

# metos

## **FREEZER**

Metos Econo BD-600W

4249051

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## **Installation and Operation Manual**








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## 1. General

-  Please read the introductions in this manual as it contains important information regarding proper, efficient and safe use and maintenance of the appliance.
-  Keep this manual in a safe place for the eventual use by other operators of the appliance.
-  The installation of this appliance must be carried out in the accordance with the manufacturers instructions and following local regulations.
-  Switch off the appliance in the case of failure or malfunction.
-  Have the appliance serviced by a technically qualified person authorized by the manufacturer and using original spare parts.
-  Not complying with the above may jeopardize the safety of the appliance.
-  Before performing any cleaning or maintenance operation always turn off the appliance and unplug it from the power supply.

### 1.1 Intended use

-  The appliance shall only be used for storing food and beverages. The manufacturer is not responsible for the consequences if the appliance is used for other purposes..
-  Do not store food in direct contact with the structure.
-  Both the appliance's construction features and the condensing unit's capacity have been designed to store only pre-cooled products.
- In all appliances there are surfaces subject to frosting. **The appliance is to be defrosted manually when needed.**
-  Never attempt to remove frost using a pointed object because in this way you could irreparably damage the appliance.
-  Do not use any mechanical device or other artificial means to accelerate the defrost process.
-  The Manufacturer declines all responsibility, and the warranty shall be null and void, if electrical and/or mechanical alterations are made to the product.

### 1.2 Controls at reception

Unpack the appliance immediately on receipt to check that no pieces have been lost or damaged in transit. Inform the carrier of any damage at once.

### 1.3 Handling

HANDLING with FORK LIFT or SIMILAR

Before handling operations ensure that the lifting capacity is sufficient for the appliance in question. Begin lifting checking that the appliance is in stable equilibrium.

Do not tip or turnover the appliance during handling.

Wait at least 2 hours before turning on the appliance if it had to be transported horizontally.

## 1.4 Unpacking

Unpack the appliance and check for visible damages.

Packing materials (plastic bags, polystyrene foam, nails, etc.) should be kept out of children's reach as they are potential sources of hazard, and they should be properly recycled in compliance with local regulations in force.

Check that the serial number corresponds to the transport documents.

## 1.5 Disposal of the appliance

When the appliance has reached the end of its service life, it must be recycled in accordance with current regulations. Contact a company which specialises in recycling. The best method to ensure that no one will remain trapped inside is to take off the door completely.

The appliance must not be disposed of together with household waste and metal scrap. Specially avoid damaging the refrigeration circuit, particularly near the heat exchanger.

## 2. Installation



Before making the connection to the mains, ensure that the voltage and frequency are as indicated on the appliance nameplate.



The installation of this appliance must be carried out in accordance with the manufacturer's instructions and following local regulations.



Never use sockets or plugs without earth connection. The mains socket must be earthed.



The manufacturer declines all responsibility if the appliance has not been installed and connected according to the instructions given in this manual.



The use of adapters, multi-plugs and/or extension leads is strictly prohibited.

### 2.1 Positioning



The machine has not been designed to be installed in explosive environments.

Check that the floor is able to support the weight of the appliance and that it is level.

Control that the appliance is perfectly level. Regulate the adjustable feet if necessary. Use a level, if needed. The maximum permissible deviation from the horizontal plane is +/-0.5 degrees.

All four feet should rest on the floor. This will ensure proper door operation.

To ensure proper airflow and avoid any damage to the refrigeration circuit, allow a minimum side clearance of 80 mm and 800 mm on the upper side.



Do not place the appliance close to heat sources (such as ovens, radiators, etc.) or exposed to direct sunlight and provide suitable insulation from walls or floor if they transmit heat.



Do not install the appliance in places where the temperature drops below +15°C. For indoor use only.



If the appliance has been moved, wait for a while before switching it on again. In particular, if it was not handled vertically, you need to wait at least 2 hours.



Remove the plastic protection from the external surfaces. Wash the inside part with luke warm water and mild soap. Place the appliance as far as possible from heat sources. Do not prevent air from circulating inside the engine compartment. Keep the keys for locking doors away from children.

## 2.2 Preliminary electrical checks



Before making the connection to the mains, ensure that the voltage and frequency are as indicated on the appliance nameplate.

Make a visual inspection to ensure that the sockets and connections are correct.

Disconnect the socket from the mains using the main switch.

Check that the socket is suitable for the appliance plug. If necessary, the socket should be replaced with an appropriate one by qualified personnel. Check that the plug is plugged into the socket.

## 2.3 Start-up

After the above controls have been thoroughly completed the appliance may be started-up:

Turn the main switch, connected to the power cable plug, to the ON position.

Turn the switch of the appliance to the ON position. Compressor will start in approx. 5 minutes.



Do not load the appliance until the set temperature value has been reached.

Ensure proper airflow.

## 3. Use

Proper storage of foodstuffs is a relevant factor in the safe and sanitary production of food; in addition, it improves the efficiency of foodservice activities and positively affects energy consumption. Follow the directions below to obtain the highest performance possible out of your appliance.

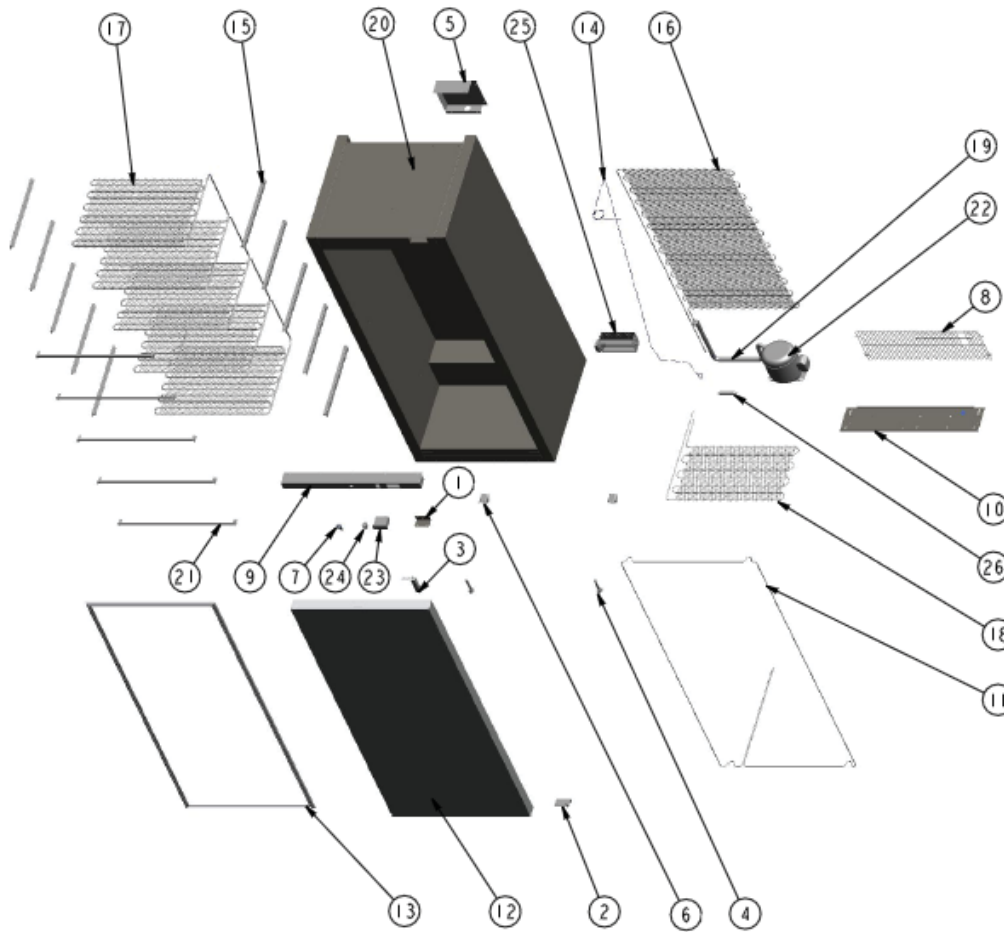


Products should always be stored on the shelves; do not place products on the cabinet's bottom.

Follow always the recommendations for storage of deep-frozen products.

Place the products into the appliance in such a way that proper airflow is ensured. Leave free space between the products. Do not place the products in touch with the walls.

### 3.1 Construction

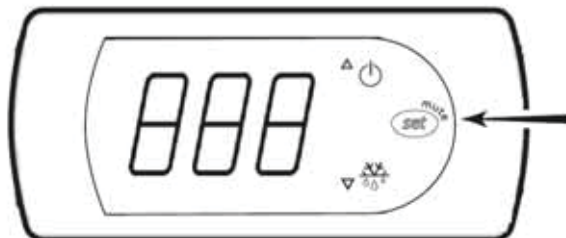


1	UPPER HINGE	18	EVAPORATOR
2	BOTTOM HINGE	19	ASSISTANT CONDENSER
3	SELF-CLOSING HINGE	20	RETURN AIR TUBE
4	ADJUSTABLE FEET	21	CABINET
5	JUNCTION BOX	22	EVAPORATOR COVER SUBASSEMBLY
6	CASTOR	23	COMPRESSOR
7	LOCK	24	THERMOSTAT
8	SAFTY COVER OF COMPRESOR UNIT	25	SWITCH
9	CONTROL PANEL	26	CONDENSER FAN MOTOR
10	UNIT INSTALLATION BOARD		
11	ANTI-DEW TUBE INSIDE OF FRAME		
12	DOOR		
13	GASKET		
14	CAPILLARY		
15	EVAPORATOR FIXED SUBASSEMBLY		
16	CONDENSER		

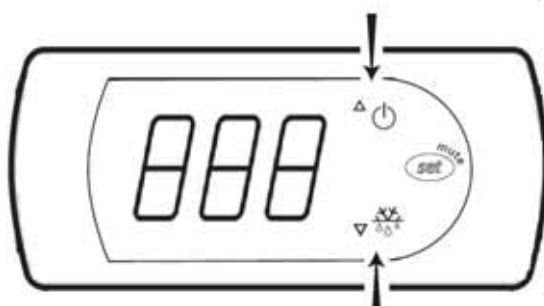
## 3.2 temperature controller

### 3.2.1 Setting the set point (desired temperature)

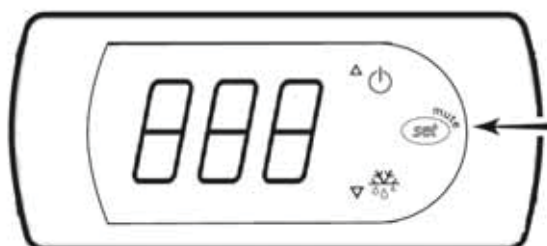
- Press SET for 1s, the set value will start flashing after a few moments



Increase or decrease the value using UP or DOWN;

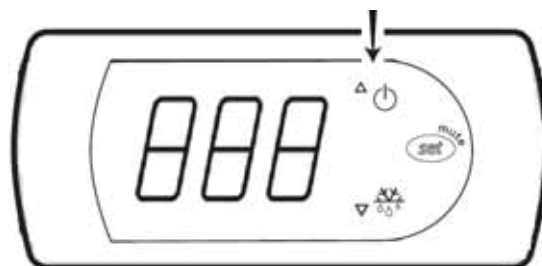


- Press SET to confirm the new value.



### 3.2.2 Switching the device ON/OFF

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



## 3.3 Defrosting

Remove the products to an other freezer.

Switch off . Let the ice melt with door open. Dry the water from the bottom of the freezer.

## 4. Cleaning and Maintenance



Always disconnect the appliance from the mains before any cleaning and maintenance.



The machine must not be cleaned with a pressure washer. Do not spray water direct on appliance. Avoid using excess amounts of water. Water should not get in contact with electric components.

### 4.1 Cleaning

The need for cleaning highly depends on how frequently the appliance is used. Observe the use and schedule the cleaning as needed.

For cleaning the interior and exterior, use a neutral or slightly alkaline cleaning agent. It is recommended to occasionally clean the interior with a disinfectant. Impurities can usually be wiped off with a damp cloth. Never use metallic tools for cleaning appliance.



Do not use corrosive cleaning agents.

### 4.2 Routine maintenance

In normal use, this appliance requires little maintenance. The user can do the following procedures:

The condenser has to be cleaned regularly. Before cleaning, switch off the appliance with the main switch and unplug the cable from the power supply. Use either a vacuum cleaner or a soft brush. When brushing the condenser, be careful not to damage the aluminium grid of the condenser.

- Check that the door seal is in good condition. It is important that the seal is undamaged and perfectly closing.
- Check that the power cable that connects the appliance to the mains socket is not cut, cracked or altered in such a way as to compromise the insulation. Contact your authorised service centre if this requires maintenance..

### 4.3 Long shutdowns

If the appliance is inactive for long periods of time proceed as follows::

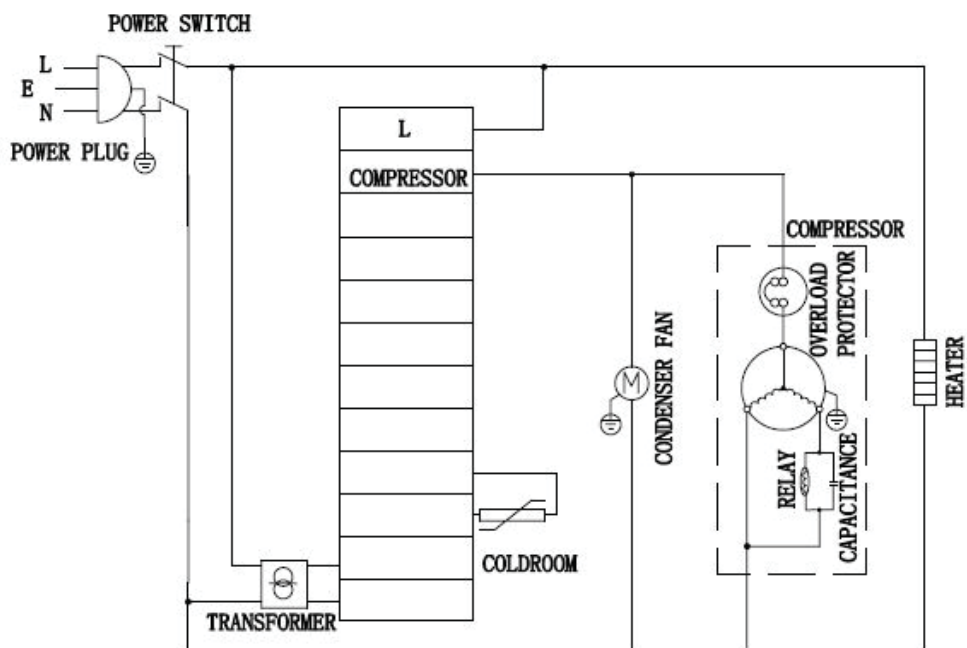
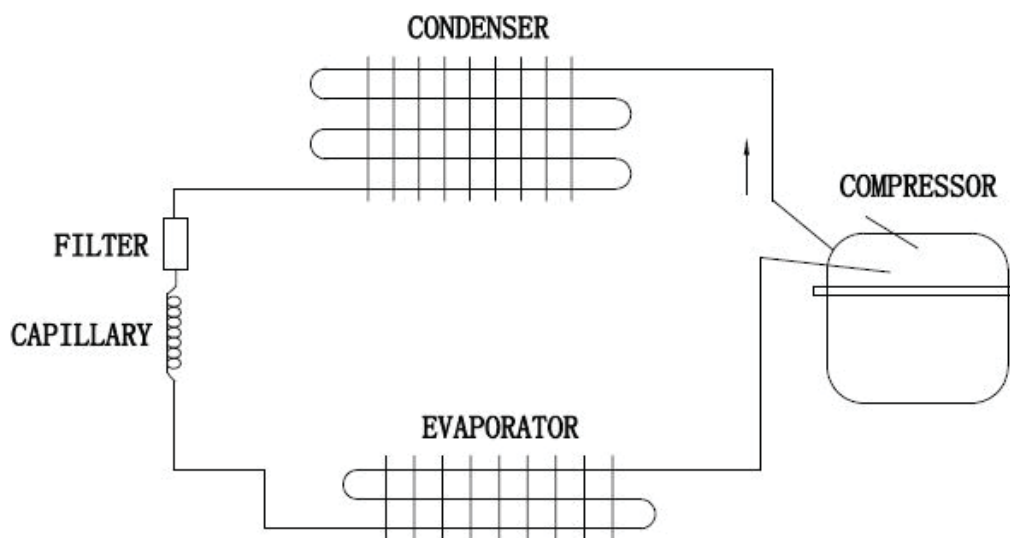
- Switch off the main switch.
- Disconnect the plug from the power supply socket.
- Remove all foods from the refrigerator and clean it, see "4.1 Cleaning".
- Leave the door ajar to avoid bad odours from forming.
- Protect the compressor group from dust.



## 5. Technical information

	BD-600W
Volum	600 l
Outer measurements WxDxH	740 x 870 x 2050 mm
Temperature	$\leq -18^{\circ}\text{C}$
Current	230V / 1 / 50Hz
Energy consumption (kW.h/24h)	4.36
Power	297 W
Refrigerant	R134a
Amount	160g

### 5.1 Refrigeration and wiring diagrams



## 6. Troubleshooting

In case of malfunction, review the following list to find out if it is possible to put the appliance in order without a service call.

If the fault persists after making the mentioned checks, call service.

PROBLEM		POSSIBLE CAUSE	ACTION
No indicator light	ON	Power not connected	Connect the plug
		Fuse defected	Replace the fuse
		Plug and cable defected	Call service
		Fail inpu of control circuit	Call service
	OFF	Base of light missing out of welding	Call service
		Indicator light burning out	eplace the lamp
Compressor running failure*		Low power	Equip with manostat
		Power damaged	Call service
		Compressor failure	Call service
Ceaselessness of compressor		Misplacement of the probe of the temperature controller	Call service
		Damage of controller	
		Insufficiency or leakage of refrigeration	
		Heavy frosting of evaporator	
		Circulation failure for entrance of un-congealed liquid	
		Blocking of refrigeration pipe	
		Failure of condenser fan	
		Failure of condenser fan	Reducing the frequency of opening door
		Much fat and dirt in condenser and filter	Cleaning the condenser and filter
		Bad ventilation result of too large amount of goods	Reducing the storage and redistributing the interior space
	Heat leakage of door seal	Maintain the door seal	
Unit noisy		No even placement of the showcase	Check the balance
		Damaged fan	Call service
No interior light		Damaged or switched off	Call service
		Light burned out	Replace the light

**\* NOTE:Kompressor start delay**

- The compressor starts running ca. 3 minutes after the appliance has been turned on

XINGXING

VAATIMUSTENMUKAISUUSVAKUUTUS  
FÖRSÄKRAN OM ÖVERENSSTÄMMEELSE

(Business ID:4406012004384)

DECLARATION OF CONFORMITY

Valmistajan nimi / Tillverkarens namn / Manufacturer's name  
GUANGDONG XINGXING REFRIGERATION EQUIPMENT CO.,LTD.

Osoite / Adress / Address  
Nanfeng Road,Sanshui,Foshan,Guangdong,China

Vakuuttaa, että seuraava tuote / Försäkrar att följande produkt / Declare that the following product

Nimi, tyyppi tai malli / Namn, typ eller modell / Name, type or model  
Commercial Refrigerator and freezer ,220-240V/50 Hz  
BC-600W,BD-600W

on seuraavien direktiivien asiaankuuluvien säännösten mukainen / överensstämmer med tillämpliga bestämmelser  
i följande direktiv / is in conformity with the relevant provisions of the following directives

2006/95/EC Low Voltage Directive  
2004/108/EC Electromagnetic Compatibility Directive

ja lisäksi vakuuttaa, että seuraavia yhdenmukaistettuja standardeja (tai niiden osia/kohtia) on sovellettu / och  
försäkrar dessutom att följande harmoniserade standarder (eller delar/paragrafer) har använts / and furthermore  
declares that the following harmonised standards (or parts/clauses) have been used

EN 60335-1: 2002+A1+A11+A12+A2+A13  
EN 60335-2-89: 2002+A1+A11+A2  
EN 62233: 2008  
  
EN 55014-1:2006+A1  
EN 55014-2:1997+A1+A2  
EN 61000-3-2:2006+A1+A2  
EN 61000-3-3:2008

ja lisäksi vakuuttaa, että seuraavia muita standardeja (tai niiden osia/kohtia) on sovellettu / och försäkrar dessutom att  
följande andra standarder (eller delar/paragrafer) har använts / and furthermore we declare that the following other  
standards (or parts/clauses) have been used

ISO 9001 Quality Management Standard  
  
ISO 14001 Environmental Management Standard

Alla mainittu henkilö on valtuutettu kokoamaan teknisen tiedoston / Nedan nämda person är bemyndigad att  
sammanställa den tekniska dokumentfilen / The person mentioned below is authorized to compile the technical file

Jiwen Wu

Antopaikka ja päivä / Utfärdad på ort och datum / Place and date of issue  
Foshan,China June 1<sup>st</sup>,2012

Valtuutetun henkilön nimi ja asema / Bemyndigad persons namn och befattning / Name and title of authorized person  
Director of Quality Control Department

吳文



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