

INSTRUCTION FOR USE AND MAINTENANCE

COOLING BOXES



Gastro.CZ

PRODUCTION

Instructions for use and maintenance

In compliance with European Directives

CE

The manufacturer assumes no responsibility for any modifications or technical changes in content or data contained in this user guide. This user guide applies to all cooling equipment supplied by Gastro Production Ltd.

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1. Introduction

1.1 Orientation in the user guide

This user guide has been designed so that the users can easily and quickly find the information necessary to manage the operation and maintenance of cooling equipment. The users should read the entire user guide with utmost attention and make sure they have perfectly understood all information contained in it. The user guide also serves for subsequent reference when needed. For this reason this user guide must be always available to the person operating the equipment. Searching this user guide is facilitated by the general table of contents, which allows immediately finding a specific location, and also by table of contents at the head of each section. In addition, next to some paragraphs, there are signs inserted to emphasize the importance of the information contained in those paragraphs, **which should be read with special attention.**

1.2 Explanation of symbols used in the user guide



Warning - Danger of electrical injury - refers to parts, where there is a danger of electrical injury. Read especially carefully.



Warning - Rotating parts - refers to parts, where there is a danger from rotating parts.



Warning – Risk of injury - refers to parts, where there is a risk of injury while touching the equipment in operation. Read especially carefully.



Warning - Important - refers to parts, where danger might occur, or to parts otherwise important. Read especially carefully.



Do not wash with pressurized water – it is forbidden to wash a part so indicated with pressurized water for risk of damaging the equipment.



Forbidden handling procedures – refers to parts, where there is a risk of damaging the equipment by handling it in a forbidden way.

2. Common Provisions

2.1 Transport and Unpacking

2.1.1 Transport

The client is obliged to check for the completeness and integrity of the packaging in which the equipment is transported, and seek compensation for potential damages caused during transport from the carrier in question. The equipment should be, if possible, transported onto the location designated for its operation in its original packaging.

2.1.2 Unpacking

After transporting the equipment on the location designated for its operation, remove all packaging.



Next remove all protective wrappings from outside and inside of the equipment. The consumer is obliged to dispose of all packaging in accordance with regulations valid in their respective countries!

2.1.3 Dismantling and Disposal

At the end of its service life, the equipment must be disposed of in accordance with regulations valid in the respective countries.

The equipment contains the following materials:

- | | |
|--|--|
| · Stainless steel | · Nylon |
| · Nonferrous metals - Aluminium,
Copper | · Polyethylene |
| · Glass | · Lubricating oil |
| · PVC | · Coolant gas |
| · Methacrylate (PMMA) | · Polyurethane |
| · Polystyrol (PS) | · Electric motors |
| · ABS | · Power supply cable,
wiring material |
| · Moplen | |

2.2 Test protocols, Warranty Conditions

2.2.1 Testing

All equipment is factory tested in accordance with applicable laws, technical standards and government regulations. For all equipment, a test report documenting the tests performed is drawn up and kept at the factory. The equipment is sent to the customer completely ready for use. An exception is equipment placed in a more complex dispensing lines and assembled on-site.

2.2.2 Warranty Conditions:



Equipment warranty is provided, if the equipment is used for purposes for which it is intended. The operation of equipment is always performed according to this user guide. The operators of the equipment are thoroughly and demonstrably trained in its operation and this user guide is available to them. The user guide must be at all time available to the operators!

2.2.3 Cases in which the warranty becomes void



- **In case of damage during transport, as the products are delivered from the factory and the buyer assumes the risks during transport, the seller is not responsible for missing or damaged parts. The buyer is therefore obliged to inspect and examine the goods upon receipt and to make claims for damages with the transport company.**
- **In case of defects caused by user negligence.**
- **In case of non-compliance with the instructions contained in this technical manual - incorrect operation, maintenance, and cleaning of the equipment.**

- In case of failure to provide the invoice or alteration of the invoice details.
- In case of damage caused by disassembly of the product, modification, or alteration of mechanical and electrical structures without permission.
- In case of damage not caused by humans, such as damage caused by abnormal voltage, fire, building collapse, lightning, floods, and other natural disasters, and damage caused by rats and other pests.

2.3 Safety

2.3.1 Safety - electric current

The device is factory-fitted with a connecting cord for conducting the electric current, terminating in a non-detachable plug. This plug can be plugged into an outlet with voltage system 1, N, PE ~ 230V, 50Hz (an EURO socket with protective pin, a SHUKO socket with protective contacts).



Only qualified electricians are allowed to exchange the plug. The wiring of the equipment can be handled only by persons possessing electrotechnical qualification and only after the manufacturer's approval. Interfering with the wiring is dangerous to life and may cause electric injury!



It is forbidden to touch the power supply cord plug, the control panel and other electrical components with moist or wet hands, or to wash them with pressurized water. There is a danger of electric injury!



Before carrying out maintenance work, it is necessary to pull the power supply cord plug and to make sure no electric current is flowing through the equipment (e.g. by turning on the main power switch and observing if the equipment remains powered off). If the equipment is connected permanently to the mains, it is necessary to turn off the corresponding circuit breaker, make sure the equipment is not functioning and secure the deactivated circuit breaker, e.g. by putting an “equipment under maintenance” sign on it.

2.3.2 Safety - mechanics

While operating the equipment, special caution is necessary during following operations:

- When opening or closing the doors of cooling or freezing tables. The doors are spring loaded and parts of limbs may become caught in them.
- When opening the blinds covering the condenser. When acting carelessly, there is a danger of cutting oneself at the condenser lamellas.



- When handling the sliding glass doors of display cabinets, which, in order to ensure proper insulation, have a considerable weight. Rough handling may lead to their breaking up or falling out, possibly resulting in injury.
- When tilting the covering glass panels of display cabinets for maintenance. They have a considerable weight and may cause injury when falling out.
- When handling the glass shelves for displayed goods, an increased caution is necessary.
- When handling the drawers of cooling tables, especially when they are filled with glass beverage vessels. Full drawers have a considerable weight.
- Rough handling may cause the drawers to fall out of their slides, possibly resulting in injury.
-



- During the operation of the cooling unit, do not put your fingers or other objects through the condenser fan covers, the evaporator fan covers, or other fan covers. There is a risk of limb injury from rotating fan blades.

2.3.3 Safety – leaking substances

The coolant used does not pose any health risks.

2.3.4 Safety – thermal effects



- During the operation of the cooling unit, the compressor body and the pipe ducts can reach considerably high temperatures – touching them may cause burns to the limbs.
- During the operation of the equipment, the condensate liquid evaporates from the evaporator tank. The tank and the heating bodies reach considerably high temperatures – touching them may cause burns to the limbs.

2.3.5 Safety – The refrigerants R290 and R600



We do not recommend handling the refrigerants R290 and R600 used in our cooling products. Any work involving these refrigerants should only be carried out by individuals with the necessary knowledge and qualifications. R290 is pure propane, and R600 is pure isobutane. These substances are highly flammable.

2.3.6 Proper use of Equipment



- The equipment is designed for normal use by an adult.
- It is not designed for rough handling or operation by children! The operators of the equipment must be thoroughly and demonstrably trained in its operation and a user guide must be available to them.
- The equipment must be operated in accordance with the instructions for use. The equipment can be used only for purposes for which it is intended.
- Do not place the equipment next to heat sources or on places directly illuminated by sunlight.
- Before filling the equipment with goods, let it cool to the target temperature first.
- Do not place any hot or warm dishes into the refrigerated space.
- Do not place any acidic foods into the refrigerated space, as this may cause damage to the evaporator.
- Keep the refrigerated space clean.
- Do not leave the doors to the refrigerated space open – this reduces the equipment performance and lifetime.
- Regularly check the equipment and perform maintenance work according to this guide.

A – COOLING BOXES

2.4 Ambient Conditions

The equipment is able to operate properly under these conditions:

- Altitude up to 1000m above sea level
- Ambient temperature near the equipment in the range from 15°C to 25°C
- Relative humidity max. 60%
- The equipment is not placed in direct sunlight
- The equipment is not placed close to sources of heat (heaters, deep fryers, heating dispensing basins, frying plates, cooling units of other devices etc.)
- The equipment is not placed close to steam generating devices (heating dispensing basins, pasta heaters, convection ovens, etc.)

2.5 Ordering spare parts

Under preparation

3. Technical Features

3.1 Technical Description

These boxes are not permitted to be used for other purposes without express permission and eventual structural changes by Gastro Production s.r.o. The cooling boxes have been designed for best results provided that all instructions contained in this user guide are followed. For the boxes to be used in the best way possible and to be always kept in perfect condition, we recommend that you perform the maintenance work regularly. The personnel operating the boxes must be necessarily familiarised with instructions regarding to operation, maintenance and safety, as contained in this user guide.

The temperature of the refrigerated space is adjustable **from 3°C to 8°C**. The temperature of the refrigerated space is maintained by an electronic control unit. The el. control unit automatically manages the process of cooling the refrigerated space and the process of defrosting the icing forming on the evaporator. The resulting condensate liquid is either evaporated automatically or into the prepared drain.

Cooling box for KEG barrels

Cooling boxes serve for cooling KEG beer barrels and other beverages stored independently in bottles or crates.

Cooling bottle box


This type of box is designed for cooling beverages with a maximum height of 225mm. The box can be built-in or stand alone. On one side, there is a glass "U" profile. The other side is equipped with doors for easy insertion of beverages, where the entire ribbed bottom can be pulled out. The ribbing at the bottom of the box allows bottles to be arranged in rows and in a stable position. Thanks to the inclined bottom, the bottle slide forward when the first bottle is taken out in that row. This ensures that the customer always has access to the goods.

3.2 Dimensions and Weight

Dimensions and weight of the equipment can be found according to the type of equipment at www.gastro.cz.

3.3 Type Labels

The type label is placed on the bottom cover of the cooling basin. Illustrative example.

 Gastro.CZ PRODUCTION			www.gastro.cz			CZ		
						CE		
No :						Type :		
C.0001.02.15								
Cooling perform. :		0,28	kcal/h	Δ T	-25 °C			
Input P :		0,52	kW					
Voltage system :		1,N,PE ~ 230V,50Hz						
Current load Iv :				2,9	A			
Weight :			kg	Climatic class "N"				
Refriger.:		R404a	Amount	0,5	kg			

3.4.1 Technical Specifications of Cooling box for KEG barrels

	<i>4KEG</i>	<i>6KEG</i>	<i>8KEG</i>
Temperature	+3°C ~ +8°C		
Cooling gas	R290		
Power output at T - 10°C	0,35kW	0,35kW	0,42kW
Power input	0,24kW	0,28kW	0,35kW
Voltage	1,N,PE~230V,50Hz		

3.4.2 Technical Specifications of Cooling bottle box

	<i>780</i>	<i>1080</i>	<i>1380</i>
Temperature	+3°C ~ +8°C		
Cooling gas	R290		
Power output at T - 10°C	0,43kW	0,65kW	0,85kW
Power input	0,3kW	0,5kW	0,7kW
Voltage	1,N,PE~230V,50Hz		

4. Installation and Operation

4.1 Setting the Equipment

After unwrapping, assemble the equipment on the location designated for its operation according to the assembly diagram provided. If the equipment does not have any levelling feet, it must be oriented horizontally by means of stainless metal sheets used as pads.

4.2 Connecting to the electric network

The device is factory-fitted with a connecting cord for conducting the electric current, terminating in a non-detachable plug. This plug can be plugged into an outlet with voltage system 1, N, PE ~ 230V, 50Hz (an EURO socket with protective pin, a SHUKO socket with protective contacts). Insert the plug of the connecting cord into

the outlet. Ensure that the plug remains accessible to the operator. The cord cable must be laid out visibly and without any sharp bends. The cord cable must not be laid out across sharp edges of any sheet metal or other components.

4.3 Turning on the Equipment

After setting the equipment, wait at least ½ hour before turning it on.

- Turn on the equipment by setting the main power switch to **position 1**.
The indicator light should come on.
- For setting the temperature of the refrigerated space on the electronic control unit, refer to section 5.
(The standard initial factory setting for the refrigerated space temperature is **+ 4°C**).

4.4 Filling the equipment with goods

After the refrigerated space reaches the target temperature, you may fill it with goods.
Please follow the principles of proper use of equipment outlined.



- **Do not place any hot or warm dishes into the refrigerated space.**
- **Do not place any acidic foods into the refrigerated space, as this may cause damage to the evaporator.**

4.5 Operation of the Equipment



- **Keep the refrigerated space clean.**
- **Regularly check the equipment and perform maintenance work according to section 6 of this user guide.**

5. Electronic Control Unit

The cooling box is controlled by DIXELL.



The manufacturer takes no responsibility for any equipment malfunction resulting from interfering with the electronic control unit settings. This provision does not apply to settings permitted by this user guide.

5.1 Description and Dimensions

DIXELLS are electronic thermostats with passive defrosting. They are fitted with a microprocessor and are suitable for refrigeration applications at normal temperatures. They are suitable for mounting on panels and their dimensions are 32x74 mm. They have one, two or three relay outputs to control compressor, fan, defrosting, lighting. It is possible to connect up to three PTC or NTC sensors to them.

Technical parameters

Wrapping: **self-extinguishing plastic ABS**

Case: **front panel: 32 x 74mm, depth: 60mm**

Mounting: **into the panel with cut-out aperture of 71 x 29mm**

Front panel cover: **IP65**

Attachment: **barrier strip for conductors with up to 2.5mm² cross section.**

Supply voltage: **230V~, ±10%; 50, 60Hz**

Input power: **3VA max**

Data memory: **EEPROM**

Working temperature range: **0 to 60°C**

Temperature range for storage: **-30 to 85°C**

Relative humidity: **20 to 85%**






Accuracy (at ambient temperature of 25°C): **±0,7°C±1 digit**

5.2 Operating Mode – DIXELL





FRONT PANEL COMMANDS:









Button description

SET	Displays the desired value. In programming mode serves for selecting a parameter or confirming an operation.
	(UP) : Displays maximum temperature recorded. In programming mode serves for navigating the parameter list and increasing the displayed value.
	(DOWN) : Displays minimum temperature recorded. In programming mode serves for navigating the parameter list and decreasing the displayed value.
	Turns the device on and off.
	Turns the lighting on and off, if available.
	(DEF) : Initiates manual defrost.



Key combinations

 	Locks and unlocks the keyboard.
SET 	Enters the programming mode.
SET 	Returns to displaying the value of the refrigerated space temperature.



Explanation of LED functions

	Lit up - Compressor running Flashing - Compressor minimum cycle delay
	Lit up - Defrosting in progress Flashing - Dripping in progress
	Lit up - Fans running Flashing - There is a time delay for the fans to switch on during defrost
	Lit up - Alarm
	Lit up - A continuous cooling cycle is in progress
	Lit up - Energy saving cycle
°C / F	Lit up - Measured units Flashing - Programming mode

Displaying minimum recorded temperature

1. Press the  button.
2. A "Lo" message appears on the display followed by minimum recorded temperature.
3. After another pressing of the  button or a 5s wait the device returns to normal mode of operation displaying the measured temperature.

Displaying maximum recorded temperature

1. Press the  button.
2. A "Hi" message appears on the display followed by maximum recorded temperature.
3. After another pressing of the  button or a 5s wait the device returns to normal mode of operation displaying the measured temperature.

Resetting the recorded MIN. / MAX. temperatures



1. While viewing either of the MIN. / MAX. temperatures, press the **SET** button for more than 3s, until the "rSt" message appears.
2. Confirm the operation by again pressing the **SET** button. The "rSt" starts flashing. The device resumes displaying the current temperature.

MAIN FUNCTIONS

Displaying the Target Temperature

1. Shortly press the **SET** button. The device displays the target temperature.
2. To again display the current temperature, shortly press the **SET** button again or wait 5s.



Setting the Target Temperature

1. Hold the **SET** button for more than 2s.
2. The device starts displaying the target temperature and the °C warning light starts flashing.
3. The target temperature can be adjusted by pressing the  or  buttons (within 10s interval).
4. The new target temperature is confirmed either by again pressing the **SET** button or automatically after 10s interval.



Initiating Manual Defrost

1. Press and hold the  for more than 2s.



Locking the Keyboard

1. Hold the  +  buttons simultaneously for at least 3s.
2. The **"POF"** message appears and the keyboard is locked. Now it is only possible to see the target temperature or the MIN. / MAX. recorded temperature.
3. Upon pressing any key for more than 3s, the **"POF"** message appears.



Unlocking the Keyboard again

1. Hold the  +  buttons simultaneously for at least 3s, until the **"PON"** message appears.

The Continuous Cycle

1. Unless there is defrost in progress, it is possible to initiate the continuous cycle by pressing the  button for more than 3s. The compressor enters the continuous cycle and operates to maintain the CCS setpoint for the time set through the CCt parameter. The cycle can be terminated before the end of the set time by pressing the  button for more than 3s.

The ON/OFF Function

1. The device can be turned off by pressing the  button. The **"OFF"** message appears. In this configuration, the regulation is disabled. To switch the controller on, again press the  button.

WARNING! - Loads connected to the normally closed contacts of the relays are always supplied and under voltage, even if the controller is in stand-by mode.

5.3 Programming Mode



Activating the programming mode is allowed only to servicing organisations with permission from the manufacturer.

6. Maintenance

6.1 General Safety Measures



- Before commencing maintenance, study this user guide thoroughly.
- Follow the instructions contained in section **2.3 Safety**.



- Before carrying out maintenance work, it is necessary to pull the power supply cord plug and to make sure no electric current is flowing through the equipment (e.g. by turning on the main power switch and observing if the equipment remains powered off).
- If the equipment is connected permanently to the mains, it is necessary to turn off the corresponding circuit breaker, make sure the equipment is not functioning and secure the deactivated circuit breaker, e.g. by putting an “equipment under maintenance” sign on it.
- During maintenance work, proceed with caution and without haste.



- Do not use pressurized water for washing the equipment, there is a risk of damage to ventilator fans, compressor, electronic components and to the whole equipment as a consequence!
- To clean the equipment use a common kitchen detergent approved for use with foodstuffs!

6.2 Regular Maintenance

6.2.1 Inspection

6.2.1.1 Evaporator (Cooling box for KEG barrels)

- Remove the cover (*number 3 in the technical drawing in aggregate assembly*).



- Ascertain visually that the evaporator is not iced. An iced evaporator must be left to defrost.

6.2.1.2 Evaporator (Cooling bottle box)

- Open the doors, slide out the ribbed bottom and remove it.
- Ascertain visually that the evaporator is not iced. An iced evaporator must be left to defrost.
- Then we fold it up to the required height.
- Check the drain hose to ensure that the resulting condensate can freely drain. Clear any clogged hose using a draw-through tool. Remove any deposits from the evaporator tray as well

6.2.1.3 Evaporator fans (Cooling box for KEG barrels)

- Check manually that the evaporator fan moves freely. Have an immobile fan replaced.

6.2.1.4 Evaporator fans (Cooling bottle box)

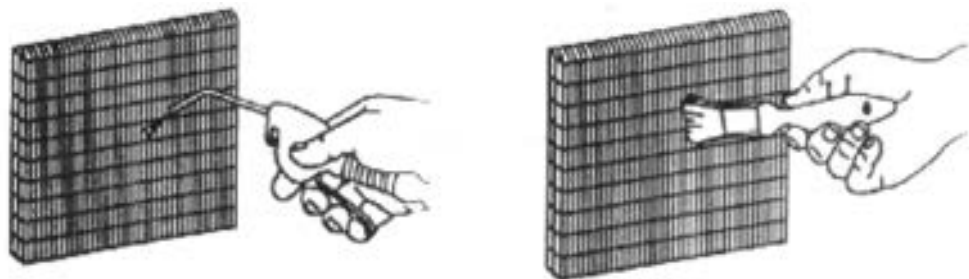
- Open the doors, slide out the ribbed bottom and remove it.
- Check manually that the evaporator fan moves freely. Have an immobile fan replaced.

6.2.1.5 Compressor

- Take off the cooling unit cover after unscrewing the fastening screws.
- Remove any deposited dust from the compressor by vacuuming or using a compressed air blower.
- From the vicinity of the compressor, remove any undesirable material that would obstruct the free flow of air.

6.2.1.6 Condenser

- Check that there are no dust deposits or other particles on the condenser lamellas. **While pointing a flashlight towards the lamellas, you should be able to see through them!**
- Remove any eventual impurities with a brush or a compressed air blower.





If it is not possible to clean the condenser, contact a servicing organisation. The condenser needs to be replaced, failing to do so would result in destruction of the whole cooling unit.

- Use increased caution during cleaning, there is a danger of cutting oneself at the condenser lamellas.
- If the condenser fan is readily accessible, check manually that the fan rotates freely. If the fan is inaccessible, it is necessary to check that the fan is functioning correctly during operation, in the following way: Provided that the condenser is clean, put an A4 sheet of paper against the front side of the condenser while the cooling unit is in operation. The sheet of paper should cling firmly to it and not fall off.

6.2.1.7 Sealing surfaces

- Check that the sealing on doors is not damaged (cracked, hardened, missing). Have all damaged sealing replaced by a servicing organisation.

6.2.1.8 Lighting

Visually inspect to ensure that the covers of the lights are not damaged. Replace broken covers with the assistance of a service organization.

6.2.1.9 Hinges, sliding surfaces

- Check that all hinges rotate freely and are properly spring-loaded.
- Also check that all hinges are properly attached and do not show signs of deformation.
- Check that sliding surfaces move freely without snagging.
- **Do not lubricate the hinges or sliding surfaces with any petroleum jelly or oils!**
- Have any faulty hinges or sliding surfaces replaced by a servicing organisation.

6.2.1.10 Ventilation apertures

- Ensure that all ventilation apertures are unobstructed and clean. Mechanically remove any eventual impurities by vacuuming or using a compressed air blower.



Never place any obstacles in front of the ventilation apertures!

6.2.2 Maintenance

6.2.2.1 Daily maintenance

- During maintenance work, follow the instructions contained in section **6.1 General Safety Measures**.
- After finishing daily operation, turn off the equipment. Clean the refrigerated space and wipe it dry. Leave the refrigerated space open to prevent any lingering odors
- **While the equipment is turned off, perform maintenance as detailed in sections 6.2.1.1-6.2.1.2 and 6.2.1.8.**

6.2.2.2 Monthly maintenance

- During maintenance work, follow the instructions contained in section **6.1 General Safety Measures**.
- During monthly maintenance perform tasks detailed in sections **6.2.1 Inspection and 6.2.2.1 Daily Maintenance**.

7. Forbidden handling procedures



- Do not use the equipment for other purposes than intended!
- Do not interfere with the circuitry of the equipment!
- Do not perform any other activities forbidden elsewhere in this user guide!
- Do not wash the equipment with pressurized water!
- Do not handle the equipment roughly!
- It is forbidden to operate the equipment without prior training and without having this user guide available!

8. Table of possible malfunctions and their correcting

<i>Malfunction name</i>	<i>Control unit message</i>	<i>Possible correction method</i>
<i>Malfunctioning refrigerated space probe</i>	PF1	Replace thermal probe
<i>Malfunctioning evaporator probe</i>	Not fitted	Replace thermal probe
<i>Box not cooling</i>	HiA	Check the box as per section 6.2 Regular Maintenance. After inspection, turn the equipment on again and let it operate for at least 60 min. If the problem persists, contact a servicing organisation.
<i>Box cooling too much</i>	LoA	Malfunctioning control unit relay – replace the control unit

9. Inquiries

If you need help and advice, do not hesitate to contact us, and we will assist you with everything. You can find our contact information on our website www.gastro.cz.

Appendix 1

Cooling Box for KEG Barrels - Wiring diagram

We are updating the wiring diagram to provide more detailed information. For any questions, please contact us.

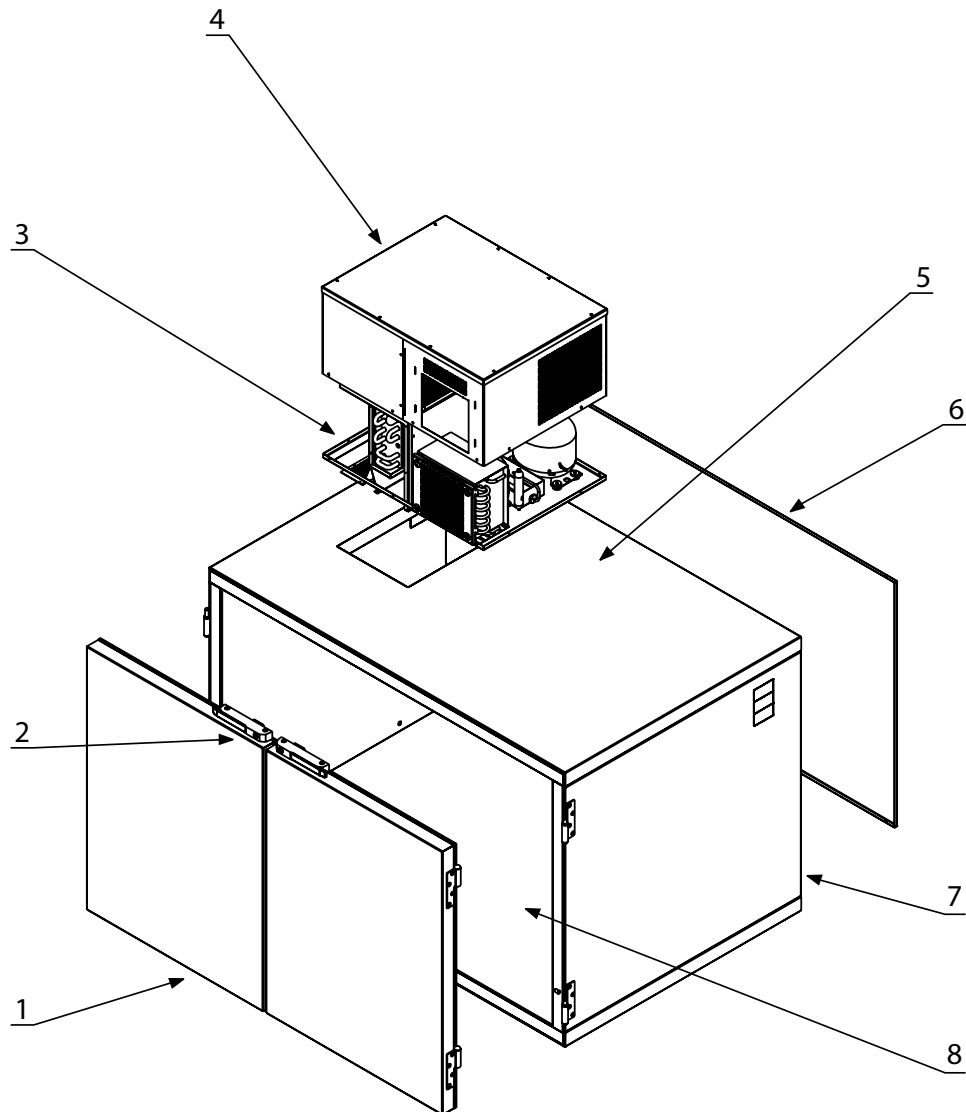
Appendix 2

Cooling bottle box - Wiring diagram

We are updating the wiring diagram to provide more detailed information. For any questions, please contact us.

Appendix 3

Cooling Box for KEG Barrels - Technical drawing



Legend:

1. Wing doors
2. Handle
3. Aggregate (Compressor, Condenser, Evaporator,...)
4. Aggregate cover assembly
5. Ceiling panel of the cooling box
6. Back panel of the cooling box
7. Side panel of the cooling box
8. Bottom of the cooling box

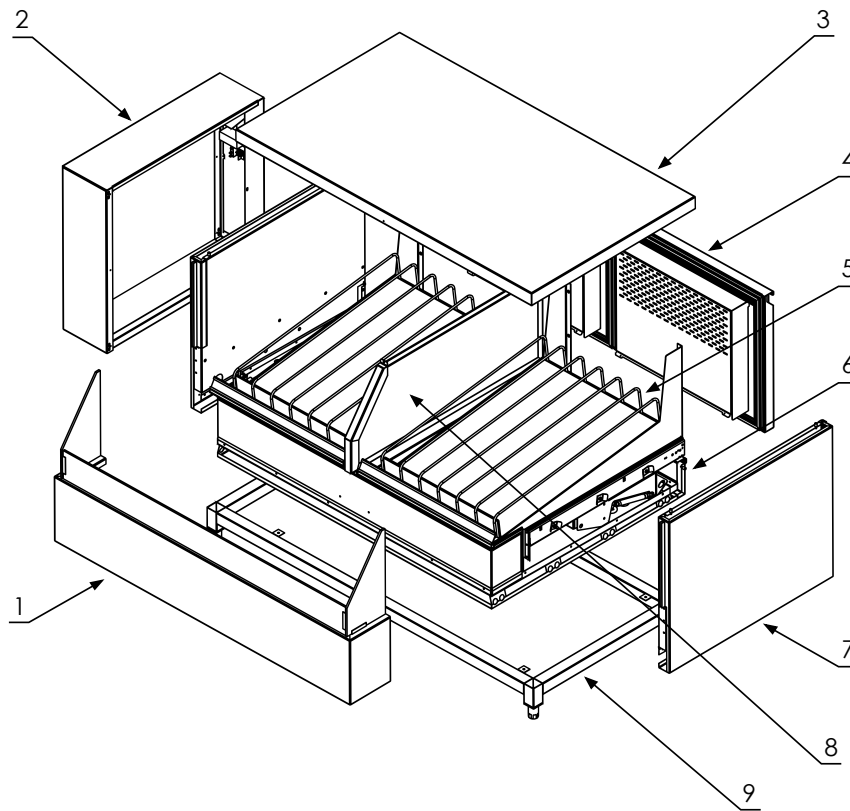
Assembly Description for the Cooling Box for KEG

Barrels

1. Set the box bottom **8** on a horizontal surface. If the surface is not horizontal, use pads to achieve the horizontal orientation of the box bottom.
2. Set the back panel **6** of the cooling box on the bottom according to the drawing. Draw the back panel to the bottom by using an Allen wrench on the locks. Tighten the locks by turning the Allen wrench to the right.
3. Next set the side panel **7** according to the drawing so that the front edges of the bottom and side panels form a single surface. Tighten the locks using an Allen wrench.
4. Set the other side panel in the same way.
5. Set the ceiling panel **5** on top of the back and side panels and tighten the locks using an Allen wrench.
6. Set the cooling unit **4** on top of the ceiling panel over the pre-made aperture so that the condenser of the cooling unit is oriented towards the door of the box with the connecting cord cable to the right.
7. Set the door **1** on the hinges of the side panels and close it using the handle. The door can be locked.

Appendix 4

Cooling bottle box – Technical drawing



Cooling bottle box 1380

Legend:

1. „U“ frame with glass
2. Control panel chamber
3. The upper panel
4. Doors
5. Inclined ribbed bottom
6. Inner tub with evaporator
7. Side panel
8. Glass partition
9. Bottle box base with legs