



Paolo

OVEN

Pre-installation and installation manual

PL4351
PL4352



alk.



This oven has been designed with the utmost care and undergone rigorous tests in our laboratories and for this reason we guarantee its absolute safety and functionality.

The installation must be carried out by **professionally qualified** staff, that can take responsibility for the installation and guarantee the best safe operating conditions.

Before the installation, read the content of this manual **carefully**: it contains important information regarding product assembly and safety regulations.

Technical service

The Dealer can solve any technical problem regarding installation.

Do not hesitate to contact him in case of doubt.

CUPPONE 1963
Cuppone F.lli S.r.l.
Via Sile, 36
31057 Silea (TV) - ITALY
T +39 0422 361143
F +39 0422 360993
info@cuppone.com - www.cuppone.com

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1 CHECKS BEFORE PURCHASING

Before purchasing the oven and before its installation, **check and agree with the owner** that, on installation, all the following conditions are met; they are indispensable for the correct and safe installation, operation and maintenance of the oven.

A	Check with the owner if in the place of installation there are the tools to handle the oven easily ► Fig. 1
✓	To handle the oven correctly, it is necessary to:
	<ul style="list-style-type: none"> • have personal protection equipment available (e.g. safety shoes, gloves, etc.) • have lifting equipment available that can handle the appliance safely (check weight and dimensions in the following pages), together with staff qualified to carry out this operation.
B	Check the dimensions of the selected oven and accessories
✓	<ul style="list-style-type: none"> • check that the dimensions of the selected oven are suitable to the available space in the installation room. • check that the cooking chamber capacity is adequate to the owner's needs.
	 The "Technical data" section from page 6 contains the weights and dimensions of the cooking chamber.

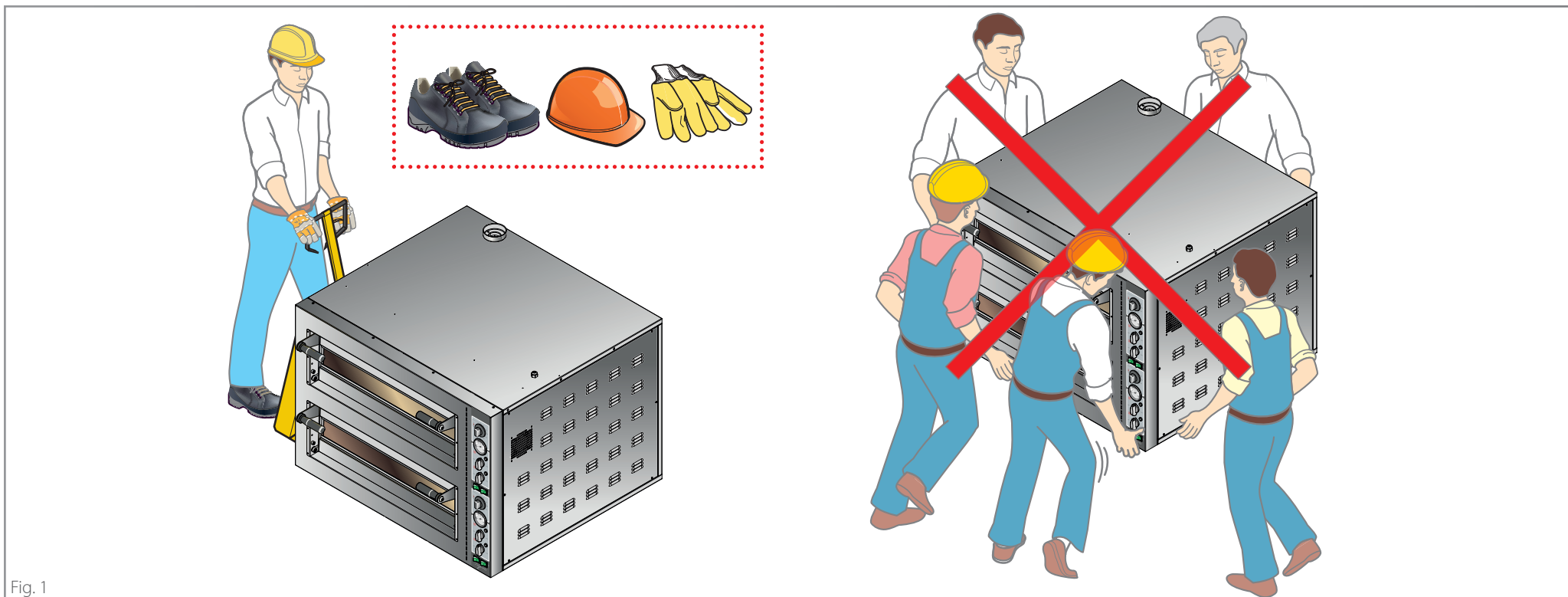








Fig. 1

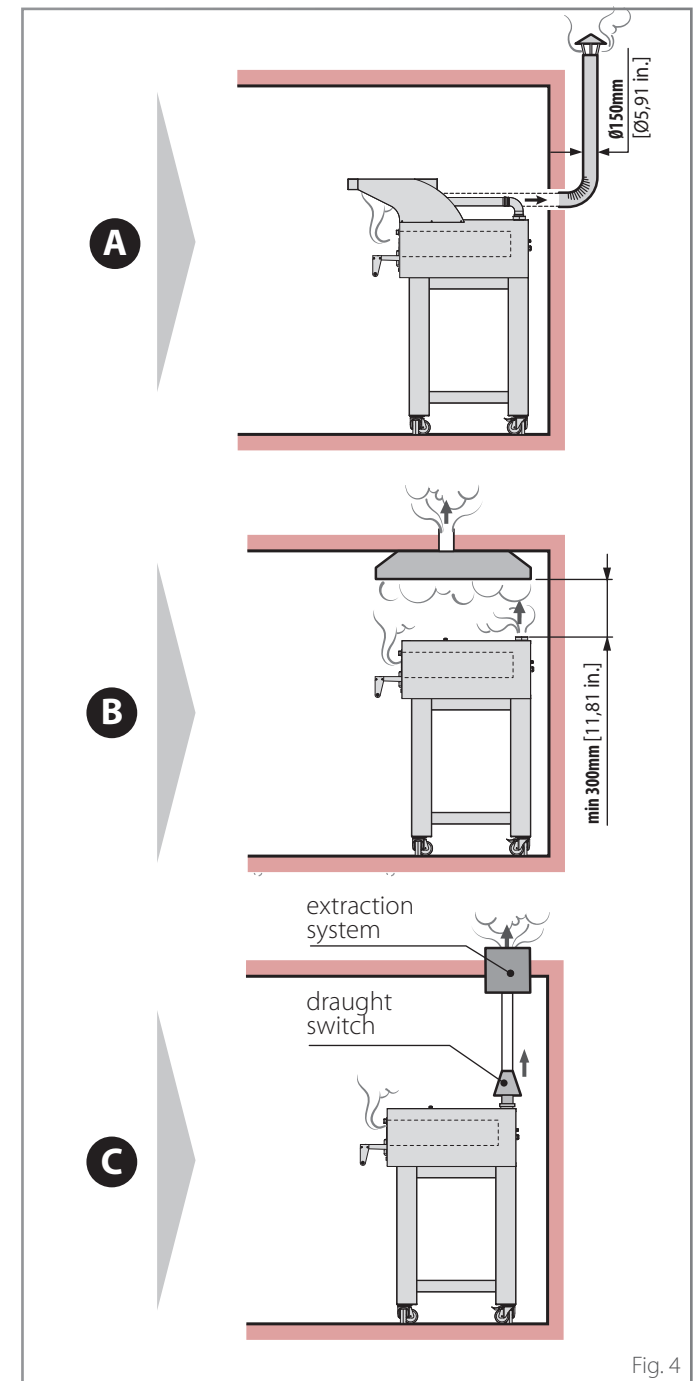
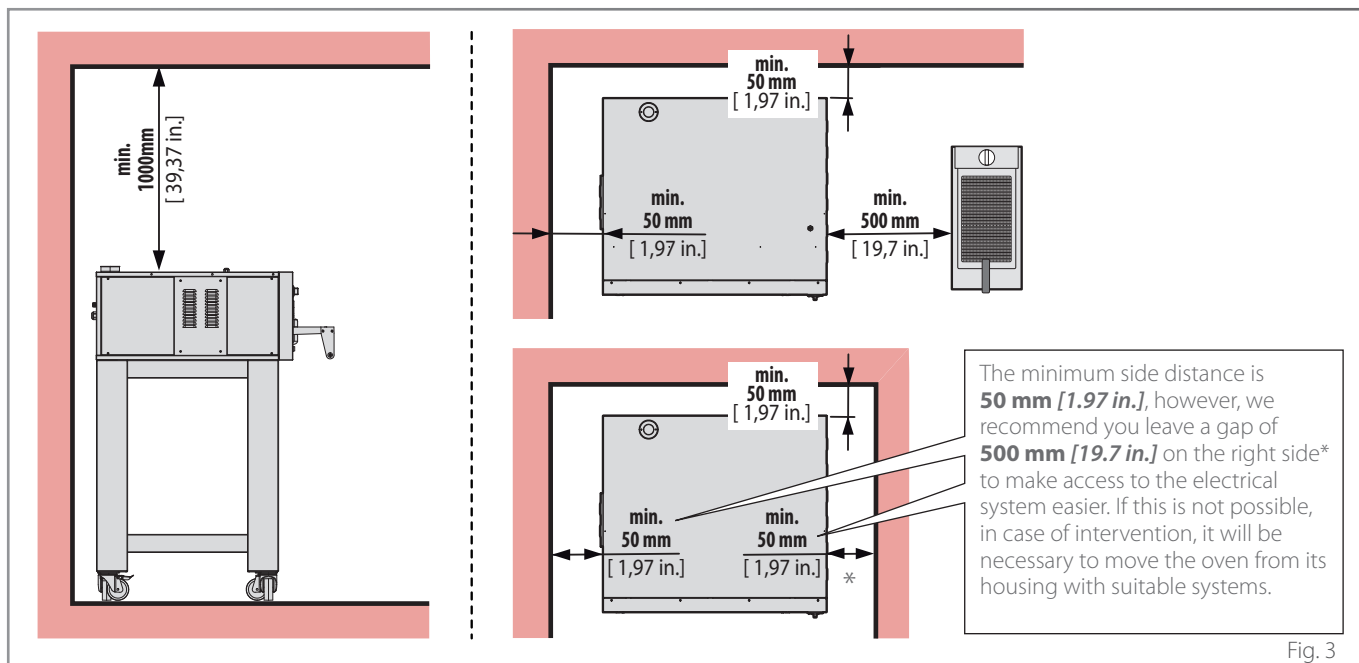
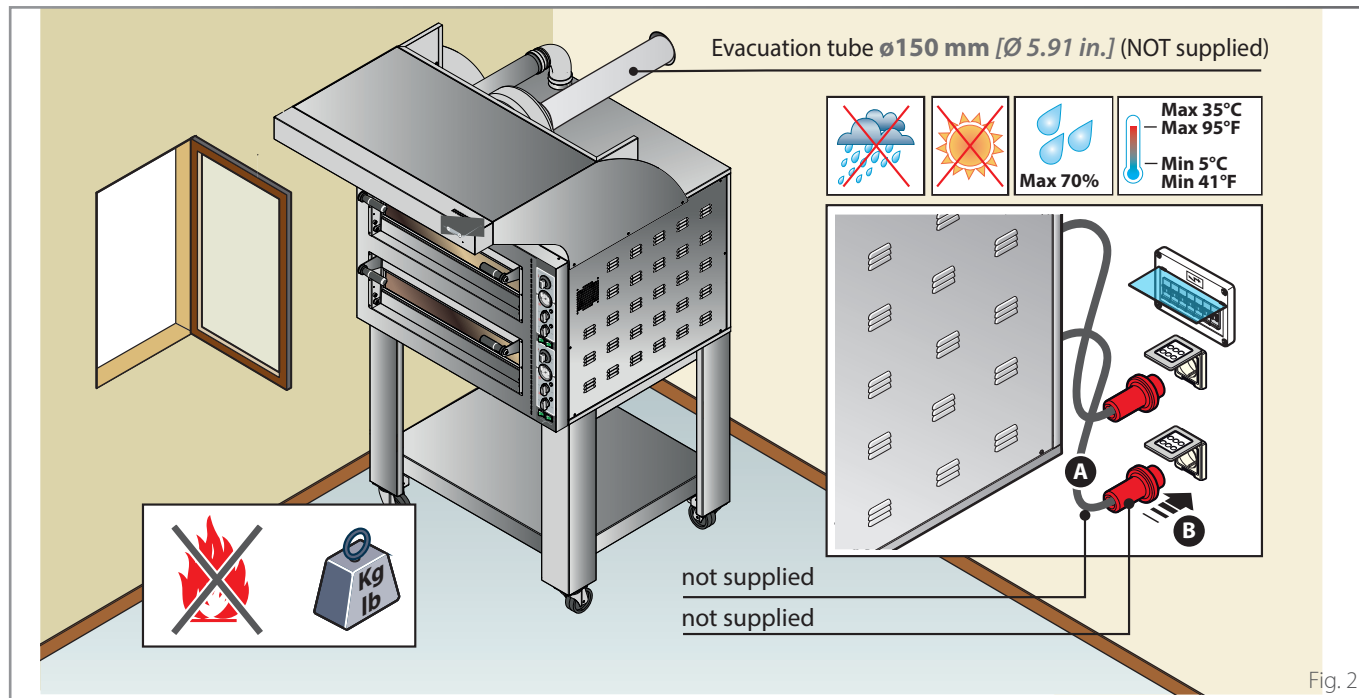
Checks before purchasing

C	Survey the installation room to make sure it is adequate.																							
✓	Make sure that ► Fig. 2																							
	<ul style="list-style-type: none">the floor of the installation room is fireproof, perfectly level and capable of withstanding the weight of the appliance; <table><tr><td>Model</td><td>single</td><td>double</td><td>Model</td><td>single</td><td>double</td></tr><tr><td>PL435</td><td>122 kg [268,9 lb]</td><td>209 kg [460,7 lb]</td><td>TP635L</td><td>159 kg [350,5 lb]</td><td>278 kg [612,8 lb]</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						Model	single	double	Model	single	double	PL435	122 kg [268,9 lb]	209 kg [460,7 lb]	TP635L	159 kg [350,5 lb]	278 kg [612,8 lb]						
Model	single	double	Model	single	double																			
PL435	122 kg [268,9 lb]	209 kg [460,7 lb]	TP635L	159 kg [350,5 lb]	278 kg [612,8 lb]																			
	<ul style="list-style-type: none">The oven must be placed on a base, built by the Manufacturer or by yourself that:<ul style="list-style-type: none">is flame and heat resistant;is perfectly stable and level;withstands the weight of the appliance.																							
	<ul style="list-style-type: none">the installation room:<ul style="list-style-type: none">is dedicated and suitable to cooking food;has adequate air ventilation;contains no flammable or explosive elements;complies with the current regulations on health and safety and systems in the workplace;is protected from the weather;has a maximum temperature of between +5° (41°F) and +35°C (95°F);has a maximum humidity of 70%.																							
	<ul style="list-style-type: none">the appliance passes through the doorways easily.  When choosing the positioning room, take into account that the appliance must be easy to move for any extraordinary maintenance: be careful that any brickwork after installation (e.g.: wall construction, replacement of a door with a narrower one, renovations, etc.) do not hamper movements.																							
	<ul style="list-style-type: none">there are NO other sources of heat (i.e. grills, fryers, etc.), highly flammable substances or fuels (i.e. gasoline, petrol, bottles of alcohol, etc...) in the vicinity of the appliance.																							
	<ul style="list-style-type: none">there is adequate ventilation according to the regulations in force in the Country of installation. If this is not the case, a ø140 mm air intake is mandatory, communicating with the outside or a ventilated room (i.e. storeroom, attic, garage, basement).																							

	<ul style="list-style-type: none"> it is possible to maintain a minimum distance between the oven and the walls, other equipment, objects and combustible materials ► Fig. 3 In the event of proximity to hot or cold appliances, keep a distance of 500 mm [19.7 in.].  It is absolutely necessary to comply with the minimum stated safety distances. The distances must be increased in case of objects in heat-sensitive materials.
	<ul style="list-style-type: none"> there is an evacuation flue for the exclusive use of the equipment, which complies with current regulations and which has a diameter that allows the passage of an evacuation tube of Ø150 mm [Ø 5.91 in.].  The oven is equipped with a smoke outlet located at the top for the evacuation of the vapours from the cooking chamber (you can find its exact position in the "Technical data" section starting on page 6). This steam, together with the one from the door during the work phases, must be conveyed outside in one of the following ways: A through a hood supplied by the Manufacturer that ensures perfect compatibility with the oven. For correct assembly and fixing to the oven, see the sheet attached to it; the evacuation flue must be for the exclusive use of the appliance, comply with current regulations and have a diameter that allows the passage of a Ø150 mm [Ø 5.91 in.] evacuation pipe which corresponds to the diameter of the tube to be fitted on the hood (not supplied). B through a hood belonging to the user, of suitable capacity, placed at about 300 mm [Ø 11.81 in.] from the oven; C through an adequate extraction system supplied by the user connected to the oven flue: in this case a draught switch must be installed between the extractor and the oven chimney (the extractor, switch and tube are not supplied by the Manufacturer). In this type of installation, the fumes resulting from the opening of the door will not be extracted.

D	Inform the owner about the necessary electrical arrangements (activities to be carried out by a qualified electrician)
✓	For a correct connection ► Fig. 2:
	<ul style="list-style-type: none"> provide sockets connecting to the electrical network near the oven. If the oven has a double chamber, there must be two connecting sockets.  The "Technical data" section from page 6 contains all the electrical data as well as the positions of the supply cable and equipotential terminal.
	<ul style="list-style-type: none"> use a connection cable A and a plug B: appliances are supplied without either power cable or plug: they must both be fitted by qualified personnel. The cable must be only of the type stated and the plug fitted to it must be suitable for the consumption and connection of the oven to the electrical mains.
	<ul style="list-style-type: none"> check that the systems in the room comply with the legal provisions in force in the country of use and meet the specifications on the serial number plate. For a correct electrical connection, the appliance must: <ul style="list-style-type: none"> be included in an equipotential system in compliance with the legislation in force. This connection must be made between the various devices with the terminal marked with the equipotential symbol . The cable must have a maximum cross-section of 10 mm² (in compliance with IEC EN 60335-2-42:2003-09) and must be yellow-green; must be grounded  to the mains (green-yellow wire); must be connected to a thermal differential switch in compliance with the regulations in force (0.03A A type); must be connected to an omnipolar circuit breaker allowing complete disconnection in overvoltage III category conditions.

Checks before purchasing



2 OVEN TECHNICAL DATA

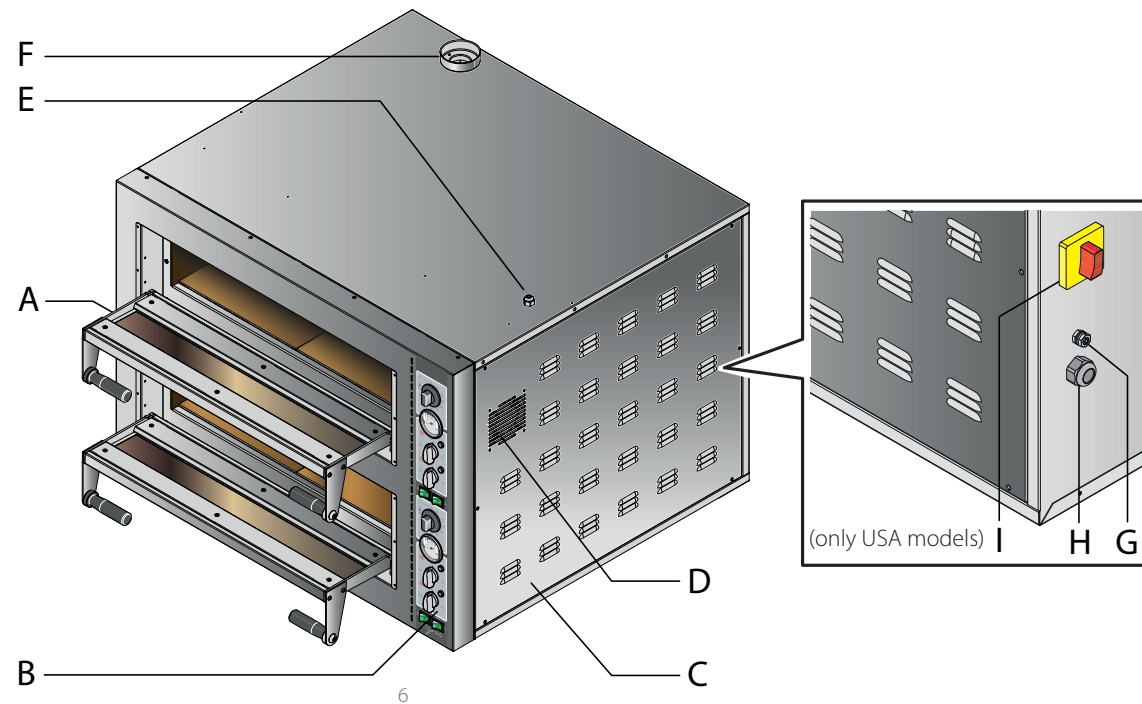
Electrical data

VALUES FOR EACH INDIVIDUAL CHAMBER						
Model	Power supply [V]	Power [Kw]	Average consumption [kWh]	Absorption [A]	Connection cable* [Nxmm2]	Customer panel protection* [Nx A]
PL435	230V	5.3	3.2	23.0	3x2,5	2x25
	3Nx400V			7.6	5x1	4x16
	3x230V			13.3	4x1,5	3x16
	3x208V	5.8	3.5	16.0	4xAWG15	3x16

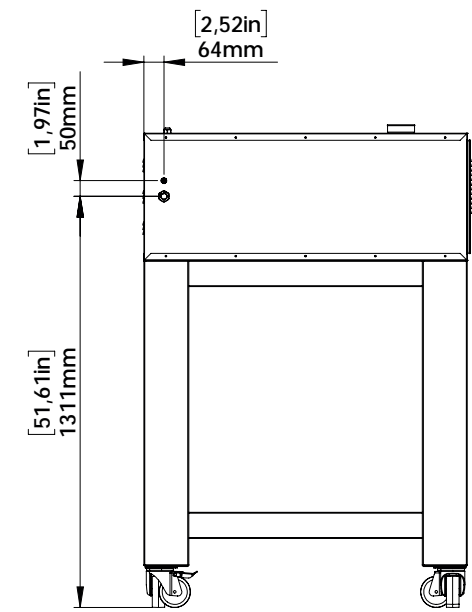
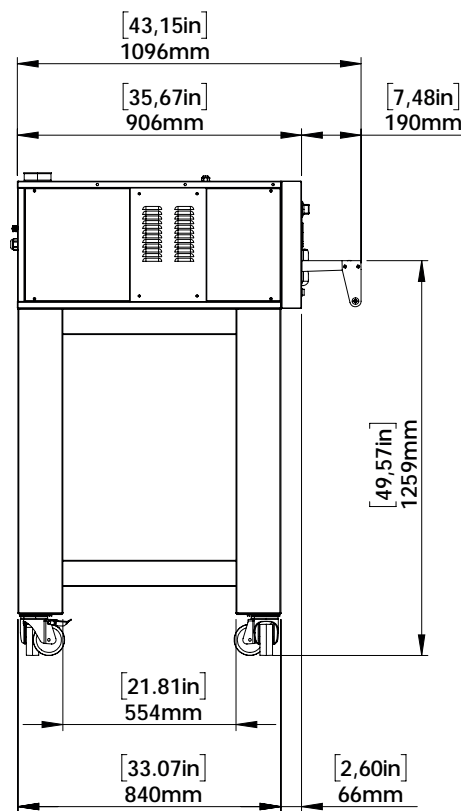
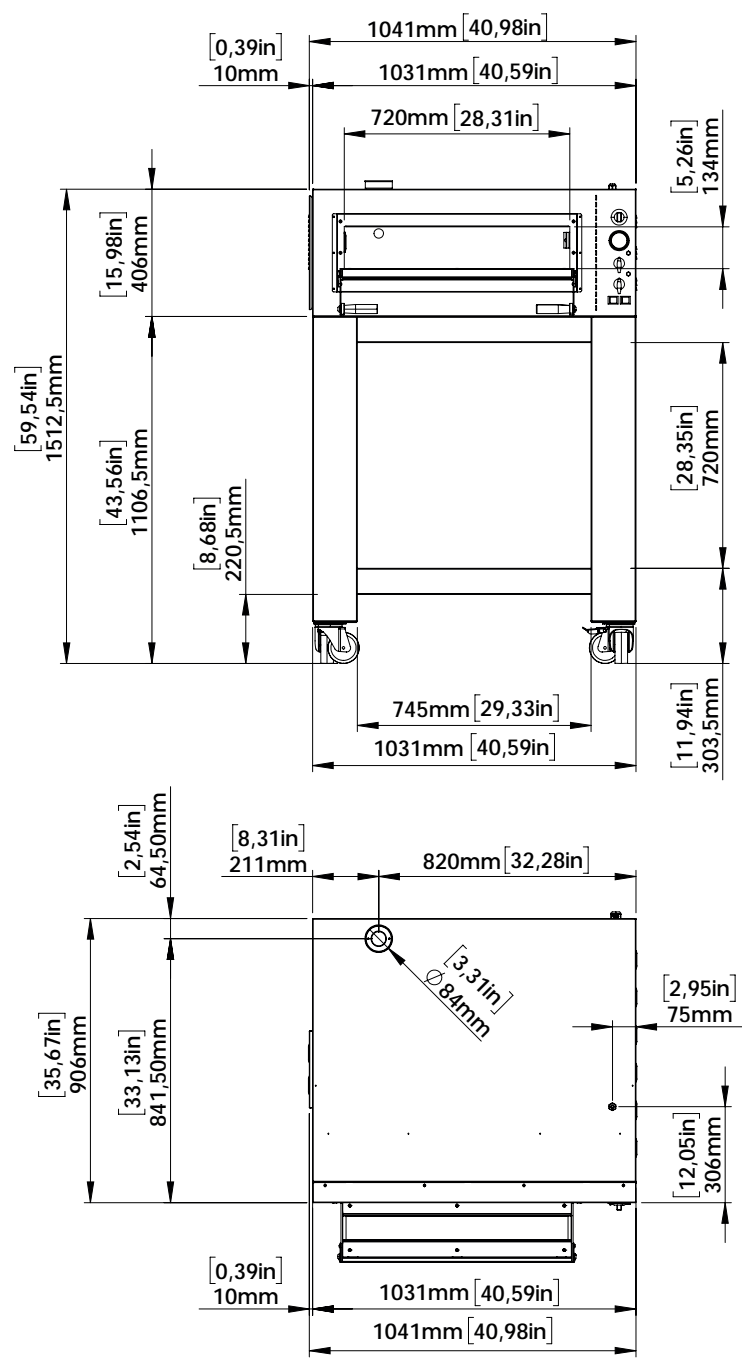
* Warning: the values indicated refer to an oven chamber. Double ovens have 2 inlets and therefore 2 different lines


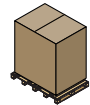
Key

- (A) Oven door
- (B) Control panel
- (C) Panel to access electrical components
- (D) Technical room fan
- (E) Hood supply input
- (F) Oven smoke exhaust
- (G) Equipotential
- (H) Oven supply input
- (I) Circuit breaker (only USA models)

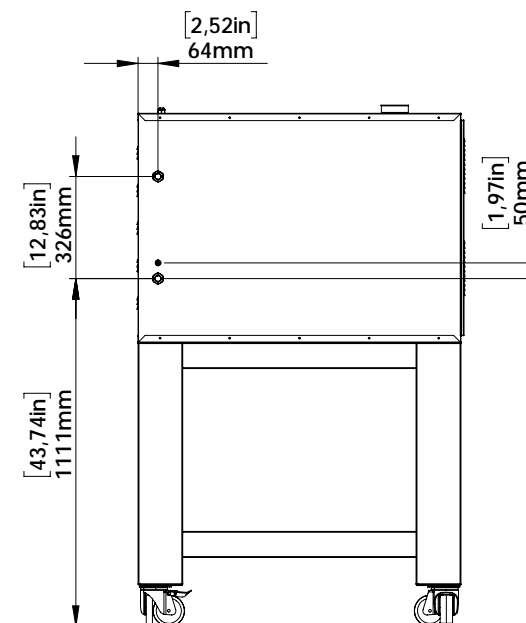
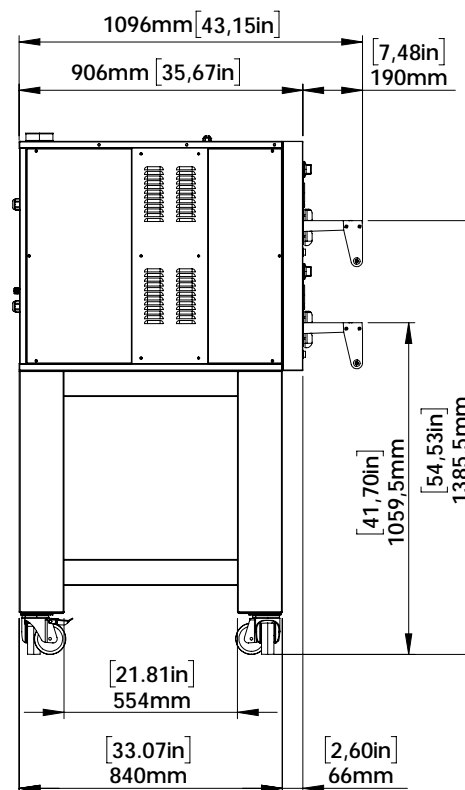
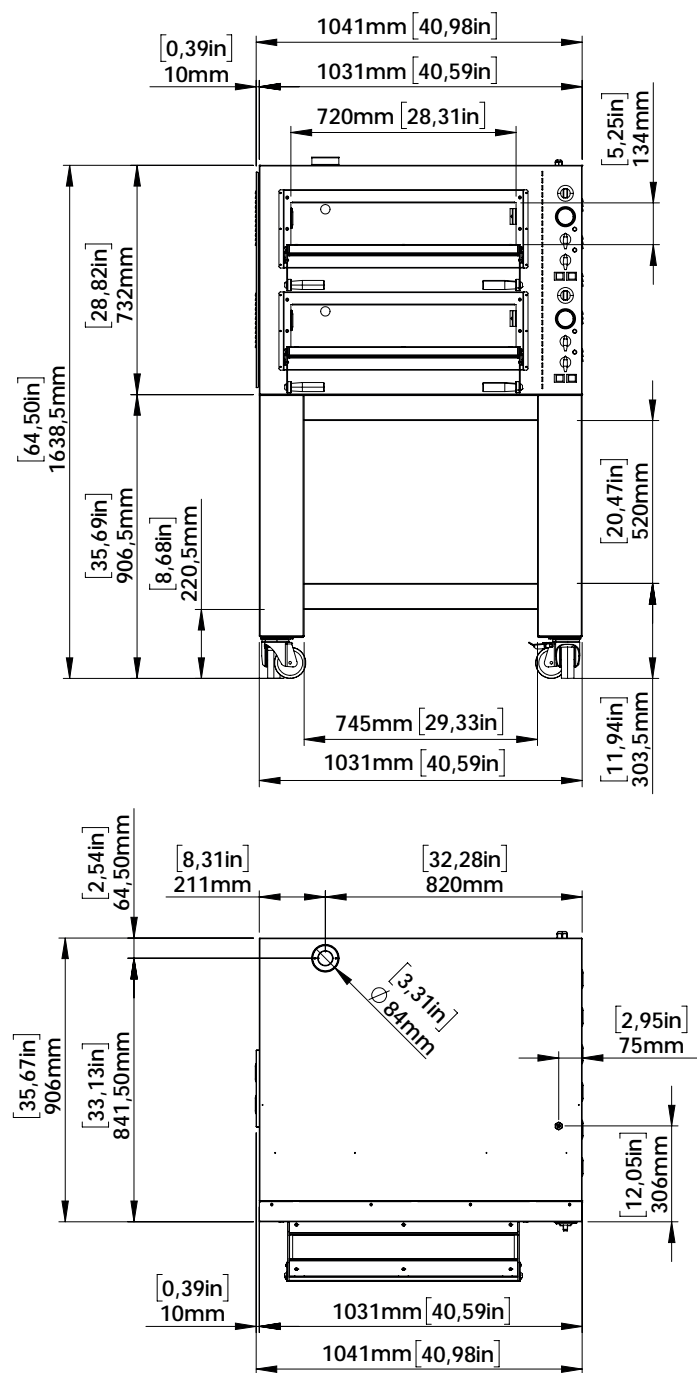



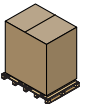
LLKPL4351 oven technical data | single



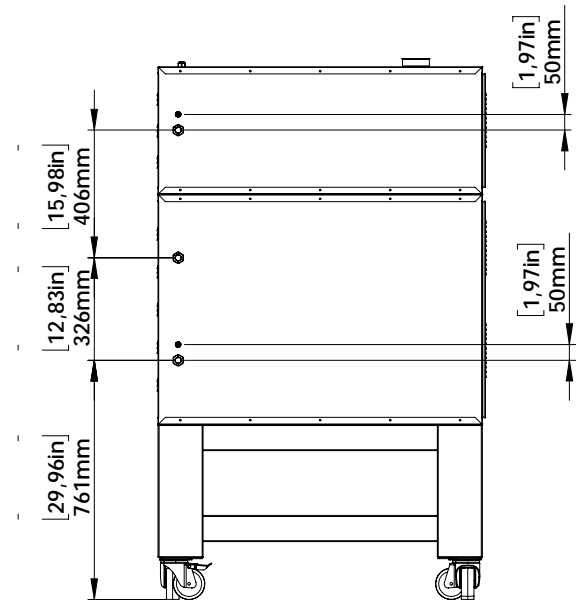
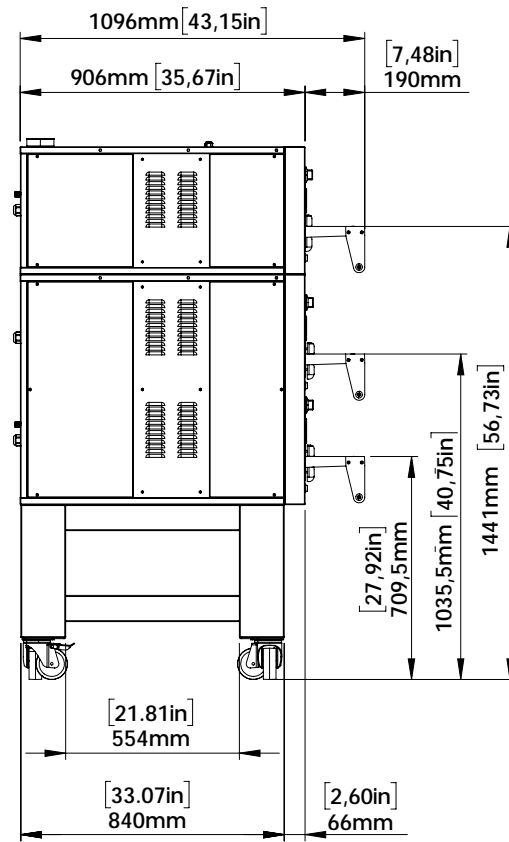
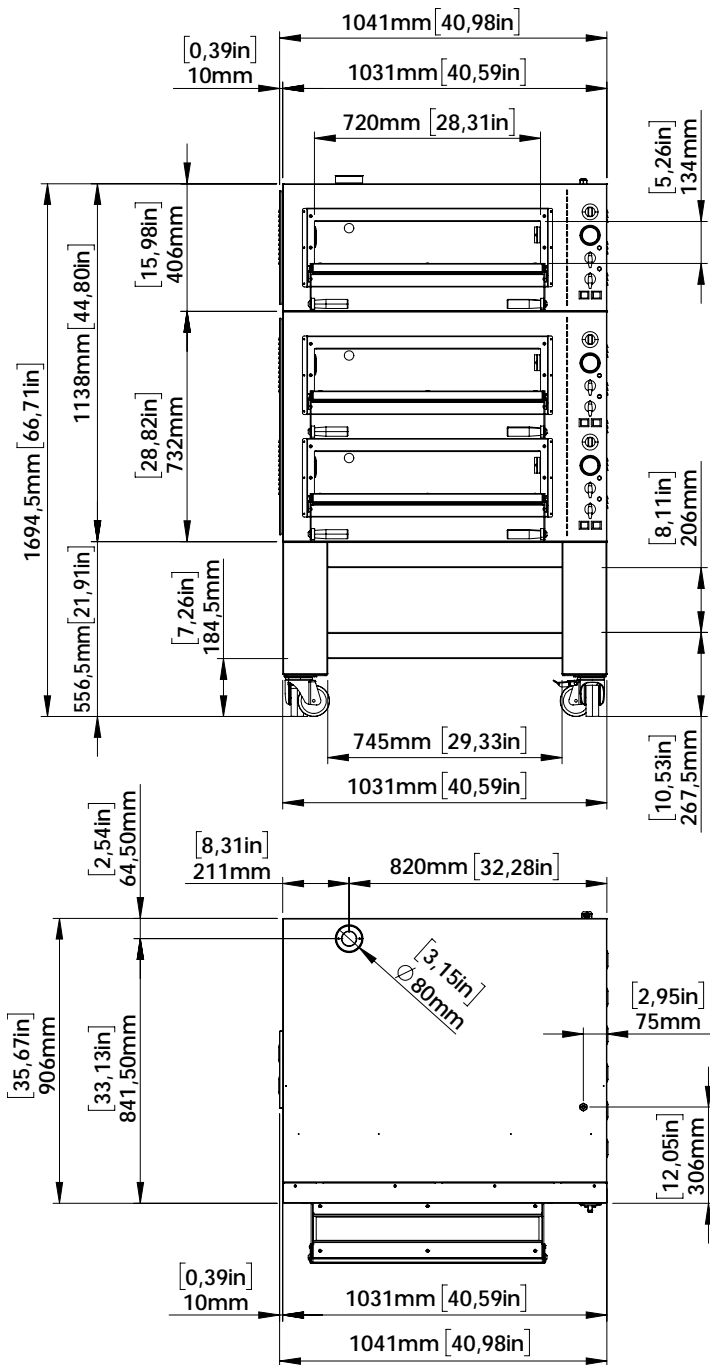
	TP 435 single oven weight 122 kg [268,9 lb]
	weight of packaging + TP 435 single complete oven 139 kg [306,4 lb]
	TP 435 single oven packaging dimensions 1060x1094x592 [41.73x43.07x23.31 in.]

LLKPL4352 oven technical data | double

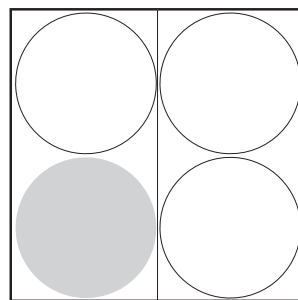
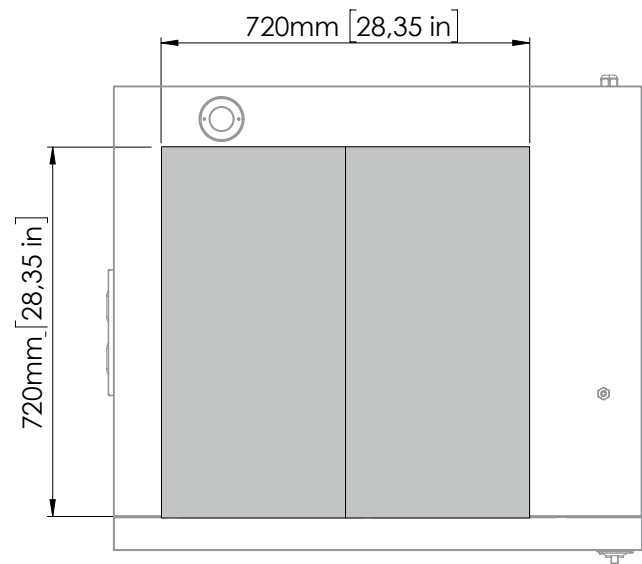


	TP 435 double oven weight 209 kg [460,7 lb]
	weight of packaging + TP 435 double complete oven 277 kg [610,6 lb]
	TP 435 double oven packaging dimensions 1060x1094x916 [41.73x43.07x36.06 in.]

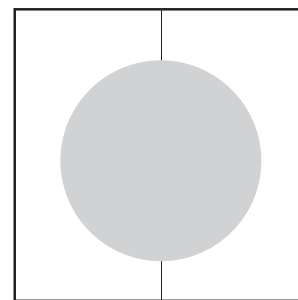
LLKPL4352 + LLKPL4351 oven technical data | triple



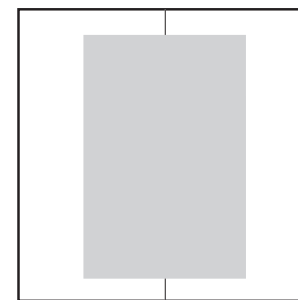
PL435 oven technical data | capacity



PIZZA Ø 35 cm [13.78 in.]



PIZZA Ø 50 cm [19.69 in.]

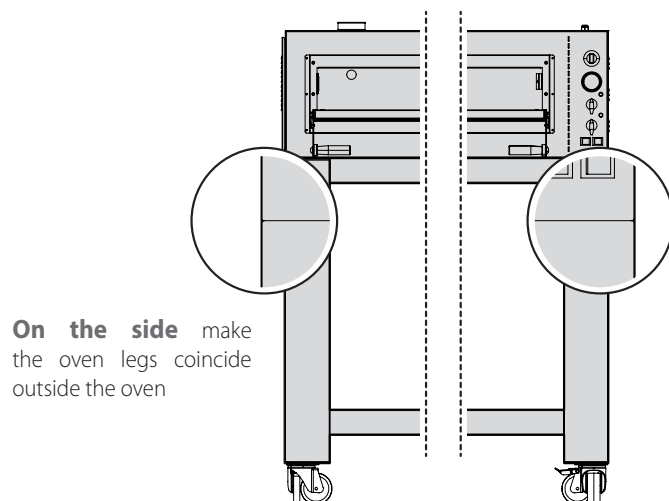


TRAY 60x40 cm [23.62x 15.75 in.]

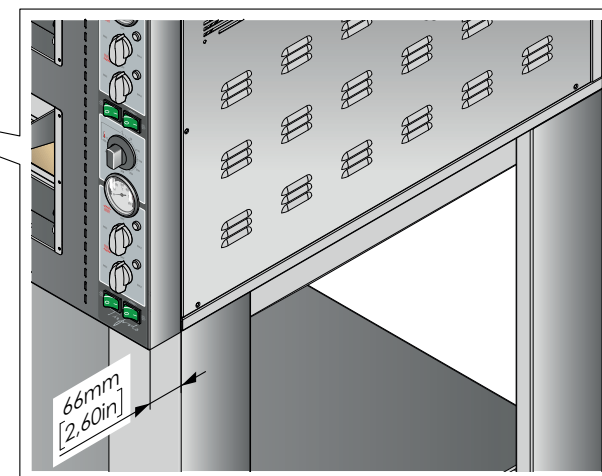
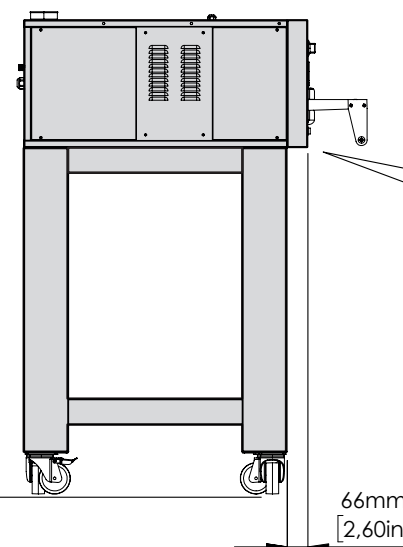
	Ø PIZZAS	PRODUCTIVITY PER HOUR	BATCHES
●	Ø 35 cm [Ø 13.78 in.]	40-44 pizzas	10-11
●	Ø 50 cm [Ø 19.69 in.]	10-11 pizzas	10-11
■	60x40 cm [23,62x15,75 in.]	5-6 pizzas	5-6

chamber height: 140 mm [5.51 in.]

ALIGNMENT OF THE OVEN WITH THE SUPPORT



at the front align the legs of the support inside the oven façade (the façade must protrude 66 mm [2.60 in.]



Safety instructions

- Read this guide carefully before installing the appliance, and keep it with care in an accessible place for any future consultation by the various operators.
- Moreover, the manual must always accompany the product through its life, even in case of transfer.
- Before any movement or installation, check that the room is suitable and systems comply with the installation country standards and the specifications indicated on the appliance rating plate.
- All installation, assembly and non-routine maintenance operations must be performed exclusively by qualified technicians that are authorised by the Manufacturer, in compliance with the regulations in force in the user country, and with the regulations on systems and work safety.
- These appliances are intended to be used for commercial applications, for example in restaurant kitchens, canteens, hospitals and commercial companies such as bakeries, butcher shops, etc., but not for the continuous and mass production of food. A use other than the stated one is considered improper, potentially dangerous for people and animals and might permanently damage the appliance. The improper use of the equipment shall void the warranty.
- Before performing any maintenance, replacing components or carrying out any routine/extraordinary cleaning, disconnect the electricity supply.
- Unauthorised actions, tampering or modifications that do not follow the information provided in this manual can cause damages, injuries or fatal accidents and null and void the warranty.
- It is forbidden to install the oven in environments at risk of explosion.
- Installation or maintenance that fails to comply with the instructions in this manual may cause damage, injury or fatal accidents.
- Persons not involved with the appliance installation may not pass through or stand in the work area during appliance assembly.
- The serial plate provides important technical information. This is vital in case of a request for maintenance or repair of the equipment: please do not remove, damage or modify it.
- Failure to follow these regulations may cause damage or even fatal injury, subsequently invalidating the guarantee and relieving the Manufacturer of all liability.

Symbols used in the manual and on the labels applied to the machine



Indicates that caution is required when performing an operation described in a paragraph that bears this symbol. The symbol also indicates that maximum operator awareness is required in order to avoid unwanted or dangerous consequences



Reference to another chapter where the subject is dealt with in more detail.



Manufacturer's tip



Indicates that the surfaces marked with this symbol may be hot and must therefore be touched carefully



Dangerous voltage



The symbol identifies the terminals which, connected to each other, carry the various parts of a device or system to the same potential (not necessarily the earth potential)



Indicates that it is necessary to read carefully the paragraph marked with this symbol before installing, using and maintaining the equipment

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Installation

Transport

► Fig. 5

Fitted with personal protection equipment, transport the appliance to the installation location.

Use a suitable vehicle capable of withstanding the weight of the same.

Model	single	double	Model	single	double
PL435	122 kg [268,9 lb]	209 kg [460,7 lb]	TP635L	159 kg [350,5 lb]	278 kg [612,8 lb]

Persons not involved with the appliance installation may not pass through or stand in the work area during the transport of the appliance.

During the transport, pay particular attention to passing through openings and/or doors.

Preliminary operations

► Fig. 6

Carefully remove the protective film.

If any glue residue is left on the surfaces, remove it with soapy water but without any corrosive or abrasive products or sharp or pointed instruments.

⚠ Check that all the parts making up the oven are in good condition and without any faults or breakages, if that is not the case, contact the Retailer for the procedures to follow.

Packaging disposal

before starting to install the oven, dispose of the packaging in accordance with the regulations in force in the country of installation.

⚠ Caution, suffocation hazard! If left unattended, packaging could be potentially dangerous for both children and animals.

⚠ Caution, hindrance hazard! If left unattended, packaging could hinder vehicles and installers during assembly operations.



Fig. 5

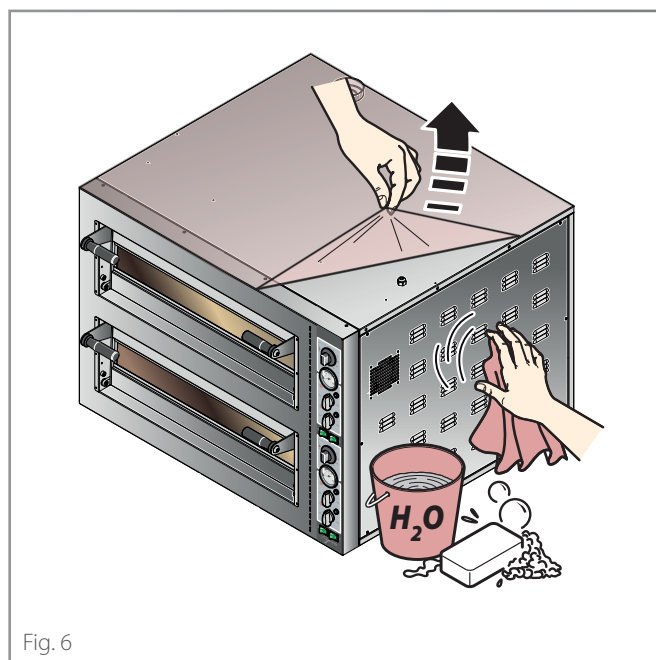


Fig. 6

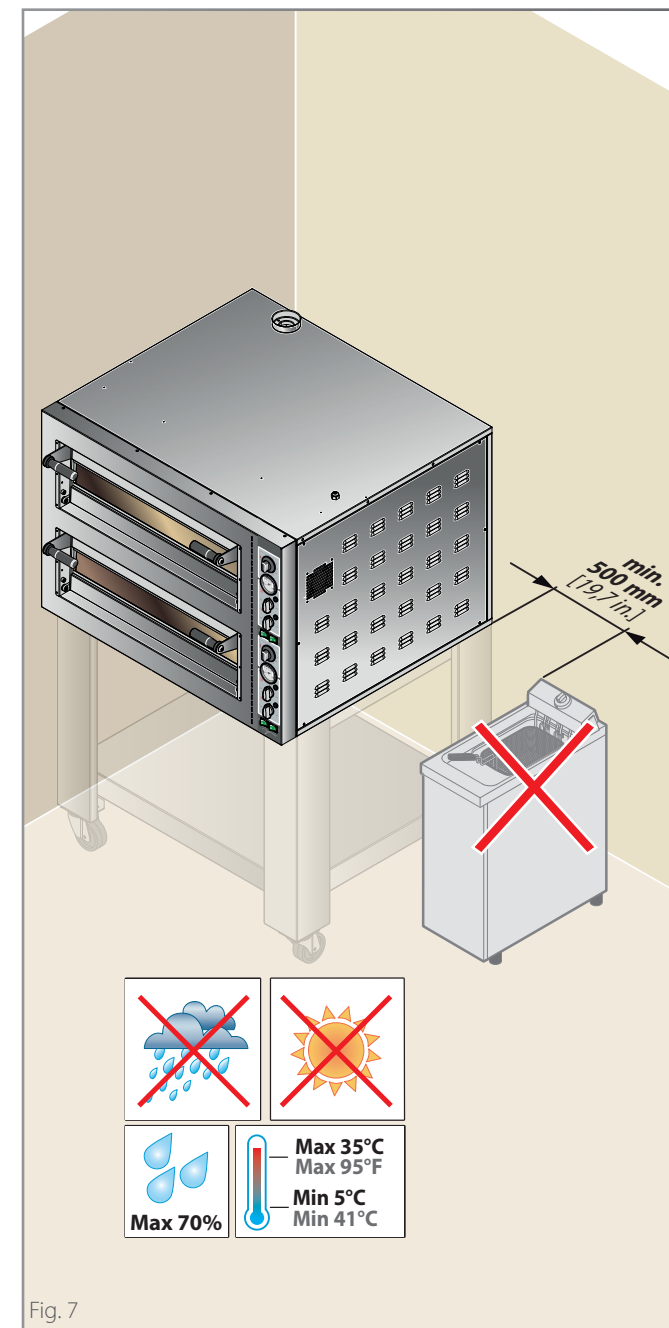


Fig. 7

Positioning

► Fig. 8

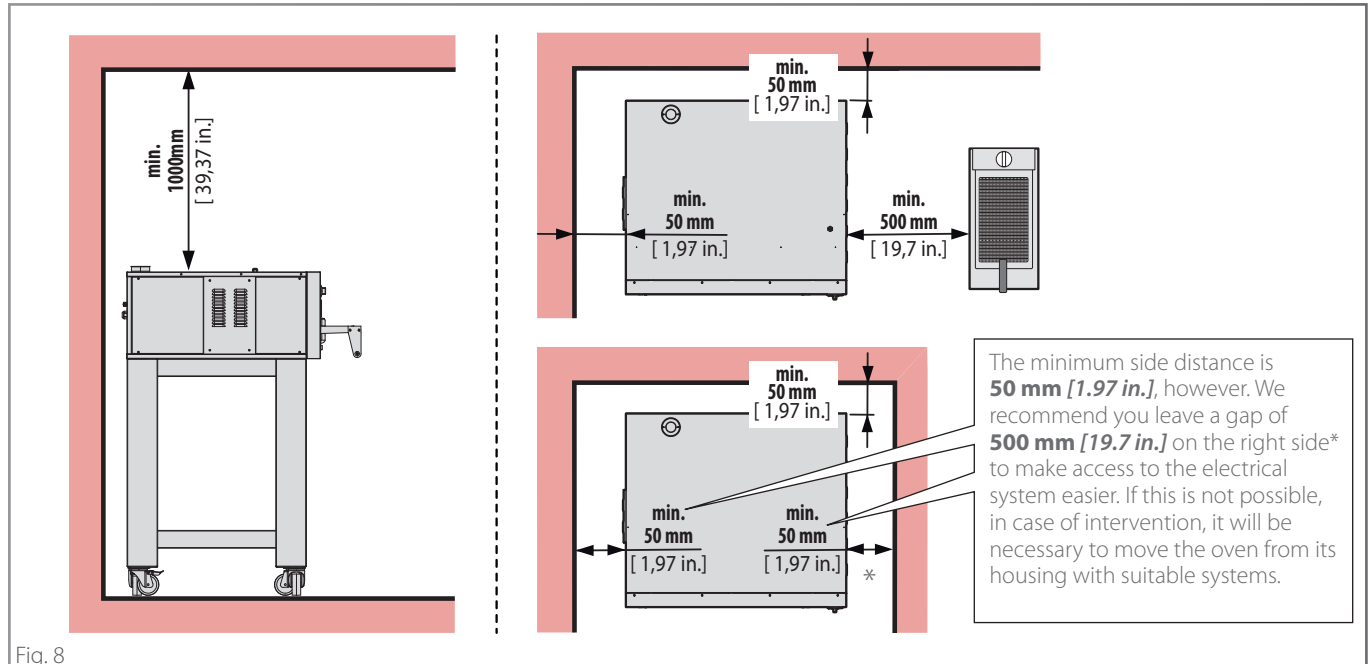
The positioning room must comply with the instructions provided on page 4 and 5. Comply with the measurements shown in the figure.

► Fig. 9

The oven must be placed on a base, built by the Manufacturer or by yourself that:

- is flame and heat resistant;
- is perfectly stable and level;
- withstands the weight of the appliance.

Model	single	double	Model	single	double
PL435	122 kg [268,9 lb]	209 kg [460,7 lb]	TP635L	159 kg [350,5 lb]	278 kg [612,8 lb]



Serial number plate reading

► Fig. 10

The serial number is on the right hand side of the appliance. It provides important technical information that is vital in case of a request for maintenance or repair of the appliance: please do not remove, damage or modify it.

Smoke extraction

The oven is fitted with a flue in the top to get rid of the steam from the cooking chamber.

This steam, together with the one from the door during the work phases, **must be conveyed outside** in one of the following ways:

► Fig. 11

- A** through a **hood supplied by the Manufacturer** that ensures perfect compatibility with the oven. For correct assembly and fixing to the oven, see the sheet attached to it; the evacuation flue must be for the exclusive use of the appliance, comply with current regulations and have a diameter that allows the passage of a **Ø150 mm [Ø 5.91 in.]** evacuation pipe which corresponds to the diameter of the tube to be fitted on the hood (not supplied).
- B** through a **hood** belonging to the user, of suitable capacity, placed at about **300 mm [Ø 11.81 in.]** from the oven;
- C** through an adequate **extraction system** supplied by the user connected to the oven flue: in this case a draught switch must be installed between the extractor and the oven chimney (the extractor, switch and tube are not supplied by the Manufacturer). In this type of installation, the fumes resulting from the opening of the door will not be extracted.

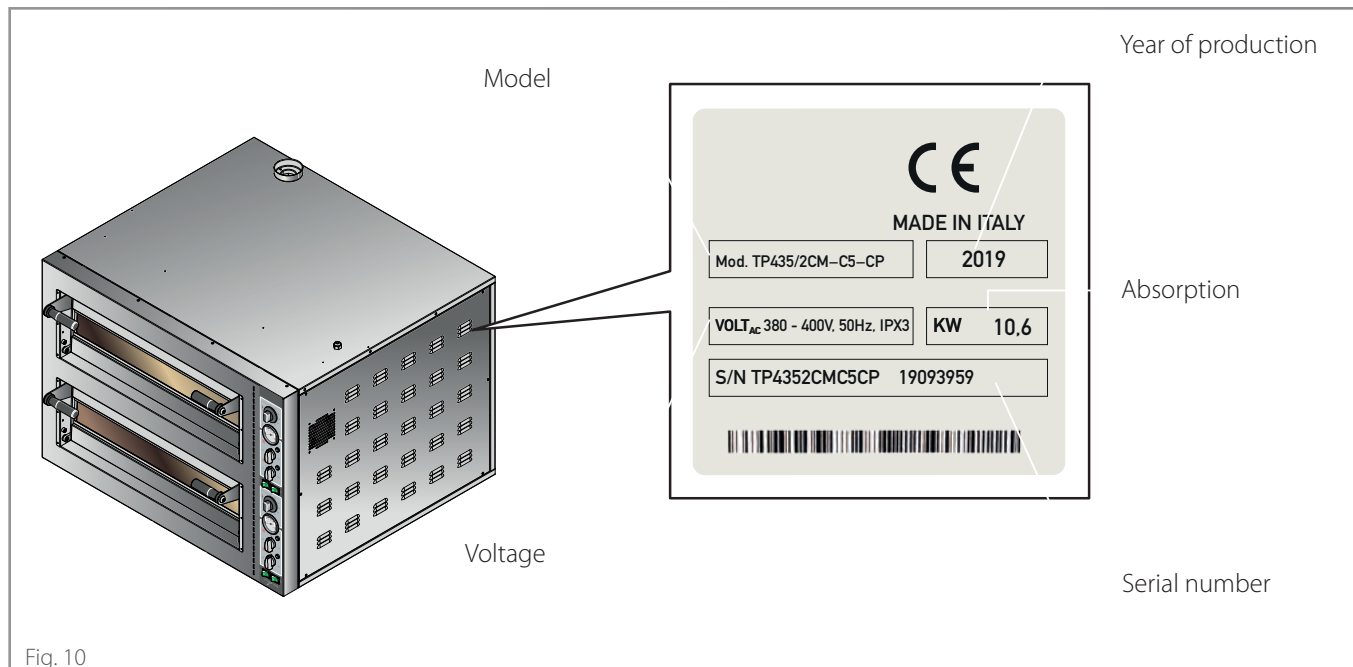


Fig. 10

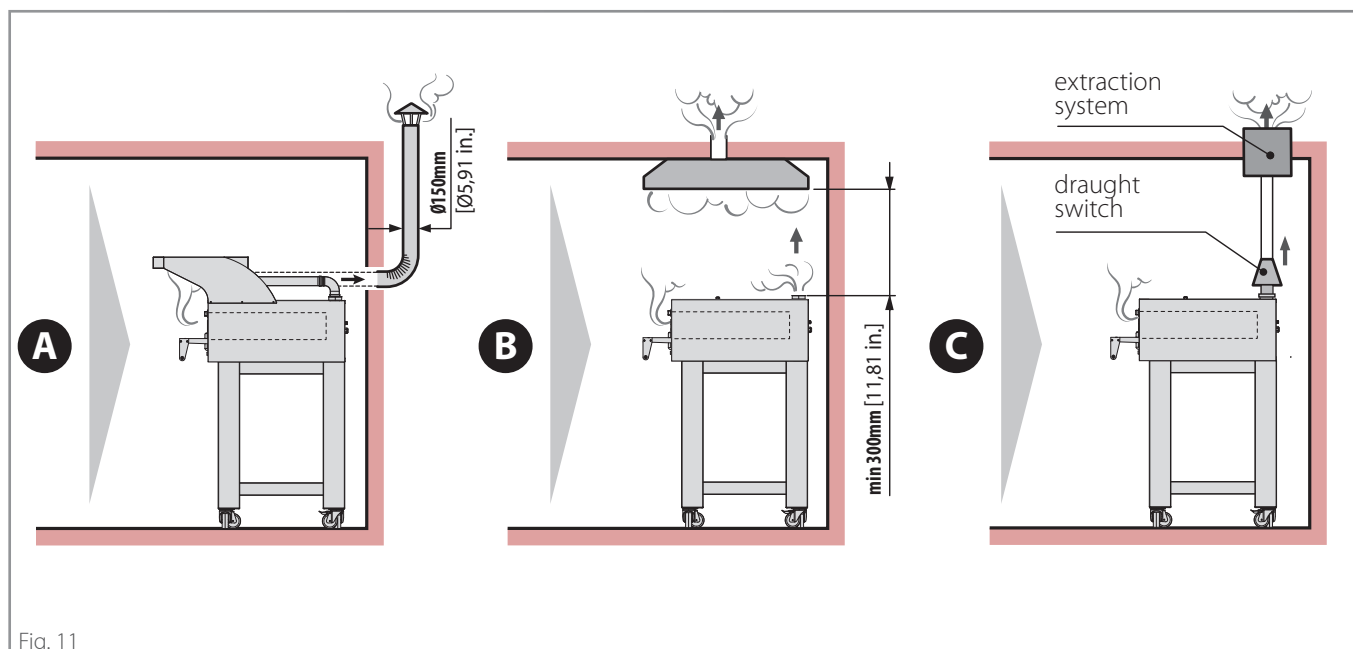


Fig. 11

Electrical connection

► Fig. 12

⚠ The electrical connection must be carried out **exclusively** by qualified personnel after reading the safety warnings at the beginning of the manual.

⚠ Before installing the appliance, **check that systems comply with the regulations in force** in the country where it is going to be used and **with the specifications indicated on the appliance rating plate** on the RH side of the oven.

The appliance is supplied without either power cable or plug: they must both be fitted by qualified personnel. The cable must be only **of the type stated** and the plug fitted to it must be suitable for the consumption and connection of the oven to the electrical mains.

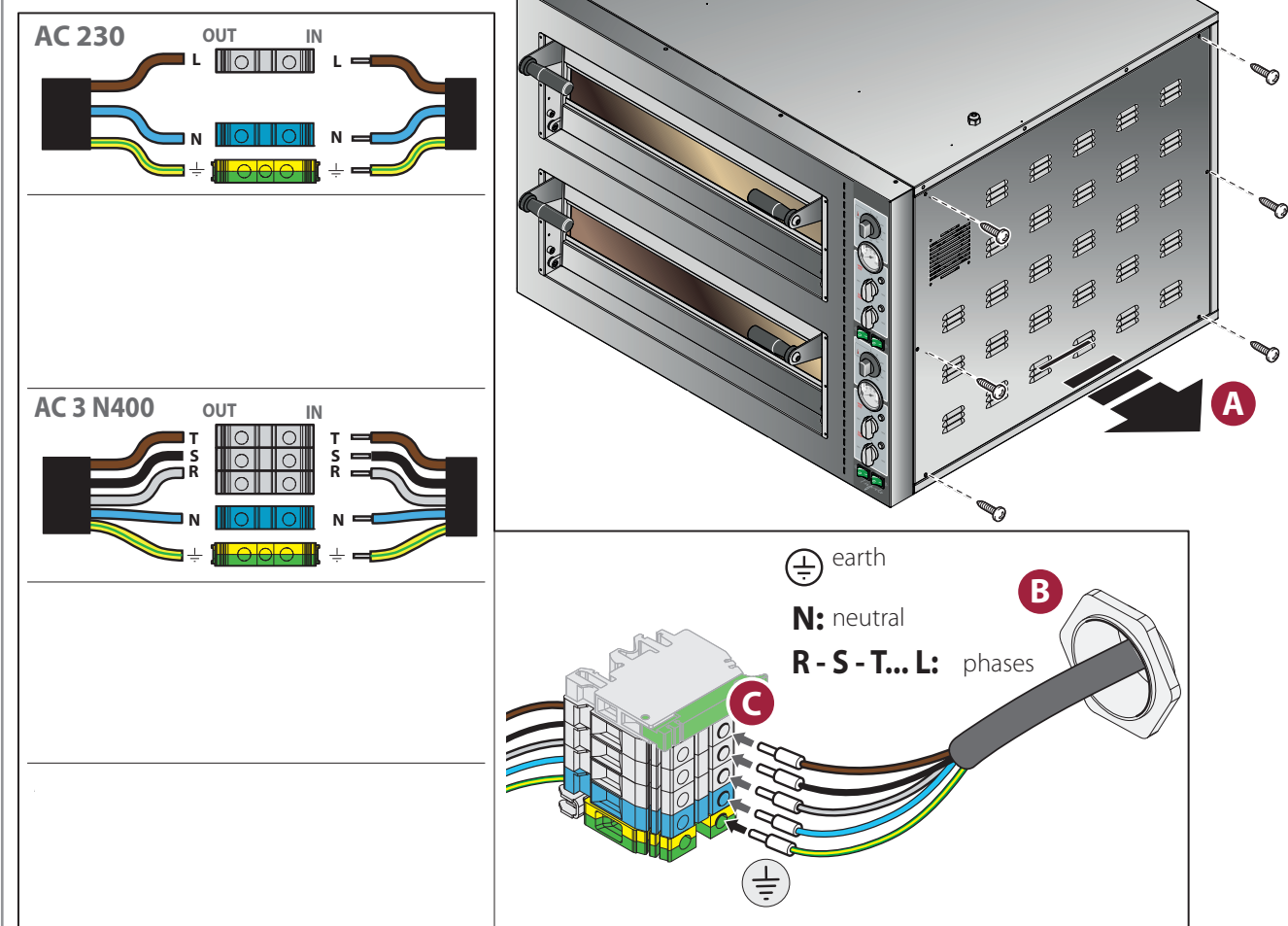
⚠ If the oven is fitted with a double chamber, there are two power cables and two plugs. To connect the cable to the appliance, remove the RH side panel of the oven, let the cable through the cable gland provided and connect it to the terminal block correctly.

📄 The following pages show the electrical diagrams: please refer to the one of the specific model to connect.

For a correct electrical connection, the appliance must:

- be included in an **equipotential system** in compliance with the legislation in force. This connection must be made between the various devices with the terminal marked with the equipotential symbol (⚡). The cable must have a maximum cross-section of 10 mm² (in compliance with IEC EN 60335-2-42:2003-09) and must be yellow-green;
- must be **grounded** (⚡) to the mains (green-yellow wire);
- must be connected to a **thermal differential switch** in compliance with the regulations in force (0.03A A type);

Fig. 12



Installation

- must be connected to an **omnipolar circuit breaker** allowing complete disconnection in overvoltage III category conditions.

The Manufacturer accepts no liability for failure to comply with the above.



If required, the cable can be replaced by the Dealer or its technical service or by a person with similar qualifications to prevent any risk.

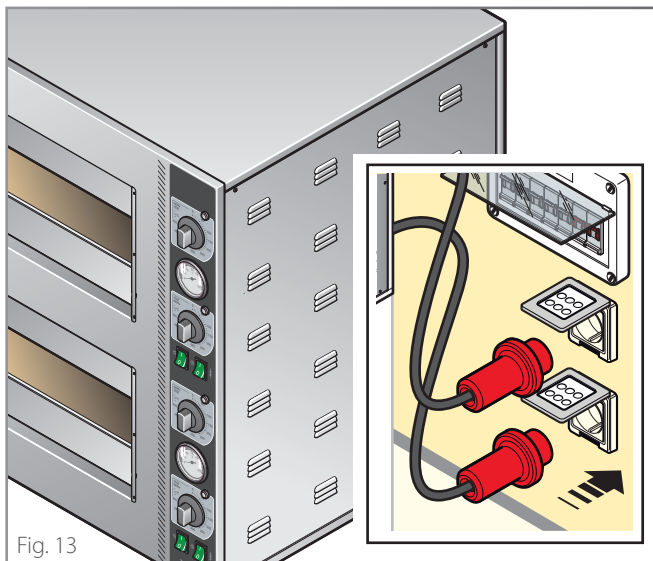


Fig. 13

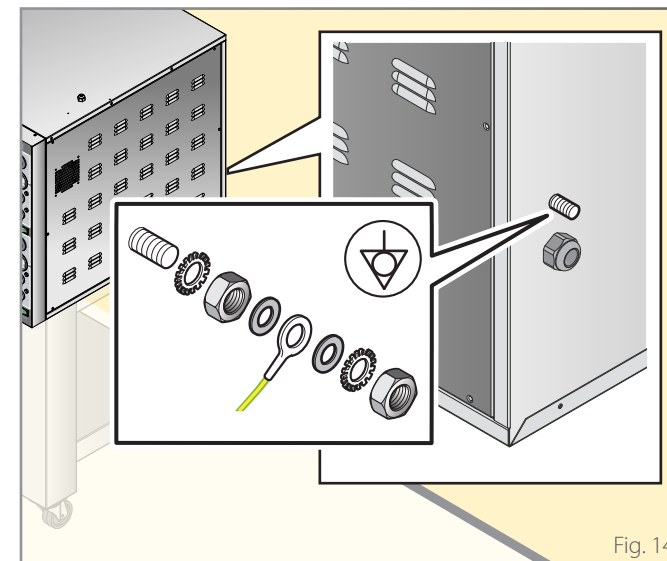
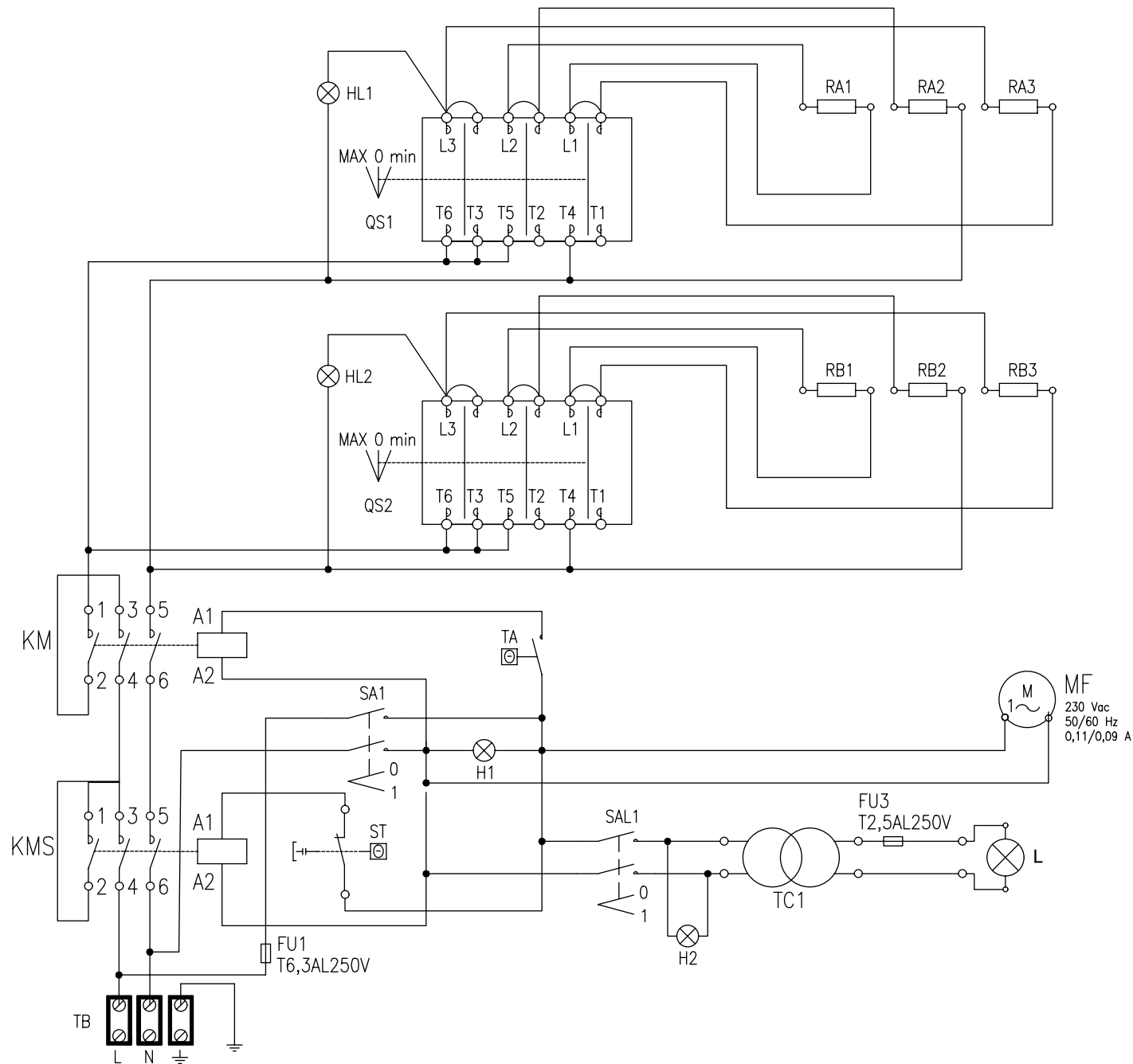


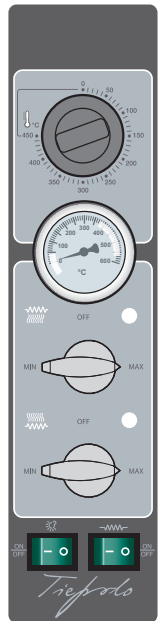
Fig. 14

VALUES FOR EACH INDIVIDUAL CHAMBER						
Model	Power supply [V]	Power [Kw]	Average consumption [kWh]	Absorption [A]	Connection cable* [Nxmm2]	Customer panel protection* [Nx A]
PL435	230V	5.3	3.2	23.0	3x2,5	2x25
	3Nx400V			7.6	5x1	4x16
	3x230V			13.3	4x1,5	3x16
	3x208V	5.8	3.5	16.0	4xAWG15	3x16

* Warning: the values indicated refer to an oven chamber. Double ovens have 2 inlets and therefore 2 different lines

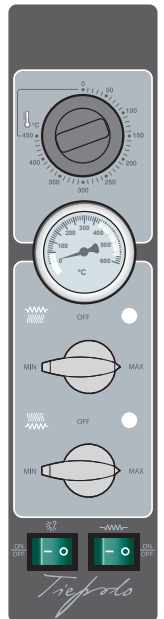
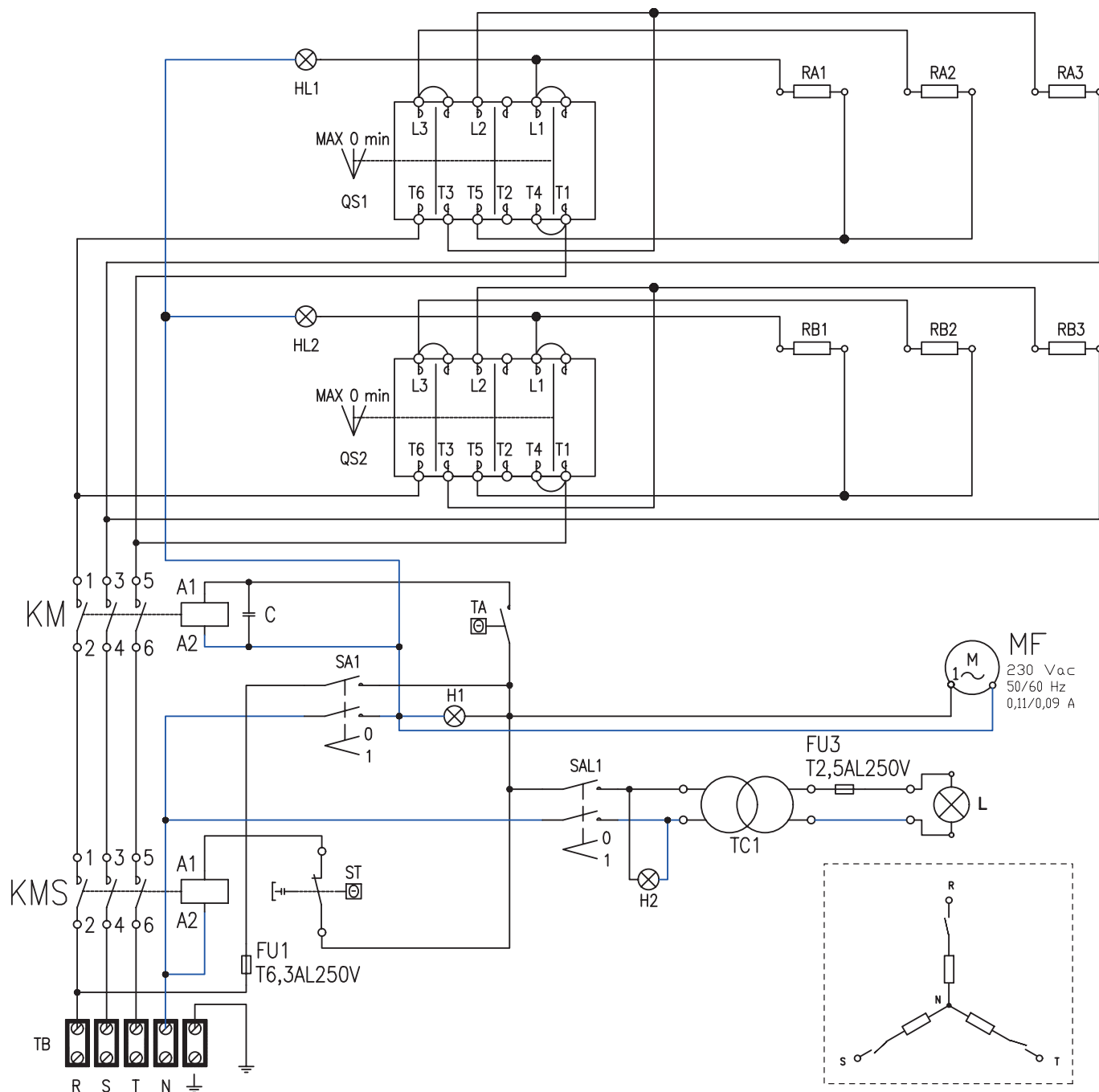


AC 230



Abbreviation	Description
FUx	Fuses
KM	Contactor
KMS	Safety contactor
HL	Warning light 400V
L	Cooking chamber lights
MF	Cooling fan
QS1	Top element switch
QS2	Top element switch
RA1,2,3	Top heating elements
RB1,2,3	Bottom heating elements
RS	Rotary disconnector
SA1	Master switch
SAL	Light switch
ST	Safety thermostat
TA	Element thermostat
TB	Terminal board
TC1	Transformer 25VA, 230/12V AC

AC 3 N400



Abbreviation	Description
C	10nF - 275V capacitor
FUx	Fuses
KM	Contactor
KMS	Safety contactor
HL	Warning light 230V
L	Cooking chamber lights
MF	Cooling fan
QS1	Top element switch
QS2	Top element switch
RA1,2,3	Top heating elements
RB1,2,3	Bottom heating elements
RS	Rotary disconnecter
SA1	Master switch
SAL	Light switch
ST	Safety thermostat
TA	Element thermostat
TB	Terminal board
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Pre-testing and final inspection

The oven is checked and tested in the Manufacturer's plant before being delivered to the customer.

The "production process check sheet" enclosed with it guarantees that **each** step in the production process, from assembly to packaging, was carefully checked from both the operating and safety standpoints.

After installing the appliance, check and mark with a "√" all the boxes of the table on the side: this will confirm the installation is complete and correct.

Finish off explaining to the user how to use the appliance in an optimal and safe way and how to carry out ordinary maintenance and cleaning.

Checking the operation and first start-up

Start the appliance following the instructions in the "Use and Maintenance" manual annexed: monitor it during the whole test and check that all the electrical components work properly.

The **first time** you use the oven, we recommend you set the temperature at **150 °C / 302 °F, "MAX"** at the top and **"MIN"** in the bottom for at least **8 hours without placing any food inside**. If a hood is fitted, we recommend it is kept ON.

In this first phase, because of the humidity evaporating from the insulating materials, the oven will give out unpleasant smells and fumes that will gradually disappear during the following operating cycles.

√	Positioning checks
	Is the installation room adequate and compliant with regulations? (correct ventilation, maximum/minimum temperature, etc.)
	Is the appliance perfectly level?
	Is the appliance resting on the base underneath and is this suitable to support the weight of the oven?
	Have the minimum distances stated been complied with?
	Has the protective film been removed from the surfaces?
	Are there any non-compliant objects in the oven chamber (e.g. installation tools, user manuals, packaging, etc.)? If so, remove them!
	Is the current chimney flue adequate and does it comply with the current regulations?
√	Electrical checks
	Does the mains voltage match the data on the rating plate?
	Do electric connections meet current regulations in the country of installation and follow the diagrams supplied?
√	Smoke outlet checks
	Are the fumes correctly evacuated externally in one of the ways proposed on page 26 ?
√	Miscellaneous
	Does the user have all the documentation relative to the oven?
	Has the user been correctly trained on the use and maintenance of the oven?

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Linda Lewis Kitchens Ltd T/A LLK
3-5 Belgrave Industrial Estate
Honeywell Lane
Oldham, OL8 2JP
0161 633 5797
www.llkpizzapros.co.uk
sales@llkpizzapros.co.uk