

**Technical instruction**  
**Manual for use and maintenance**



## **ELECTRIC WATER GRILL**

### **MODELS**

### **CHIOS LINE**

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These appliances comply with requirements of E.E.C 73/23/CCE E1603351& 60335248

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**SOTIRIOS D. PRODANAS & CO**

**PROFESSIONAL ELECTRIC & GAS MACHINES FOR RESTAURANT – PATISSERIES – SNACK BAR**

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# ELECTRIC WATER GRILL

CHIOS1, CHIOS2, CHIOS3,  
CHIOS21, CHIOS22, CHIOS23

## SPECIFICATIONS

The tables below refer to the specifications of models CHIOS.

### Appliance's Dimensions

MODEL	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
CHIOS1	405	630	230
CHIOS2	695	630	230
CHIOS3	985	630	230
CHIOS21	375	700	300(460)
CHIOS22	650	700	300(460)
CHIOS23	925	700	300(460)

### Electrical Supply

400V 3N AC Hz

### IP Grating

IP 20

### Appliance's Safety

Complies to EN 60335-1 and 60335-2-48 requirements.

CE marking.

### Power

MODEL	POWER IN TOTAL
CHIOS1-CHIOS21	3.780 Watt
CHIOS2-CHIOS22	7.560 Watt
CHIOS3-CHIOS23	11.340 Watt

## **Main Parts**

- Supporting feet.
- AISI 430 stainless steel body.
- AISI 430 water through.

## **Electrical Components**

- Wire heating elements:

CHIOS1-CHIOS21 :3 x 1.260 Watt.

CHIOS2-CHIOS22 :6 x 1.260 Watt.

CHIOS3-CHIOS23: 9 x 1.260 Watt.

- 0-12 energy regulator

CHIOS1-CHIOS21: 1 piece

CHIOS2-CHIOS22: 2 pieces

CHIOS3-CHIOS23: 3 pieces

- Indicating lamps for heating elements operation.

CHIOS1-CHIOS21: 1 piece

CHIOS2-CHIOS22: 2 pieces

CHIOS3-CHIOS23: 3 pieces

- General main ignition with indicating lamp.

- Fire resistant wiring.

- Terminals' fasteners.

- Relay for mixed operation of heating elements (for HS-1 and HS-1½)

CHIOS1-CHIOS21: 1 PIECE

CHIOS2-CHIOS22: 2 pieces

CHIOS3-CHIOS23: 3 pieces

- Gland for supply cord.

- Earth terminal.

- Potential equivalent terminal, marked P.A.

- Six polar polyamide connection for supply cord.

# 1. GENERAL INFORMATION

- ⇒ This technical manual includes instructions for the installation, operation, care and maintenance of water-grills type CHIOS manufactured by **NORTH**. Please, read carefully and keep it for future reference. This manual should be referred to both by installing or service technicians and the operators of the equipment.
- ⇒ After you remove the packing make sure that no damage was caused during shipping. If in doubt, we recommend that an authorized technician examine the appliance before you proceed with the installation.
- ⇒ The appliance requires electrical connection. Before proceeding, make sure that main voltage meet the requirements of the appliance. This information is available on a label, on the right side of the appliance, as you face it. **In case of incongruence or if in doubt, do not connect the apparatus. Ask for the equipment to be checked by specialized personnel.**
- ⇒ **NORTH** Water-grills equipment are commercial grade appliances and should, therefore, be used by personnel who are specially trained in their use.
- ⇒ All procedures concerning installation and connection of the appliance must be carried out exclusively by specialized technicians according to specifications valid in the country where installation is taking place.
- ⇒ Before any routine cleaning, disconnect from electricity mains. The same procedure must be followed in case of malfunction of the appliance, while waiting for the service technician.
- ⇒ Any repairs must be exclusively carried out by authorized personnel using **original spare parts only**.
- ⇒ The manufacturer cannot be held responsible for damage caused to persons, animals or property due to misuse, tampering, unauthorized modification, or uses other than ones mentioned and / or considered in this manual.

## 2. TECHNICAL INSTRUCTIONS

### INSTALLATION AND SERVICE INSTRUCTIONS

NORTH WATER-GRILLS ARE PROFESSIONAL EQUIPMENT.  
ALL ASSEMBLY AND CONNECTION PROCEDURES,  
TESTING AND REQUIRED REPAIRS  
MUST BE CARRIED OUT  
BY SPECIALIZED AND AUTHORIZED PERSONNEL ONLY.

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NORTH ENTERPRISES CANNOT BE HELD RESPONSIBLE  
FOR ANY NEGATIVE CONSEQUENCES IN CASE OF  
INTERVENTIONS BY NON-SPECIALIZED TECHNICAL PERSONNEL  
OR DUE TO NONCOMPLIANCE WITH FACTORY INSTRUCTIONS.

## **2.1 INSTALLATION OF THE APPLIANCE.....**

After making sure the appliance is intact, place it in position so that it is stable and there is adequate operating space around it.

Make sure that all parts are at hand, i.e.:

- Water-grill CHIOS.
- Water through.
- Instruction manual.

**Attention !** To avoid accidents, keep all packing materials (cardboard, plastic bags, metal items, etc) away from children.

**Important !** Install the water-grill on a flat non-flammable surface, away from flammable walls.

## **2.2 ELECTRICAL CONNECTION.....**

Appliances operates on three phase voltage only

### **HO7RNF 5 x 2,5**

Connect the phases to L1, L2 and L3

Connect the earth neutral to N1 or N2.

Connect the earth.

- Connect P.A. terminal to water piping using a 10 mm<sup>2</sup> wire.

**IT IS STRONGLY RECOMMENDED TO USE A QUALIFIED ELECTRICIAN FOR ALL ELECTRICAL CONNECTIONS.**

**THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR ACCIDENTS AND DAMAGE CAUSED TO PERSONS, ANIMALS OR PROPERTY DUE TO NONCOMPLIANCE WITH THESE INSTRUCTIONS.**

### 2.3 POSSIBLE PROBLEM.....

Even if the appliance is used correctly, some problems may arise for various reasons. The table that follows mentions some possible problems and some possible causes.

**In case of problem we control first if the electrical supply to the machine is right or not.**

POSSIBLE PROBLEM	POSSIBLE CAUSES
Machine is not operating	Check if there is damage to 1) all heating elements 2) the edge of cord connected with the heating element 3) connection of relay.4) zimenstat.
Heating element is not operating	Check if there is damage to 1) the heating element 2) the edge of cord connected with heating element 3) connection of relay.

### 2.3 REPLACEMENT OF ELECTRICAL ELEMENTS.....

To replace heating elements open the frond and the back of the frames, disconnect wires and remove the supporting nuts.

For energy regulator and indicating lamps open the cover on the front inside section of the appliance; where as for relays and others the rear of the appliance.

### CUT OFF THE POWER SUPPLY BEFORE COVER REMOVAL.

### 2.4 TRAINING.....

The personnel who are to install and connect the appliance must train the users appropriately so that they can handle the operation and safety measures of the appliance.

### **ATTENTION !!!**

- Check that main voltage in your working area is suitable for the settings on the label and that the appliance is properly earthed.
- Before any service activity takes place or any parts are replaced on the appliance, make sure that pains supply is turned off.

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### **3. OPERATION INSTRUCTIONS**

# **INSTRUCTIONS TO PERSONNEL FOR OPERATION AND CARE OF WATER-GRILL CHIOS**

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