

# **INSTRUCTION FOR USE AND MAINTENANCE**

HEATING  
QIR LAMPS



**Gastro.cz**  

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**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 heating equipment supplied by Gastro Production Ltd.

# Contents

1. Introduction .....	1
1.1 Orientation in the Instructions for Use .....	1
1.2 Explanation of symbols used in the Instructions for Use .....	2
2. Common provisions .....	3
2.1 Transport and equipment .....	3
2.1.1 Transport .....	3
2.1.2 Unpacking .....	3
2.1.3 Dismounting and disposal .....	3
2.2 Test reports, guarantee conditions .....	4
2.2.1 Testing .....	4
2.2.2 Guarantee conditions .....	4
2.2.3 Reasons for termination of guarantee .....	4
2.3 Safety .....	5
2.3.1 Safety - electrical current .....	5
2.3.2 Safety - mechanical parts: .....	6
2.3.3 Safety - heat effects .....	6
2.3.4 Correct use of the appliance .....	7
A – HEATING QIR LAMPS .....	8
2.4 Ambient conditions .....	8
2.5 Ordering spare parts .....	8
3. Technical parameters .....	8
3.1 Technical description .....	8
3.2 Dimensions and weight .....	8
3.3 Nameplates .....	9
3.4.2 Technical data of QIR lamps .....	9
4. Installation and operation .....	10

4.1 Seating .....	10
4.2 Electrical connection .....	10
4.3 Appliance actuation .....	10
4.4 Operation of the appliance .....	11
5. Control knob for heating equipments .....	11
6. Maintenance .....	12
6.1 General safety measures .....	12
6.2 Regular maintenance .....	12
6.2.1 Inspections .....	12
6.2.2 Maintenance .....	13
7. Work prohibited on the appliance .....	14
8. Table of possible defects and their removal .....	14
9. Inquiries .....	14
Annex 1 .....	15
QIR lamp – Wiring diagram .....	15
Annex 2 .....	16
QIR lamp – Technical drawing .....	16

# 1. Introduction

## 1.1 Orientation in the Instructions for Use

This manual is designed for easy and fast retrieval of information necessary for the operation and maintenance of cooling appliances. The user must read the entire manual with utmost attention and make sure that he understands very well all the information contained herein. In addition, the manual serves for subsequent retrieval of information if an intervention on the appliance is required. That is why the manual must be available at all times for the operators of the rack. Retrieval in this manual is facilitated by the general table of contents, which allows instantaneous identification of the specific place, and by tables of contents at the beginning of each section. In addition, symbols are added next to some paragraphs to highlight essential information contained in the specific paragraph. **Special attention should be paid to these paragraphs!**

## 1.2 Explanation of symbols used in the Instructions for Use



**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 equipment

#### 2.1.1 Transport

The customer is obliged to inspect the completeness and integrity of the package in which the appliance is transported. Any damage during transport should be addressed with the respective carrier. After delivery, the appliance must be moved to the final place of installation in its original package, if possible.

#### 2.1.2 Unpacking

When the appliance is transported to the place of installation, remove all packages.



**Remove all protective films from the outside and inside of the appliance. The consumer is obliged to dispose of all packages in accordance with the applicable regulations in the country of installation!**

#### 2.1.3 Dismounting and disposal

After its life cycle expires, the appliance must be disposed of in accordance with the applicable regulations in the specific country.

The appliance contains the following materials:

- stainless steel
- ferrous metals - aluminium, copper
- glass
- PVC
- methacrylate (PMMA)
- polystyrene (PS)
- ABS
- Moplen
- Nylon
- polyethylene
- lubricating oil
- cooling gas
- polyurethane
- electric motors
- supply cable, wiring materials

## **2.2 Test reports, guarantee conditions**

### **2.2.1 Testing**

Each appliance is factory tested in accordance with the applicable laws, technical standards and government regulations. A test report on the tests performed is issued for each appliance and kept in the factory. The appliance is sent to the customer in a ready-to-use condition. This does not apply to appliances built in complex dispensing lines and installed on-site at the customer.

### **2.2.2 Guarantee conditions**



**A guarantee is provided on the appliance if the appliance is used for its intended purpose and the operating instructions contained herein are strictly followed. Appliance operators are thoroughly and demonstrably trained and keep these Instructions for Use at hand. The Instructions for Use must be available to the operators at all times!**

### **2.2.3 Reasons for termination of guarantee**



- **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 - electrical current

The appliance is fitted from the factory with a connecting cable for power supply, ending with an inseparable plug. The plug can be inserted in a socket with the voltage system of 1, N, PE ~ 230 V, 50 Hz (EURO socket with a protective pin, SHUKO socket with safety contacts)



The plug may only be replaced by a person with qualifications in electrical engineering; the wiring of the applicable may only be interfered with by a person with qualifications in electrical engineering, subject to agreement with the factory! Interference with the wiring is vitally dangerous and may cause electric shock!



It is prohibited to touch the supply plug, the control panel and other electrical parts with a wet or damp hand and to wash them with pressure water. There is a risk of electric shock!



Prior to any maintenance, it is necessary to remove the plug of the supply cable from the socket and make sure that the appliance is not powered (e.g. by switching on the main switch and checking whether the appliance responds).

If the appliance is hardwired to an electric circuit, it is necessary to switch off the respective circuit breaker, test if the appliance is disconnected and secure the circuit breaker, e.g. with a tag containing the text "Work on Equipment".

### 2.3.2 Safety - mechanical parts:

When operating the appliance, it is necessary to exercise increased caution:



When operating a heating appliance with fans: do not touch and do not insert objects through fan covers. The rotating fan blades may cause an injury.

### 2.3.3 Safety - heat effects



When operating heating appliances, a part of the appliance is heated to **a high temperature of up to 95°C** and **there is a risk of burning**, especially in the following places: infrared radiators, inner and outer enclosure

### **2.3.4 Correct use of the appliance**



- **The appliance is designed for normal use by an adult. It is not designed for rough handling and operation by children! Appliance operators must be thoroughly and demonstrably trained and keep these Instructions for Use at hand.**
- **The appliance must be operated in accordance with the Instructions for Use. The appliance may only be used for its intended purpose.**
- **Do not place the heating appliance next to an appliance that could be damaged due to the generated thermal energy.**
- **Before the appliance is filled with goods, pre-heat it to the selected temperature.**
- **Do not put any food perishable due to high temperature in the heated area.**
- **Keep the heated area clean.**
- **Do not leave the door to the heated area open - this would reduce the appliance's performance and life cycle.**
- **Regularly check the appliance and perform maintenance work as per these Instructions for Use.**

# **A – HEATING QIR LAMPS**

## **2.4 Ambient conditions**

The appliance is capable of working faultlessly under the following conditions:

- Altitude up to 1,000 m above sea level.
- Ambient temperature at the appliance between 15°C and 25°C.
- Maximum relative humidity 60%.

## **2.5 Ordering spare parts**

To be added

# **3. Technical parameters**

## **3.1 Technical description**

Heating lamps are used as an accessory to keep meals placed on trays and in food containers warm. These lamps must not be used for other purposes without an express approval of or, if applicable, structural changes made by Gastro Production s.r.o. Heating Lamps are made of stainless steel sheet. They are formed by an inner reflector with silica glass heaters. Lamps are usually attached from the bottom of rack structures above a heating plate, steam table, bain-marie or worktop. Lamps produce a consistent heat source that keep food warm. The source heats the food it is aimed at directly without heating the surrounding air. Lamps are controlled by switches, located on the basis of specific conditions. Lamps work up to the maximum height of 500 m above the heated surface.


Heating QIR lamp is equipped with silica glass heater that warms and shines at the same time. When the heating output is reduced, the lighting is also reduced and vice versa.

## **3.2 Dimensions and weight**

The dimensions and weight of the appliance may be found for each type of appliance at [www.gastro.cz](http://www.gastro.cz).

### 3.3 Nameplates

The nameplate is placed on the reflector of the appliance or close to the heating infralamp.

 <b>GASTRO.CZ</b> <a href="http://www.gastro.cz">www.gastro.cz</a> PRODUCTION				CZ	
				CE	
No :		<b>H.0001.02.15</b>			Type : 8D303-00
Input P :		0,97 kW			
Voltage system :		1,N,PE ~ 230V,50Hz			
Current load Iv :		4 A			
Weight :		kg			Climatic class "N"

### 3.4.2 Technical data of QIR lamps

	2GN	3GN	4GN	5GN
<b>Temperature</b>	Depends on the suspension height Max height – 300mm (95°C – 300W) Max height – 350mm (90°C – 300W) Max height – 400mm (80°C – 300W) Max height – 450mm (65°C – 300W) Max height – 500mm (50°C – 300W)			
<b>Power Input</b>	0,25kW	0,52kW	0,79kW	1,06kW
<b>Voltage</b>	1, N, PE - 230V, 50Hz			

## **4. Installation and operation**

### **4.1 Seating**

The unpackaged appliance is supplied in an assembled state and ready for the rack.

### **4.2 Electrical connection**

The appliance is fitted from the factory with a connecting cable for power supply, ending with an inseparable plug. The plug can be inserted in a socket with the voltage system of 1, N, PE ~ 230 V, 50 Hz (EURO socket with a protective pin, SHUKO socket with safety contacts)

Insert the supply cable plug in the socket. Make sure the plug is accessible to operators. The supply cable must be placed visibly, without any sharp bends. The supply cable must not be placed on sharp edges of steel and other parts.

The appliance can be also incorporated in a system of appliances, from which it is also powered.

### **4.3 Appliance actuation**



1. Switch the appliance on by turning the main switch to position 1, indicator lamp is on – infrared members generate heat.
2. Switch the appliance on by turning the main switch to position 1, indicator lamp is on – halogen lights are on.

## 4.4 Operation of the appliance



- **Keep the heated area clean.**
- **Be careful when handling utensils on the plate. Do not touch the surface of the infralamp, infrared members, halogen lights, they reach high temperatures – burning of the limbs may occur.**
- **There must be free area in front of the vents of the infralamp screen. Do not put combustible materials close to the vents, do not put any objects, materials on the heating infralamp!**
- **Regularly check the appliance and perform maintenance work as per section 6 of these Instructions for Use.**

## 5. Control knob for heating equipments



To control the heating equipments, the rotary knob on the thermostat is used. Using this knob, you can adjust the desired temperature for the respective device according to its markings. Some knobs feature a visual indicator, such as an expanding section at one end, to signify the addition of heat. Additionally, there are knobs with labeled temperatures for precise temperature adjustments.

## 6. Maintenance

### 6.1 General safety measures



Study these Instructions for Use thoroughly before the commencement of maintenance work. Comply with the principles of set forth in section **2.3 Safety**.



Prior to any maintenance, it is necessary to remove the plug of the supply cable from the socket and make sure that the appliance is not powered (e.g. by switching on the main switch and checking whether the appliance responds).

If the appliance is hardwired to an electric circuit, it is necessary to switch off the respective circuit breaker, test if the appliance is disconnected and secure the circuit breaker, e.g. with a tag containing the text "Work on Equipment".

Proceed with caution and without hurry during maintenance work.



Pressure water must not be used for washing the appliance, there is a risk of damage to the controls and electronic parts and the subsequent damage to the entire appliance!!!

For the purposes of cleaning, use regular kitchen detergents approved for use with food!!!

### 6.2 Regular maintenance

#### 6.2.1 Inspections

##### 6.2.1.1 Infrared members

- Check visually whether the member is not cracked, broken. Replace damaged members.

### 6.2.1.2 Vents

- Check visually whether the vents in the screen are not clogged by dust or obstructed by foreign materials. Vacuum any dust, remove any other substances close to the vents.



- **Never put any obstacles in front of the vents!!!**

## 6.2.2 Maintenance

### 6.2.2.1 Daily maintenance

- During maintenance work we comply with the principles set forth in section **6.1 General safety measures**.
- When daily operations are over, switch off the appliance. Remove food from the appliance, wipe the top surface of the screen with a moist cloth and wipe it dry.
- **With the appliance switched off, perform the inspections set forth in section 6.2.1.1-6.2.1.2.**

### 6.2.2.2 Monthly maintenance

- During maintenance work we comply with the principles set forth in section **6.1 General safety measures**.
- **During monthly maintenance carry out the activities set forth in section 6.2.1 Inspections.**
- **6.2.2.1 Daily maintenance.**

## 7. Work prohibited on the appliance



- It is prohibited to use the appliance for other than intended purposes!
- It is prohibited to interfere with the electrical connections of the appliance!
- It is prohibited to perform the prohibited work specified in other sections of these Instructions for Use!
- It is prohibited to wash the appliance with pressure water!
- It is prohibited to cover the appliance during operation!
- It is prohibited to treat the appliance roughly!
- It is prohibited to operate the appliance without prior training and without these Instructions for Use!

## 8. Table of possible defects and their removal

Designation of defect	Defect	Possible method of removal
Heating Infralamp does not heat	Switch is not on	Switch on the switch
Heating Infralamp does not heat	Defective infrared member or switch	Replace the member or switch
Heating Infralamp is not lit up	Switch is not on	Switch on the switch

## 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](http://www.gastro.cz).

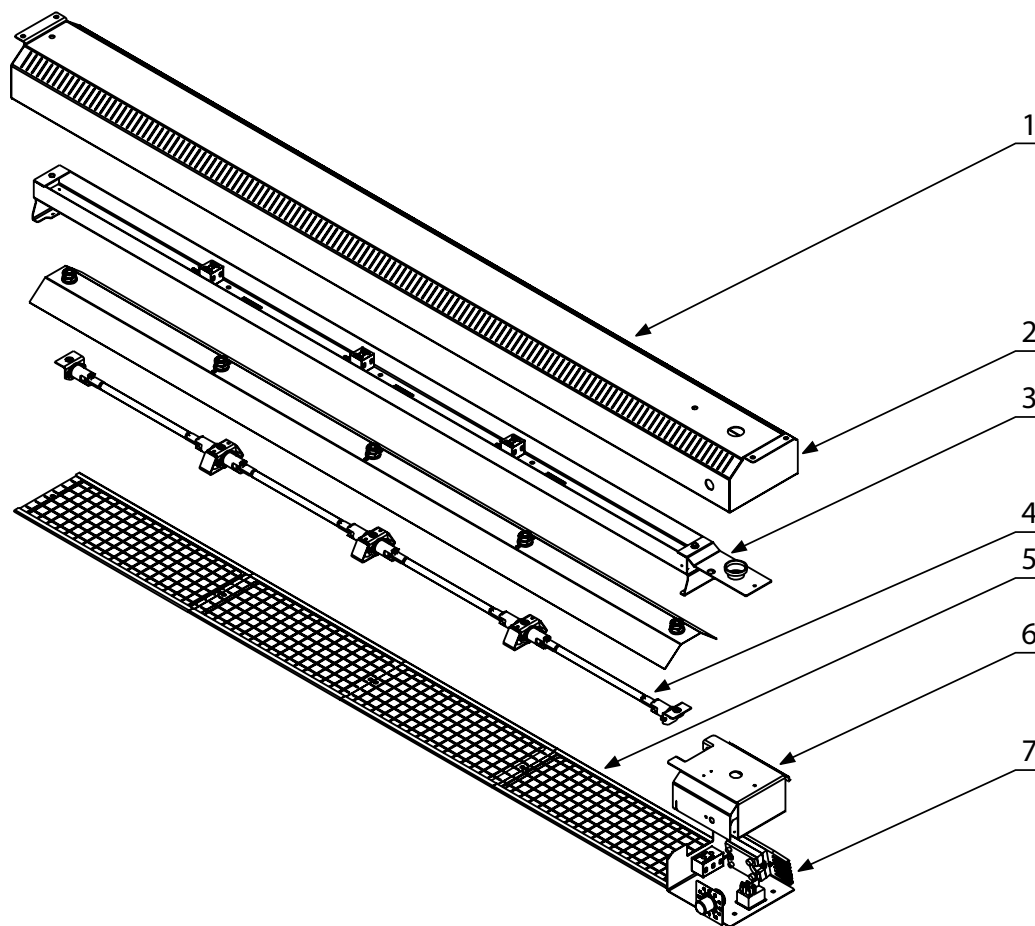
# **Annex 1**

## **QIR lamp – Wiring diagram**

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

## Annex 2

### QIR lamp – Technical drawing



#### Legend:

1. Outer cover of the lamp
2. Front cover
3. Lamp cover with bracket and sockets for silica glass heater
4. Silica glass heater
5. Grille
6. Cover of the electrical assembly
7. Potentiometer with label, rocker switch and semiconductor relay