

metos

BLAST CHILLER / SHOCK FREEZER

ICER

BCF20, BCF40

Installation and User Manual



02.12.2014

MG4249072, MG4249074

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1. Introduction

These devices are designed considering the user's needs and preferences. The devices are checked at the factory before dispatch.

Carefully read the instructions in this manual as they contain important information regarding proper, efficient and safe installation, use and maintenance of the appliance.

Keep this manual in a safe place for eventual use by other operators of the appliance.

By observing the recommendations in this manual, you will guarantee an extended trouble-free operation of the equipment.

2. Technical data

	BCF20	BCF40
Climate class	4(32°C)	4(32°C)
Electrical safety (CS)	I	I
Frequency Hz	50	50
Voltage V	230V 1N	400V 3N
Quantity of GN pans 600x400x40 mm	5	10
90 min chilling capacity +70 -> +3°C kg	18	36
240 min freezing capacity +70 -> -18°C kg	12	24
Outer dimensions mm WxDxH	800x800x1000	800x800x1500
Input capacity W	980	1600
Defrost power W	895	1634
Rated current A	5,6	5,2
Refrigerant + amount	R404a 1300g	R404a 2500g

3. **Manufacturers responsibility and rights**

It is forbidden to make changes to the appliance without authorization of the manufacturer.

The manufacturer is not liable for damage caused by:

- regulations to instructions in this manual have not been followed
- the unit has not been used in accordance with instructions given
- the unit has been used by staff who have not received training
- the unit has been used in a way that is contrary to local regulations
- repair and maintenance of the unit has been carried out by unauthorized personnel
- other than original spare parts have been used
- unpredictable events
- the instructions in this manual have been misunderstood

The manufacturer reserves the right to make changes

4. **Transport and storage**

The device comes attached to a wooden pallet. The surface of the apparatus is protected by a porous material. The apparatus is further protected by a casing of cardboard.

The unit should be stored in its original packaging in a room where the temperature is between -25 / + 55 ° C and relative humidity 30 ... 95%. Do not stack more than 3 sets on each other.

5. Commissioning

Note the rating plate and warning decals. These should under no circumstances be covered and they should be immediately replaced if damaged

Do not remove protection or panels that requires tools.

5.1. Installation

Place the unit on a flat surface. Leave sufficient space round the appliance for use and service.

The power outlet for the appliance must be located so that the user has unrestricted access to it.

Behind and on the sides of the appliance there should be a space of at least 100mm to ensure air circulation.

Move the device only by lifting from the bottom of the appliance.

If the unit has been tilted during transport there should be a delay of at least 2 hours before the unit is switched on.

Packaging materials should be disposed according to local regulations and directives.

The unit must not be installed in explosive environments or out door. The appliance should not be installed in the vicinity of heat sources (fireplaces, radiators, etc.), in direct sunlight or in drafty locations (ventilation, open doors, etc.).

5.2. Cleaning prior to commissioning

Before use all parts of cabinet should be cleaned.

For the walls and all the internal parts use an antibacterial detergent.

For the plastic parts, use a damp cloth. Dry with a clean cloth.

Corrosive and abrasive cleaners will damage the surfaces of the unit.

Wear gloves when cleaning.

Do not wash the machine with direct water jets. The use of pressure washing or running water in the vicinity of the unit is also prohibited.

5.3. Electrical connection

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

Never use sockets or plugs without earth connection.

Never use extension cords.

Ensure that the unit's power cord is not stretched or pinched. The cable must not come into contact with sources of heat or liquid.

Immediately turn off the unit and disconnect the power supply if the power cord is damaged. Only qualified professional personnel may replace the cable.

5.4. Drain

A separate connection is not needed. The condensation water evaporates from the appliance evaporating vessel.

6. Technical data

6.1. Noise and vibration

The device noise level does not exceed 75 dB.

When the device is functioning properly it causes no noticeable vibration.

6.2. Application areas

Do not store medical supplies in the unit.

The device is designed to operate in an environment of class 4 (ISO23953-2, + 30 ° C, relative humidity 55%). Optimum ambient + 10 ° ... + 30 ° C, relative humidity 30 ... 55%.

The refrigerant of the freezer is R134a, which GWP value is 1300.

7. Operation

7.1. Actions

7.1.1. Electrical connection

BCF20: connect the plug to the wall outlet

BCF40: connection may only be carried out by qualified professional staff.

When the unit is connected to the mains the display lights up showing current internal temperature.

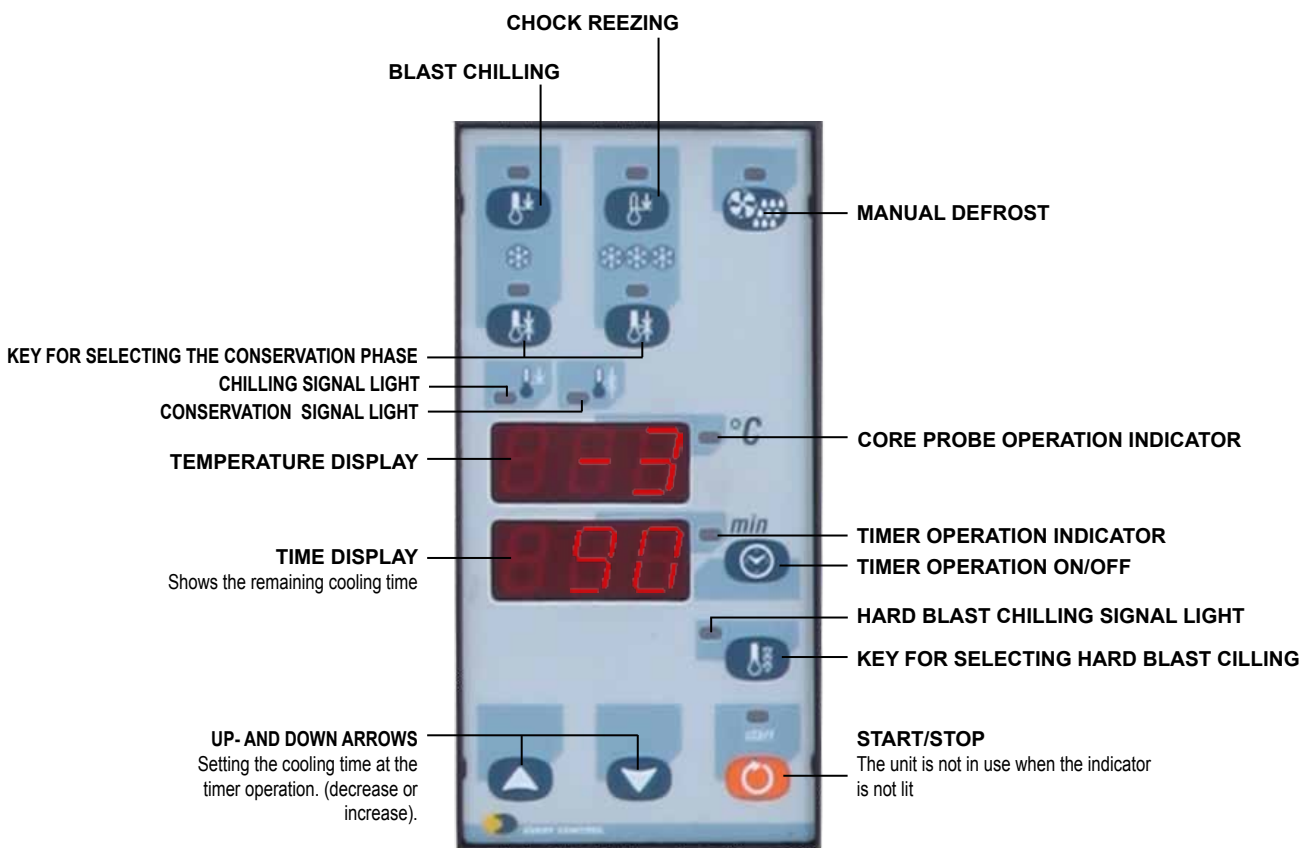
7.1.2. Start

Select the desired program while the unit is in "STOP" mode. Start the appliance by pressing "START"

7.1.3. Temperature display

When the unit is in operation, the temperature and the set running time is shown on the display.

7.2. Control panel



7.3. Selecting and starting a function




General

- Do not open the door once the cycle has commenced and until the cycle has terminated.
- Avoid wrapping, protecting or closing containers with lids or insulating films.
- Do not use trays or containers deeper than 65mm. 40 mm deep trays are recommended.
- Do not stack foodstuffs.
- Chill / freeze foodstuff with the same size / thickness (layer thickness max. 50 mm).
- Use aluminium or stainless steel containers.
- Place the foods inside the appliance so that they do not limit the air circulation.



Use:

- Place the food in the appliance.
- Insert the core probe in the food
- Select:






BLAST CHILLING

- **Select the core probe controlled blast chilling function** by pressing .
- OR
- **The timer controlled blast chilling function** by pressing  and . Set the desired time with the arrow-keys. In this case the core temperature probe is not in use.
- Remember to activate **conservation function** by pressing  (if needed)
- Start the blast chilling by pressing .

HARD BLAST CHILLING

- To select only hard blast chilling (-40°C), press  while the appliance is in Stand By mode. The hard blast chilling is not recommended for delicate products / small amounts.
- Start the hard blast chilling by pressing .

CHOCK FREEZING

- **Select the core probe controlled chock freezing function** by pressing .
- OR
- **The timer controlled chock freezing function** by pressing  and . Set the desired time with the arrow-keys. In this case the core temperature probe is not in use.
- Remember to activate **conservation function** by pressing  (if needed).
- Start the chock freezing function by pressing .



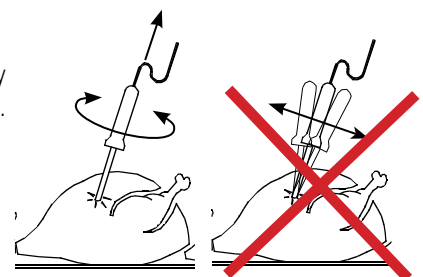
When the set temperature (blast chilling +3°C / chock freezing -20°C (factory settings)) has been reached there will be a beep and the appliance automatically switches to the conservation function if the function was selected.



The conservation function is only intended for short time storage of the products after the blast chilling / chock freezing cycle.



Extract the core probe carefully after a chock freezing cycle by gently turning and pulling straight out, never turning sideways. The probe must be cleaned thoroughly after each use.



7.4. Defrosting

During the conservation cycle the defrost function is automatic.

If several blast chilling / shock freezing programs are run sequentially, it is advisable to sequentially start manual defrost.

Defrosting starts by pressing the manual defrost button while the device is in the ON position.

8. Maintenance

8.1. Cleaning once a week

Clean the appliance interior surfaces thoroughly once a week.

For hygienic reasons and to maintain the unit's performance, it is important to carry out cleaning activities as directed.

- Start by defrosting the appliance and then turn off the appliance and disconnect the appliance from the mains.
- Clean the unit's interior surfaces as described in "Cleaning prior to commissioning."

8.2. Cleaning the condenser

The condenser should be cleaned once a week.

Turn off the appliance and disconnect it from the mains

- Remove the condenser protection grilles
- Vacuum the condenser. Use a soft brush attachment
- Refit the condenser protection grilles

8.3. Period of inactivity

Follow the instructions below if the unit remains unused for a period of time:

- Disconnect the appliance from the mains.
- Remove the plug from the wall socket.
- Empty the appliance on all food products and clean the appliance.
- Prevent musty odour from occurring by leaving the appliance door ajar to allow air to circulate in the cabinet.
- Protect the unit against dust.


9. Troubleshooting

Often, the malfunction of a unit is due to simple causes which can easily be fixed

If the cabinet does not operate, make sure that:

- The plug has been correctly inserted into the socket.
- The supply cord is not damaged.

If the required temperature is not achieved, make sure that:

- Start () is pressed
- The electronic control panel is correctly regulated.
- The cabinet isn't in the defrosting phase.
- The evaporator is not covered with frost.
- The condenser is not blocked with dust.
- The cabinet is not located near heat sources or its condensing unit has uninterrupted air flow.
- Behind the appliance and two sides there should be a space of at least 100mm.
- The stored foods or other objects do not inhibit proper closing of the unit.
- The cabinet is not working in anomalous conditions (overloaded, loaded with hot food, or loaded in a way that prevents proper air circulation).

If the cabinet leaks water, make sure that:

- The collecting container or the device for condensing water elimination are not damaged.
- The discharge outlets are not blocked or obstructed.
- The cabinet has been properly levelled.

If the cabinet is unacceptably noisy, make sure that:

- The frame does not have loose screws or bolts.
- The cabinet has been laid in a stable position and correctly levelled.

Call for service if the problem persists.

Be prepared to provide the following information when the service to be called

- model number and serial number (located on rating plate)
- any error code on the display

9.1. Unforeseen events

In case of fire

NOTE: DO NOT USE WATER

Use a CO₂ (carbon dioxide) extinguisher.

10. Spareparts

Switch off the appliance in case of failure or malfunction. Have the appliance serviced by a technically qualified person authorized by the manufacturer and using **original spare parts**.


If the unit's power supply cord or socket is damaged it should be replaced immediately by qualified professional

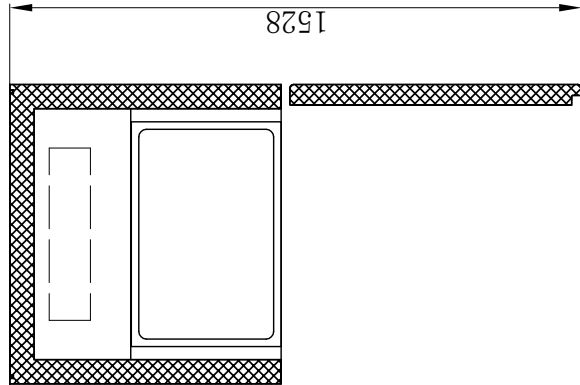
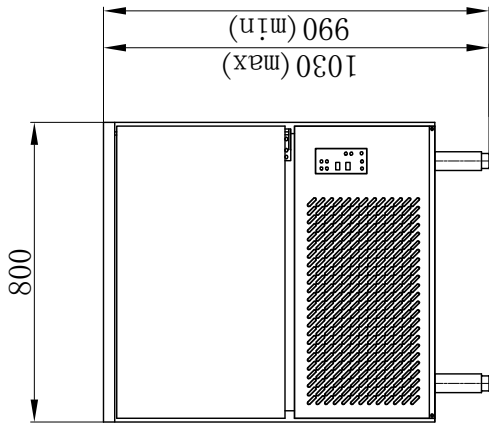
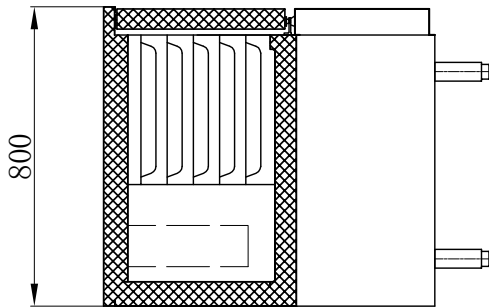
11. Decommissioning and dismantling (environmental protection)



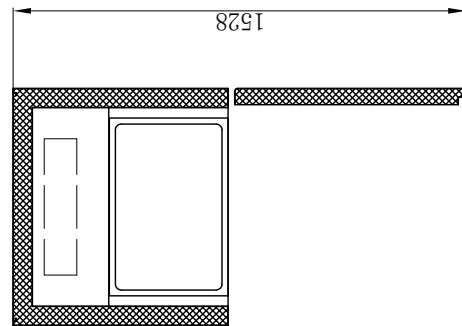
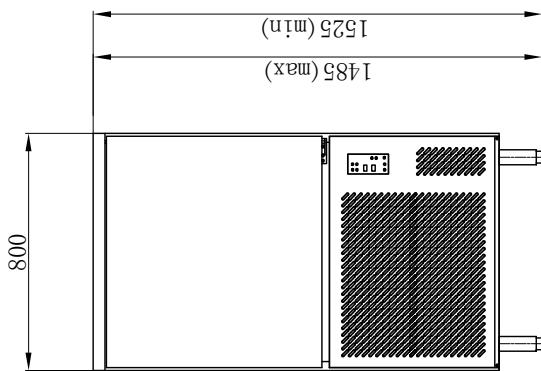
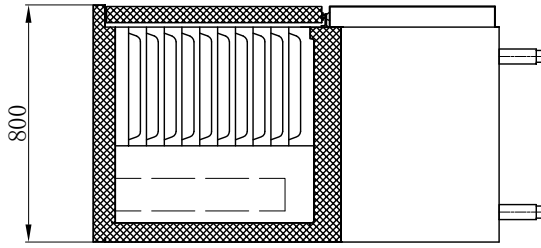
When the appliance has reached the end of its service life, it must be recycled in accordance with current regulations. Contact professionals who specialise in recycling.

12. Warnings

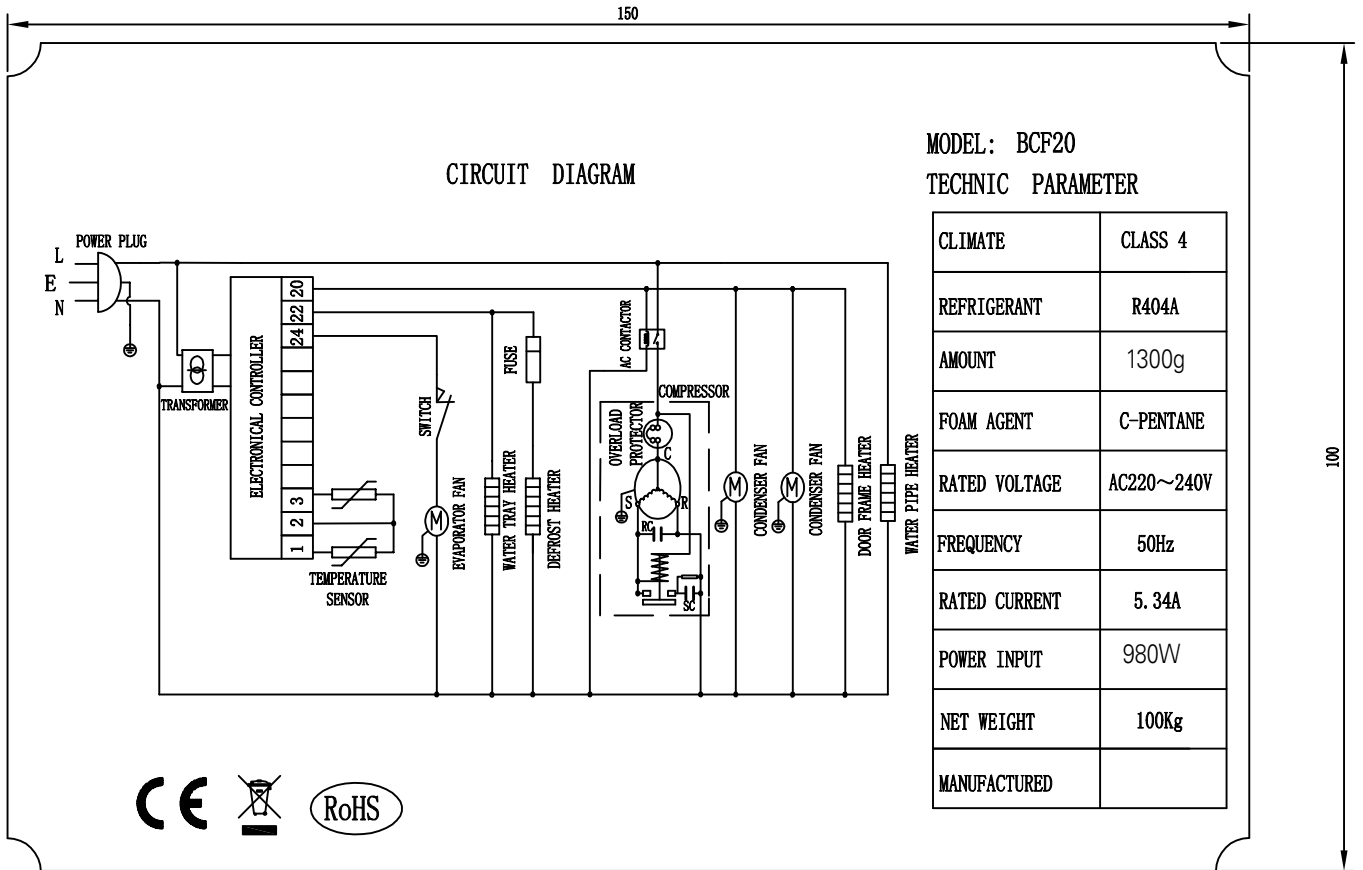
- To avoid accidents, the appliance should be used as directed
- The unit's motor compartment is equipped with warning labels that must not be removed or covered
- It is forbidden to place the device in the vicinity of open flames.
- Place on a flat surface for error-free operation. If necessary, adjust the unit with the help of the adjustable feet so it stands straight.
- The unit should always be connected to a grounded outlet
- Connect the metal structure of the appliance to the equipotential node. Connect the conductor to the terminal with the symbol .
- Do not use electrical appliances inside the food storage compartments of the appliance.
- Do not store foodstuff more than 20kg per GN pan.
- If the unit's power supply cord or socket is damaged it should be replaced immediately by qualified professional.



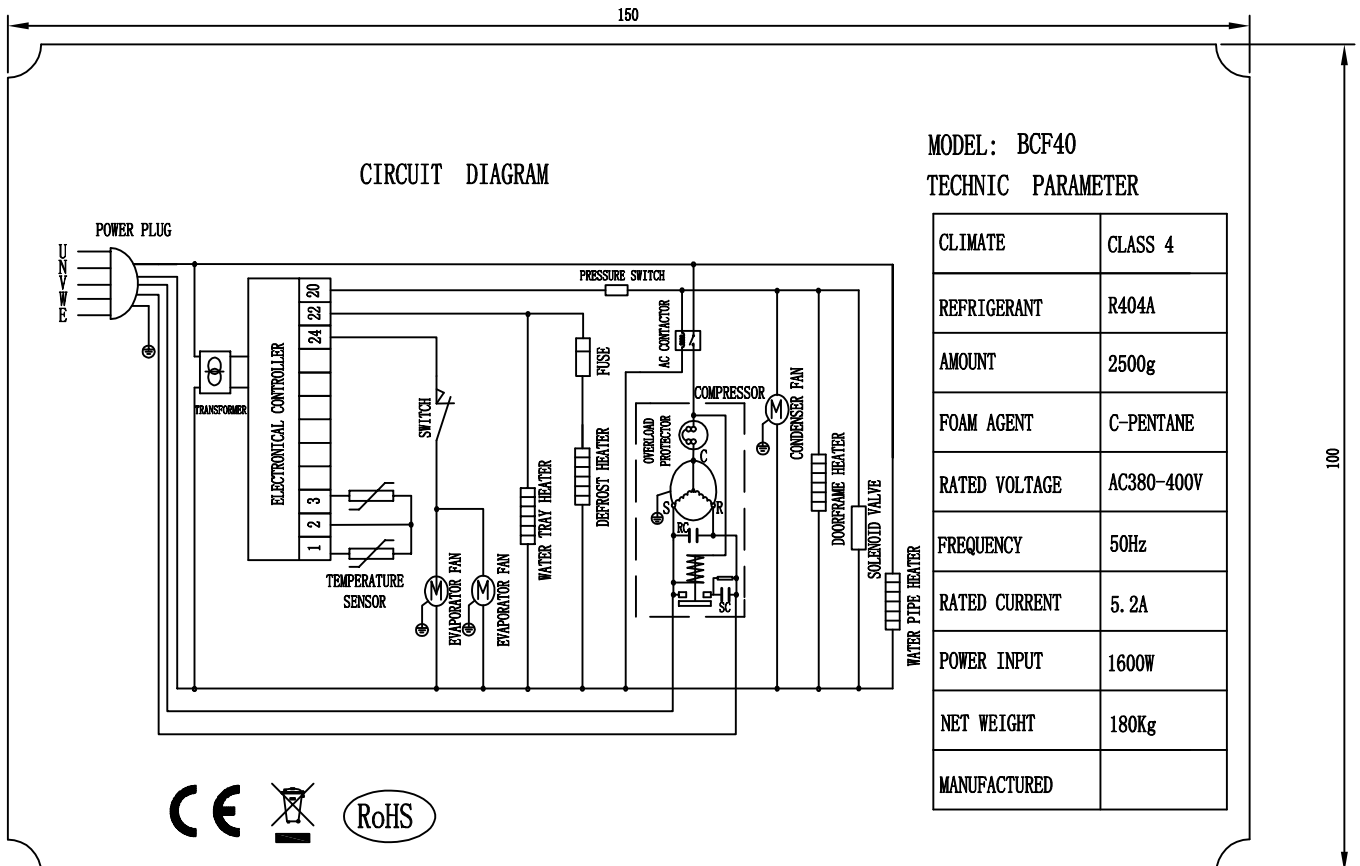
General Features	
1) Model	BGF20
2) Compressor:HP	1HP
3) Refrigerant	R404a
4) Thermostat model	Digital Type
5) Voltage Supply	230V/50Hz/1PHASE
6) Capacity	100L
7) Operating Temperature	+90°C ~ -18°C in 240 mins +90°C ~ +3°C in 90 mins
8) Exterior Dimensions	800×800×1000
9) Body	Exterior and interior:304



General Features	
1) Model	BCF40
2) Compressor: HP	3HP
3) Refrigerant	R404a
4) Thermostat model	Digital Type
5) Voltage Supply	400V/50Hz/3PHASE
6) Capacity	150L
7) Operating Temperature	+90°C ~ -18°C in 240 mins +90°C ~ +3°C in 90 mins
8) Exterior Dimensions	800×800×(1485/1525)
9) Body	Exterior and interior: 304



BCF20



BCF40

XINGXING

VAATIMUSTENMUKAISUUSVAKUUTUS
FÖRSÄKRAN OM ÖVERENSSTÄMMELSE
DECLARATION OF CONFORMITY

(Business ID:4406012004384)

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

Blast chiller & freezer, 220-240V/50Hz BCF20, 380V/50Hz BCF40

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+A14
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 nämnda person är bemyndigad att sammanställa den tekniska dokumentfilen / The person mentioned below is authorized to compile the technical file

Wei Tang

Antopaikka ja päivä / Utfärdad på ort och datum / Place and date of issue

Foshan,China Sep 2nd, 2014

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

Director of Quality Control Department

Wei Tang



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