

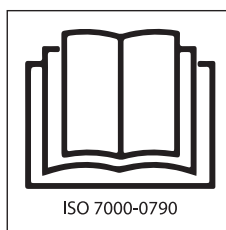
12/2018

Mod: DFV-1011/P

Production code: E2 RDA-110E ER 12DI 252



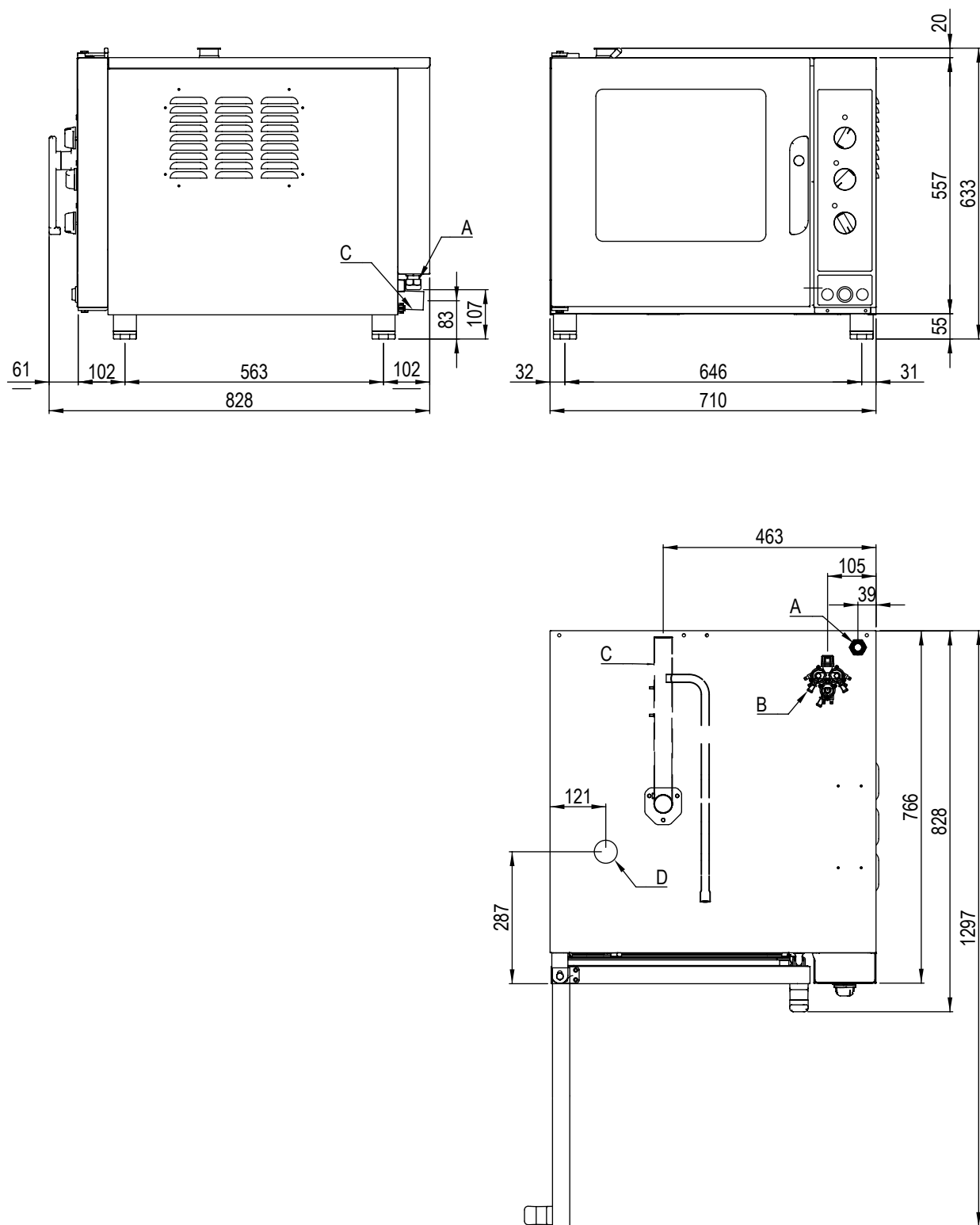
Diamond
catering equipment



DFV-511/N	DFV-511/TS	DFV-511/P
DFV-1011/N	DFV-1011/TS	DFV-1011/P
DFV-1511/N	DFV-1511/TS	

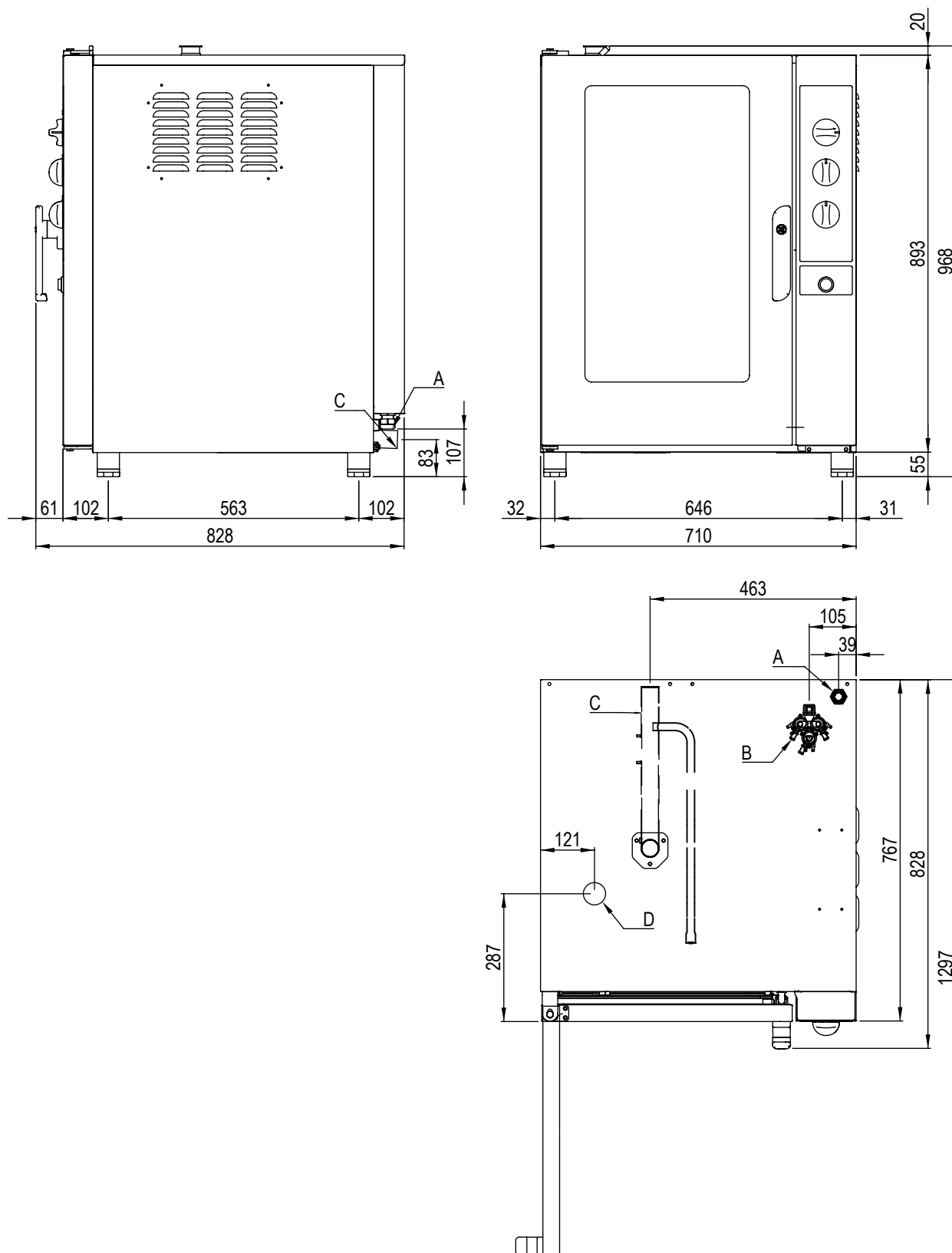
RDA-105E	RDT-105E
RDA-110E	RDT-110E
RDA-115E	RDT-115E

	EN INDEX
	Dimensions
	Foreword
1.0	Declaration of Conformity
1.1	European Directive ROHS 2012/19/UE
1.3	Transport of the oven and packaging removal
1.4	Informative labels
	INSTALLATION
1.5	Oven positioning
1.6	Electrical connection
1.7	Technical data for electrical connection
2.3	Water features
2.4	Technical data table water connection
2.5	Hydraulic connection water inlet
2.6	Plumbing – water drainage
3.0	Control and safety devices
3.1	Spare parts replacing
3.2	Checking the functions



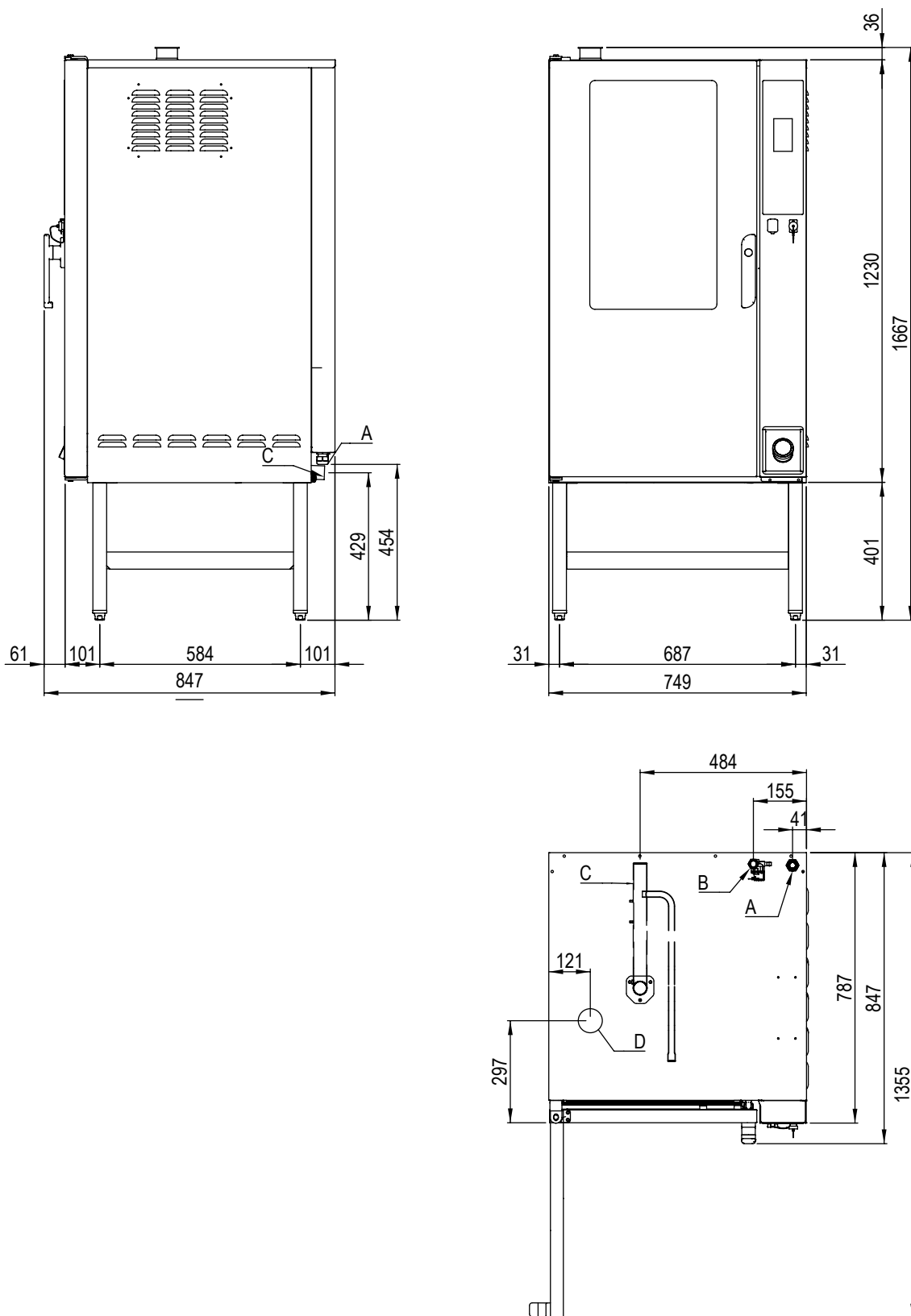
105E

Dimensioni	Capacità	Distanza teglie	Peso a vuoto
Dimensions	Capacity	Trays distance	Empty weight
Abmessungen	Kapazität	Einschubabstand	Leergewicht
Dimensions	Capacité	Ecartement grilles	Poids à vide
Dimensiones	Capacidad	Distancia bandejas	Peso en vacío
Afmetingen	Capaciteit	Afstand dienbladen	Leeggewicht
mm 710 x 828 x h 633	5 x 1/1 GN	67 mm	87 kg



110E

Dimensioni	Capacità	Distanza teglie	Peso a vuoto
Dimensions	Capacity	Trays distance	Empty weight
Abmessungen	Kapazität	Einschubabstand	Leergewicht
Dimensions	Capacité	Ecartement grilles	Poids à vide
Dimensiones	Capacidad	Distancia bandejas	Peso en vacío
Afmetingen	Capaciteit	Afstand dienbladen	Leeggewicht
mm 710 x 828 x h 968	10 x 1/1 GN	67 mm	124 kg



115E

Dimensioni	Capacità	Distanza teglie	Peso a vuoto
Dimensions	Capacity	Trays distance	Empty weight
Abmessungen	Kapazität	Einschubabstand	Leergewicht
Dimensions	Capacité	Ecartement grilles	Poids à vide
Dimensiones	Capacidad	Distancia bandejas	Peso en vacío
Afmetingen	Capaciteit	Afstand dienbladen	Leeggewicht
mm 750 x 847 x h 1667	15 x 1/1 GN	67 mm	165 kg

FOREWORD

The contents of this manual are generic and not all the functions described may be available on your product.

The manufacturer declines all responsibility for possible inaccuracies contained in this pamphlet, due to printing or copy errors. We reserve the right to make on our own products those changes to be considered necessary or useful, without jeopardizing the essential characteristics.

Read the instructions for use very carefully paying particular attention to the rules concerning safety devices. This appliance must only be used for what it has been designed for and built for and that is: all baking of dishes and regenerating pre-cooked and/or frozen food.

WARNING!

Before making any type of connection of this equipment (electrical or hydraulic), carefully read the instructions in this manual. This manual must be carefully kept to be available for future reference by users or service technicians. Installation must be carried out by a qualified personnel only.

1.0 DECLARATION OF CONFORMITY

The Manufacturer declares that the appliances conform to the EEC norms.

They must be installed in accordance with current standards, especially regarding aeration of the premises and the exhaust gas evacuation system.

Note: The Manufacturer declines all and every responsibility for any direct damages caused by: an incorrect use, wrong installation or bad maintenance.

1.1 EUROPEAN DIRECTIVE ROHS 2012/19/UE

This appliance is marked according to the European directive 2012/19/UE on Waste Electrical and Electronic Equipment (WEEE). By ensuring this product is disposed correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.



The symbol on the product, or on the documents accompanying the product, indicates that this appliance may not be treated as household waste.

Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

Disposal must be carried out in accordance with local environmental regulations for waste disposal.

1.3 TRANSPORT OF THE OVEN AND PACKAGING REMOVAL

Upon receipt of the oven and before installing it, check the packaging is intact and there are not visible damages. Also check that along with the oven you receive also the documentation, consisting of:

- Instructions for installation, use and maintenance
- Chart to check correct installation
- Wiring diagram
- Label ISO 3864-1

Before bringing the oven to the point, where it must be installed, check the following:

The doors are large enough to allow passage of the oven

The floor supports the weight.

According to the model of oven, its dimensions and its weight, use suitable facilities to handle goods during transport and installation, able to guarantee stability in order to avoid overturning, falls or uncontrolled movements of the appliance or its components.

Keep the oven packed until you reach the site where the oven is going to be installed.

The packaging makes the handling of goods easier and protects the oven from accidental push.

During moving and installation of the oven, the installer must comply with accident-prevention regulations in force at the place of installation (use of safety shoes, gloves, etc.) Remove the packaging taking care not to damage the oven. The adhesive film, that protects the surfaces made of stainless steel can be removed also after you have positioned the oven on the corresponding stand or the support surface.



ATTENTION: Packaging materials and adhesive film are potentially dangerous.

For this reason, they must be kept out of the reach of children and properly disposed of in compliance with local directives.

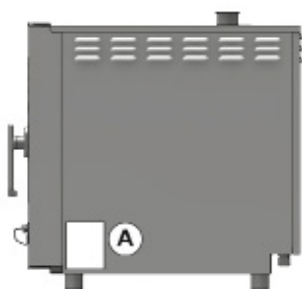
You should separate packaging materials (wood, cardboard, plastic...) and dispose of them separately, in compliance with directives in force at installation site.

Note: Take the protective film off the stainless steel parts by hand before starting the appliance.

Do not use abrasive substances and/or metal objects. Clear any adhesive residues using a sponge soaked in solvent. If the oven is heated up before removing the adhesive film, the removal of the film and cleaning of residues of glue will be much more difficult.

1.4 INFORMATIVE LABELS

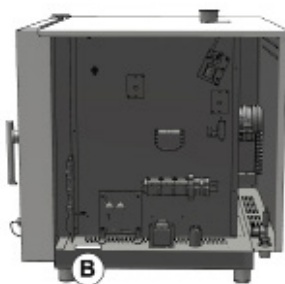
On each oven there are applied some metal labels, that give important info concerning characteristics of the oven, electric and plumbing connections and eventually the drain connection.



On the right hand side panel there is the label A.

The info contained on this label are:

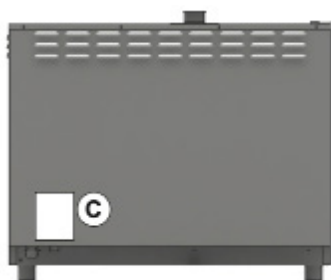
- Name and address of the manufacturer
- Oven model
- IPX protection grade against water jet.
- Conformity to EC directives.
- Power input and power supply (single or three phase).
- Serial number of the oven
- Symbol of European Directive 2012/19/UE



Removing the back side panel, on the oven chassis you find label B.

On this label the serial number of the oven is repeated.

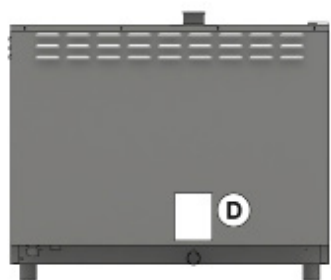
In this way, the customer or the installer can find the serial number of the oven also when the label A is dirty or damaged.



If the oven is equipped with humidification, in the back of the oven, near the connector for water connection there is the label C.

Label C indicates water features necessary for a correct functioning of the oven.

Same features are listed at paragraph 2.4 of this manual.



Close to the drain there is the label D, containing info concerning drain connection.

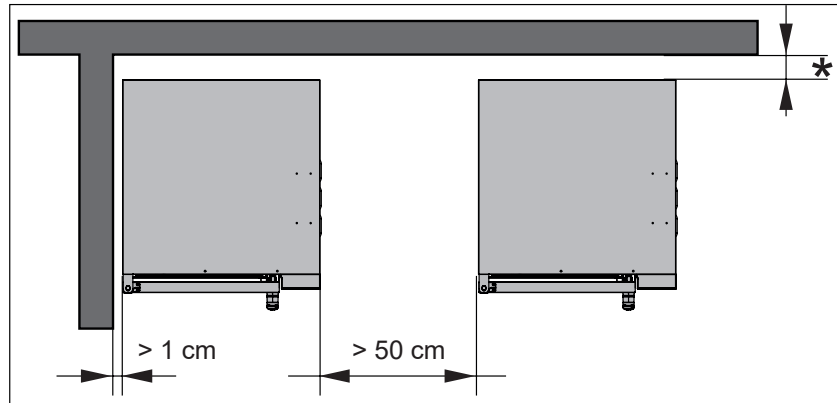
INSTALLATION

1.5 POSITIONING OF THE OVEN

The place where the oven will be installed must comply the following requirements:

- Be protected from atmospheric agents and have an adequate air circulation;
- Comply with regulations concerning safety at work;
- Have a room temperature between 5 °C and 35 °C with a humidification not higher than 70%.
- Place the oven and proceed with levelling using adjustable feet.

*Keep a suitable distance at the back, in order the label of equipotential clamp is easy to see when the oven has been installed.



The same clamp must be easy to access to install equipotential cable after the oven has been installed in compliance with our instructions. Install the appliance in a position that allows access to the right side for installation, maintenance and technical assistance.

Maintain the minimum distances between the oven walls, (rear and right side) and either the brick walls or the other appliances.

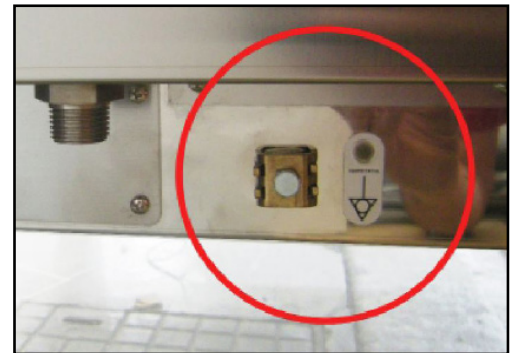
1.6 ELECTRICAL CONNECTION

When the appliance is delivered it is set to work at the voltage given on the rating plate affixed on the right side of the appliance.

The effectiveness of the equipotential system of which the appliance is part of, must conform to current standards.

Connect using the screw you find in the back side of the oven, marked with the word **EQUIPOTENTIAL**.

The Manufacturer declines all and every responsibility if this important accident prevention norm is not complied with. If the feeding cable is damaged, it must be replaced by the technical service or in any case by similar qualified personnel, in order to avoid any risk.



1.7 TECHNICAL DATA FOR ELECTRICAL CONNECTION

Model	Power loading and voltage	no. and motor power	Heating power	Absorbed current	Feed cable section
5 x 1/1 GN Electric	6.1 kW 380 - 415 V 3N~ 50 Hz Analog 50/60 Hz Touch	1 x 250 W	5.8 kW	10.0 A	5 x 2.5 mm ²
10 x 1/1 GN Electric	12.2 kW 380 - 415 V 3N~ 50 Hz Analog 50/60 Hz Touch	2 x 250 W	11.6 kW	20.0 A	5 x 4.0 mm ²
15 x 1/1 GN Electric	18.2 kW 380 - 415 V 3N~ 50 Hz Analog 50/60 Hz Touch	3 x 250 W	17.4 kW	28.0 A	5 x 6.0 mm ²

2.4 TECNICAL DATA TABLE FOR THE WATER SYSTEM

	5 x 1/1 GN	10 x 1/1 GN	15 x 1/1 GN
Water flow rate regulator for steam generation in combi and steam cycle	Ø 0.4 mm	Ø 0.4 mm	2 x Ø 0.4 mm
Water flow rate regulator drain steam condenser.	Ø 0.7 mm	Ø 0.7 mm	Ø 0.7 mm

2.5 HYDRAULIC CONNECTION – WATER INLET

The ovens have a water inlet coupling at the back. Always install an on-off valve between the appliance and the water mains, making sure it is easy to operate.

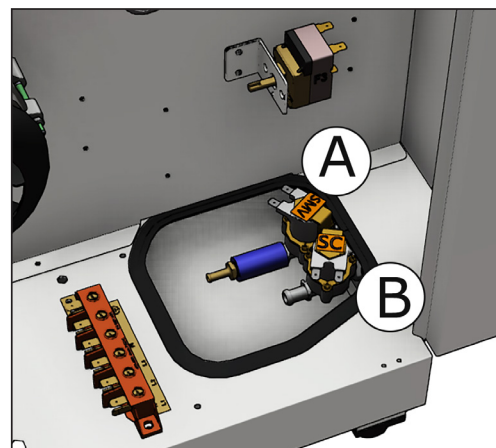
We also suggest installing a cartridge filter on the water inlet pipe.

Always use a set of new water joints, eventual old joints must not be used again.

Plumbing connection must be always effected with cold water and rigid pipes.

Never use hoses to connect the oven to the water main.

The solenoid valve (A) supplies the steam generation in Steam and in Combination cycle and the solenoid (B) supplies the steam condensation system that comes out of the drainpipe.



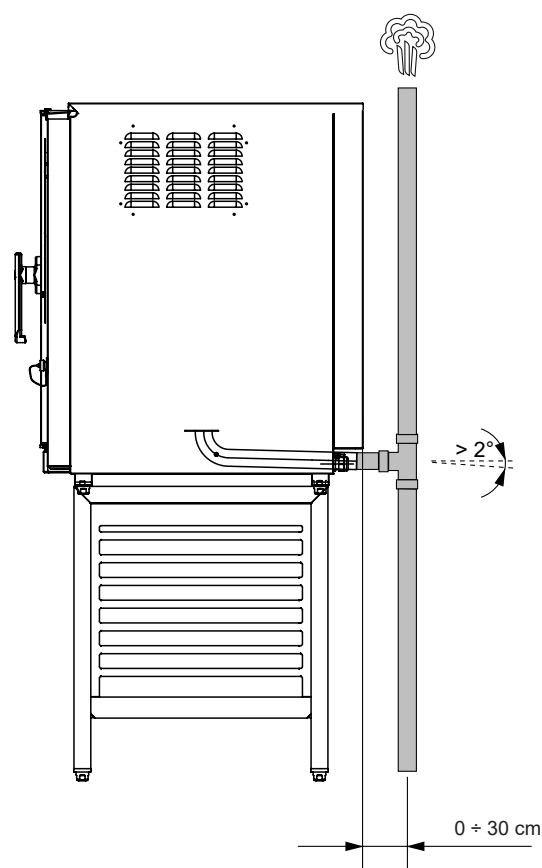
2.6 PLUMBING – WATER DRAINAGE

Drainage for the water is at the back of the oven and must be connected directly to the end of the stainless steel drainpipe.

The drain must have no trap and be made in rigid pipes that can withstand a temperature of 110°C.

Under no circumstances must pipe diameter be reduced. The actual pipe should be at atmospheric pressure with the appropriate funnel type air intake.

If the drainpipe is clogged for any reason steam can escape from the door and bad smells can be created inside in the oven.



3.0 CONTROL AND SAFETY DEVICES

The ovens are equipped with a set of control and safety devices for the electric and hydraulic circuits.

3.0A 2A fuse: it is in the auxiliary circuit to protect against short circuiting of the electrical system and is inside its own support on the contactor's fixing bracket.

3.0D Motor overload protection: a thermal probe disengages the motor when, for various reasons, there is an overload. When the overload protection triggers it stops the motor and also disconnects the heating elements or the gas valve. The probe is reset automatically when motor temperature drops.

3.0E Oven safety thermostat: disconnects the heating element or the gas valve when anomalies related to overheating occur. Subsequent re-set will have to be done manually when causes for thermostat operation have been determined.

3.0F Door micro switch: it stops the oven working when the door is opened.

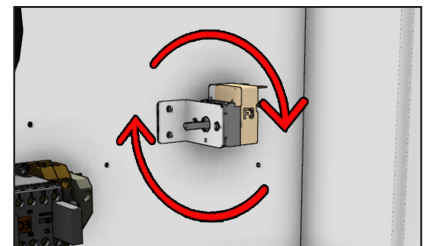
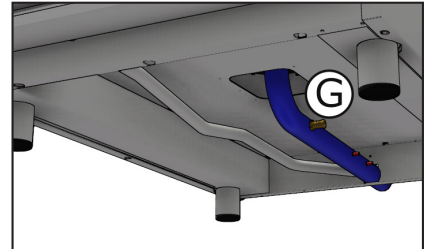
3.0G Thermostat system for condensation of discharge steam: it comprises a solenoid valve controlled by a thermostat whose sensor is housed in contact with the discharge.

The solenoid valve, via the injector (G), lets cold water into the drainpipe to condense the steam when a temperature of 90°C is reached. Removing the side panel of the oven and acting on the F3 adjuster, it's possible to modify the condensation system in the following way: if you turn the thermostat pin F3 counterclockwise until you hear a click, the function is disabled.

If you turn the pin counterclockwise without reaching the limit stop, steam condensation system activates when the temperature in the drain pipe is around 30 °C.

If you turn the pin counterclockwise till limit stop, condensation system activates when the temperature inside the drain is around 90 °C.

In our factory the ovens are supplied with F3 thermostat regulated at 90 °C.



3.1 REPLACING SPARE PARTS

The replacement of damaged parts must be done only by qualified personnel.

To request the manufacturer parts to be replaced must be provided the oven model and serial number.

These data can be found on the rating plate attached to the oven (see par. 1.4).

Before starting to replace spare parts make sure, for safety reasons, that the electricity main switch is off and that the water on-off valve are closed.

3.2 CHECKING THE FUNCTIONS

After completing the installation of the oven is necessary to perform a leak test to the water network.

The installer must check with suitable measurement instruments that the air noise emissions have a level of sound pressure type weighed A, less than 70 dB (A).



The label ISO 3864-1 here on the side must be stuck on a visible surface, 1,6 mt height from the ground.

On floor models, the label is already stuck in the suitable position.

On table models, the label is supplied along with the documentation and must be stuck after installation on a visible part of the appliance at 1.60 mt from the ground.

The installer must verify proper operation of the oven, providing the necessary instructions to the customer and give this instruction manual that the user must follow carefully.

IMPORTANT:

Before the operator turns the oven on and uses it for any cooking or washing cycle, it is necessary that the installer or a qualified technician checks all the connections have been done up to the instructions stated in our manual. The technician or the installer must therefore check as follows:

- The oven must stand (horizontal position) and be fixed on a stand or a shelf, that can guarantee stability.
- Wiring connection must be effected according to the directives and the feed cable section must be no lower than the one indicated in the manual.
- Pressure and hardness of the water must comply the values indicated in this manual;
- If the oven is supplied with drain pipe, this must be connected properly and the materials used should withstand the working temperature.

After you have checked everything, open the water on-off valve, eventually the gas on-off valve and the protection switch, all installed upstream.

The installer must check the proper functioning of the oven and give to the operator necessary instructions for a correct use of the oven, and also verify that the operator owns a copy of this manual.

At the end the installer must fill in and sign the chart for correct installation and give it to the customer, who will keep it for all warranty period of the oven.