



ELECTRIC COOKER

MODELS

F80E4 – F80E6 – E4 – E6 – E2B – E2Π

These appliances comply with requirements of E.E.C 90/396

SOTIRIOS D. PRODANAS & CO

PROFESSIONAL ELECTRIC & GAS MACHINES FOR RESTAURANT – PATISSERIES – SNACK BAR
OFFICE – FACTORY : National Road Kilkis-Thessaloniki P.C 545 00 Tel.: ++30 23410 41991 Fax: ++30 23410 41539
P.O Box 400 70, P.C : 560 00 www.north.gr - e-mail : info@north.gr

ELECTRIC COOKING RANGE

F80-E4, F80-E6, E2B, E2Π, E4, E6

SPECIFICATIONS

The tables below refer to the specifications of models F80-E4, F80-E6, E1, E2, E2A, and E4 & E6.

Appliance's Dimensions

MODEL	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	WEIGHT (Kg)
F80-E4	790	860	870	134
F80-E6	1155	860	870	170
E2B	430	860	270	35
E2Π	790	500	270	35
E4	790	860	270	70
E6	1155	860	270	83

Chamber's Dimensions

MODEL	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)
F80-E4	540	680	13x2
F80-E6	900	680	13x2

Electrical Supply

F80-E4	400V ~ 3N 50Hz
F80-E6	400V ~ 3N 50Hz
E2 / E2A	400V ~ 2N 50Hz
E4	400V ~ 3N 50Hz
E6	400V ~ 3N 50Hz

IP Grating

IP 20

Appliance's Safety

Complies with **EN 60335-1:02+A11: 2004** and **60335-2-36:02** requirements.

CE marking.

Power

MODEL	PLATE'S POWER	OVEN'S POWER	POWER IN TOTAL
F80-E4	12.000 Watt	5.600 Watt	17.600 Watt
F80-E6	18.000 Watt	6.000 Watt	24.000 Watt
E2B / E2Π	6.000 Watt		
E4	12.000 Watt		
E6	18.000 Watt		

Main Parts

- AISI 430 stainless steel body.
- AISI 430 stainless steel front cover.
- AISI 430 stainless steel chamber.
- AISI 430 stainless steel rotating door.
- Shelf at the middle of the chamber (F80-E4 & F80-E6 models).
- Cast iron plate at the bottom of the chamber (F80-E4 & F80-E6 models)
- Heat insulated handle.
- Ventilation hole ø30mm diameter.
- Glass-wool chamber insulation.

Electrical Components

MODEL	HEATING PLATE	WIRE HEATING ELEMENT
F80-E4	4 x 3.000 Watt	2 x 2.800 Watt
F80-E6	6 x 3.000 Watt	2 x 3.000 Watt
E2B / E2Π	2 x 3.000 Watt	
E4	4 x 3.000 Watt	
E6	6 x 3.000 Watt	

- Two thermostats 0-300°C (for F80-E4 & F80-E6 models).
- Two indicating lamps (for F80-E4 & F80-E6 models).
- Four position switch 0,1,2,3 (4pcs for F80-E4 & E4, 6pcs for F80-E6 & E6, and 2pcs for E2B & E2Π).
- Connection for supply cord.
- Fire resistant wiring
- Terminals' fasteners.
- Gland for supply cord.
- Earth thermal.

Technical Stamp

Technical stamp is in the right side of the machine and it mention the name of the manufacture – Model – Serial number – Year of construction – Power supply – Phases – Total Power.

1. GENERAL INFORMATION

- ⇒ This technical manual includes instructions for the installation, operation, care and maintenance of appliances type F80-E4, F80-E6, E2B, E2Π, E4 & E6 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** appliances are commercial grade appliances and should, there for, be used by personnel who are specially trained in their use.
- ⇒ Exclusively specialized technicians according to specifications valid in the country where installation is taking place must carry out all procedures concerning installation and connection of the appliance.
- ⇒ 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.
- ⇒ Authorized personnel using **original spare parts** only must exclusively carry out any repairs.
- ⇒ 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 APPLIANCES ARE PROFESSIONAL EQUIPMENT.
ALL ASSEMBLY AND CONNECTION PROCEDURES,
TESTING AND REQUIRED REPAIRS
MUST BE CARRIED OUT
BY SPECIALIZED AND AUTHORIZED PERSONNEL ONLY.

.....

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.

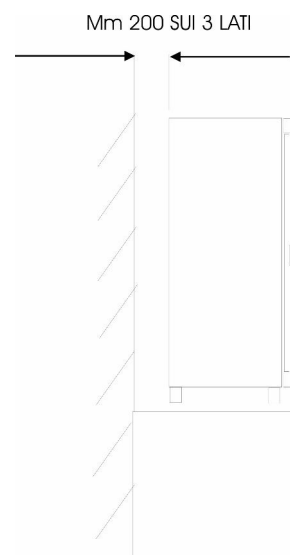
2.1 INSTALLATION OF THE APPLIANCE.....

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

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

Important! Install the appliance on a flat non-flammable surface, away from flammable walls and they must be 200mm away from the wall from the 3 sides. When the appliance destined for setting in small distance from walls, divisions, kitchen furniture, decorative things etc, it is recommended to secure that they are constructed with non-flammable material.

Information: Models F80-E4 & F80-E6 are flooring appliances. All other models are table machines



2.2 ELECTRICAL CONNECTION.....

- The appliance must be connected with stable electrical four poles switch installation (L1, L2, L3 and N).

Attention To avoid damages to connector strip and cords the power cord must be well screwed on connector strip.

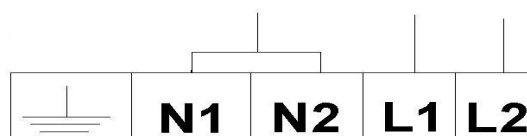
- Remove the right cover of the appliance. (Drawing N13)
- Enter the suitable supply cord through the gland. (Drawing N14)

F80-E4, F80-E6, E6 **HO7RNF 5X4mm**
E2B, E2Π, E4 **HO7RNF 3X2,5mm**

Two phases power supply (Model E2B/E2Π)

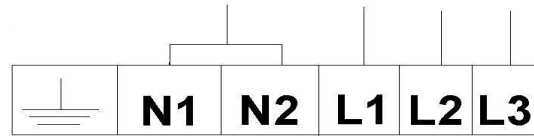
400V 2N AC

Connect the phases to L1
Connect the phases to L2
Connect the neutral to N
Connect the earth thermal.



Three phases power supply (Model F80E4/F80E6/E4/E6) 400V 3N AC

Connect the phases to L1, L2 & L3
Connect the neutral to N1 or N2.
Connect the earth thermal.



The same wiring diagram can be found next to the power supply terminal board.

The appliance must be electrically installed in a unipotential system the efficiency of which must be checked in accordance with current legislation. Electrical installation must be carried between different appliances using the special terminal market.



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 REPLACEMENT OF ELECTRICAL ELEMENTS.....

To replace heating element at the top of the oven remove the right-hand cover of the appliance. Release the wires and remove the heating element holding screws inside the chamber. For the lower heating element of the oven remove the bottom cover of the appliance.

To replace switches remove the panel located on the front of the appliance.

For the heating plates remove the panel of the front side of the appliance, release the wires in switch 0,1,2,3. Remove the heating plate.

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 power supply is turned off.

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

3. OPERATION INSTRUCTIONS

INSTRUCTIONS TO PERSONNEL FOR OPERATION AND CARE

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

.....

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.

3.1 TURNING ON THE APPLIANCE

After making sure the appliance has been correctly connected to electricity, you can start using it.

Function Oven

Depending on the heating requirement of the oven from F80-E4 & F80-E6 models select the upper or the lower heating element and set the equivalent thermostat (0-300°C) to the right. The thermostat will control the temperature of the corresponding heating element and the chamber's temperature. During operation of the heating element indicating lamp is on. For 0-50°C the heating element is not operating.

Function Plate

Depending on the heating requirement of the fireplace select heating plate and set the switch (0,1,2,3). In the position 1 of the switch the plate is in conservation temperature ($\pm 500W$). Position 2 is in the half power of the plate ($\pm 1500W$). In Position 3 is the max power of the plate 3000W

3.2 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 thermostat or connector strip 3) the thermostat 4) Switch
Oven's heating element is not operating	Check it there is damage to 1) the heating element, 2) the edge of cord connected with the heating element, 3) the thermostat.
Heating plate is not operating	Check if there is damage to 1) the edge of cord connected with the heating plate or the switch, 2) the heating plate, 3) the switch.
Non normal temperature of the heating plate	Check if there is damage to 1) the one of the two plate's heating element, 2) the edge of cord at the entrance of the plate, 3) the switch.
Non normal temperature of the oven	Possible temperature deviation of thermostat + - °C.

Method to confirm the causes

- 1) Operating test with multimeter.
- 2) Optical test
- 3) Functional test.

3.3 CLEANING AND MAINTENANCE.....

Turn off the appliance before any cleaning or maintenance procedures. Let the appliance cool and make sure it has been unplugged from the main supply.

Never use running water to clean the appliance.