

ggmgastro

VERTICAL TYPE COOLING UNITS USE AND MAINTENANCE MANUAL





Dear Customer,

This product is manufactured in environmentally friendly modern facilities and has environmentally friendly technologies.

Asbestos, formaldehyde, cadmium and CFC free materials and PCB, PCT free compressor oil were used throughout the production period of the product. The gas used in your device is, R290 and R452a. These gases comply with the KYOTO protocol.

The logo for 'ggmgastro' is displayed on a dark grey rectangular background. The letters 'ggm' are in a bold, red, lowercase sans-serif font, while 'gastro' is in a bold, white, lowercase sans-serif font.

The device is manufactured for industrial use and should not be used outside of its purpose. Our company is not responsible for any malfunctions arising from improper use and the product is not covered by the warranty.

It is entirely the responsibility of the consumer to take measures related to the food in the product in case of any malfunction in the product or due to usage error.

TABLE OF CONTENTS

1.	GENERAL INFORMATION	1
1.1.	Explanations of Symbols	1
1.2.	General Information Regarding the User Manual	2
1.3.	Liabilities and Guarantees	2
1.4.	Copyright Protection	3
2.	PRODUCT INFORMATION	3
2.1.	Product Label.....	3
2.2.	Product Description	3
3.	SAFETY	3
4.	TRANSPORTATION, PACKAGING AND STORAGE	5
4.1.	Delivery Control.....	5
4.2.	Packaging.....	5
4.3.	Storage	5
5.	INSTALLATION	6
5.1.	What to do Before Installation	6
5.2.	Selecting the Installation Location.....	8
5.3.	Maximum Loading Amount.....	10
5.4.	Electrical Connection.....	10
6.	OPERATING	11
6.1.	Using Digital Thermostat (EVCO EVJ204).....	12
6.2.	Digital Thermostat Alarms	17
6.3.	Digital Thermostat Errors	18
7.	TURNING OFF THE APPLIANCE	19
8.	PROBLEMS	19
9.	CLEANING.....	20
9.1.	Disposal	22
10.	TECHNICAL INFORMATION	23
11.	ELECTRIC SCHEME	24

1. GENERAL INFORMATION

1.1. Explanations of Symbols

In this manual, the following symbols are used to emphasize important safety instructions and recommendations for the product. The instructions should be carefully followed to avoid the risk of accidents, injuries and property damage.



PLEASE READ THE USER'S GUIDE!

Read these instructions before using the product and always keep it.



WARNING!

This symbol emphasizes the hazards that can cause injuries. Please carefully follow the instructions and pay particular attention to such situations.



WARNING ELECTRICAL HAZARD!

This symbol draws attention to possible electrical hazards. Failure to follow the safety instructions may result in injury or death.



NOTE!

This symbol emphasizes the tips and information to consider for efficient and trouble-free operation of the appliance.



CAUTION!

This symbol highlights instructions that must be followed to avoid risk of damage, errors and/or failure of the appliance.



GROUNDING

This symbol indicates that grounding is necessary and that it is compulsory under the law.



WASTE DISPOSAL

This symbol indicates that the product will not be considered as normal domestic waste. It emphasizes that waste disposal should be carried out.

1.2. General Information Regarding the User Manual

This user's guide contains information on installation, operation and maintenance of the appliance. It serves as an important information and reference guide.

In addition to the information provided here, you will need to act in accordance with current safety regulations for local health and safety controls. Knowing the safety and operating instructions in this manual will ensure that the appliance is used safely and correctly.

The installation manual is considered a part of the product and should be stored near the device so that it is accessible to anyone who will perform installation, service, maintenance or cleaning.

1.3. Liabilities and Guarantees

A new product is covered by a **12 month warranty** . All information and instructions in this manual take into consideration the standard safety regulations and up-to-date standard technical engineering levels, as well as the expertise and experience we have developed over the years.

If the supplied product is a special model, the actual scope of delivery may differ from the description and drawings in this manual. This also applies in the case of special orders or when the appliance is modified to be compatible with new technologies. You can access the production and technical information of the appliance you are using by informing our company of the serial number on the product label.

The manufacturer accepts no liability for any damage or malfunction that has occurred in the following circumstances and the product warranty will be void.

- Intentional damage, damage due to carelessness
- Not carrying out the applications specified in this guide
- Intervention by unauthorized persons
- Usage for unintended purposes
- Changes made by the user
- Use of non-original spare parts

1.4. Copyright Protection

The user's guide, including any text, drawings, images and other illustrations contained therein, is under copyright protection. No part of this publication may be reproduced, transmitted, or used in any form or by any means without the written permission of the manufacturer. Anyone involved in an unauthorized process involving this publication will be subjected to a claim for compensation. All Rights Reserved.

2. PRODUCT INFORMATION

2.1. Product Label

- Find the label on the product to read technical specifications.
- Check the appliance model and the power supply voltage before taking any action.
- The product is designed to operate in Climate Class 4 (30 C, 55%) and 5 (40 C, 40%).

Please contact the manufacturer or the supplier of the appliance if you encounter an inconvenient situation.

MODEL		REFRIGERANT LIQUID / MASS	
SERIAL NUMBER		RATED VOLTAGE	
PROTECTION CLASS		CURRENT	
CLASS		POWER	
COMPRESSOR		STORAGE VOLUME	

2.2. Product Description

The appliance consists of the following basic sections and systems:

- Ventilated cooling system,
- Electrical system and parts,
- Electronic digital thermostat,
- Body insulated with environment friendly polyurethane material,
- Heating coil or hot gas defrosting system.

3. SAFETY

The products mentioned in this guide were designed and controlled according to national and international safety standards. The following rules should be followed for the safe use of the appliance.

- Never let the power cord to come into contact with heat sources or sharp surfaces.
- The power cable should not hang over the side of the working surface.
- Ensure that no one can step on or trip over the cable.
- The power cable must not be folded, bent or tangled, and must always remain fully unrolled.
- Never place the appliance or other objects on the power cable.
- Do not use the appliance if it does not function properly, is damaged or falls.
- Do not use any spare parts and accessories that are not recommended by the manufacturer. Otherwise, it may endanger the user or cause appliance damage or injuries. In this case, the warranty of your appliance will be void.
- Do not move or lift the appliance while it is operating.
- Do not place any objects on the appliance.
- Never touch the plug with wet or damp hands.

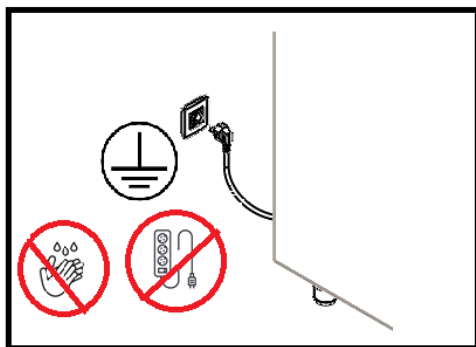


figure 1

- Do not operate the appliance with wet hands or standing on a wet surface.
- Put the packaging material in a place that is absolutely inaccessible to children. Packaging materials (nylon, styrofoam, etc.) may pose danger to children.
- Do not damage the parts of the refrigeration cycle.
- Explosive materials such as aerosol cans with flammable propellant should not be stored in this product.
- In the event of a sudden power cut, unplug your appliance. To operate the appliance again, plug it back 20 minutes after the electricity is back. The

high voltage that occurs when the electricity is first back may damage the product and cause fire.



WARNING!

Flammable gases such as R290A and R600A are used in this product. In the event of a fire resulting from any gas leakage or malfunction, disconnect the plug from the outlet or disconnect the appliance from the mains before attempting fire fighting.



CAUTION!

The installation, maintenance, and modifications of the machine should be performed by the authorized service.

4. TRANSPORTATION, PACKAGING AND STORAGE

4.1. Delivery Control

Please check right after the delivery if the product is complete and there is any damage due to transportation. Do not accept the delivery, or accept it conditionally if there are missing pieces or visible damage. Note down the scope of the damage on the delivery receipt of the courier. File the complaint. Damage records can only be registered within a certain period of time, thus a request should be made as soon as unseen damages are noticed.

4.2. Packaging

The inner and outer packaging of the appliance must be removed completely before installation.



NOTE!

Please observe the regulations in your country if you wish to dispose of the packaging. Recycle the usable packaging.

4.3. Storage

Do not unpack your product until the installation. Observe the positioning and storage marks located on the outside of the package. Packages must be stored under the following conditions.

- Do not keep it outdoors.
- Ensure that it stays dry and dust free.

- Avoid exposure to harsh conditions.
- Avoid exposure to direct sunlight.
- Keep away from mechanical shocks and vibrations.
- If it is necessary to store the product for at least 3 months, check the condition of the packaging and parts regularly.

5. INSTALLATION

5.1. What to do Before Installation

The following must be observed before using and installing the product.

- Your product is set to 220 - 240 Volt 50 Hz city electricity. Using different voltages may make your cooler unusable and cause a fire.
- The product you have purchased is designed to contain only chilled or frozen products. Please do not use for other purposes.
- Your product has no sterilization effect on microorganisms. For this reason, the food you put on your product must be in accordance with the hygiene requirements. Otherwise, microorganisms that breed in food can threaten your health.



WARNING ELECTRICAL HAZARD!

The power line to which the appliance is to be connected must have proper grounding. The manufacturer accepts no liability for any damage to the appliance caused by operation without or insufficient grounding.

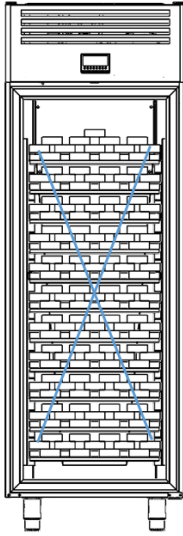


figure 2

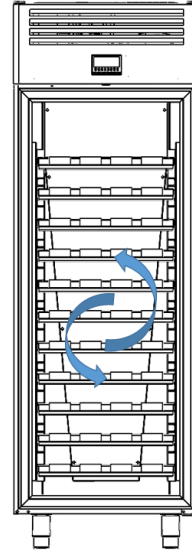


figure 3



CAUTION!

Do not overfill the shelves. The height of the materials you place on the shelves must not exceed half the distance between the two shelves to ensure air flow.

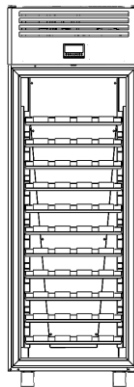


figure 4



Do not put hot materials into your product. Do not use your product to warm frozen foods.

5.2. Selecting the Installation Location

The environment in which the appliance will operate in is very important for the product to operate properly. Before you install the product, pay attention to the following items.

- Do not position your product in a way that exposes your product to open air.
- In order to ensure proper chilling do not close or block the air inlets.
- Place your product away from sources that dissipate or may dissipate heat.
- Place your product away from intense air currents.
- Do not place your product under direct sunlight or near heat sources such as: heater, radiator, oven, stove, radiant and infrared. Otherwise, this may cause your product to perform poorly, be damaged and become unusable.
- Do not place your product on an inclined surface in order to avoid any falling and tipping problems.

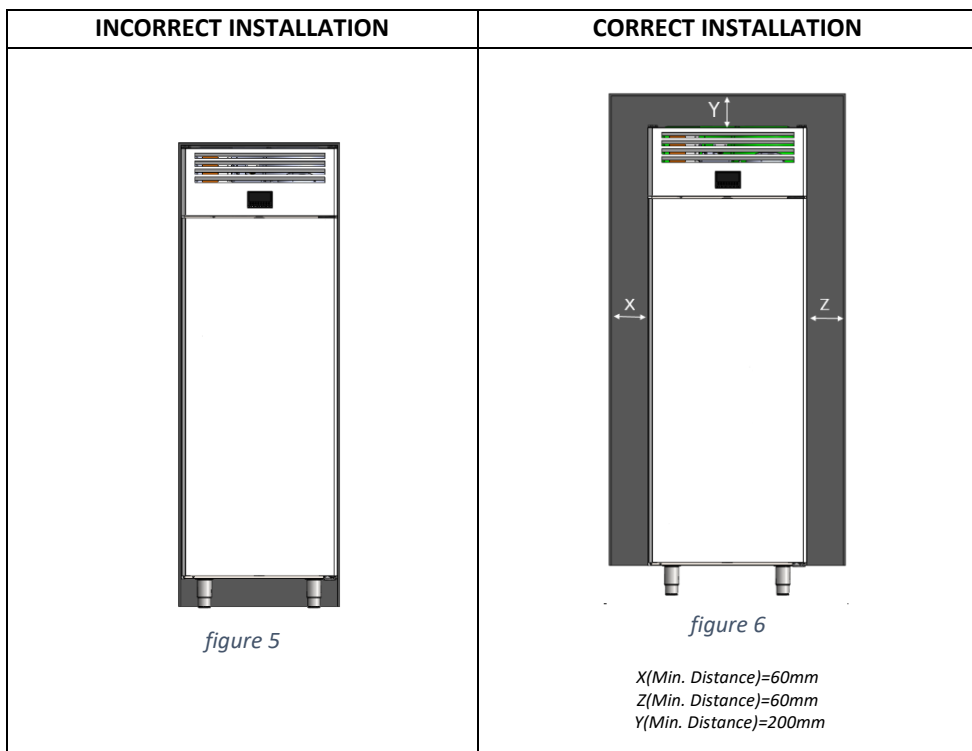




figure 7

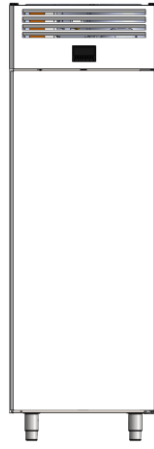


figure 8

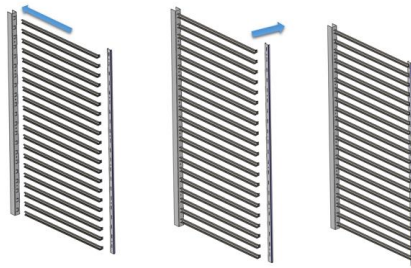


figure 9

Rack cradle mounting

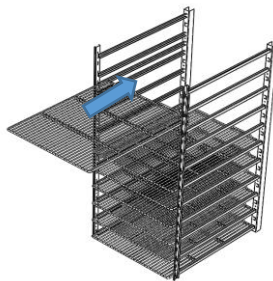


figure 10

Rack mounting style

5.3. Maximum Loading Amount



Risk of damage due to overloading
If you exceed the maximum loading amount, the unit may be damaged.
Fill the device up to the maximum load amount specified here.

MODEL	Total Maximum Loading Amount (Lt)	Maximum Load Per Shelf(kg)
ETKSC792D- ETKSC792DN	16,5x36x12 48 piece	30 kg



figure 11



Maximum load should be placed on the device shelf up to the label level shown in Figure 11, otherwise the cabinet efficiency will decrease.

5.4. Electrical Connection

To carry out the electrical connection of the product, unpack the all packaged parts, and then place the product where you want, taking into account the recommendations for the installation place in the user manual. Your product will work when you plug it into a suitable outlet.



CAUTION!

- Compare the local power transmission network specification and product label before connecting the product electrically.
- The manufacturer and the vendor shall not bear any responsibility if a high-voltage fuse (IN - 16 A ID - 30 ma) is connected to the power line.

- The outlet of your socket must be at least 16 A and grounded.
- The device must only be plugged into a properly installed single outlet with protective contact. Do not use any extension cords or multiple plugs. Do not unplug the power cord by pulling on the cable. Always hold the plug itself.
- The plug-in cable laying in places where people tend to walk around may cause injuries or damage to your product. Place the product accordingly.

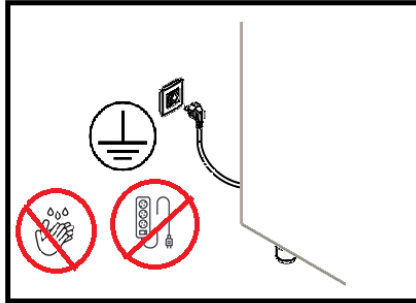


figure 12

6. OPERATING

Before operating the product, clean the product in accordance with the cleaning instructions. The internal temperature of your product is adjusted in our factory so that it does not spoil your food and protect your food. You can control the internal temperature of the product from the digital thermostat display on the control panel. You can set the desired temperature again with this thermostat.

NOTE!



If you operate your product at the factory set temperature, you will get the best results in terms of both performance and energy consumption.

NOTE!



Run the appliance for at least 2 hours before use. Thus, homogeneous temperature distribution is ensured throughout the device.

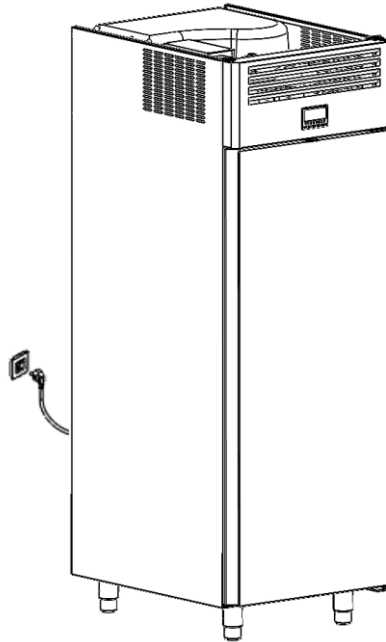


figure 13

6.1. Using Digital Thermostat (EVCO EVJ204)



figure 14



WARNING ELECTRICAL HAZARD!

In case of improper installation and electrical connection, the appliance may cause injuries.

6.1.1. Controller For Cooling Units

Front of the thermostat

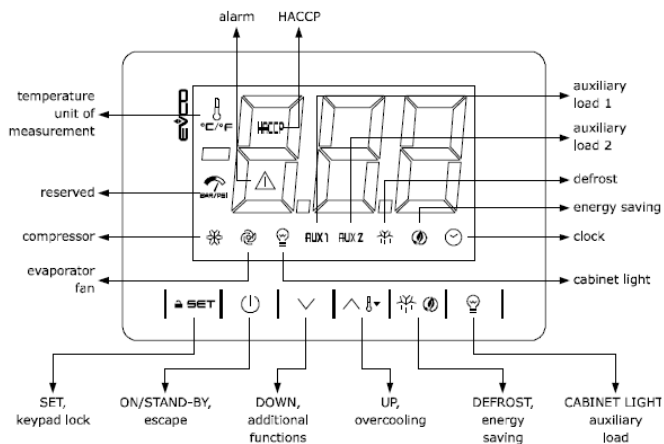


figure 15

Opening the keypad («Loc» on the screen)

- Press any button other than the power button for more than 2 seconds. “UnL” will appear on the screen. You can use the keys.




Note: For security reasons, if the keys are not pressed for 30 seconds, the device will automatically switch to the key lock. To take any action, first unlock the key.

WARNING!



For digital password information or password change operations, you must contact the technical service team.

Seeing and changing the set value




- Press the **SET** button once quickly and remove your hand. The set value is seen on the screen and  led flashes.
- To change the value, use the  or  buttons to set it to the required value within 20 seconds.
- Press the **SET** button again or wait 20 seconds without pressing any

button.

Note: The set value can be changed between the values assigned by r1 and r2 parameters. Please contact technical service for detailed information.




6.1.1.1. Starting Manuel Defrost

To manually start this loop:

- Press and hold the DEFROST button   for 3 seconds.
- The defrost cycle will be activated immediately and the  led will turn on. By default, this defrost will take 20 minutes.

Note: Manual defrost, if the temperature sensed by the evaporator sensor is higher than the value set in d2 (factory setting 2°C), defrosting will not start. Please read the manual for more detailed information.



6.1.1.2. Displaying The Temperature Detected By The Evaporator Sensor

- First of all, make sure that the device is not in standby mode and that the key lock is on.
- Press and hold the  button for 4 seconds
- Press the  and  button to scroll to the value labelled "Pb2"
- Press the SET button and remove your hand.
- Return to normal operating system by waiting 60 seconds without touching any key.

Note: If the evaporator sensor is not installed, the label "Pb2" will not appear.








6.1.1.3. The Explanation Of The Sign On The Screen


Turning The Device On And Off




- You can switch the device to standby mode by pressing and the  button for 4 seconds.
- As long as you keep the button pressed, the  led flashes to indicate that the operation will be done.



THE DEVICE IS OFF ONLY IF THE RED  LED IS LITTING ON THE BOTTOM RIGHT

CORNER, WITHOUT ANY WRITTEN ON THE SCREEN (NOT A GREEN LEAF WILL BE SHOWN IN THE CENTER). Please activate the device before your operations.

	It is used to change the set temperature and access the digital thermostat parameters.
	Used to switch the device on or off. You can turn the device on and off by pressing and holding this key for 4 seconds.
	Used to navigate between the parameters.
	It is used to navigate between the parameters and run manual defrost operation.
	Compressor Light If the light is on, the compressor is running. If the light is flashing, the compressor will be activated or the set temperature value is changed.
	Defrost Light If the light is on, the defrost cycle has started. If the light is flashing, the drip cycle will start.
	Evaporator Fan Light If the light is on, the evaporator fan is running. If the light is flashing, the evaporator fan is in stand-by mode.

<p>AUX</p>	<p>External Input If the light is on, the interior light will operate in manual mode. If the light is flashing, the cabinet light will operate depending on the door switch input.</p>
<p>°C</p>	<p>Celcius Degree Light If the light is on, Celcius is used as the temperature measurement unit.</p>
<p>°F</p>	<p>Fahrenheit Degree Light If the light is on, Fahrenheit is used as the temperature measurement unit.</p>
<p></p>	<p>On / Stand By Light If the light is on, the device is turned off. (It is on stand by.)</p>

LEDS	EXPLANATION
<p></p>	<p>Compressor led; When it is lit, it means that the ignition is on. While flashing, it means that the set value is being changed or the contact is getting ready to be activated.</p>
<p></p>	<p>Defrost Led; When it is lit, it means that the defrost is active.</p>
<p></p>	<p>Evaporatör Fan Led; When it is lit, it means that the evaporator fan is active.</p>
<p>°C</p>	<p>Celicus degree Led; When it is lit, the measurement is in degrees Celsius.</p>

	Fahrenheit degree Led; When it is lit, the measurement is in degrees Fahrenheit.
	“STAND-BY” On/Off led. If it is lit, the device is turned off.

6.2. Digital Thermostat Alarms

Alarm Code	Alarm Description	Solution	Result
AL	Minimum temperature alarm	-Check the room temperature. -Check the cabinet probe -Check the evap probe	-Call authorized service
AH	Maximum temperature alarm	-Check the room temperature. -Check the cabinet probe -Check the evap probe	-Call authorized service
id	Door switch alarm	-Control the door switch -Make sure the door is fully closed	-Cooling is suspended for a certain period of time.
iA	Multi-function input alarm or pressure switch alarm	-Check the reasons for login activation. (i5 and i6 Parameter)	-Check i0 parameter.
COH	Condenser overheat alarm	-Check the condenser temperature -Clean the condenser.	-The device will continue to operate normally.

CSd	Compressor shutdown alarm	-Check the condenser temperature. -Turn off the device and turn it on again. -Clean the condenser.	-The compressor will turn off.
dFd	Defrost alarm turned off because the maximum time has been reached	-Check the evaporator sensor. -Press any key to remove the text.	-The device will continue to operate normally.

When the causes of the alarms disappear, the alarm icon disappears from the screen. It is only necessary to turn the device on or off or disconnect the network to clear the alarm code “CSd”. For the “dFd” alarm code, it will be sufficient to touch any key on the screen.

6.3. Digital Thermostat Errors

Error Code	Error Description	Solution	Result
Pr1	Room temperature probe error	-Check whether the probe is PTC or NTC type. (P0 parameter) -Check probe connection. -Check the room temperature.	-Compressor efficiency will depend on parameters C4 and C5. -Defrost will not be activated.
Pr2	Evaporator probe error	-Check if the evaporator probe is PTC or NTC type. (P0 Parameter) -Check probe connection. -Check the evaporator temperature.	-Defrost end process will end according to time. - The pr2 error will always appear on the screen.

When the cause of the error is lost, the device continues to operate normally.

7. TURNING OFF THE APPLIANCE

To turn the cooler off, the following operations must be performed:

- 1- Switch off the device from the digital thermostat.
- 2- Unplug the power plug.

8. PROBLEMS

Problem	Probable Cause	Solution
<u>No power.</u>	-Main power supply is closed. -No voltage. -Other	-Switch on the main switch. -Check outlet, cable and electrical connections. -Call the authorized service.
<u>The chiller works continuously but cannot reach the desired temperature.</u>	-External environment is too warm -Condenser is dirty. -Fan is broken. -Evaporator is frozen. -Digital thermostat is not working. -Heat detection probe is defective.	-Provide air circulation. -Clean the condenser. -Check the fans. - Run manual defrost. -Check the door seal. -Call authorized service.
<u>The product makes too much sound while working.</u>	-Product not placed properly. -Loose screw or bolt -Other	-Place the chiller on a flat surface. -Visually check the chilling component. -Call authorized service.
<u>Ice / moisture inside the appliance</u>	-Environment is too humid -The door was opened very often and / or had stayed open too long. -Damaged door seal	-Check the door seal. -Call authorized service.

<p><u>Very high energy consumption</u></p>	<p>-Environment is too hot -The door was opened very often and / or had stayed open too long. -Damaged door seal -Temperature setpoint is too low. -Too many product inside cupboard -The product is placed close to direct sunlight or heat dissipating surfaces. -Factory settings are changed.</p>	<p>-Check the door seal. -Call authorized service.</p>
--	---	---

9. CLEANING

The cleaning of the appliance should be divided into two parts as internal and external. Be sure to follow the instructions below before cleaning.

The appliance:

- For stainless steel parts: Use only warm water and non-aggressive detergents. Dry with a soft cloth.
- For polycarbonate and acrylic parts: Wash with warm water using a soft cloth or chamois cloth. Do not use abrasive cloths or sponges.
- For glass parts: Use specially manufactured products for glass cleaning. It is not recommended to use tap water which will cause calcium accumulation on the surface of the glass.
- Remove the product stored in the cooler compartment of the appliance and place it in the housing of a special refrigerator to ensure proper storage.
- Disconnect the appliance from the electrical outlet.
- Remove all equipment that can be removed manually.
- Wait 4 to 6 hours until the ice on the evaporator melts before starting cleaning. To accelerate the defrosting process, do not follow any process other than the one recommended by the manufacturer.
- Clean the side panels and the bottom of the pool with a mild detergent, warm water and a cloth or sponge. Do not use sharp tools. Rinse thoroughly and dry with an absorbent cloth.
- Connect the removed accessories.

- Switch on the appliance and wait until the temperature of the device has reached the desired temperature before returning the products to be stored.

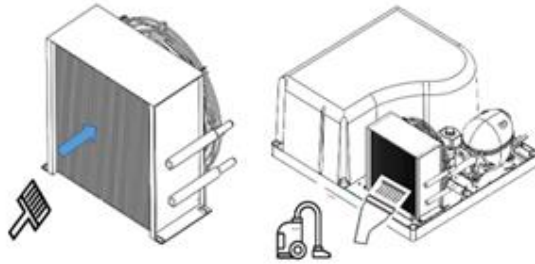


figure 16



NOTE!

- To clean the condenser, first unplug the appliance. Clean the dust on the condenser with proper cleaning fluids for condenser cleaning.
- It will directly affect the performance of the device.
- It is recommended to do condenser cleaning every 6 months.



CAUTION!

- When cleaning, do not scrape the ice on the device with sharp tools. You can damage the surface.
- Do not use a water jet or steam hose as this may cause a short circuit in the electrical system.



CAUTION!

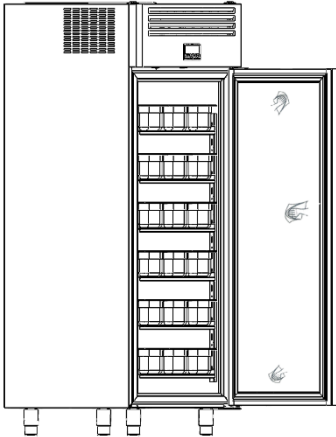


figure 17

In order for the gasket to be used for a long time, it must be cleaned with hot water at regular intervals (every 2 months).

9.1. Disposal



At the end of the period of use, the appliance to be disposed of must be done so in accordance with the national regulations. It is recommended to consult with a company specialized in waste disposal or to communicate with local disposal services.



WARNING!

To prevent misuse and danger, bring the waste equipment out of service before disposal. For this purpose, disconnect the device from the mains supply and disconnect the mains connection cable.

10. TECHNICAL INFORMATION

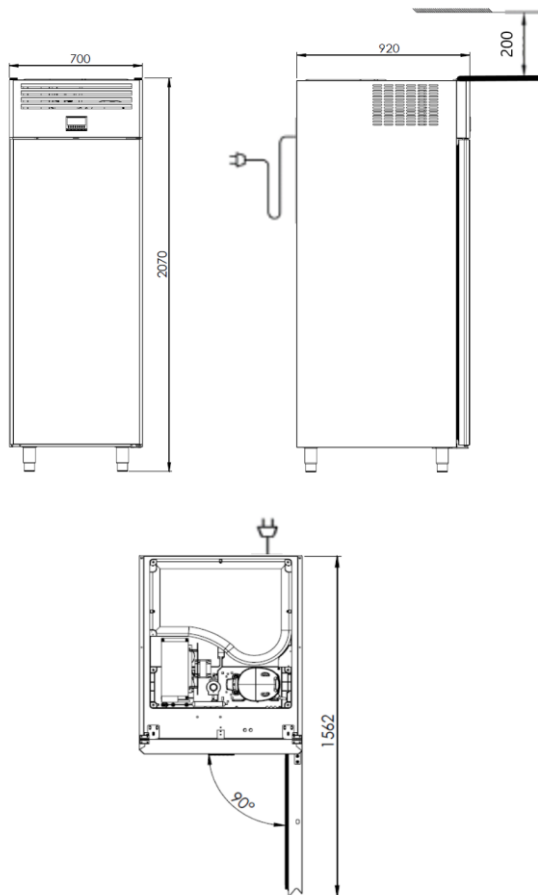


figure 18

Model	inner Temperature (°C)	Capacity (Lt)	Climate Class	Voltage (V/Hz)	Power (w)	Dimensions (mm)	Packaging Dimensions (mm)
ETKSC792 D(R452a)	-12/-24	16,5x36x12 48 piece	4	220-230/50	850 W	700x920x2070	750x960x2160
ETKSC792 DN(R290)	-12/-24	16,5x36x12 48 piece	4	220-230/50	640 W	700x920x2070	750x960x2160

11. ELECTRIC SCHEME

