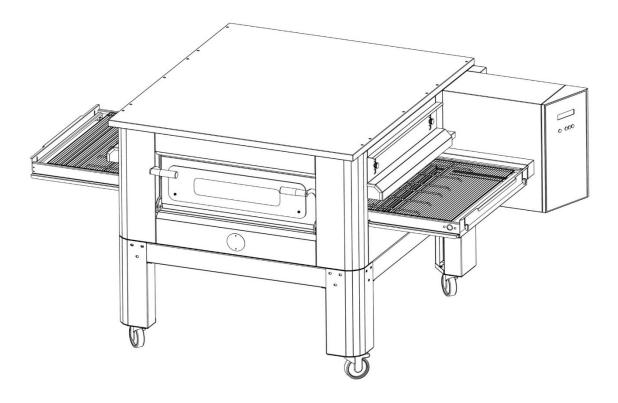


INSTRUCTION MANUAL

FOR USE AND MAINTENANCE

TUNNEL CONVEYOR OVEN

7485.0150/7485.0155 7485.0160/7485.0165



ENGLISH

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1.1- RATING PLATE

The rating plate consists of a gray lable applied on the back of the oven. The plate bears in readable and indelible way the following data:

- Name of the manufacturer;
- Electric power (kW/A);
- Model;
- "Made in Italy";

- Serial number;
- Electric voltage and frequency (Volt/Hz);
- Year of construction;
- Weight of the oven;



2.1- PAY ATTENTION

Before using the oven, it is compulsory to read and understand this manual in all its parts.

This manual must always be available for the "authorized operators" and has to be always kept close to the oven.

The manufacturer declines all liability for eventual damages to persons, animals, and things caused by the inobservance of the instructions contained into this manual.

This manual is an integral part of the oven and must be kept until its final disposal.

The "authorized operators" can carry out only the interventions for which they are specifically trained and competent.

2.2- STATUS OF "TURNED OFF OVEN"

Before carrying out any kind of maintenance and/or adjustment and/or intervention, it is compulsory to disconnect the power supply by disconnecting the power supply plug from the main socket and verify that the oven is effectively turned off and cooled down.

2.3- WARRANTY

The manufacturer declares that all ovens are tested at manufacturer's premises. The warranty period is *12 (twelve) months from invoice date.*



ANY ALTERATION OF THE OVEN AND/OR ANY REPLACEMENT OF PARTS WITH NON ORIGINAL SPARE PARTS CAUSES THE DECAY OF THE WARRANTY AND RELEASE THE MANUFACTURER FROM ANY LIABILITY.



3-TECHNICAL FEATURES

3.1 TECHNICAL DATA

	7485.0150	Unit of measurement					
Weight without support	101	/	251	/	kg		
Overall dimens without supp.	1425 x 985 x 450	1860 x 1210 x 500	2070x1320 x 560	2250 x 1560 x 600	cm		
Support dimentions	600 x 865 x 630	850x1040x 530	1100x1200 x 530	1200 x 1440 x 530	cm		
Conveyor width	400	500	650	800	mm		
Conveyor length	1050	1600	1850	2000	mm		
Chamber length	540	750	1000	1100	mm		
Electrical power		Three phase					
Voltage		400 / 230					
Frequency		Hz					
Current	13,5 / 21,5	25 / 39	32 / 51	42 / 67	А		
Total electrical power	7,8	14,2	18,4	24,4	kW		
Electrical connection							
Cable length		m					
Section of lead wires		mm²					
Cooking control							
Max. temperature which can beset							
Тор		°C					
Bottom		°C					
Error warnings							
		Ambient c	onditions:				
Temperature		() – 40		°C		
Maximun humi- dity			6 without dentation				



3.2- DESTINATION OF USE

The foreseen use for which this oven has been designed and produced is the following:



FORESEEN USE: PIZZA BAKING, GRATINATING OF GASTRONOMY PRODUCTS AND HEATING OF FOODSTUFF IN BAKING PANS.

THE OVEN CAN BE USED EXCLUSIVELY BY AN AUTHORIZED OPERATOR (USER)



THIS APPLIANCE IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.



CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE.

3.3- LIMITS OF USE

This oven has been designed and manufactured exclusively for the destination of use described in **Par. 3.2**, therefore, any other type of use is strictly forbidden in order to assure, at any time, the safety of the authorized operators, as well as the efficiency of the oven itself.



4.1– INSTRUCTIONS FOR THE USER

The place where the oven is installed must have the following environmental characteristics:

- To be dry, temperature and relative humidity of the room must not be over data stated in tab 3.1;
- Water sources at safe distance;
- Adequate ventilation and lighting corresponding to hygiene and security rules following the existing laws.

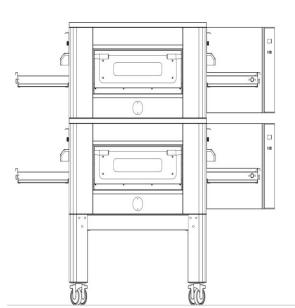


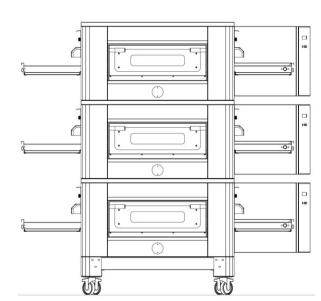
THE OVEN MUST NOT BE INSTELLED IN PROXIMITY OF THE INFLAMMABLE MATERIALS (WOODS, PLASTIC, COMBUSTIBLE, GAS ETC.) AVOID THE CONTACT OF INFLAMMABLE OBJECTS WITH THE HOT SURFACES OF THE OVEN. ALWAYS ASSURE THE SAFETY FIREPROOF CONDITIONS. MAINTAIN A FREE SPACE AROUND THE OVEN OF AT LEAST 30 CM

Check that the electrical set-up corresponds with the numbers of the technical sheet **Par. 3.1**, and on the small plate at the back of the oven. The characteristics of the electric socket must be compatible with the plug installed on the cable.

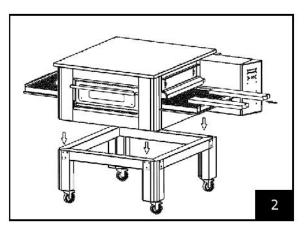
1

OVENS STACKABLE UP TO 3 DECKS





4.3- STACKABLE



Place the oven on the stand lean on the edges (Fig.2).

Use a forklift or a trans pallet with suitable capacity lift the small hoods up.

Wrap the forks with smooth material and insert them in the cooking chamber (Fig.1).





4.4- ELECTRIC CONNECTION



THE CONNECTION TO THE MAIN POWER SUPPLY MUST BE EXCLUSIVELY CARRIED OUT BY AN AUTHORIZED TECHNICIAN (ELECTRICIAN) ABLE TO SATISFY THE TECHNICAL AND PROFESSIONAL REQUIREMENTS STATED BY THE REGULATIONS IN FORCE IN THE COUNTRY OF USE. THIS TECHNICIAN MUST ISSUE A DECLARATION OF CONFORMITY FOR

THE INSTALLATION CARRIED OUT.



THE MAIN LINE SHOULD BE EQUIPPED WITH SAFETY DEVICES BY A DIFFERENTIAL SWITCH / CIRCUIT BRAKER, CO-ORDINATED WITH THE GENERAL EARTH INSTALLATION, IN CONFORMITY WITH THE LOCAL AND NATIONAL LAWS

To connect the machine to the electric network it is necessary to proceed as follows:

- 1) connect to the wires to the terminals L1-L2-L3-N = with unsheathed cable with ferule tab 3.1.
- 2) put together the other end of the cable and a plug, which is normalized and polarized (the distinction between phase and neutral must be unequivocal.



ONCE THE ELECTRIC CONNECTION HAS BEEN PERFORMED, THE AUTHORIZED TECHNICIAN (ELECTRICIAN) MUST ISSUE A DECLARATION CERTIFYING THE MEASUREMENT OF THE CONTINUITY OF THE EQUIPOTENTIAL PROTECTION CIRCUIT.

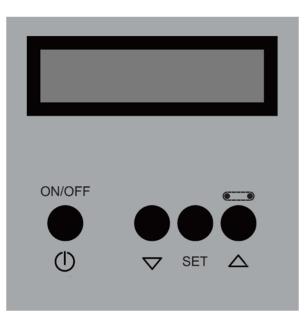


THE APPLIANCE IS TO BE SUPPLIED THROUGH A RESIDUAL CURRENT DEVICE (RCD) HAVING A RATED RESIDUAL OPERATING CURRENT NOT EXCEEDING 30 MA

4.5- EQUIPOTENTIAL

The equipment must be connected with an equipotential system. The connection terminal is located near the terminal box. The bonding wire must have a minimal section of 10 mm².







Oven switch on - off key



Parameters value decrease key



Programming access key



Parameters value increase key



5.2- KEYPAD KEYS/LED MANAGEMENT

The board includes connection to a 4 functions keypad. The functions the 4 keys should have are indicated in the figure below :



- Key \bigcirc \rightarrow Logical switch on/off of the control unit (passage from OFF status to functioning mode).
- Key \bigtriangledown \rightarrow Decrease function used during the values settings.
- Key $\xrightarrow{\text{SET}}$ \rightarrow Access parameter changes (baking time and temperature) and the relevant ENTER (confirm) button for passage to the next parameter.
- Key \triangle \rightarrow Increase function during value settings. This key is used to activate the oven net functioning (on first pressing the motor activates, press again to stop it). During movement of the net the display shows an indicator in the bottom right hand corner indicating net movement.

5.3- CONTROL UNIT POWER

When the control unit is switched on, the FW version appears and then the machine positions on the status on which it was previously switched off (therefore it could be in active net status and with thermoregulation ON). Any OFF status is signalled by a situation as shown in this image:



The second line only shows if the "AUTOSTART" mode is active and if a valid activation time is present.

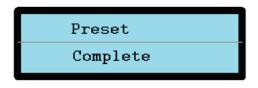
EXITING OFF STATUS

To exit the OFF status you need to press the ON/OFF key for 3 seconds.



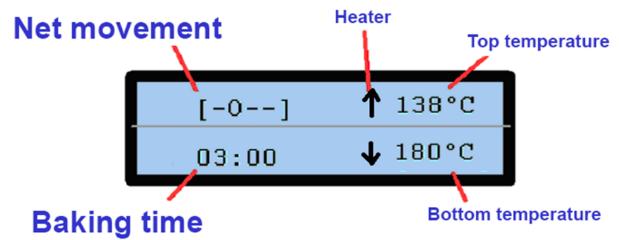
5.4- PRESET

The board is reset by pressing, during switch on, all 4 buttons. Preset is confirmed by signaling it on the display with: "Preset Complete".



At this point the board must be switched off and switched back on again. NB: preset is also possible from the technical menu (see relevant chapter).

5.5- FUNCTIONING DISPLAY MANAGEMENT



• Set point temperature: it is the temperature the system aims for using the pilot of a heating resistor. The temperature is kept monitored by a probe PT1000.

NB: the set point display of the temperature ends after 3 seconds from its setting. To view it

you need to press the

key. Also in this case the display stays on for 3 seconds.

- Baking time: it is the time in which a food product stays inside the oven from the moment in which it is rested on the net at the start of the tunnel up to its exit.
- " \uparrow " indicates the actual switch on of the heating resistor
- Temperature read by probe Net movement indicator

5- USE AND FUNCTIONING

5.6 - CHANGING TEMPERATURE AND TIME PARAMETERS

SET

key, the relevant symbol for net movement and the baking time are NO On pressing the longer visible; instead, the two SET POINT temperatures are displayed for the Top and Bottom probe. The temperature of the top probe flashes and using the increase and decrease keys you can change the values from a minimum of 1 degree to a maximum of 320°C.

SET On pressing the key, the set point value is set of the "Top" probe and the change of set point parameter is activated on the "Bottom" probe.

the key, the set point value is set of the "Bottom" probe and the change of On pressing "Baking time" parameter is activated.

In particular, the change takes place according to the following resolution:

From 2 min to 6 minutes \rightarrow 5 seconds resolution From 6 min to 10 minutes \rightarrow 15 seconds resolution From 10 min to 20 minutes \rightarrow 30 seconds resolution From 20 min to 30 minutes \rightarrow 1 minute resolution

SET Pressing the again, you exit the parameters, going to the functioning display.

NB: changing the two parameters can independently take place both with the net active and in stoppage mode.

5.7- COOL DOWN

At the time of switch off, two events can occur by pressing the kev for 3 seconds.

If the temperature of the oven is under that set, switch off is instantaneous.

If one of the two oven temperatures (TOP or BOTTOM) is over that set on switch off, the control unit goes to COOL DOWN status.

During this phase the net is active and all the increase and decrease keys are active to allow you to vary its speed.

Heating is (obviously) deactivated and this phase continues until the temperature goes below the set point temperature for cool down (NON-modifiable preset value: 140°C).



5.8 – PROBE ERROR MANAGEMENT OVER TEMPERATURE

On reaching the over temperature value set in the technical menu, the display indicates the following:

Over Temperature	
454°C	

In the second row, the temperature read value is displayed. The Over Temperature value is NOT settable and is set to 490°C .

PROBE IN OPEN CIRCUIT o SHORT CIRCUIT

If the probe was in "Open" or "Short circuit" status, an error signal is shown on the display.

!

Once the fault is fixed, to exit the error signal, you need to press the OFF status.

5.9– SCHEDULER FUNCTIONALITY

From the OFF status, press to access the menu in question.

Tł		iis menu: s that appea	• •	SET	decrease, as follows:	(+) increase,	(Enter) select/confirm
1 2		ostart 🗸 🗸	, reg	ulation	\bigtriangleup		SET
	2.1	Sunday					
	2.2	Monday					
	2.3	Tuesday	,				
	2.4	Wednes	day				
	2.5	Thursda	у				
	2.6	Friday					
	2.7	Saturda	у				
3	Exit						



- 1. To change the current time or minutes, day of the week.
- 2. To change autostart enabling.

2.1 2.7(Visible if Autostart is enabled) To change the advance switch on time for the day selected.

The range of minutes varies from 00..59 , while the hours range varies from 00,..,23,--. Where -- also inhibits the minutes field and disables the autostart for the day selected. 3. Return in OFF.

>OFF status: Display <

HOUR, in OFF status, the display on the first line shows 0 10 15 $|O|F|F| \mid | \mid |D|D|D| \mid H|H|:|M|M|$

DDD: Current day of the week . HH: Current time MM: Minutes of the current hour

HOUR, in OFF status, the display on the second line shows if autostart is enabled and if there is a valid next switch on during the week 0 10 15

|S|t|a|r|t|:| |d|d|d| |h|h|:|m|m|

ddd: Autostart day of the week hh: Autostart hour mm: Autostart minutes of the hour

>ON status: Autostart functioning <

It was set that after a start due to autostart, the temperatures of the TOP and BOTTOM set point are set to that of COOLDOWN and the net is moving at 03:00.

5.10 - ENTER THE TECHNICAL MENU TO CHANGE PARAMETERS

To enter the technical menu, you need to start with the board off and press the and keys during switch on.

(1)

SET

At this point, enter the technical parameters programming menu.

14



To go from one parameter to another, use the "increase" and "decrease" keys. Settable parameters:

Language Preset Exit

To change one of the parameters, press ENTER and then use the increase/decrease keys. To exit the technical menu, move up to EXIT and press ENTER.

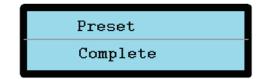
Description of parameters.

Language

You can change the user interface language, options available ENGLISH, ITALIAN, GERMAN, SPANISH and FRENCH.

Preset

Pressing the enter key for 4 seconds on this parameter, you preset the board and the following writing is indicated:



EXIT: exit technical menu



5.11- PRODUCTIVITY

Cooking time and coking temperature are extremely variables. They depend on several variables and they can not be stated by the manufactures of the oven. Here after some suggestions for user's reference only.

7485.0150				
Pizza Diameter Productivity: average per hour *				
25	cm	30	pz/h	
32	cm	15	pz/h	
40	cm	13	pz/h	
10			p_/	

* valves indicative only

7485.0155					
Pizza Diam	Pizza Diameter Productivity: average per hour *				
25	cm	90	pz/h		
32	cm	30	pz/h		
40	cm	26	pz/h		
45	cm	12	pz/h		

* valves indicative only

7485.0160				
Pizza Diameter Productivity: average per hour *				
25	cm	165	pz/h	
32	cm	75	pz/h	
40	cm	39	pz/h	
45	cm	24	pz/h	

* valves indicative only

7485.0165						
Pizza Diameter		Pr *	Productivity: average per hour *			
25	cm	18	80	pz/h		
32	cm	10	05	pz/h		
40	cm	52	2	pz/h		
45	cm	30	6	pz/h		

* valves indicative only





BEFORE PERFORMING ANY TYPE OF MAINTENANCE INTERVENTION, IT IS COMPULSORY TO DISCONNECT THE PLUG OF THE OVEN FROM THE POWER SUPPLY OUTLET.

6.1- CLEANING

Cleaning must be carried out daily in compliance with hyenic and sanitary rules in force. **Cleaning of chamber:**

Disconnect the oven from the main power by switching off the main switch;

Remove the drawers below the belt;

Remove the casing coupling network from its housing and release it by moving it upwards; Rotate manually the belt until the pivot shaft drop network finds himself at the engraving of the

Rotate manually the belt until the pivot shaft drop network finds himself at the engraving of the coupling network;

Lift the small hoods up;

Lift the belt both sides and slide it from control side;

Open the side door and remove the panels with hides paying attention to the hot surface;

Clean the metal surfaces with a sponge steeped in water or non-abrasive – corrosive detergents then rinse the surfaces with a damp sponge.

External clearing of the oven: (surfaces in stainless steel, inspection glass and control panel): this operation has to be performed with cold oven.



IT IS RECOMMENDED TO USE PROPER GLOVES AND SUITABLE CLOTHING TO AVOID BURNINGS.



IT IS FORBIDDEN TO USE THROWS OR DRIPS OF WATER, ABRASIVE OR CORROSIVE SUBSTANCES, AND ANYTHING ELSE THAT CAN DAMAGE THE COMPONENTS, COMPROMISE THE SAFETY, AND BE DANGEROUS FROM AN HYGIENIC POINT OF VIEW.

For any intervention of supplementary maintenance, repairing and/or replacement refer exclusively to the authorized dealer where the oven has been purchased and/or to an authorized technician satisfying the technical and professional requirements stated by the regulations in force.



7- DISPOSAL

7.1- GENERAL WARNINGS

When dismantling the oven, compulsorily observe the provisions of the regulations in force. Differentiate the parts making up the oven according to different types of construction materials (plastic, copper, iron, etc.).



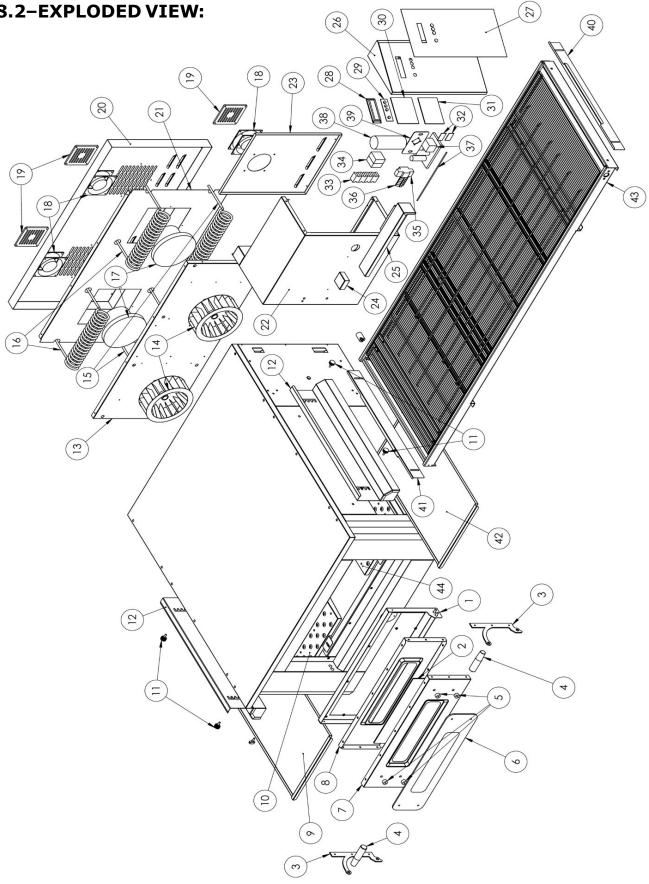
8.1—SPARE PARTS OVENS

Components list

	DESCRIPTION	7485.0150	7485.0155	7485.0160	7485.0165
6	Tempered glass	5V010032	5V010031	5V010031	5V010033
11	Hood adjustment knob	5P100052	5P100052	5P100052	5P100052
15	Lower heating element	5R050482	5R050491	5R050490	5R050493
16	Upper heating element	5R050483	5R050481	5R050480	5R050493
18	Heatsink fan	5V050001	5V050001	5V050001	5V050001
19	Heatsink fan coverage	5P100300	5P100300	5P100300	5P100300
27	Control panel label	5E200710	5E200705	5E200700	5E200715
28	Display	5I100120	5I100120	5I100120	5I100120
29	Keypad	5P010300	5P010300	5P010300	5P010300
30	Cooking machine card	5S010068	5S010068	5S010068	5S010068
31	Switching power supply	5A010100	5A010100	5A010100	5A010100
32	Interface card	5S010058	5S010058	5S010058	5S010058
33	Solid state relay	5R020120	5R020121	5R020122	5R020123
34	Relè 24V-240V	5R020101	5R020101	5R020101	5R020101
35	Circuit brakers board	5T010331	5T010331	5T010331	5T010331
36	Terminals	5M100113/14 /15	5M100113/14 /15	5M100113/14 /15	5M100113/14 /15
37	Security thermostat	5T010016	5T010016	5T010016	5T010016
38	Motor reduction	5M010100	5M010100	5M010100	5M010100

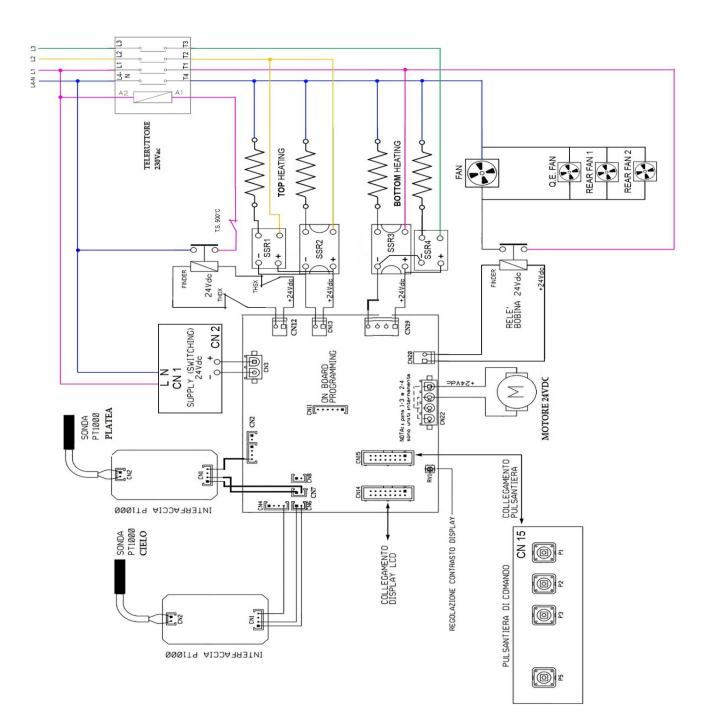






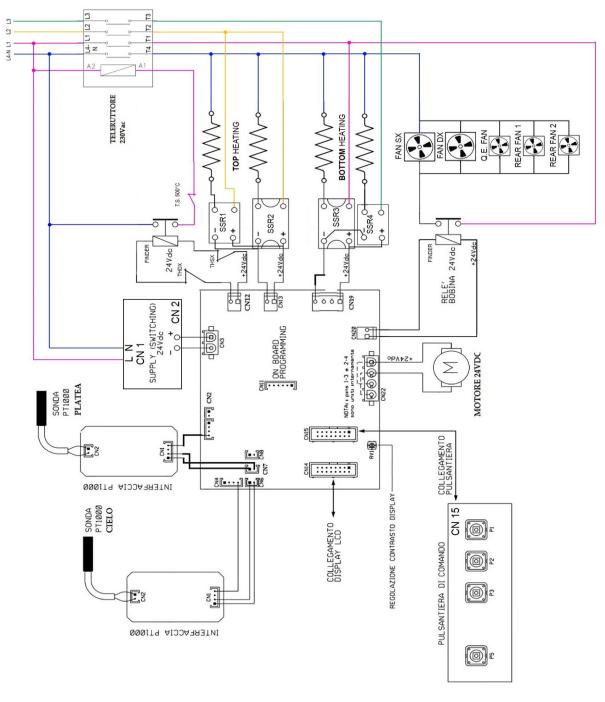


9.1- WIRING DIAGRAMS TUNNEL 7485.0150 & 7485.0155



	HEATING ELEMENTS			
	ТОР	воттом		
7485.0150	N°2 1500W	N°2 2200W		
7485.0155	N°2 2800W	N°2 4100W		





	HEATING ELEMENTS		
	ТОР	воттом	
7485.0160	N°2 3600W	N°2 5400W	
7485.0165	N°2 6000W	N°2 6000W	