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DOC. NO. **5938 036 01**EDITION 1 E-Z-A 0802 **LA-LC** 



# SAFETY INSTRUCTIONS

Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

**WARNING**: Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

Danger! Explosion hazard.

In the event a gas odor is detected, shut down equipment at the main shut-off valve. Immediatly call the emergency phone number of your gas supplier.

Read each section of this manual before installing and operating.



# PER LA VOSTRA SICUREZZA

Non immagazzinare o usare benzina o altri materiali infiammabili o liquidi nelle vicinanze di questa o qualsiasi altra apparecchiatura.

**AVVERTENZA**: Installazione impropria, adattamenti, modifiche o manutenzione possono causare danni alla proprieta` o morte. Leggere attentamente le istruzioni per l'installazione, il funzionamento e la manutenzione prima di installare questa apparecchatura.

Pericolo! Pericolo di esplosione.

Nel caso in cui venga avvertito odore di gas spegnere l'apparecchiatura chiudendo la valvola principale a monte della stessa. Immediatamente telefonare al numero d'emergenza del vostro fornitore di gas.

Leggere tutte le parti di questo manuale prima di installare o mettere in funzione l'apparecchiatura.

# (CDN)

# POUR VOTRE SECURITE

Il ne faut pas emmagasiner ou utiliser l'essence ou d'autres matériaux inflammables ou liquides à côté de cet appareil ou d'autres appareils.

**AVERTISSEMENT**: L'installation, l'adaptation, la modification et l'entretien inadéquats peuvent causer des dommages aux structures ou aux personnes et la mort. Lire attentivement les instructions d'installation, de fonctionnement et d'entretien avant d'installer cet appareil.

Danger! Danger d'explosion.

Si l'on sent l'odeur de gaz, arrêter l'appareil en fermant la soupape principale en amont. Téléphoner immédiatement au numéro d'urgence de votre fournisseur de gaz.

Lire toutes les parties de ce mode d'emploi avant d'installer ou mettre en fonction l'appareil.



# PARA SALVAGUARDAR VUESTRA SEGURIDAD

No almacenar o utilizar gasolina u otros materiales inflamables o líquidos cerca de este u otros aparatos.

**ADVERTENCIA:** Una instalación indacuada, lo mismo que modificaciones y operaciones de mantenimiento incorrectas pueden causar daños a la estructura y a las personas y provocar la muerte. Antes de instalar el aparato leer con mucha atención las instrucciones de la instalación, del funcionamiento y del mantenimiento.

Peligro! Peligro de explosión.

En el caso que se sienta olor de gas, apagar inmediatamente el aparato cerrando la válvula principal colocada aguas arriba de la misma. Llamar inmediatamente el número de teléfono de emergencia de la compañía erogadora del gas.

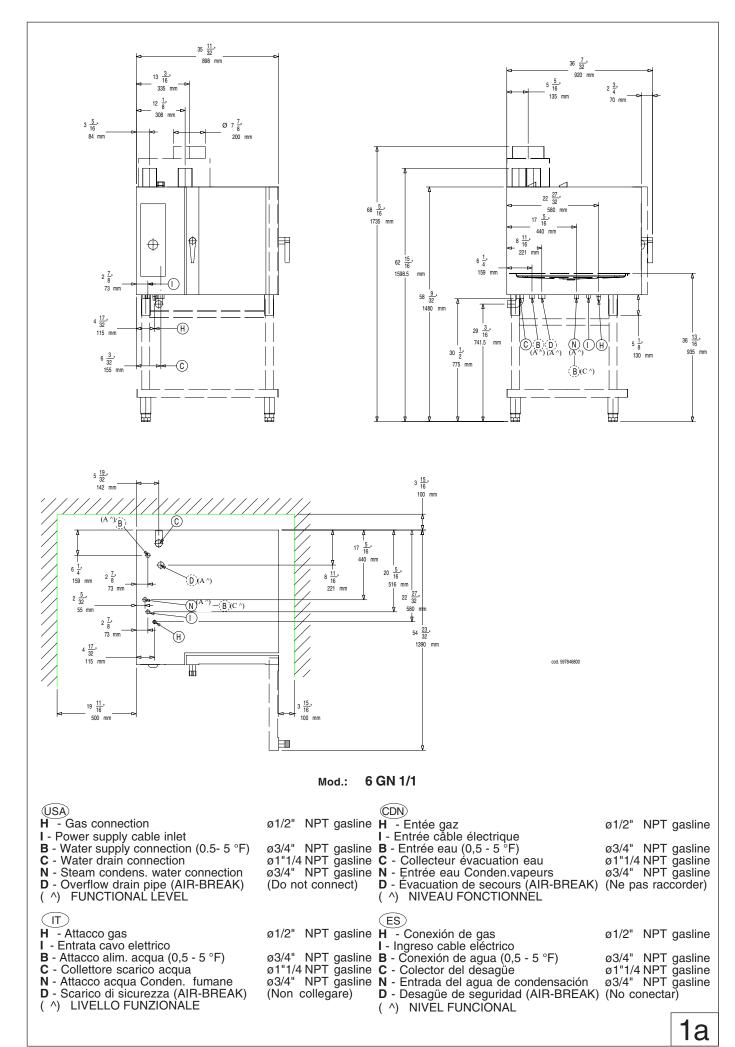
Leer todas las partes de este manual antes de llevar a cabo la instalación o de poner en marcha el aparato.

INSTALLATION DIAGRAM
 SCHEMI DI INSTALLAZIONE
 SCHEMAS D'INSTALLATION
 ESQUEMA PARA LA INSTALACIÓN

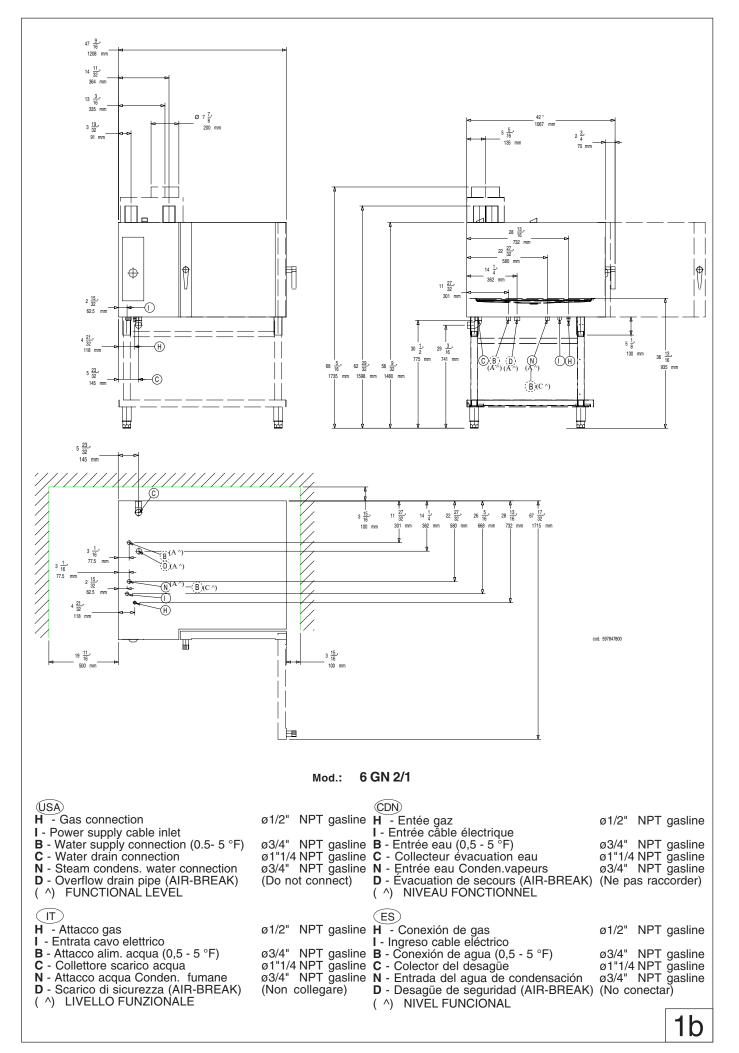


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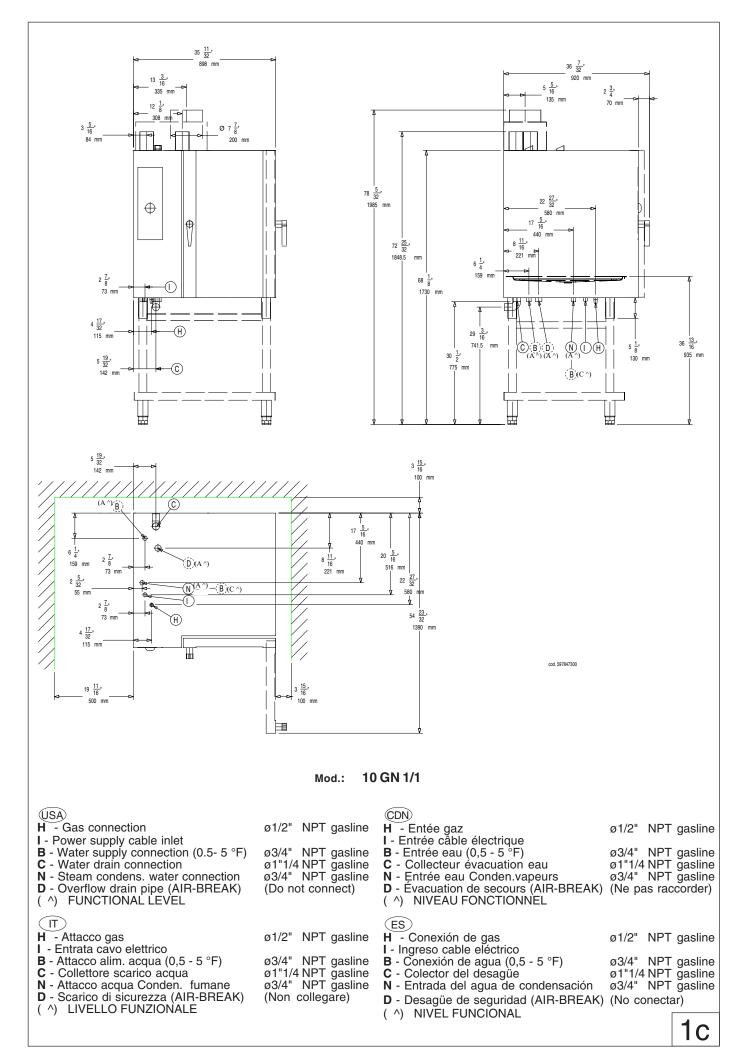




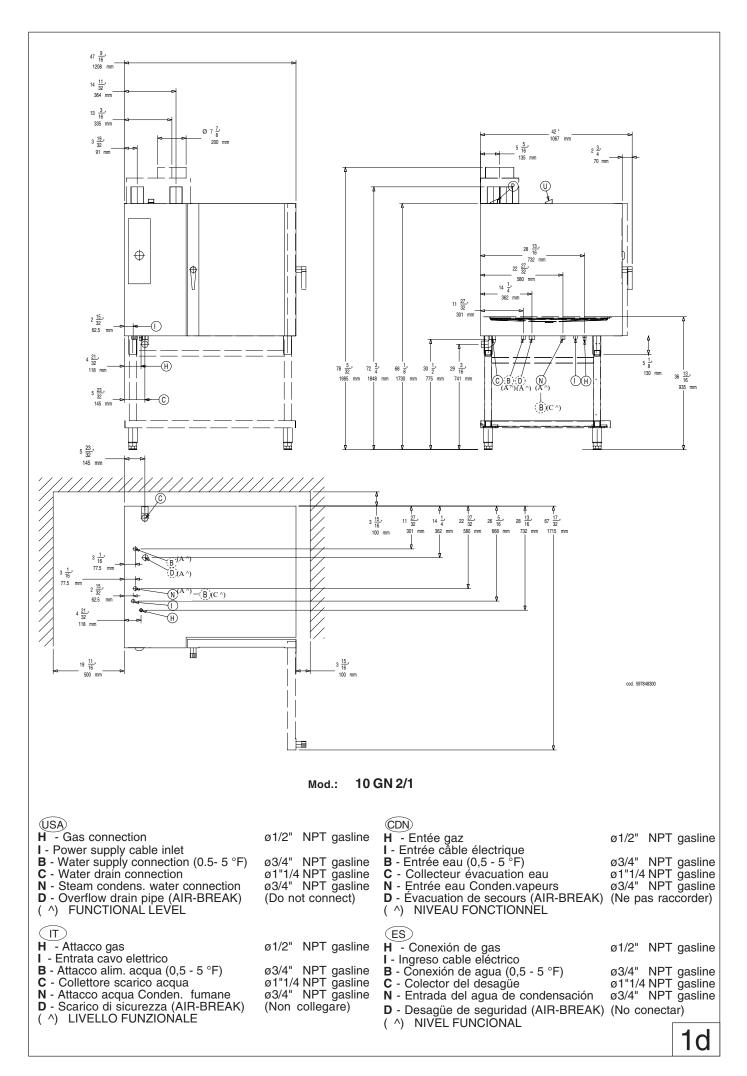




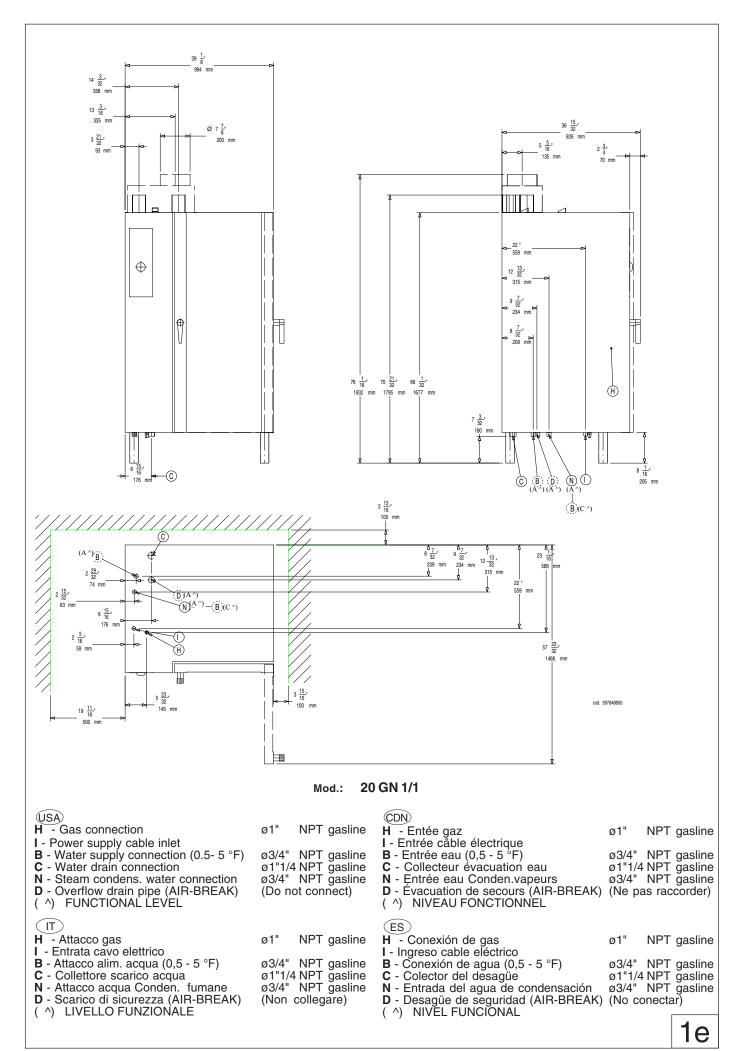




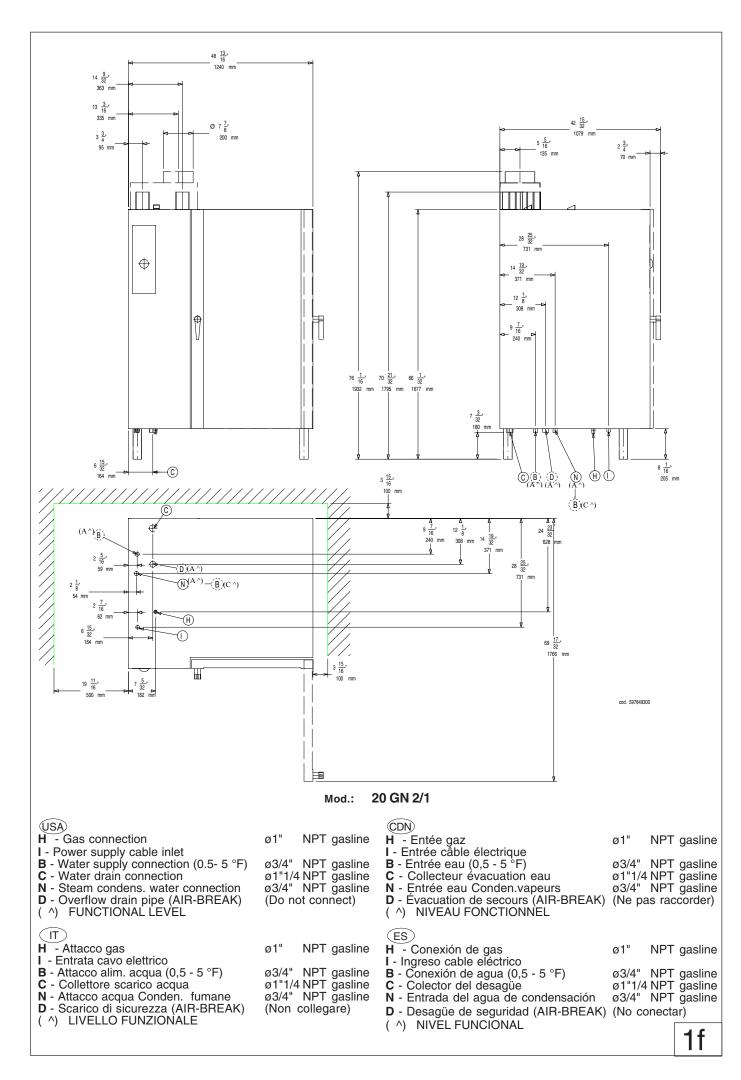












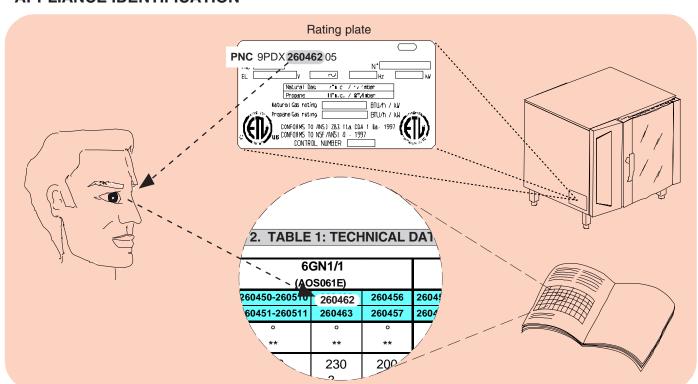
# **ELECTRIC COMBI - CONVECT OVENS**

# **INSTRUCTIONS FOR INSTALLATION AND USE**

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# - APPLIANCE IDENTIFICATION





# I. MAIN FEATURES

# 1. DESCRIPTION OF APPLIANCE

This booklet describes a number of appliance models. For more detailed information about the model in your possession, refer to "**Technical Data**" table 1.

The appliance has the following features:

- Digital temperature controlle.
- Thermostatic probe for measuring the core temperature of products (core temperature probe).
- Automatic flush to drain every two hour to prevent the build-up of lime-scale in the boiler.
- Periodic draining and automatic washing of the boiler to prevent the build-up of lime-scale (only available on certain models).

- Boiler lime-scale level indicator (see corresponding paragraph).
- Oven chamber automatic fast steam drain device for gratins.
- Air-break (anti-backup drain) device to prevent backflows from the drain system from entering the oven (only available on certain models).
- Halogen lighting in the cooking chamber.
- Double-action door opening **safety** mechanism designed to protect the user from scalding steam (only available on certain models).
- Double-glazed oven door for reduced heat dispersion into the kitchen and low temperatures on the exterior of the oven.
- Daily oven chamber cleaning cycle (CLEANING SYSTEM).
- Self-diagnostics system indicating oven faults using error codes (see "Information and error codes").

# 2. TABLE 1: TECHNICAL DATA

GRIDS	6 G	N 1/1	6 GI	N 2/1	10 (	SN 1/1	10 G	N 2/1	20 G	N 1/1	20 G	N 2/1
A^	267550		267551		267552		267553		267554		267555	
PNC * C^		269550		269551		269552		269553		269554		269555
CONVECTOR °	0	0	0	٥	0	0	0	0	0	0	0	0
BOILER **	**		**		**		**		**		**	
	120V											
SUPPLY VOLTAGE	1ph											
	60Hz											
	10amp	10amp	10amp	10amp	10amps	10amps	10amps	10amps	10amps	10amps	20amps	20amps
Total Watts	0,45 kW	0,45 kW	0,9 kW	0,9 kW	0,5 kW	0,5 kW	1 kW	1 kW	0,85 kW	0,85 kW	2 kW	2 kW
Maximum load capacities	66 lbs.	66 lbs.	122 lbs.	122 lbs.	110 lbs.	110 lbs.	220 lbs.	220 lbs.	220 lbs.	220 lbs.	440 lbs.	440 lbs.
(food)	(30 kg)	(30 kg)	(60 kg)	(60 kg)	(50 kg)	(50 kg)	(100 kg)	(100 kg)	(100 kg)	(100 kg)	(200 kg)	(200 kg)
	254 lbs.	254 lbs.	353 lbs.	353 lbs.	320 lbs	320 lbs	505 lbs	505 lbs	551 lbs.	551 lbs.	1058 lbs	1058 lbs
Net weight	(115 kg)	(115 kg)	(160 kg)	(160 kg)	(145 kg)	(145 kg)	(229 kg)	(229 kg)	(250 kg)	(250 kg)	(480 kg)	(480 kg)
	, ,,	, ,,	, ,,	` ,	, ,,	, ,,	, ,,	, ,,				` "
Shipping weight	287 lbs.	287 lbs.	386 lbs.	386 lbs.	364 lbs.	364 lbs.	538 lbs	538 lbs	617 lbs.	617 lbs.	1080 lbs	1080 lbs
•	(130 kg)	(130 kg)	(130 kg)	(130 kg)	(165 kg)	(165 kg)	(244 kg)	(244 kg)	(280 kg)	(280 kg)	(490 kg)	(490 kg)
Shipping width	38 3/4"inch	38 3/4"inch	44	44 11/16"inch	38 3/4"inch	38 3/4"inch	44	44 11/16"inch	38 3/4"inch	38 3/4"inch	44 11/16"inch	44 11/16"inch
Snipping width	(940 mm)	(940 mm)	(1135 mm)	(1135 mm)	(985 mm)	(985 mm)	(1135 mm)	(1135 mm)	(985 mm)	(985 mm)	(1135 mm)	(1135 mm)
	42	42	42	42	52	52	52	52	81	81	81	81
Shipping height	1/8"inch	1/8"inch	1/8"inch	1/8"inch	3/16"inch	3/16"inch	3/16"inch	3/16"inch	1/8"inch	1/8"inch	1/8"inch	1/8"inch
	(1040 mm)	(1040 mm)	(1040 mm)	(1040 mm)	(1325 mm)	(1325 mm)	(1325 mm) 44	(1325 mm)	(2060 mm)	(2060 mm)	(2060 mm)	(2060 mm)
Shipping depth	37 5/8"inch	37 5/8"inch	44 13/16"inch	44 13/16"inch	37 5/8"inch	37 5/8"inch		44 13/16"inch	41 3/4"inch	41 3/4"inch	51 3/16"inch	51 3/16"inch
	(980 mm)	(980 mm)	(1265 mm)	(1265 mm)	(955 mm)	(955 mm)	(1265 mm)	(1265 mm)	(1060 mm)		(1300 mm)	(1300 mm)
ISO 7/1 gas connectionDiameter	1/2" M	1" M	1" M	1" M	1" M							
Nominal heat output	68303.6	40982.1	122946	78549	136607.2	78549.1	177589.3	105870.5			379084.9	
NATURAL	btu/h											
Boiler unit nominal	(20 kW) 40982.1	(12 kW)	(36 kW) 61473	(23 kW)	(40 kW) 78549.1	(23 kW)	(52 kW) 102455.4	(31 kW)	(68 kW) 102455.4	(47 kW)	(111 kW) 218571.5	(64 kW)
heat output	btu/h	_										
NATURAL	(12 kW)	100001	(18 kW)		(23 kW)	=0=101	(30 kW)	1050505	(30 kW)	1005101	(64 kW)	0105515
Convector unit nominal heat output	40982.1 btu/h	40982.1 btu/h	78549 btu/h	78549 btu/h	78549.1 btu/h	78549.1 btu/h	105870.5 btu/h	105870.5 btu/h	160513.4 btu/h	160513.4 btu/h	218571.5 btu/h	218571.5 btu/h
NATURAL	(12 kW)	(12 kW)	(23 kW)	(23 kW)	(23 kW)	(23 kW)	(31 kW)	(31 kW)	(47 kW)	(47 kW)	(64 kW)	(64 kW)
Nominal heat output	61473.2	35859.4	110993	71719	126361.6	71718.8	160513.4	95625.0	208325.9	143437.5	334687.5	191250.0
PROPANE	btu/h											
Boiler unit nominal	(18 kW) 35859.4	(10.5 kW)	(32.5 kW) 54643	(21 kW)	(37 kW) 71718.8	(21 kW)	(47 kW) 88794.7	(28 kW)	(61 kW) 88794.7	(42 kW)	(98 kW) 191250.0	(56 kW)
heat output	btu/h	_										
PROPANE	(10.5 kW)		(16 kW)		(21 kW)		(26 kW)		(26 kW)		(56 kW)	
Convector unit nominal	35859.4	35859.4	71719	71719	71718.8	71718.8	95625.0	95625.0	143437.5	143437.5	191250.0	191250.0
heat output PROPANE	btu/h (10.5 kW)	btu/h (10.5 kW)	btu/h (21 kW)	btu/h (21 kW)	btu/h (21 kW)	btu/h (21 kW)	btu/h (28 kW)	btu/h (28 kW)	btu/h (42 kW)	btu/h (42 kW)	btu/h (56 kW)	btu/h (56 kW)
	NATURAL											
Gas type	PROPANE											
Construction type	А3	A3	А3	A3	А3							
Jonati detion type	B13											
Diagram of fumes discharge system	1a-1	b-1c										
NATURAL pressure	7"w c (17,4mbar)											
PROPANE pressure	11"w c (27,4mbar)											

**Noise emission data:** Noise emissions generated by the appliances described in this booklet do not exceed 70 dB (A).

 $<sup>\</sup>bigstar$  Your appliance model is indicated in the box marked **PNC** on the Identification dataplate affixed to the bottom left hand side of the oven.

<sup>^</sup> FUNCTIONAL LEVEL. (C = Convect)

# 3. PRECAUTIONS

- The following terms alert you to potentially dangerous conditions to the operator, service personnel or to the equipment.
- **Danger!** This term warns of immediate hazards which will result in severe injury or death.
- Warning! This term refers to a potential hazard or unsafe practice which could result in injury or death.
- **Notice**. This term refers to information that needs special attention or must be fully understood, even though not dangerous.
- Keep the appliance area free and clear from combustibles.

# Warning Fire hazard.

For your safety, do not store or use gasoline or other flammable, vapors and liquids in the vicinity of this or any other appliance.

Keep area around appliances free and clear of combustibles

### Warning!

Failure to properly vent the oven can be hazardous to the health of the operator; and will result in operational problems, unsatisfactory baking, and possible damage to the equipment. Damage sustained as a direct result of improper ventilation will not be covered by the Manufacturer's warranty.

NOTICE: INTENDED FOR COMMERCIAL USE ONLY. NOT FOR HOUSEHOLD USE.



**CAUTION HOT SURFACES** 



**CAUTION RISK ELECTRIC SHOCK** 

CAUTION: Do not locate unit adjacent to any high heat or grease producing piece of equipment, such as a range top, griddle, fryer, etc., that could allow radiant heat to raise the exterior temperature of the Oven.

• Carefully read this instruction booklet, as it contains important advice for safe installation, operation and maintenance.



• Keep this instruction booklet in a safe place for future reference.



• The installation of this unit must conform to local codes or, in the absence of local codes, to all National Codes governing plumbing, sanitation, safety and good trade practices.

**WARNING**: The equipment warranty is not valid unless the appliance is installed, started and demonstrated under the supervision of a factory trained installer.

**WARNING:** The unit must be installed by Personnel who are qualified to work with electricity and plumbing. Improper installation can cause injury to personnel and/or damage to the equipment. The unit must be installed in accordance with applicable codes.

Important: The installation instructions contained herein are for the use of qualified installation and service personnel only. Installation or service by other than qualified personnel may result in damage to the appliance and/or injury to the operator. FAILURE TO COMPLY WITH INSTALLATION INSTRUCTION OR IMPROPER INSTALLATION WILL VOID WARRANTY AND RESPONSIBLITIES OF THE MANUFACTURE.

- Our appliances have been studied and optimized to give the highest performance. This appliance is intended for industrial use only and is specifically designed to cook food. Any other use will be considered "improper use" and will void the warranty and manufacturer liability.
- This appliance is not intended for use by people (including children) with limited physical, sensory or mental abilities or without experience and knowledge of it, unless they are supervised or instructed in its use by a person responsible for their safety.

WARNING: ANY POTENTIAL USER OF THE EQUIPMENT SHOULD BE TRAINED IN SAFE AND CORRECT OPERATIONG PROCEDURES.

WARNING: BEFORE SERVICING, DISCONNET THE ELECTRICAL SERVICE AND PLACE A RED TAG AT THE DISCONNECT SWITCH TO INDICATED WORK IS BEING DONE ON THAT CIRCUIT.

**NOTICE:** Using any parts other than OEM original spare parts relieves the manufacturer of all warranty and liability.

NOTICE: Manufacturer reserves the right to change specifications at any time without notice.

Failure to comply with the above requirement may jeopardise the safety of the appliance and invalidate the guarantee. WARNING: DO NOT SPRAY THE OUTSIDE OF THE APPLIANCE WITH WATER OR CLEAN WITH A WATER JET. CLEANING WITH A WATER JET CAN IMPREGNAT CHLORIDES INTO THE STAINLESS STEEL, CAUSING THE ONSET OF CORROSION.



**WARNING:** DO NOT USE PRODUCTS CONTAINING CHLORINE (BLEACH, HYDROCHLORIC ACID ETC.) EVEN DILUTED, TO CLEAN STEEL SURFACES.

**WARNING**: DO NOT USE CORROSIVE SUBSTANCES (E.G. MURIATIC ACID) TO CLEAN THE FLOOR UNDER THE APPLIANCE.

# 4. SAFEGUARDING THE ENVIRONMENT

### 4.1 PACKAGING

• All the packaging materials used are environmentally safe and friendly. They may be stored without fear or danger. They may be recycled or burned in a special waste incineration plant. Recyclable plastic components are marked as follows:

polyethylene: external wrapping film, instructions

booklet bag and gas injectors bag

 $\bigcap_{nn}$ 

polypropylene: top packaging panels and straps

A PS

expanded polystyrene: protective surround elements

# 4.2 USE

• The appliance has been designed and perfected under laboratory testing conditions to offer exceptional levels of performance. However, to minimise energy consumption (electricity, gas and water), do not leave the appliance in operation for long periods without food in the oven chamber and avoid conditions that reduce efficiency (e.g. door open). We also recommend preheating the appliance immediately prior to use.

# 4.3 CLEANING

• To minimise the emission of pollutants into the environment, clean the appliance (externally and, where necessary, internally) with products that are at least 90% biodegradable.

### 4.4 DISPOSAL

- Appliances that have reached the end of their service life should be suitably disposed of.
- The appliance is made from more than 90% recyclable materials (stainless steel, iron, aluminium, galvanised sheet steel, etc.).
   These materials may therefore be scrapped in accordance with local waste disposal regulations at a conventional recycling plant.
- Make the appliance unusable by cutting off the power cord. Also remove any compartment or interior closure device fitted on the appliance to prevent persons from becoming trapped inside.

# II. INSTRUCTIONS FOR INSTALLATION

**Important**: The oven outer panels must be removed to perform the operations described in this chapter. Since the appliance must be switched on to make certain adjustments, exercise the utmost care when working in the vicinity of live electrical parts.

# 1. PLACE OF INSTALLATION

### 1.1 VENTILATION

The necessity for a properly designed and installed ventilation system cannot be over emphasized. The ventilation system will allow the unit to function properly while removing unwanted vapors and products of combustion from the operating area.

The appliance must be vented with a properly designed mechanically driven exhaust hood. The hood should be sized to completely cover the equipment plus an overhang of a least 6"/15.3cm on all sides not adjacent to a wall. The capacity of the should be sized appropriately and provisions for adequate makeup air.

Refer to your local ventilation codes. In the absence of local codes, refer to the National ventilation code titled, "Standard for the Installation of Equipment for the Removal of Smoke and Grease Laden Vapors from Commercial Cooking Equipment", NFPA-96-Latest Edition.

It is recommended that the ventilation system and duct work be checked at prevailing intervals as specified by the hood manufactured

• The appliance must only be installed in adequately ventilated premises.

**NOTICE:** Proper ventilation is the owner's is responsibility. Any problem due to improper ventilation will not be covered by the warranty.

# 1.2 REFERENCE STANDARDS

**Note:** The electric supply installation must satisfy the requirements of the appropriate statutory authority, such as the National Electrical Code (NEC) ANSI/NFPA70, (U.S.A..): the Canadian Electrical Code, CSA C22.2; or other applicable regulations.

**Note:** The electric supply connection must meet all national and local electrical code requirements.

**Note:** The installation of this unit must conform to local codes or, in the absence of local codes, to all National Codes governing plumbing, sanitation, safety and good trade practices, and to the National Gas Code ANSI Z223.1.

• Local codes regarding installation vary greatle from one area to another. This equipment is to be installed to comply with the applicable federal, state or local codes.

The installation instructions contained herein are for the use of qualified installation and service personnel only. Installation or service by other than qualified personnel may result in damage to the appliance and/or injury to the operator.

FAILURE TO COMPLY WITH INSTALLATION INSTRUCTION OR IMPROPER INSTALLATION WILL VOID WARRANTY AND RESPONSIBLITIES OF THE MANUFACTURE.

The National Fire Protection Association, Inc states in its NFPA 96 latest edition that local codes are the "authority having jurisdiction" when it comes to installation requirements for equipment. Therefore, installations should comply with all local codes.

# 1.3 UNPACKAGING

- Remove the appliance from the packaging and take away the protective film that covers the appliance's external panels carefully to avoid leaving any trace of glue. If necessary remove the glue using an a non-corrosive solvent, rinsing it off and drying carefully.
- $\bullet$  Dispose of packaging material in compliance with the regulations in force in the country where the product is to be used.

# 1.4 IMMEDIATELY INSPECT FOR SHIPPING DAMAGE

The container should be examined for damage before and during unloading. The freight carrier has assumed responsibility for its safe transit and delivery. If damaged equipment is received, either apparent or concealed, a claim must be made with the delivering carrier. Apparent damage or loss must be noted on the freight bill at the time of delivery. The freight bill must then be signed by the carrier representative (Driver). If the bill is not signed, the carrier may refuse the claim. The supply can supply the necessary forms. A request for inspection must be made to the carrier within 15 days if there is concealed damage or loss that is not apparent until after the equipment is uncrated. The carrier should arrange an inspection. Be certain to hold all contents plus all packing material. Under no circumstances should a damaged appliance be returned to the manufacturer without prior notice and written authorization.

# 2. POSITIONING

- Refer to the installation diagrams at the beginning of this booklet for the space requirements and connection dimensions of the appliance.
- Clearance of approximately 23.62" (50cm) must be left between the appliance's left side panel and adjacent structures in order to provide space for maintenance operations when needed; the right side panel and the rear panel of the appliance must be at least 1.97" (5cm) from adjacent structures.
- Place the appliance in the required position and level the oven with a slight pitch toward the rear to help drain water from chamber using the appropriate bullet feet.
- The appliance is not suitable for built-in installation.

**Warning:** The oven must be installed on an even (level) non-flammable flooring and any adjacent walls must be non-flammable. Recommended minimum clearance are specified in this manaul.

### Important:

Make sure steam from the oven's drain or adjacent appliances does not enter the aeration vents under the appliance, designed to cool internal components located at the bottom of the appliance.

# 3. COMBUSTED GAS DISCHARGE

# 3.1 FOREWORD

In relation to the combustion technology utilised, gas fired steam/convection ovens are classified in accordance with their "Construction Type". For each of these types of appliances applicable regulations stipulate a specific type of combusted gas discharge system.

Consequently, before installing the discharge system:

- a) identify the "Construction type" of your model in Table 1 (technical data) or by checking the appliance identification dataplate:
- b) choose the diagram with the type of construction among those shown as follows (fig. 1a-1b-1c), depending on how you intend to exhaust the appliance fumes from the place of installation (e.g. discharge under extraction hood, direct to the outside, or in a central flue).

# 3.2 WARNINGS REGARDING THE FLUING SYSTEM

Before installation check, on the basis of the contents of the reference standard, to ensure that the volume aspirated by the fumes exhausting system is greater than the volume of combusted gas produced by the appliance (see point 1.1).

If the solution of combusted gas discharge under an extractor hood is chosen, observe the distance (shown in the figure) between the top of the discharge pipe and the lowest point of the hood filters. This distance is defined on the basis of discharge pipe diameter "D".

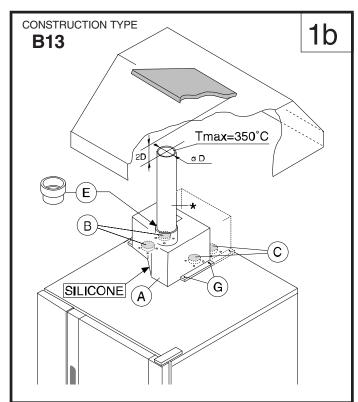
In the case of discharge direction to the outside or into a central flue (Fig. "1c"), the discharge ducts must NOT present an overall length in excess of 762"(3 metres), must NOT have any reductions in diameter, and must be subjected to periodic inspection and, when necessary, cleaning.

**Warning:** Since combusted gas (see figure) can reach very high temperatures, check the heat resistant properties of extension ducts if fitted and the filters in the extractor hood to ensure the materials are compatible with the temperature conditions. In addition, periodically check the condition of the filters which, if excessively fouled with fat and dirt, will reduce the efficiency of the suction system and may catch fire.

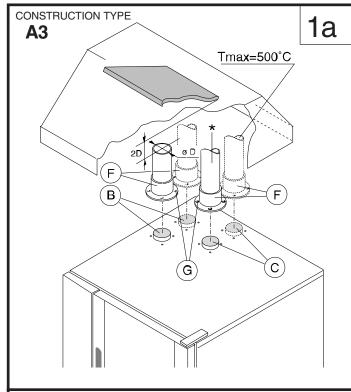
# 3.3 INSTALLATION OF ACCESSORIES

Accessories can be easily installed by following the figures below together with the relative key.

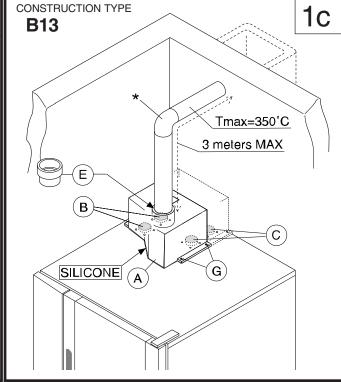
The screw holes for fixing accessories "A" and "F" are 0.14"(3.5 mm) in diameter and they must be drilled in-situ on the oven cover in correspondence with the punch marks.



DISCHARGE WITH SHROUD UNDER EXTRACTOR HOOD



DIRECT UNDUCTED DISCHARGE UNDER EXTRACTOR HOOD



DISCHARGE TO THE OUTSIDE OR CENTRAL FLUE WITH SHROUD

# LEGENDA:

- A: Cam / draught damper accessory (to be ordered from manufacturer)
- B: Boiler combusted gas discharge
- C: Oven chamber convector combusted gas discharge
- E: Adapter ring for commercial ducts (to be ordered from manufacturer)

- F: Conical connections for single outlet (supplied)
  (always install)
- **G**: Fixing screws (supplied):
- \*: Commercial extension pipes (not supplied)

# SILICONE:

Apply silicone sealant between contact surfaces

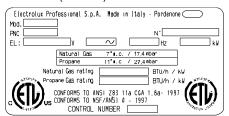
# 4. ELECTRICAL CONNECTION

- A fused disconnect switch or main circuit breaker (customer furnished) MUST be installed in the electric supply line for the appliance. It is recommended that this switch/circuit breaker have lockout/tagout capability. Before making any electrical connections to this appliance, check that the power supply is adequate for the voltage, amperage, and phase requirements on the rating plate.
- A safety cutout switch of suitable capacity with a contact breaking distance of at least 3 mm must be fitted upstream of the appliance.
  - The cutout switch must be installed near the appliance in the permanent electrical system of the premises.
- The appliance must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.2, as applicable.

The grounding conductor must therefore be connected to the terminal marked  $\pm$  on the connection terminal board. The appliance must also be connected to an earth grounding system.

This connection is made using the stop screw marked  $\forall$  located on the outside of the appliance near the power cable inlet.

The grounding wire must have a minimum cross-section of 8 AWG (10 mm²).



**RATING PLATE** 

# 4.1 INSTALLING THE POWER SUPPLY CABLE

To access the power supply cable connection terminal board, proceed as follows:

# Model 6 - 10 - 20 GN

- Remove the left side panel.
- Connect the power supply cable to the terminal board according to the instructions given in the wiring diagram and fasten the power supply cable by means of strain-relief fitting (not furnished with the oven).

Failure to comply with safety rules and regulations relieves the manufacturer of all liability.

The manufacturer requires when stacking units each appliance have its own branch circuit protection. An oven unit stacked with an blast chiller unit should have a separate protection for the upper and lower units.

# 5. WATER MAINS CONNECTION

(Refer to the installation diagrams at the beginning of this booklet).

This equipment is to be installed to comply with the applicable Federal, State, Local plumbing codes, or the Basic Plumbing Code of the Building Officials and Code Administrators International Inc. (BOCA) and Food Service Sanitation Manual of the Food and Drug Administration (FDA).

When connecting the appliance to the water system with flexible tubes they must be new and not used.

The appliance is fitted with two separate water inlets ("B" and "N"). The water lines supplying both inlets must be fitted with a mechanical filter and shut-off valve (keeping with local plumbing codes).

Before fitting the filters allow the water to flow out for sufficient time to flush any solid particles from the piping.

### 5.1 WATER SUPPLY CONNECTIONS

# 5.1.1 WATER INLET "N".

### **Attention**

The water supply pipe (not supplied) must have a 3/4" dia (20 mm) pipe and must be without elbow fittings.

The steam condensation system must be connected to a cold quality water supply in keeping with local plumbing codes, with the following characteristics:

- **total hardness: total hardness:** up to 400ppm (40°fH); in ovens equipped with CLEANING SYSTEM it is advisable to use water of hardness no higher than 50ppm (5°fH).
- **pressure:** 22 to 36 psi (150-250 kPa); higher pressure values result in increased water consumption.

#### Noto

To check correct water installation, make sure the rotating wash arm (CLEANING SYSTEM) does not turn below 100 rpm (120 max).

### 5.1.2 WATER INLET "B".

(water pipe supplied)

The steam production system must be connected to a quality water supply in keeping with local plumbing codes, with the following characteristics:

- total hardness: 5 - 50ppm (0.5 - 5  $^{\circ}$ fH) to reduce the buildup of lime-scale inside the boiler.

On request the oven is supplied with an optional water softener with automatic regeneration which must be installed on inlet line "B". This device can also be fitted with an optional resin sanitizer kit.

- **pressure:** 22 to 36 psi (150-250 kPa); higher pressure values result in increased water consumption.
- **chlorine ion concentration (CI-)**: not more than ~10 ppm (acceptable value) to avoid damaging the oven's internal steel parts.
- **pH:** over 7.

The oven can be equipped with an optional special filtration unit which is installed on inlet line "B". This unit also acts as a water softener, reducing water hardness to less than 50ppm (5 °fH) (optimum value).

- electrical conductivity: 50 to 2000 μS/cm (68°F)(20°C).

**Important**: The use of water treatment systems featuring technology that differs from that of the systems supplied by the manufacturer is prohibited and will automatically invalidate the warranty.

The use of dosing systems designed to prevent the buildup of lime-scale in pipes (i.e. polyphosphate dosing systems) is also prohibited since such systems may impair the performance of the appliance.

# **5.2 WATER DRAIN SYSTEM**

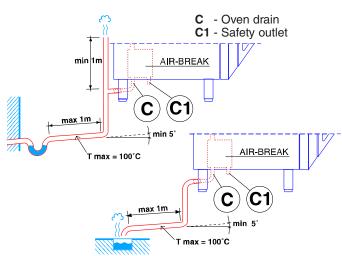
# - OVEN level A -

The oven is supplied with an air-break system to prevent any backflow from the drainage system from reaching the oven's internal circuits and the cooking chamber. The presence of this system means that the drain pipe can be connected directly to the mains drainage system or routed to a floor gulley with grating

The flexible drainage hose or rigid pipe can be directed to the side or rear of the appliance if the oven is not positioned against a wall; this line must not be directed towards the front of the appliance to prevent interference with roll-in grid racks. The drainage pipe internal diameter must be no smaller than the oven drain outlet (1 1/4"), no longer than 3 feet (1 metre) and must

resist temperatures of up to at least 212°F (100°C). Avoid restrictions in the case of flexible hose pipes, do not fit elbows on metal pipes anywhere along the drainage line. Also avoid horizontal sections in which water might collect (minimum gradient 5%).

# WARING: BLOCKING THE DRAIN IS HAZARDOUS.



### Important:

- Do not obstruct the safety outlet C1.
- Do not connect the safety outlet **C1** to the drainage system.

#### Note:

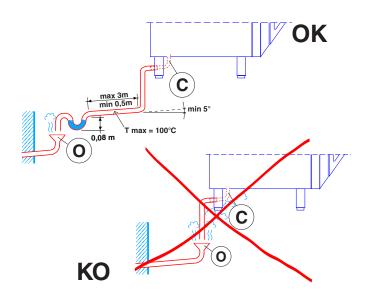
If water comes out of the AIR-BREAK (safety outlet C1) this means the drain C is blocked. Any elimination of the obstruction **must be carried out by specialised technical personnel.** 

### - OVEN level C -

Connect drain fitting "C" to a drain pipe of the same diameter which is between 0.5 and 3 metres in length and is resistant to temperatures of at least 100°C. The drain pipe must be siphoned (height 80 mm) to an open drain "O" ("Air-Break") or floor grating (see Fig. 12b) in order to prevent any back-flow from the sewage system from reaching the piping inside the oven or oven chamber. Check the hoses and elbows on metal pipes for kinks or pinching along the entire drain line and make sure the drain line has a minimum gradient of 5° to prevent water from collecting inside the

system.

**Important**: The drain system must be installed so that any vapours from the open drain do not enter the aeration vents under the appliance.



# 6. GAS CONNECTION

### 6.1 WARNINGS

- Make sure the appliance is set up for the type of gas with which it will be supplied.
- The gas inlet connector is yellow in colour.
- Before installing consult your local gas utility company to check the compatibility between the available supply and the consumption of the appliance.
- Before hooking up the appliance to the gas pipeline remove the plastic protective plug from the gas connector.
- Fit a rapid gas shut-off cock upline from the appliance in an easily accessible position.
- On completion of installation, use soapy water to check gas connections for leaks.
- It is not possible to adjust the combustion air ventilation capacity.
- If the appliance is hooked up to a supply with a different gas type with respect to the factory setting, after making the necessary changes check that it is working correctly (see heading 8 "Operation Check").

### **6.2 NOMINAL HEAT OUTPUT**

For data concerning the **nominal heat output** refer to "**Technical Data**" in Table 1.

This parameter is determined by the pressure of the gas supply and the diameter of the gas valve diaphragm (nozzle).

The appliance nominal heat output must always be checked (by the authorised installer or by the gas utility company), both in the case of new installations or following maintenance work.

It is strictly prohibited to make changes to the nominal heat output.

# 6.3 CHECKING THE SUPPLY PRESSURE (Fig. 2a)

The gas supply pressure must be measured upline from the gas shut-off cock with the appliance operating, using a pressure gauge with minimum resolution of 0.1 mbar and proceeding as outlined below:

- 1) Remove the left hand side panel to gain access to the gas valve;
- 2) Loosen sealing screw "C" from the gas valve pressure test point and connect the pressure gauge hose in its place;
- 3) Open the gas shut-off cock;
- 4) Start a mixed cooking cycle (see "Instructions for use") in such a way that all the burners can be lit;
- 5) Check that the pressure reading is within the values given in the following table:

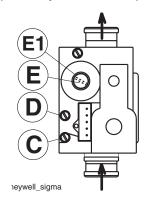
# GAS TYPE PRESSURE (MBAR)

	Nom.	Min.	Max.
NATURAL	7"wc (17,4mbar)	3"wc (8,7mbar)	10"wc (26,1mbar)
PROPANE	11"wc (27,4mbar)	8"wc (19,9mbar)	13"wc (32,3,4mbar)

# If the values are not within the values shown in the table the appliance will not function.

In this case inform your gas utility company of the problem;

- 6) Once you have measured the supply pressure stop the cooking cycle and close the gas shut-off cock.
- 7) Disconnect the pressure gauge and carefully refit and tighten sealing screw "C";
- 8) Refit the previously removed side panel.



2a



# 7. SAFETY DEVICES

The appliance is fitted with the following safety devices:

- Fuses (see electrical circuit diagram) located behind the control panel.

To change a fuse unscrew and remove the retainer cap and replace the blown fuse with an identically rated component; the fuse rating value is specified on the relative dataplate.

- Oven chamber safety thermostat with manual reset, located behind the control panel; when this device trips, convection heating power is disconnected.

Notice: CONTACT YOUR AUTHORIZED SERVICE COMPANY TO PERFORM MANINTENANCE AND REPAIRS.

- Automatic reset **thermal protection** inside the **cavity fan motor:** this device trips in the event of overheating of the cavity fan motor; this cut-out protects the appliance by disconnecting the power supply to the main PC board and an error message is display EFUN.

# 8. OPERATION CHECK

- Switch on the appliance in accordance with the following section "Instructions for use".
- With the aid of the Instruction Booklet, explain operation, routine maintenance, and cleaning to the user.

### Important:

- Exercise due care since certain areas of the oven exterior become hot during use.
- Do not cover the exhaust outlets on top of the appliance.

# 9. SERVICING

All components requiring routine maintenance may be easily reached by opening the control panel, removing the left side panel, or removing the rear panel.

**Danger:** Live voltage is present with panels removed and unit switch on. Exercise extreme caution when work with live voltage.

**NOTICE:** Using any parts other than OEM original spare parts relieves the manufacturer of all warranty and liability.

# 10. TROUBLESHOOTING

Malfunctions may occur even when the appliance is used correctly.

Burner fails to light (message "burn" appears on display TM , see "Instructions for use" chapter 5).

Possible causes:

- The ignition electrode is incorrectly positioned or the insulation is damaged. The optimum distance from the outside of the electrode to the boiler burner is approximately 5 mm(8mm Mod. 20 GN1/1), while the equivalent distance for the convector burner is approximately 4.5 mm.
- The ignition / flame control device is damaged.
- The ignition electrode high tension lead is broken or shorting to ground.
- Insufficient gas pressure.
- Faulty gas valve.
- Burner an unit damaged, insufficient air pressure in combustion chamber.
- Electronic control panel is damaged.
- Blown fuse, check electrical diagram.
- Oven chamber temperature probe damaged (error EPt1 see

"Instructions for use" chapter 5).

- Temperature limiter trip.
- High room air humidity (condensation): ventilate the kitchen.

**Burner flame extinguishes** (message "burn" appears on display TM, see "Instructions for use" chapter 5).

Possible causes:

- Power supply polarity (Phase/Neutral) inverted.
- Electrical supply to oven is "Phase/Phase" type. In this case fit the special "Transformer Kit" available from the manufacturer on request.
- Faulty gas valve.
- Flame detector electrode incorrectly positioned or in open circuit.
- Burner fan unit damaged (lockout situation).
- Flame control device damaged
- High room air humidity (condensation): ventilate the kitchen.

# Oven chamber temperature thermostat control is incorrect. Possible causes:

- Electronic control panel faulty.
- Oven chamber temperature probe is dirty, faulty, or interrupted, see error EPt1 (see "Instructions for use" chapter 5).

Oven fails to turn on. Possible causes:

- Electronic control panel is damaged.
- Fuse F2 blown due to damaged control circuit components.

# Oven chamber lamps damaged

**CAUTION:** Before changing oven chamber lamps switch off the appliance.

# 11. LAYOUT OF MAIN COMPONENTS

(All work inside the appliance must be carried out exclusively by a trained installer authorised by the manufacturer)

Removing the control panel provides access to the following components:

**Danger:** Live voltage is present with panels removed and unit switch on. Exercise extreme caution when work with live voltage.

- Electronic circuit boards
- Oven chamber temperature limit thermostat
- Fuses
- Door microswitch
- Oven chamber lamp transformer
- Geared motor for the oven chamber pressure relief butterfly valve.

**WARNING:** Before servicing unit switch off power at the main circuit breaker and place a red tag on the breaker to indicate work is being done on the circuit.

Remove the appliance left hand side panel to gain access to all the other components.

# **III. INSTRUCTIONS FOR USE**

Before switching on the appliance, read this instruction booklet carefully because it contains important information concerning correct use of the appliance. If you require further information about the oven's features and cooking performance, consult your local dealer.

ANY POTENTIAL USER OF THE EQUIPMENT SHOULD BE TRAINED IN SAFE AND CORRECT OPERATING PROCEDURES.

- This appliance is intended for industrial use only and is specifically designed to cook food. Any other use will be considered "improper use" and will void the warranty and manufacturer liability.
- Do not place pans or utensils on top of the oven. Avoid obstructing the fumes and steam exhaust outlets.
- Periodically the appliance should undergo a general inspection. For this purpose we recommend taking out a service contract.
- The core temperature probe is a precision instrument and must be handled with care. Avoid knocks, do not apply excessive force when inserting the probe, and do not pull on the lead (take care particularly when using roll-in racks). The warranty e does not cover damage to the temperature probe caused by improper use.
- When using the **mixed** cooking cycle, do not exceed cooking temperatures of 392-410°F. Higher temperatures might impair the performance of the oven chamber seals.
- When placing food in the oven leave a gap of at least 1.5"(40 mm) between each pan to facilitate circulation of hot air.
- If the oven is installed near appliances that produce greasy fumes (e.g. fryer), make sure to use the **air filter** (not supplied), to be placed under the **control panel**, to protect the internal electronic components.
- During **preheating** of the oven 20 GN 1/1 or 2/1, insert the trolley (without food) to close the bottom opening between the compartment and door. This prevents steam from coming out and into the control panel with consequent damage to the electronic board.
- Do not add salt to foods when inside the oven chamber, particularly during cooking cycles with humidification.
- Do not cook with flammable liquids such as alcoholic spirits.

# **Attention**

Cooking containers can not be inserted at a height greater than 63" (1.6m) from the level where the user operate.

If supporting accessories other than the original ones are to be used, do not exceed the above specified height since this could result a spill hazard caused by hot cooking liquids (sauces, oil, melted fat, etc...) contained in the uppermost pans, which are not visible during handling operations.

# 1. OPENING THE OVEN DOOR

# 1.1 6- AND 10-GRID MODELS

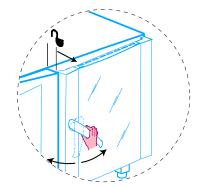
Important! Risk of burns.

Open the door with due care when the appliance is hot.



a) Turn the door handle all the way in either direction (indifferently) to fully open the oven door.

If there is a cooking program in progress it will be interrupted.

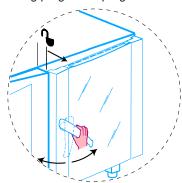


# MODELS with SAFETY SYSTEM (by request)

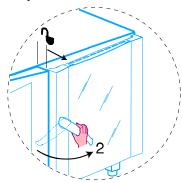
The oven is equipped with a **safety system** to protect the user against scalding steam when the door is opened wide. Proceed as follows:

a) Turn the oven door handle clockwise as far as it will go.
 The door opens slightly and is arrested by the door safety device.

If there is a cooking program in progress it will be interrupted.



b) Turn the handle all the way counter-clockwise to open the oven door fully.



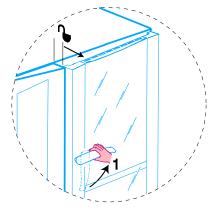
# 1.2 20-GRID MODELS

Important! Risk of burns.

Open the door with due care when the appliance is hot.



a) Turn the handle 90° anticlockwise to open the door fully. If there is a cooking program in progress it will be interrupted.



# 2. CLOSING THE OVEN DOOR

### 2.1 6- AND 10-GRID MODELS

To close the oven door press it until it locks.

# 2.2 20-GRID MODELS

- a) Turn the door handle anticlockwise as far as it will go and press the door closed against the oven.
- b) Keeping the door pressed closed, lock it by turning the handle to the vertical position.



# 3. DESCRIPTION OF THE CONTROL PANEL

### 3.1 INTRODUCTION

To aid understanding of the operation of the oven, find the folding double page showing the control panel for your model among those included at the back of this handbook and then open it out and keep it open while reading this section.

The following headings describe all the functions available on the various models in the range.

Some functions are shared by all models, others are available on specific models.

# 3.2 MAIN CONTROLS



Main switch



Cooking cycle/program start/stop.

### 3.3 MAIN COOKING MODES



**Air-convection cycle: To** roast and gratin with a maximum temperature of 572°F(300°C)



**Mixed cycle**: superheated steam. Uses the oven chamber heaters and steam generation system at the same time to keep food soft (maximum temperature 482°F)(250°C).



**Steaming cycle**: ideal for steam cooking (operating temperature automatically set at 212°F)(100°C).

You can set **low temperature steam** for gentle cooking of foods in vacuum packs and for thawing (temperature from 77°F to 210°F)(25° to 99°C).

10=20=30=40=50=60=70=80=90:100



**Displaying the humidity value**: allows you to display the humidity level of the **air-convection**, **mixed** and **regeneration** cycles.





**Digital thermometer/thermostat:** to control the temperature in the oven chamber.





Timer to control cooking time.

**Digital thermometer/thermostat**: to control product core temperature.

### 3.4 SPECIAL COOKING MODES



### **Utilities**

Functions useful for the type of cooking to be executed.



**Pause phase**: set a time in this mode to delay the start of cooking programs or to set a pause interval between two cooking cycles (e.g. for dough proving).



**Regeneration cycle**: gives ideal humidity conditions for rapid heating of products to be regenerated (maximum temperature 482°F)(250°C).

The regeneration program is composed of a single phase with the following characteristics:

- a special cycle with controlled humidity of 20 % (adjustable if required);
- preset temperature of 248°F (120°C)(can be altered if necessary);
- use of maximum power;
- a preset time of 30 minutes (adjustable if required) and once started, remains active with door open or closed.

DANGER: CAVITY FAN AND STEAM WILL CONTINUE TO OPERATE WHEN DOOR IS OPEN. WHEN IN REGENERATION CYCLE. OPEN DOOR SLOWLY TO AVOID THE RISK OF BURNS.

Alternatively to the set cooking time it can also accept **Cont** cooking time or the core probe.

# HOLD

**Cook and hold cycle**: for long slow cooking, typically for meat (large piece of meat for roasting).

It can be used in combination with **convection**, **mixed**, **steam** and **regeneration** modes.

# **HACCP**

HACCP: serves to record the cooking program in compliance with HACCP standards (Hazard Analysis and Critical Control Points). Depending on the system requested you can record cooking data on a dedicated printer or directly on a PC.



**Clean Cycle:** automatic or semiautomatic oven cleaning cycle (see section 7. CARE AND MAINTENANCE).





Low speed cycle (fan): for delicate cooking such as for baking cakes. Can be combined with any other cycle.



**Reduced power cycle (heating)**: for delicate cooking such as for baking cakes. Can be combined with any other cycle.



**Cooking with ECO-DELTA**: for cooking large pieces of food (5kg and above, e.g. whole turkey, leg of pork, etc.).

In this cooking mode a temperature setting of between 1°C and 120°C is chosen.

In this case, cooking is moderate and long, because the CHAMBER temperature is automatically adjusted according to that inside the food (CORE PROBE), maintaining a constant difference (ECO-DELTA) between them, from start to end of cooking. E.g:

COOKING:		START		END	
ECO-DELTA	=	80° 8080	80	80°C	(set)
CORE PROBE	=	10° 1112	40	60°C	(set)
CHAMBER	=	90° 9192		120	140°C
(result)					



**Air-convection cycle with oven chamber vent open**: suitable for very dry cooking cycles; allows evacuation of humidity when necessary (maximum temperature 572°F)(300°C).



Door open indicator LED.



**Limescale LED:** when this LED starts flashing the boiler needs to be descaled. Follow the instructions in section 7.



### **Boiler status LED:**

- LED off: boiler ready;
- LED flashing: boiler filling or no water. Make sure the oven water supply is working!

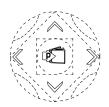


**Cooking parameter adjustment:** allows adjustment of cooking values (humidity, temperature and time).



**Automatic sequence phases**: to execute a 2-phase cooking cycle switching from one phase to the other automatically (LEVEL **C** ONLY).

### 3.5 ADDITIONAL FUNCTIONS





Set of controls for management of the programs library: control keys to store, edit or delete cooking programs (LEVEL A only).



**Program selector**: to find and select the cooking programs stored in the memory (LEVEL **A** only).



**Manual water injection into cooking chamber:** serves to boost humidity levels during the cooking cycle.



**Boiler manual water draining:** press this button to drain the water from the boiler.

Important! To prevent the build-up of lime-scale inside the boiler:

- Make sure the water supply corresponds with the required characteristics - see Installation.
- Always empty the boiler at the end of each day.



**Rapid oven cooling:** useful for passing from one type of cooking to another that requires a lower temperature; it allows the fan to run and automatic water (TS  $< 356^{\circ}$ F)(180°C) injection even when oven door is open.

Important! Risk of burns.

Open the door with due care when the appliance is hot.

Before using the oven check that:

- the external safety electric switch is on;
- the water and gas supply valve is open;
- the fumes and steam discharge outlets are not blocked.

# **USING THE OVEN**

# **OPERATING LEVEL**

# A and C

(C = Convect)

# 4. INTRODUCTION

Cooking of food is carried out by heating it and can be achieved in a specific MODE, at a specific TEMPERATURE, a specific TIME and HUMIDITY level. Therefore these parameters must be set in order to execute a COOKING CYCLE.

On this basis, the oven functions mainly by carrying out the operations shown in the following headings:

### --- SETTING THE COOKING CYCLE ---

- SELECTING COOKING MODE
- SETTING COOKING TEMPERATURE
- SETTING COOKING TIME
- SETTING AND USING THE PROBE
- SETTING COOKING HUMIDITY
- COOKING CYCLE START

There are also several other headings illustrating support functions such as:

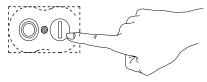
- MANUAL CYCLE (CONTINUOUS COOKING)
- UTILITIES
- COOKING PHASES IN AUTOMATIC SEQUENCE

Lastly there is a heading describing the storage of cooking cycles as recipes (e.g. CHICKEN RECIPE) or programs, entitled:

- STORING RECIPES OR PROGRAMS

# 4.1 SWITCHING THE OVEN ON

To switch the oven on press button I of this switch:

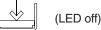


The following will occur:

- the relative button lights up;
- the control panel switches on and various functions flash;
- the Thermometer/Thermostat **TS** display shows the oven chamber temperature;
- the oven chamber lamp switches on;

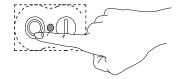


- boiler ready



# 4.1.1 SWITCHING THE OVEN OFF

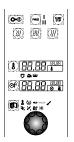
To switch the oven off press button **O** of this switch:



# 4.2 SELECTING THE CONTROLS (MANUAL or AUTOMATIC)

The control panel is divided in two parts, one for MANUAL controls and the other additional section for AUTOMATIC controls.

MANUAL controls



AUTOMATIC controls



Use one of the two control modes according to your cooking needs in the level **A** oven.

The level C oven is equipped exclusively with MANUAL controls.

# 4.3 MANUAL CONTROLS

### SETTING THE COOKING CYCLE

### 4.3.1 SELECTING COOKING MODE

After SWITCHING THE OVEN ON select one of the following cooking modes by pressing the relative illuminated button (button lights up):









Set the cooking parameters as indicated in the following paragraphs.

### Note

The temperature and time displays flash for 5 seconds awaiting setting; if no value is set, the preset value (default value) will remain stored, which stops flashing.

# 4.3.2 SETTING THE COOKING TEMPERATURE

Press the following illuminated button (button lights up) to select cooking temperature:



The relative DISPLAY was show the TEMPERATURE in the CHAMBER (large numbers) and the TEMPERATURE TO BE SET (small numbers - flash for 5 seconds).

E.g.: 93°F CHAMBER TEMPERATURE



Turn the knob clockwise (to increase the value) or counter clockwise (to decrease the value) to set the desired COOKING TEMPERATURE in the small DISPLAY.

After 5 seconds the COOKING TEMPERATURE stops flashing to indicate that it has been SET.

#### Note 1

The temperature of the **steam** cycle is automatically set at 212°F(100°C). You can, however, set **low temperature steam** from 77°F to 210°F(25° to 99°C) by turning the knob.

#### Note 2

With the COMBI cycle it is possible to do a **dough proving** cycle by setting a temperature below 122°F(77 to 121°F), 50°C(25 to 49°C)

When the dough proving cycle is set as a first stage **compartment preheating** is excluded.

# 4.3.3 SETTING THE COOKING TIME

Press the following illuminated button (button lights up) to set cooking time:



The relative DISPLAY will show the TOTAL REMAINING TIME of the cooking cycle (large numbers) and the TIME TO BE SET (small numbers - flash for 5 seconds).

E.g. : 1 h 30' TOTAL REMAINING TIME



E.g..: 1 h 30' CURRENT REMAINING TIME

Turn the knob clockwise (to increase the value) or counter clockwise (to decrease the value) to set the desired cooking TIME on the small DISPLAY.

After 5 seconds the COOKING TIME display stops flashing to indicate that it has been SET.

### Note:

In this case there is only one cooking cycle or phase so CURRENT remaining time and TOTAL remaining time will coincide.

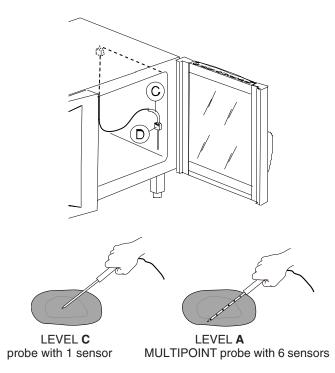
# 4.3.4 SETTING AND USING THE PROBE (TO MONITOR PRODUCT CORE TEMPERATURE)

This temperature probe allows high precision control of the temperature reached at the core of the product being cooked so that the desired value can be set and the cooking cycle stopped automatically when the product core reaches the set temperature.

Important: The temperature probe is a precision instrument and must be handled with care. Avoid knocks, do not apply excessive force when inserting the probe, and not pull on the lead (take care particularly when using roll-in racks). The guarantee does not cover damage to the core temperature probe caused by improper use.

# 1) Switch on the oven.

Remove the product core temperature probe "C" from its seat "D" and insert it into the product without forcing it and making sure that the tip (sensitive element) is located in the proximity of the centre of the product.



The LEVEL **A** oven is equipped with a MULTIPOINT probe with 6 sensors located at intervals along the wand, enabling the correct temperature to be read in the centre of the product even if the probe tip is not positioned at the product core. Close the oven door.

2) Select the desired cooking cycle and set the cooking temperature on thermostat TS.

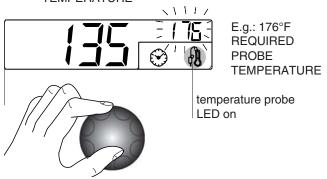
Important: do not set the cooking time on Timer TM.

3) Set the TEMPERATURE of the CORE PROBE by pressing the following illuminated button **twice** (button lights up):



The relative DISPLAY will show the PROBE TEMPERATURE (large numbers) and the TEMPERATURE TO SET (small numbers - flash for 5 seconds).

E.g.: 135°F CURRENT PROBE TEMPERATURE



Turn the knob clockwise (to increase the value) or counter clockwise (to decrease the value) to set the DESIRED PROBE TEMPERATURE on the small DISPLAY.

After 5 seconds the DESIRED PROBE TEMPERATURE stops flashing to indicate that it has been SET.



#### Note:

Press the button again to switch from the PROBE function to the TIME function: the relative LED on the DISPLAY will light up.

4) Start the cycle. Press the Cooking Start/Stop button.



5) **Stop the cycle**. When the required product core temperature reaches the set temperature the oven stops automatically as described in heading **4.3.7 STOPPING THE COOKING CYCLE** and elapsed cooking cycle time is shown on the large DISPLAY. 7) **Deactivating core probe mode.** (Possible only with no cooking cycle active). Set a cooking time on Timer **TM**.

Probe cooking mode is also deactivated when the oven is switched off. At the end of the cycle total cooking cycle TIME is shown on the large DISPLAY.

#### 4.3.5 SETTING COOKING HUMIDITY

(Only in **CONVECTION**, **MIXED** and **REGENERATION** cooking modes)

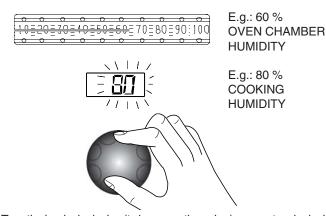
#### **Attention**

When switching on the oven after several hours in which it has not been used, wait about 20 seconds (LAMBDA probe stabilisation time) to ensure accurate reading of the HUMIDITY value.

#### Note

To set humidity in AIR-CONVECTION cooking mode press the relative cycle selection button twice.

After selecting AIR-CONVECTION or MIXED cooking mode the large DISPLAY (LEVEL **A** only) will show OVEN CHAMBER HUMIDITY and the small display (LEVEL **A** 1%...100% and **C** 1/10...10/10) will show the humidity to be SET (flashes for 5 seconds).



Turn the knob clockwise (to increase the value) or counter clockwise (to decrease the value) to set the desired COOKING HUMIDITY on the small DISPLAY.

After 5 seconds the COOKING HUMIDITY value stops flashing to indicate that it has been SET.

# 4.3.6 STARTING THE COOKING CYCLE

- make sure the oven door is closed;
- press the luminous start cooking button, which will light up (light FLASHING), for COMPARTMENT PREHEATING;



PrEH
Start COMPARTMENT PREHEATING
(light FLASHING)

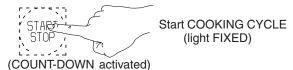
The displays will show:

- HU humidity inside the compartment;
- **TS** automatic compartment preheating (PrEH). To skip preheating press the START button again.
- TM time remaining for end of cooking / PRB core probe temperature.

**Note:** In TIMED cooking, during preheating the set cooking time remains unchanged (COUNT-DOWN not activated).

At the end of preheating the message **LOAD** appears on the display **TS**:

- open the oven door and load the food.
- close the door, and the message Strt (START) appears on the display TS
- press the start cooking luminous button again; it will light up (FIXED light);



#### Note:

- No cooking cycle will be available (steam, mixed, air-convection or regeneration) until the boiler is ready (boiler LED switches off - see heading 4.1).

During this interval the time count will not start and the **Start cooking** button will flash (the same will occur when the oven door is opened).

Important! Risk of burns.

Open the door with due care when the appliance is hot.



### 4.3.7 STOPPING THE COOKING CYCLE

When the set time has elapsed the cooking cycle will stop automatically and the appliance's audible alarm will emit a continuous beep.

Open the door and remove the product.

Important! Risk of burns.

Open the door with due care when the appliance is hot.



# Note:

- The audible alarm can be muted by performing any operation on the control panel or by opening the door.

To stop the cooking cycle manually press the cycle Start/Stop button and keep it pressed for two seconds.

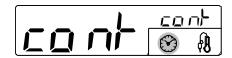


If this button is pressed for less than 2 seconds it will produce no result.

To repeat the last cooking cycle with identical parameters press the **Start/Stop** button again.

# 4.3.8 MANUAL CYCLE (CONTINUOUS COOKING)

Manual cooking cycles can be set by excluding the timer. Follow the instructions in heading 4.3.2 SETTING THE COOKING TIME until the display shows the word "cont", i.e. continuous cooking mode.



In this case the cooking cycle must be stopped manually by holding down the **Start/Stop** button for two seconds or by switching off the oven.

# 4.3.9 UTILITIES

- Switch on the oven by pressing button I.
- Set a cooking cycle for the following UTILITIES:



UTILITIES with cycle presetting;

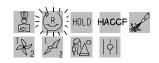


this is not necessary for the other utilities as they are already specific cycles.

- Press button **U** (UTILITY):



- The green UTILITY LEDs will light up and one will be flashing.



E.g.: (Rashing GREEN LED)

- Turn the knob clockwise or counter clockwise to select the utility required the relative LED will flash (flashing GREEN color).
- Press button **U** until the flashing LED relative to the UTILITY selected changes colour (flashing ORANGE color).
- Wait a further 5 seconds for the LEDs relative to the selected utilities to illuminate steadily (steady ORANGE color).
- Finally, start the cycle by pressing the START/STOP button.

A complete description of the different UTILITIES available is included in heading 3.4 SPECIAL COOKING MODES (page 20).

### Note:

If the **UTILITIES** are not used for 7 seconds they are **automatically cut out**, signalled by the relative button switching off.

- To  $\boldsymbol{cancel}$  one of the following preset  $\boldsymbol{UTILITIES}$  (ORANGE steady):



press the  ${\bf U}$  button and turn the knob to select it so that it flashes (ORANGE flashing).

Press the  ${\bf U}$  button again so that the UTILITY changes colour (GREEN flashing) and is thus cancelled.

- To **cancel** the other **UTILITIES** set another cooking cycle. In case of **cycle already started**, stop it, keeping the START/STOP button pressed for 2 seconds before cancelling the UTILITY.

# 4.3.10 COOKING WITH TWO PHASES IN AUTOMATIC SEQUENCE

(LEVEL C ONLY)

Level B ovens allow the execution of cooking cycles composed of two sequential phases. For example:

- Phase 1: air-convection 200°C
  - probe 70°C
- Phase 2: mixed cycle 220°C
  - 40 minutes

The oven switches automatically from phase 1 to phase 2. To set a two-phase cycle proceed as follows:

1) Switch the oven;

- 2) Set the desired cooking mode, oven chamber temperature, and cooking time (or, alternatively, core probe temperature) as described in this handbook.
- 3) Press the "PHASE" button:

PHASE 1 (I) LED

Phase 2 (II) LED

the phase 2 LED switches to RED (active phase) while the phase 1 LED is GREEN (inactive phase); at the same time the **cooking modes** button LEDs start flashing again to request a new setting for phase 2.

- 5) Select:
- phase 2 cooking mode;
- phase 2 oven chamber temperature;
- time (or core probe temperature) relative to phase 2;
- 6) The two-phase cooking cycle has now been set. Place the product to be cooked in the oven and press the START/STOP button to **start the cooking cycle**.

The cooking cycle will start from phase 1 (phase 1 LED RED) and **switch automatically** to phase 2 (phase 2 LED RED) when the first phase terminates.

When the oven switches from phase 1 to phase 2 the operator will be alerted by a brief audible signal.

When phase 2 is terminated the cooking cycle will stop automatically as already described.

# 4.3.11 Delta Cooking

This is an advanced method of cooking, by which the oven chamber temperature varies in function of the core temperature of the food.

The operator is able to select a **delta** value between 1°C < 120°C, we recommend using between 20°C < 70°C. The chamber temperature will be adjusted to automatically remain above the rising core temperature exactly by the set value.

This type of cooking is ideally suited to large joints of meat.

How to use it: Manual cooking mode.

- 1) Select the cooking mode, Ex. Combi.
- 2) Set a target core temperature value,
- 3) Go into advanced utility functions (Bottom row on Control Panel) and select



ECO - Delta.

At this point you will see on the oven temperature display 25 °C which is a **Delta** value (you can change it by highlighting the temp area and turning the dial to reach the desired Delta – for example 50°C.)

Close the oven door and press the start button to activate the cooking cycle.

The core temperature of the meat may be for example 14 °C when the cooking cycle is started, the oven temperature will go to 75°C, (50°C above core temp), and then keep rising as the core temperature rises, maintaining a difference of 50°C(As the core temperature of the meat rises by one degree so too does the oven temperature). The two temperatures will displayed in the lower line on the display.

If you selected a final core temperature of for ex. 67 °C, the final oven

chamber temperature will be 117  $^{\circ}\text{C}$  at the end of the cooking cycle.

This cooking method is much slower than the 'normal' way of cooking but the benefits are higher yields and better quality.

### 4.4 AUTOMATIC CONTROLS

### SOLO LIVELLO A

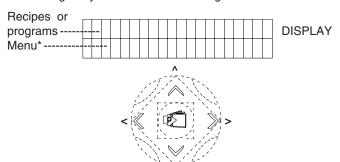
**Introduction**: the automatic controls make it possible to perform cooking cycles in special modes and also to store cycles after manual setting. For information on manual setting procedures refer first to heading 4.3 MANUAL CONTROLS.

### Note:

If the oven is switched off after you have set up a cooking cycle manually **the data you have entered will be lost** since, in manual mode, the controller does not store the cooking cycle.

To store manually set cooking programs for future use proceed as described in the following headings.

The cooking cycles (or RECIPES) and programs (e.g. CLEAN) are managed by means of the following commands:



\* list of commands (items) necessary for executing the various management functions:

	_																		 
S 00	M	Е	Ν	U															
S 06		Α	О	D		Ρ	Η	Α	S	Ш									
S 03			S	K	_	Ը		Ъ	Ξ	A	S	Е							
S 07		Α	О	О		Д	Е	L	Α	Υ									
S 09		C	┙	Е	Α	R		Р	Ξ	Α	S	Е							
S 17			O	0	Ζ	F	_	R	M										
S 18			R	Е	Т	J	R	N											
S 10		O	ш	Е	Α	R		R	Е	C		Р	Е						
S 17			C	0	Ν	F	_	R	M										
S 18			R	Е	Т	U	R	Ν											
S 11		М	Е	М	0	R	_	Z	Е		R	Е	С		Р	Е			
S 13			S	Е	L	Е	C	Т		Ν	J	М	В	Е	R				
S 02				C	0	Ν	F	Т	R	М									
S 14			Е	Д		Т		N	Α	Μ	Е								
S 02				O	0	Ν	F	Т	R	М									
S 15			S	Α	٧	Е		R	Е	C		Р	Е						
S 16			R	Е	Т	J	R	Ν											
S 04		S	Е	Α	R	C	Н		В	Υ		N	Α	M	E				
S 01			С	0	N	F	$\overline{}$	R	М										
S 05		S	Е	Α	R	C	Н		В	Υ		N	J	M	В	Ε	R		
S 12		Е	Х	Т	Т														
S 17			C	0	Ν	F	_	R	M										
S 18			R	Ē	Т	U	R	N							П				
S 19		Р	Α	S	S	W	0	R	D										
S 20			N	Ē	W		P	Α	S	S	W	0	R	D					П
S 21			C	0	N	F	Ť	R	М	Ť	P	Ă	S	S	w	0	R	D	
S 22		С	H	Ā	N	G	Ė	Ė	P	Α	S	S	W	0	R	D	Ė		H
	$\overline{}$	_	•	• •	•	•	_			• •	•	_	•	•		_			

- **P** (Program) = button to:
  - open the list of recipes and programs
  - open the menu of recipes or programs
  - confirm the items selected from the menus
- (^) (v)
- = "arrow" buttons (up and down)
   (or use the knob) to:
- select recipes, programs or relative names
- select menu items
- select the utilities
- set the values
- (<) (>) = "arrow" buttons (left and right) to:
  - return to menu
  - select the phases

DISPLAY

displays the operations described above

# 4.4.1 AUTOMATIC SEQUENTIAL MULTIPHASE COOKING

Food can be cooked using different temperatures during the cooking cycle (i.e. in several different stages).

The oven allows the execution of programs composed of several sequential phases. For example:

- Phase 1: air-convection cycle 392°F (200°C)
  - core probe 158°F (70°C)
- Phase 2: mixed cycle 428°F(220°C)
  - time 40 minutes
- Phase 3: air-convection cycle 482°F (250°C)
  - time 15 minutes

and so on up to a maximum of 6 phases.

During the cooking cycle the oven advances from one phase to the next one automatically until the cooking program is completed and then stops automatically as soon as the last phase has been terminated.

To set a multiple phase cooking program proceed as follows:

- 1) Switch on the oven.
- 2) Set (see heading 4.3 MANUAL CONTROLS):
- cooking mode for phase 1;
- oven chamber temperature for phase 1;
- cooking time (or core probe temperature) for phase 1.
- 3) Press button **P** and the DISPLAY will show the flashing value 1 (phase 1) and the description P:MENU.
- 4) Press button **P** to open the menu, the option P:ADD PHASE appears on the DISPLAY (it is also possible to select another option from the menu).

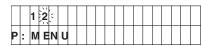
phase 1 flashing selected item



5) Press button **P** to confirm this option; the DISPLAY will now show a flashing number 2 (phase 2) and some of the MANUAL CONTROL functions will start flashing.

phase 2 flashing

selected item



- 6) Set new values, as described in point 2), but this time with reference to phase 2.
- 7) To set additional phases repeat steps **4**, **5** and **6** up to a maximum of **7** phases.
- 8) The multiple phase cooking program has now been set up. Place the product to be cooked in the oven and press the **Start cycle** button.



The cooking cycle will start from phase 1 (value 1 flashes in alternation with a dot on the relative DISPLAY) and, when phase 1 is terminated, it will **advance automatically** to phase 2 (value 2 flashes in alternation with a dot on the relative DISPLAY) and so on until all set phases are completed.

phase 2 in progess



The transition from one phase to the next is signalled by a short audible signal.

When the last phase is terminated the cooking cycle will stop automatically as already described, and the appliance will emit a double intermittent audible signal.

To repeat the same multiple phase cycle simply press the START/STOP button again.

While the cooking cycle is in progress you can skip one or more of the phases as follows:

- press the (>) button one or more times to select the successive phases.
- press button **P** once and then press it again at the "SKIP PHASE" option to confirm the selected phase and cause it to start.

# 4.4.2 SETTING THE TIME, DATE AND DELAY START

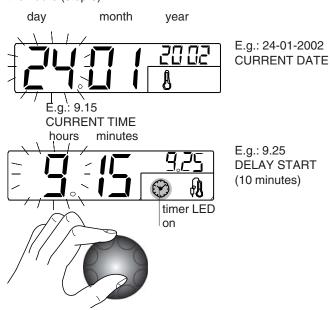
- TIME and DATE -

Proceed as follows to set the TIME and DATE:

- 1) Switch on the oven by pressing button I.
- 2) Hold down button TM until you hear a beep and the HOUR digits start flashing.



- 3) Turn the knob (while the hour digits are flashing) clockwise or counter clockwise to set the current hour.
- 4) Press button TM and set the MINUTES in the same way as for the hours (step 3).



- 5) Press button TM again to set the DATE (shown on the TEMPERATURE DISPLAY) in the same way as the HOURS (previous step 3).
- 6) Press button TM to set the MONTH and YEAR repeating the procedure used to set the date.
- DELAY START- (delayed start of cooking cycle)

Once the TIME and DATE have been set (see previous heading) carry out these operations:

1) Press button P (program) and select the required recipe or program:

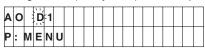
program AO PreHeat Ste aming selected MENU

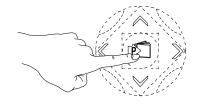
2) Press button P and select P: ADD DELAY.

PreHeat Ste SELECTED ITEM ADD DELAY

3) Press button P: a flashing letter D (Delay Start) will be displayed.

LETTER "D" **FLASHING** 





4) Set the required START time (shown in small numbers on the TM timer display) and press the START/STOP button.

The cycle will start at the time set in the DELAY START option and the letter D will flash in alternation with a dot to remind the user that this function is active.

# 4.4.3 EDITING THE SET PARAMETERS

With the cooking cycle blocked, started or stored, use the relative commands to edit the following parameters:

- 1) cooking mode;
- 2) cooking temperature TS;
- 3) cooking time TM;
- 4) probe temperature PRB (in alternative to cooking time).

#### Note:

- When you edit the parameters of a STORED cooking program (during a cooking cycle) an asterisk "\*" will appear alongside the program number.
- Editing the parameters of a STORED cooking program overwrites the original parameters with the new ones.

Proceed as follows if the oven is performing a cooking cycle composed of various phases and you wish to edit the parameters of the next phase to be executed:

- a) Press the START/STOP button to stop the current cooking cycle.
- b) Press the (>) button to display the phase you intend to edit, and enter the new values.
- c) Press the START/STOP button to resume the current cooking cycle.

# 4.4.4 STORING RECIPES OR PROGRAMS

RECIPES or programs (cooking cycles) can be stored with a sequential number and a descriptive name to assist in retrieval.

-01--(RECIPE n°) **CHICKEN** (RECIPE description) -02----

**POTATOES** 

Once a RECIPE (composed of one or more cooking phases) has been set using the MANUAL or AUTOMATIC CONTROLS carry out these operations:

1) Press button P

phase 1 flashing selected item

2) Press button P again to open the menu and select the MEMORIZE RECIPE option.

phase 1 flashing selected item P: MEMORIZE RECIPE

3) Press button P to start saving data, the SELECT NUMBER option is displayed.

displayed item NUMBER



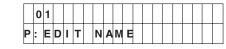
4) Press button P to select the recipe number.

NUMBER OF RECIPE SELECTED P: C ON F I RM

5) Select (while flashing) the RECIPE number in which you want to store the cycle you have just set up and confirm the number by pressing button  ${\bf P}$ .

6) Select the EDIT NAME option

selected item



7) Press button P, the dash "\_" flashes.

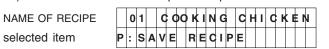
DASH FLASH.		0	1		\	, ,									
selected item	Р	:	C	C	١	F	ī	R	М						

8) Select the first letter required.

- 9) Press button (>) to enter the next letter as described in point 8 and so on for the rest of the letters to complete the description of the program (to DELETE a letter select the space).
- 10) Press button **P** to confirm the RECIPE NAME (e.g.: COOKING CHICKEN).

NAME RECIPE		0	1		C	: C	C	k	( I	N	G	C	: H	11	С	K	E	N	ķ
selected item	Р	:	C	: C	N	F	1	R	M										

11) Select the SAVE RECIPE option and press button P to save.



12) Press button **P** again for a few seconds to exit the programs (or select the EXIT option and then confirm).

**Note**: it is not compulsory to save programs in sequence (e.g. 01-02-03, etc..): you can assign programs with any number from 0 to 99. Numbers already used for another program are marked with a dot alongside, while unnoccupied numbers are shown without a dot. **0** 

# 4.4.5 RECIPE OR PROGRAM SEARCH

There are two methods for finding a recipe or program:

- SEARCH BY NUMBER (recipe or program number)
- SEARCH BY NAME (recipe or program name)

### Note

When setting a cooking cycle, press the P button twice and select the menu item FIND BY NUMBER OR FIND BY NAME, or press P, holding it down for a few seconds to exit cycle setting and proceed a follows.

# SEARCH BY NUMBER

Press button **P** and select the desired recipe or program.

# SEARCH BY NAME

Press button **P** to open the list of recipes or programs.



Press the button P and select the item SEARCH BY NAME

program		Α	0		С	L	Ε	Α	N		1						
selected	P	:	S	Ε	Α	R	С	Н		В	Υ	N	A	M	Е		

Press button **P** to begin the search and select the **first letter** of the name of the desired recipe, e.g. G (GOOSE).

letter G		Α	O		G	٧.								
flashing	Р	:	С	0	N	IF	ı	R	M					

Press the button **P** to confirm this letter, the first recipe or program starting with the letter G appears on the display.

first recipe		1	4	3	G	Α	IV	M	C	N					
with letter G	Р	:	M	Ε	N	U									

Select the name of the **desired recipe** from those beginning with the letter G.

desired recipe		1	5	111	G	0	0	s	Ε						
selected	Р	:	M	Е	N	U									

### 4.4.6 USING PRESET PROGRAMS

Undeletable preset programs provide several standard service functions

The oven is supplied with the following preset programs:

# LOW TEMPERATURE COOKING (EFS-LTC)

Cooking at low temperature is a specific cooking procedure especially for beef, e.g. prime rib, beef fillet, top round, tenderloin, but also for other meat items like veal, lamb, venison, turkey, duck, pork, etc

The meat cuts can be: strip loin, shoulder, leg, saddle, T-bone steak, rump, fillet, chops, etc.

The EFS-LTC is a preset, fully automatic program to obtain matured, tender and uniform cooked food.

The program comprises 4 main phases:

PREHEAT, SEARING, MATURE, HOLD.

Set the program as indicated below for the pre-sorted programs. When the word LOAD appears on the large display, after the PREHEAT phase

(If necessary change the already set cooking chamber temperature) PLACE the food in the oven and insert the 6 Point Multi Sensor, core probe.

(If necessary change the already set probe temperature).

Close the door and start the cycle by pressing the START button

The SEARING (sealing of the food by dry heat) phase starts, followed by the suddenly Cool Down for subsequent slow cooking; in the MATURE phase (responsible for tenderising the meat) the relevant duration flashes on the large display of the core probe (press any button and the duration disappears).

This is followed by the final HOLD phase to keep the food on a certain temperature.

The entire LTC cycle (including the HOLD phase) can last for a max. of 24 hours.

One or more phases can be skipped, going to the next phase (see SKIP PHASE in par. 4.4.1 AUTOMATIC SEQUENTIAL MULTIPHASE COOKING); this is useful, for example, when cooking is started (SEARING phase) with another appliance (e.g. fry top) and is to be completed in the oven (MATURE and HOLD phases).

The MATURE phase cannot be skipped; this means that if only the HOLD phase is to be used just set the relevant UTILITY (see par. 4.3.10 UTILITIES).

### Major advantages:

- Excellent food quality.
- Standardized procedure LTC guarantees repeatable results year-in year-out.
- Typical roast aroma, juiciness from centre to the rim.



- Uniform colour and perfected evenness in the degree of doneness.
- Fast maturing process time saving and use of fresh cut.
- Significant less cooking shrinkage, 5-8 % (depend on food quality and selected core temperature).
- · Remarkable gain of portions for selling.
- Dramatic energy-saving due to the intelligent EFS LTC program.

# **CLEANING SYSTEM**

This system executes an automatic oven chamber cleaning procedure using suitable detergents according to the level of soil detected; the program has four different cleaning cycles.

# CLEAN 1 Soft (light)

For fresh soil deriving from low fat cooking (e.g. after a STEAM cooking cycle)

# CLEAN 2 Medium (normal)

If the oven chamber is only moderately soiled and after cooking fatty foods.

### CLEAN 3 Strong (intensive)

If the oven chamber is very dirty due to cooking of high fat foods (e.g. roasted chicken, sausages).

# CLEAN 4 X-Strong (super intensive)

For heavy grime resulting from very high fat foods (e.g. roasted chicken, sausages) also with dry residues (baked-on food).

### F00...--> F19... (recipes)

These are the 20 pre-stored recipes of the main international dishes

For further information see the relative recipe book.

Proceed as follows to use preset programs:

# Note 1:

Before cleaning the compartment with the CLEANING SYSTEM remove the **grease filter** (if present).

The CLEANING SYSTEM cycle will commence when the temperature automatically reaches 70°C in the oven chamber.

Before carrying out a CLEANING SYSTEM cycle make sure the containers (located under the control panel) are supplied with cleaning products of the required type: refer first to section 7. CARE AND MAINTENANCE.

### Warning:

If the detergent and/or rinse aid containers are empty or the relative supply lines are empty, before starting the **CLEANING SYSTEM** cycle a preparatory cycle must be executed. This allows the supply pipes to fill with the required liquids and ensures the subsequent cleaning cycle is performed correctly.

# Note 2:

When setting a cooking cycle, press the  $\bf P$  button twice and select the menu item FIND BY NUMBER OR FIND BY NAME, or press  $\bf P$ , holding it down for a few seconds to exit setting and proceed as follows.

1) Press button P, program A0 flashes

program
selected

P: MENU

Steaming

the message A0 P r e H e a t St e a m i n g appears on the DISPLAY.

- 2) Select the desired program or go to step 3).
- 3) Press START/STOP to start the A0 PRE-HEAT... cycle.

To **exit**, **edit**, **skip phase**, see the paragraphs of the normal programs.

# 4.4.7 DELETING A RECIPE OR PROGRAM FROM THE MEMORY

- 1) Press button I to switch on the oven.
- 2) Press button P.
- 3) Select the recipe or the program to be deleted.
- 4) Press button P and select the CLEAR RECIPE option.

RECIPE NAME

Selected option

P:CLEAR RECIPE

5) Press button  ${\bf P}$  to remove the recipe or program from the memory.

RECIPE NAME Selected option P: CONFIRM

6) Press button  ${\bf P}$  again and hold it down for a few seconds to exit the programs.

### 4.4.8 PASSWORD

The PASSWORD function must be enabled by changing several parameters; for that purpose request the assistance of our After-Sales Service.

The PASSWORD allows the following functions to be locked in order to limit oven use (one or more by request):

- Disables the temporary modification of automatic programmes, including the special PreHeat, Low Temperature cycles and Recipes.
- Manual cooking cycles are made unusable.
- Prevents final modification, saving or cancellation of the automatic programmes.

Once the PASSWORD is enabled, the oven is locked (after switching on) against the use of the above functions; a password must be entered to unlock it.

To enter a password:

1) press button P and select the item PASSWORD, press P again, and the display shows:

\_\*\*\*\*\*\* factory-set oven password
(8 characters formed of 8 empty spaces)

2) Press P (oven unlocked) and select CHANGE PASSWORD with the arrow button "v" (down).

3) Press P, the item New PASSWORD appears, enter the password (alphanumeric 8 characters or less) like entering the name of a recipe (see par. 4.4.4 STORING RECIPES or PROGRAMMES).

4) Press P, the item CONFIRM PASSWORD requests confirmation of the password entered by typing it again, then press P. After a short beep signalling successful operation, or a long beep if failed, the oven goes to the initial switching on status and is thus unlocked. To lock it again, just switch it off.

To **change** a password repeat the previous operations from point 2). To quit the menu, if the PASSWORD is not known, switch the oven off and then on again.

# 5. INFORMATION AND ERROR CODES

These codes may appear on the time display.

### **INFORMATION** codes

Codes indicating a value, function, or state.

CIn - CLEANING SYSTEM program switched on.

CInt - Semiautomatic cleaning program switched on.

cont - Unlimited time setting.

cool - Oven cooling on.



**End** - End of a cycle or function.

FILL - Boiler filling. (Ensure water supply tap/cock are open).

**Hold -** Cooking option, HOLD function active.

LOAd - Place the food in the oven.

**oPEn -** Boiler discharge valve opening.

PrEH - (TIME TM / PRB DISPLAY)Boiler preheating.

**PrEH** -(COMPARTMENT TEMP. DISPLAY **TS**) Automatic compartment preheating.

**Soap** - Detergent. Spray a suitable product on the surfaces to be cleaned as indicated in point 4) of the semiautomatic chamber cleaning cycle (see par. 7. CARE AND MAINTENANCE).

**StArt -** Press the START button to start the program.

Stby - CLEANING SYSTEM cleaning standby time.

### ERROR codes

Codes indicating the need to call technical service

**burn -** Burner lockout with manual reset by pressing START/STOP button momentarily. The small DISPLAY shows the following reference to the type of burner:

- CAUP single convector (6-10 GN) or upper convector (20 GN)
- CADO lower convector (20 GN only)
- BOUP single boiler (6-10-20 GN)
- BODO lower boiler (20 GN2/1 only).

**EH2O** - Water supply pressure too low for CLEANING SYSTEM (pressure requirements from 1.5 to 2.5 bar)

**EFUN -** Fan automatic reset thermal switch device. UP appears on the small DISPLAY with reference to the single fan (6-10 GN) or upper fan (20 GN) of the chamber and DO in reference to the lower fan (only 20 GN).

**E**—- - Non-compliance with a parameter requirement (number of parameter appears in place of dashes "—").

EPt1 - Chamber sensor interrupted or short-circuited.

EPt2 - Boiler sensor interrupted or short-circuited.

EPt3 - Probe sensor interrupted or short-circuited.

**EPt4 -** Bypass sensor interrupted or short-circuited.

**EPt8 -** Electronic controller temperature sensor damaged.

**ESCH** - Malfunction of commands control circuit cooling devices.

Etub - Boiler overtemperature (257°F)(125°C) warning.

Etuc - Chamber overtemperature (608°F)(320°C) warning.

**EFLP -** Fault in chamber steam discharge motor-operated valve.

**ETC** - Tripping of chamber temperature limiter.

**ETB** - Tripping of boiler temperature limiter.

### **IMPORTANT!**

If an error code is displayed during a cooking cycle, the oven emits a continuous audible warning signal and the cooking cycle is interrupted.

In this case the oven can be used only in cooking modes that do not involve the conditions that generated the error. Notify your Technical Service Center of the alarm code displayed.

# 6. SWITCHING OFF IN THE EVENT OF A FAULT

If the appliance malfunctions, switch off as follows:

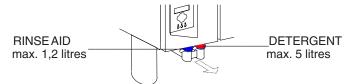
- Disconnect the main circuit breaker of the appliance and close the water and gas valve.
- Contact your authorized service company to perform maintenance and repairs.

# 7. CARE AND MAINTENANCE

- At the end of each day clean the oven interior with an oven cleaner, following the product supplier's directions.
- Do not wash the appliance with water jets.
- Do not clean steel surfaces with products containing chlorine (bleach, hydrochloric acid etc.) even diluted.
- Do not use corrosive substances (e.g. muriatic acid) to clean the floor under the appliance.

The appliance has an automatic compartment cleaning programme called CLEANING SYSTEM; for its use see par. 1.4.3 USING PRESTORED PROGRAMMES for LEVEL A, whereas for LEVEL B and C see below.

The CLEANING SYSTEM program uses detergent and rinse aid. Therefore, fill the DETERGENT container - max. 5 litres (on the RIGHT with RED cap) and the RINSE AID container - max. 1,2 litres (on the LEFT with BLUE cap) located under the control panel:



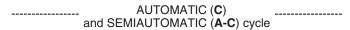
Use the following cleaning products:

- ECOLAB "Oven Cleaner Power" detergent (not in Gel).
- ECOLAB "Oven Rinse Power" rinse aid (not in Gel).

### NB:

Cleaning of the oven chamber is not ensured if a different type of detergent or rinse aid from that specified above is used.

The oven features a UTILITY to perform a automatic or semiautomatic oven chamber cleaning cycle. Proceed as follows. In the level A oven, carry out the AUTOMATIC cleaning cycle by following the instructions in par. 4.4.6 CLEANING SYSTEM.



- 1) Remove any large food remnants using a water jet. Do not use the spray shower or water jets to quickly cool the compartment and the inside glass of the oven door.
- 2) Set the following UTILITY as described in heading 4.3.9 UTILITIES:



3) - Select one of the following wash cycles by turning the knob on the display TS:

CLNT (semiautomatic) (level A-C)

CLN1...2...3...4 (automatic) (level **C**) only for the description of these cycles see CLEANING SYSTEM in par. 4.4.6.

4) - Press the following button to confirm the selection



# ———— SEMIAUTOMATIC Cycle only (A-B-C) –

The cycle will commence when the temperature automatically reaches 100 °C in the oven chamber.

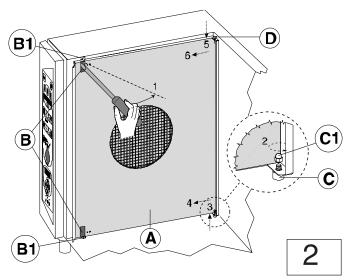
- 6) The 1st cleaning phase (STEAM cycle) ends after 5 minutes, as signalled by the audible alarm.
- 7) Open the oven door and spray the surfaces to be cleaned with a suitable cleaning product.
- 8) Close the oven door. On the **TS** DISPLAY the 120 second pass, to allow the degreasing agent to perform its action. At the end of the degreasing phase the 2nd cleaning phase (STEAM cycle) lasting 10 minutes starts, after which the alarm sounds (cycle finished).
- 9) Open the oven door and rinse the interior of the chamber.

To facilitate the oven chamber cleaning procedure, remove the guides for roll-in racks located at the bottom of the cooking chamber and open the air intake wall.

- To open the cooking chamber **air intake wall A** (Fig. 2) follow these instructions:
- switch off the oven and disconnect the appliance from the electrical power supply;
- insert the tip of a screwdriver in opening B and pry inwards towards the oven (1) to open the side panel by disengaging it from the pins B1 at the back.

To **remove** the air intake wall **completely** follow these instructions:

- unscrew nut C1 with a hex wrench (2).
- lift (3) the air intake wall to disengage it (4) from the lower pin C of the oven chamber;
- lower (5) the wall to disengage upper pin D and then withdraw the wall completely (6).



To refit the air intake wall, repeat the steps in reverse order and retighten nut C1.

- If present, clean the oven compartment **grease filter** (not supplied) at least every three cooking cycles.
- If present, clean the **air filter** (not supplied) at least once a month, removing it from underthe **control panel**.

Failure to clean the filter may affect its performance and impair cooking.

- Each day wash the stainless steel surfaces with lukewarm soapy water and then rinse and dry thoroughly.
- When cleaning stainless steel, never use abrasive tools such as steel wool, wire brushes or scrapers, since they may leave ferrous particles which will promote rusting on the steel surfaces.
- If the appliance is not to be used for long periods, proceed as follows:

- Disconnect the electrical power supply and close the water and gas valve;
- Using a cloth soaked in petroleum jelly, vigorously rub the stainless steel surfaces to apply a light protective film;
- Periodically air the place of storage.

### 7.1 PERIODICAL MAINTENANCE OF THE BOILER

• The build-up of lime-scale inside the boiler is signalled by illumination of the LED shown below.



When this LED illuminates the boiler must be descaled.

The manufacturer declines all liability for failure to clean the boiler when necessary. Moreover, the repair or replacement of scale-damaged parts is not covered by the guarantee if the characteristics of the water supply do not comply with those stipulated (see corresponding paragraph).

The boiler may be descaled using either:

- pure vinegar (100%);
- or

- a chemical descaler (as instructed below).

The oven must be switched on prior to descaling the boiler.

### 7.1.2 VINEGAR CLEANING METHOD

- 1) Close the water supply valve.
- 2) Empty the boiler by pressing the drain button



- 3) Close the boiler drain after one minute by pressing the above button.
- 4) Remove the plastic cap from the boiler filler pipe and pour in 8 litres (6-10gn) or 16 litres (20gn) approx. of pure vinegar.
- 5) Open the water cock.
- 6) Run a "steam" cycle for 20 minutes.
- 7) Switch off the oven and wait 60 minutes.
- 8) Restart the oven in steam mode for a further 10 minutes.
- 9) Switch off the oven again and wait 60 minutes.
- 10) With the water cock open, re-open the drain outlet and drain off the vinegar (press the above button).
- 11) Switch off the oven.
- 12) Insert a rubber hose inside the boiler filler pipe and rinse thoroughly until the water flowing out of the drain is clear.
- 13) Refit the filler plug and close the boiler drain (press the above button).

# 7.1.3 DESCALER CLEANING METHOD

If you decide to descale the boiler using a chemical product, follow the directions provided by the product supplier.

For example, when using ECOLAB's "STRIP-A-WAY" descaler, proceed as follows:

- Follow the instructions given in the previous paragraph and supply the following product quantities via the boiler filler pipe:
- 2 litres of descaler liquid plus 6 litres of water (6-10gn).
- 4.5 litres of descaler liquid plus 11.5 litres of water (20gn).
- Run a "steam" cycle for 12 minutes.
- Switch off the oven and wait 40 minutes.
- Reopen the boiler drain outlet and proceed as described in the paragraph above.

# **IMPORTANT - 1**

Insert a rubber hose inside the boiler filler pipe and rinse thoroughly with water to remove all traces of descaling agent.

• Refit the filler plug and close the boiler drain (by pressing the relative button).

After descaling the boiler, it is good practice to execute a 30-minute STEAM cycle with the oven empty.

### **IMPORTANT - 2**

If the water supply cock cannot be easily accessed, to empty the boiler proceed as follows:

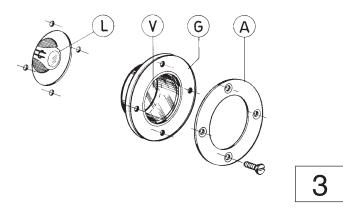
- 1) Open the boiler discharge valve with the special pushbutton.
- 2) Wait 2 minutes and switch the oven off; the discharge valve will close automatically.

### 7.2 REPLACING CONSUMABLE COMPONENTS

### Changing the oven chamber lamp (Fig. 3)

If the oven chamber lamp burns out, replace as follows:

- Disconnect the appliance from the power supply.
- Unscrew the four screws fixing flange "A" and remove glass shield "V" together with seal "G".
- Remove halogen lamp "L" and fit an equivalent lamp with identical characteristics (12V 20W 572°F). Important: do not touch the new lamp with your fingers, wrap it in paper or a clean cloth when fitting.
- Refit the glass shield with the seal in the lamp recess then smear food grade silicone grease on the seal and secure the flange using the four screws.

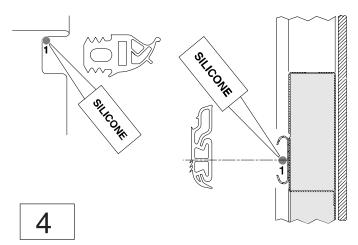


# Replacing the oven door seal (Fig. 4)

**N.B.**: The oven door seal is prone to normal wear and aging and should be replaced whenever it starts to harden or crack.

To change the oven door seal proceed as follows:

- prise the seal out of its seat and remove all traces of old silicone from the channel.
- apply a bead of silicone sealant in point 1 along the internal frame of the seal seating channel.
- insert the new seal, pressing it home along the entire length of the channel.



### 7.3 SPECIAL CLEANING INSTRUCTIONS

# Cleaning and checking the drain system

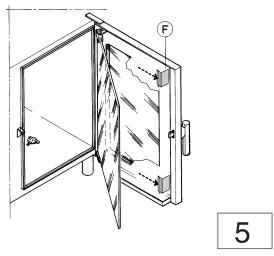
Periodically clean the drain pipe and check for obstructions that may prevent the water from draining.

### Cleaning the oven door glazing panels (Fig. 5)

Only clean the panels when the glass is cool and never use abrasive cloths or detergents.

To access the double glazing cavity, open the internal panel, which is hinged to the door.

• Open the oven door and press both upper and lower clips **F** to release the internal glazing panel.



After cleaning close the internal panel ensuring it is properly seated against the rubber stops.

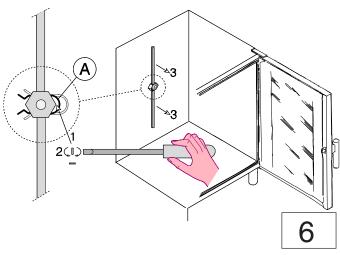
# **CLEANING SYSTEM rotary spray arm** (Fig. 6)

Clean the spray arm in the following cases:

- prolonged disuse of the CLEANING SYSTEM
- faulty rotation of the spray arm (nozzles probably blocked)
- use of the appliance with very hard water.

If the nozzles are completely blocked, remove scale deposits using the tip of a knife.

- Disengage (without removing) spring clip **A** from the central block of the spray arm. For this operation, insert the tip of a screwdriver in the position shown by the arrow and turn it from the vertical to the horizontal position as shown in the figure.
- Remove the spray arm from its hub.



- Place the spray arm in a bowl full of descaling agent and leave it to soak overnight, rinsing thoroughly before refitting.
- Refit the spray arm by inserting it over the hub and returning the spring clip to its original position.