4.040.00.012 2) Εναλλάκτης θερμότητας
8.040.30.002 3) Συμπυκνωτής
8.040.55.001 4) Ηλεκτρικός ανεμιστήρας
8.040.45.001 5) Φίλτρο μοριακού καθαρισμού
4.040.00.010 6) Εξατμιστής C
4.040.00.017 6) Εξατμιστής M
4.040.00.011 7) Εναλλάκτης τριχοειδούς
8) Σωλήν πλήρωσεως
- 1) Compressor
2) Heat exchanger
3) Condenser
4) Electric fan
5) Molecular sieve filter
6) Evaporator C
6) Evaporator M
7) Capillary exchanger
8) Filling valve

ΟΝΟΜΑ ΚΑΙ ΚΩΔΙΚΟΣ ΑΝΤΑΛΛΑΚΤΙΚΩΝ NAME AND CODE OF SPARE PARTS

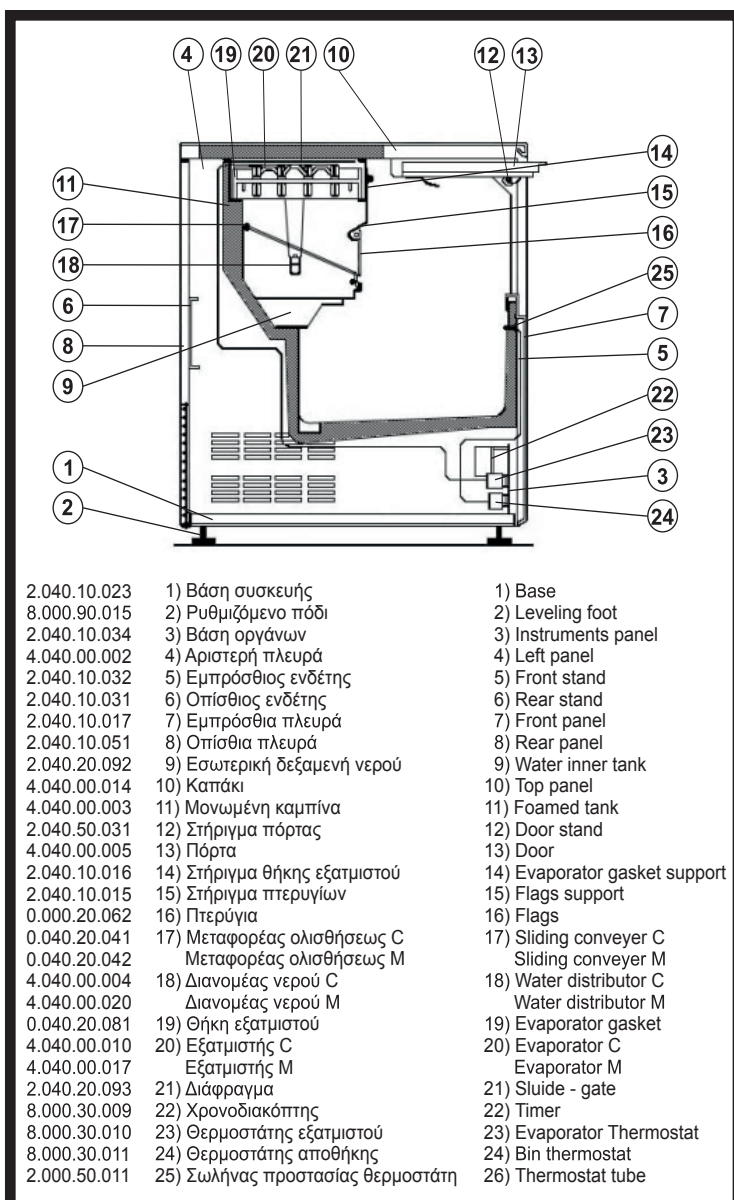
ΤΕΧΝΙΚΑ ΧΑΡΑΚΤΗΡΙΣΤΙΚΑ TECHNICAL DATA

ΜΟΝΤΕΛΟ MODEL	C 400
Παραγωγή 24ώρου Production 24/H	40Kg
Ύψος Height mm	750mm
Πλάτος Width mm	485mm
Βάθος Depth mm	580mm
Συμπιεστής Compressor	455 W
Τάση ρεύματος Voltage	V 220 - 240/1/50 Hz
Ψυκτικό αέριο Cooling gas	R452A
Είσοδος νερού Water inlet	Ø 3/4~GAS
Αποχέτευση Water outlet	Ø 24 mm
Χωρ/της αποθήκης Bin capacity	16~18Kg
Καθαρό βάρος Net weight	C: 44Kg / M: 45Kg
Μικτό βάρος Gross weight	C: 47Kg / M: 48Kg

ΕΓΚΑΤΑΣΤΑΣΗ INSTALLATION



ΣΥΓΚΡΟΤΗΜΑ ΚΑΜΠΙΝΑΣ CABINET'S GROUP



NOTES

[illegible]

S/N:

Purchase Date:

MASTER FROST SA

3Rd Km National Road Lamia

35100 LAMIA

LAMIA

GREECE -EUROPE

Tel: 0030-22310-36294

Fax: 0030-22310-36295

e-mail: icemaker@otenet.gr

Web: masterfrost.gr