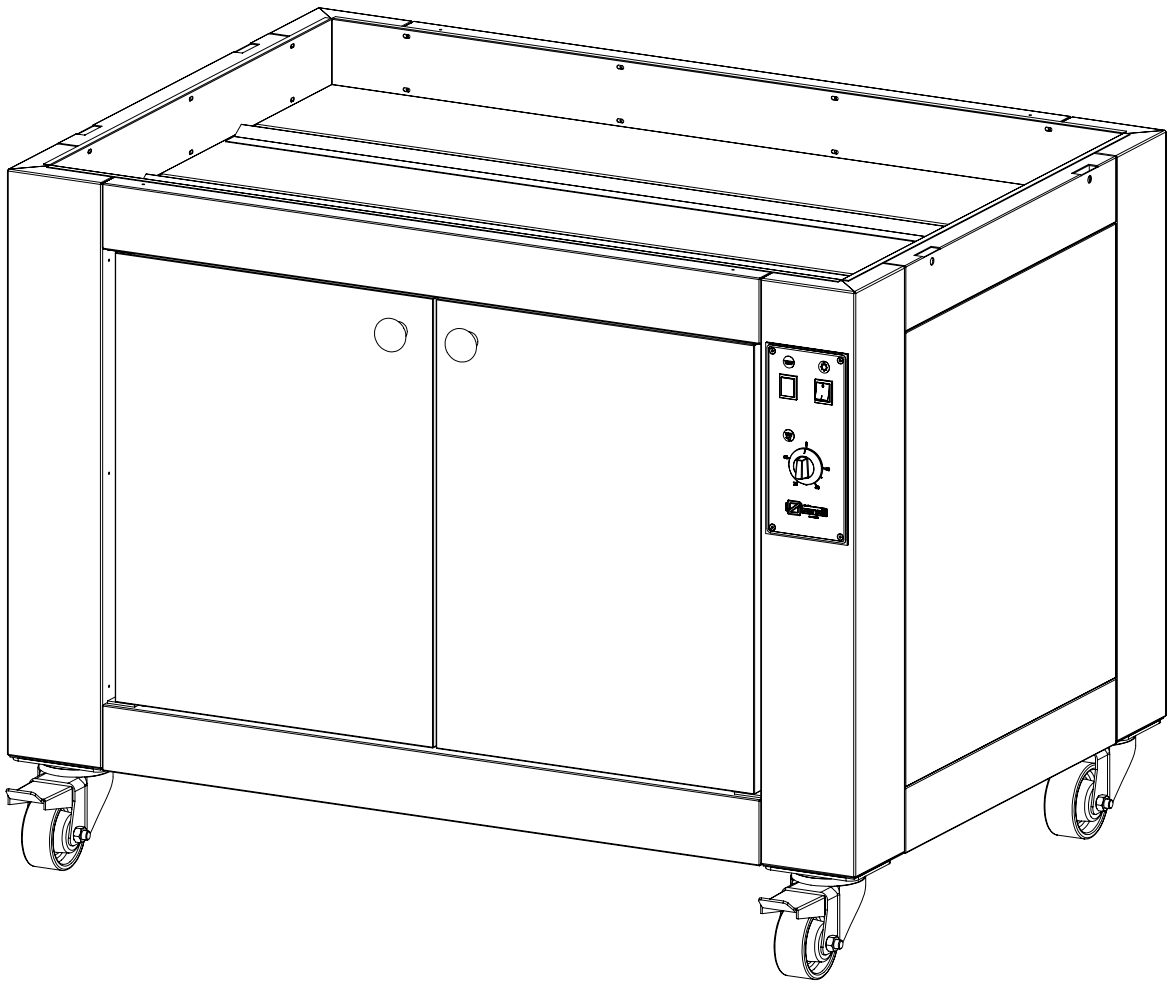
08/2012

# Mod: ET6H-70

**Production code: T6POLISCLU-X3**

Diamond
catering equipment



# PROOFING CABINET

## TEOREMA POLIS PW STANDARD
## TEOREMA POLIS PW DELUXE
## CITIZEN PW GAS

**Installation, use and maintenance manual**

# INDEX

# 1 Identification of the product

This manual refers to the leavening chamber for oven models 2/2S/3/4/6/8 of the TEOREMA POLIS PW STANDARD (ST) version, the DELUXE (DL) version and for oven models 6/9 of the CITIZEN PW GAS series.

# 2 Conformity to European directives

The leavening chamber for the series listed above carry the following obligatory mark:

CE guaranteeing their correspondence to the following European directives:

2004/108/CE electromagnetic compatibility
2006/95/CE low voltage.

# 3 Intended use

The Proofing Cabinets for oven models 2/2S/3/4/6/8 of the TEOREMA POLIS PW STANDARD (ST) version, the DELUXE (DL) version and for oven models 6/9 of the CITIZEN PW GAS series, have been designed in three configurations:

- **NEUTRAL CHAMBER** used as a cabinet to put away materials;

- **PROOFING CABINET** intended for the semi-professional leavening of pizzeria products;

- **PROOFING AND HUMIDITY CABINET** intended for the professional leavening of confectionery products.

The chambers are intended for professional use by qualified staff in the catering field only

The operations foreseen for normal use are the opening and the closing of the doors, the loading and the unloading of the products on the baking-pan, the switching on, the adjustment, the switching off and the cleaning of the equipment.

# 4 Technical specifications

The following tables show the technical specifications of the Proofing Cabinets.

| | **2 ST/CL<br>2 DL/CL** | **2S ST/CL<br>2S DL/CL** | **3 ST/CL<br>3 DL/CL** | **4 ST/CL<br>4 DL/CL** | **6 ST/CL<br>6 DL/CL** | **UNIT of measurement** |
|---|---|---|---|---|---|---|
| **Weight** | | | | | | Kg |
| **OUTER HEIGHT<br>OUTER WIDTH<br>OUTER DEPTH** | 940 (700*)<br>1250<br>870 | 940 (700*)<br>1020<br>1070 | 940 (700*)<br>1660<br>870 | 940 (700*)<br>1250<br>1470 | 940 (700*)<br>1660<br>1470 | mm |
| **Baking-pans number (cm 60x40)** | 14 (8*) | 14 (8*) | 28 (16*) | 21 (12*) | 42 (24*) | n° |
| **Power supply** | Monophase | | | | | |
| **Voltage** | 230 | | | | | Vac |
| **Frequency** | 50 o 60 | | | | | Hz |
| **Current (neutral chamber)** | 0.04 | | | | | A |
| **Current (Proofing Cabinet)** | 4.3 | 4.3 | 6.5 | 6.5 | 6.5 | A |
| **Current (Proofing and Humidity Cabinet)** | 8.7 | 8.7 | 11 | 11 | 11 | A |
| **Electrical power (neutral chamber)** | 8 | | | | | W |
| **Electrical power (Proofing Cabinet)** | 1 | 1 | 1.5 | 1.5 | 1.5 | kW |
| **Electrical power (Proofing and Humidity Cabinet)** | 2 | 2 | 2.5 | 2.5 | 2.5 | kW |
| **Electrical connection** | Cable with 3 wires without plug | | | | | |
| **Cable Length** | 2 | | | | | m |
| **Wires section** | 2.5 | | | | | mm² |
| **Lighting lamp:** | | | | | | |
| **Type** | Fluorescent lamp | | | | | |
| **Power** | 8 | | | | | W |
| **Maximum temperature settable (chamber's resistance)** | 90 | | | | | °C |
| **Room's conditions:** | | | | | | |
| **Temperature** | 0-40 | | | | | °C |
| **Maximum humidity** | 95% without condensate | | | | | |

* Chamber's height in case of piling up of three modules

| | 8 ST/CL<br>8 DL/CL | 6 GAS/CL | 9 GAS/CL | UNIT of measurement |
|---|---|---|---|---|
| **Weight** | | | | Kg |
| **OUTER HEIGHT**<br>**OUTER WIDTH**<br>**OUTER DEPTH** | 940 (700*)<br>1660<br>1880 | 600<br>1450<br>920 | 600<br>1450<br>1270 | mm |
| **Baking-pans number (cm 60x40)** | 42 (24*) | 6 | 6 | n° |
| **Power supply** | Monophase | | | |
| **Voltage** | 230 | | | Vac |
| **Frequency** | 50 o 60 | | | Hz |
| **Current (neutral chamber)** | 0.04 | | | A |
| **Current (Proofing Cabinet)** | 6.5 | 6.5 | 6.5 | A |
| **Current (Proofing and Humidity Cabinet)** | 11 | 11 | 11 | A |
| **Electrical power (neutral chamber)** | 8 | | | W |
| **Electrical power (Proofing Cabinet)** | 1.5 | 1.5 | 1.5 | kW |
| **Electrical power (Proofing and Humidity Cabinet)** | 2.5 | 2.5 | 2.5 | kW |
| **Electrical connection** | Cable with 3 wires without plug | | | |
| **Cable Length** | 2 | | | m |
| **Wires section** | 2.5 | | | mm² |
| **Lighting lamp:** | | | | |
| **Type** | Fluorescent lamp | | | |
| **Power** | 8 | | | W |
| **Maximum temperature settable (chamber's resistance)** | 90 | | | °C |
| **Room's conditions:** | | | | |
| **Temperature** | 0-40 | | | °C |
| **Maximum humidity** | 95% without condensate | | | |

* Chamber's height in case of piling up of three modules

# 5 Installation

## 5.1 NEUTRAL CHAMBER

### 5.1.1 Electrical connection

The equipment is supplied with an electrical connection cable furnished with a ground wire. In conformity with the safety regulations in force, **it is mandatory to connect the ground wire (yellow-green) to an equipotential system the efficiency of which has to be correctly verified following to the regulations in force.**

Before making any connections verify that the specifications of the electrical system, to which the equipment has to be connected, correspond to the supply characteristics required by the equipment itself (see chapter 4).

**The manufacturer does not assume any responsibility for damage resulting from ignoring the abovementioned warnings.**

For the electrical connection refer to Fig. 5-1 where the position of the electrical input(1) is indicated.

## 5.2 PROOFING CABINET

### 5.2.1 Electrical connection

The equipment is supplied with an electric connection cable furnished with a ground wire. In conformity with the safety regulations in force, **it is mandatory to connect the ground wire (yellow-green) to an equipotential system the efficiency of which has to be correctly verified following to the regulations in force.**

Before making any connections, verify that the specifications of the electrical system to which the equipment has to be connected, correspond to the supply characteristics required by the equipment itself (see chapter 4).

**The manufacturer does not assume any responsibility for damage resulting from ignoring the abovementioned warnings.**

For the electrical connection refer to Fig. 5-1 where the position of the electrical input(1) is indicated.

## 5.3 PROOFING AND HUMIDITY CABINET

### 5.3.1 Electrical connection

The equipment is supplied with an electric connection cable furnished with a ground wire. In conformity with the safety regulations in force, **it is mandatory to connect the ground wire (yellow-green) to an equipotential system the efficiency of which has to be correctly verified following to the regulations in force.**

Before making any connections verify that the peculiarities of the electrical system, to which the equipment has to be connected, correspond to the supply characteristics required by the equipment itself (see chapter 4).

**The manufacturer does not assume any responsibility for damage resulting from ignoring the abovementioned warnings.**

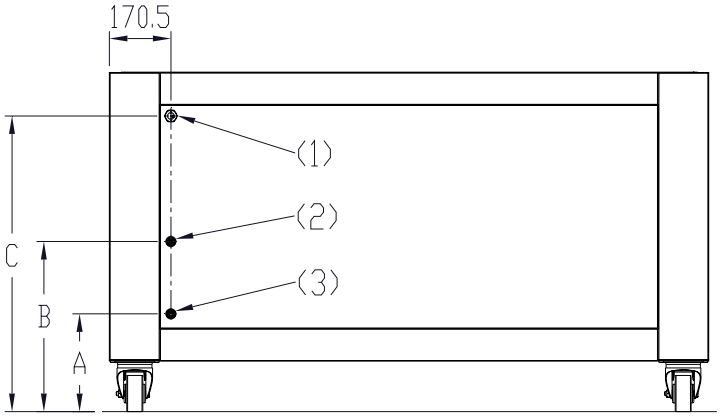
For the electrical connection refer to Fig. 5-1 where the position of the electrical input(1) is indicated.

### 5.3.2 Water connection for humidifier

Connect the humidifier water input to the plumbing (2) using an easily accessible interception tap .

Connect the drain humidifier water exit to the plumbing (3). Verify that the water exit drains in a well.

For the correct position of the entry and of the water drain see Fig.5-1



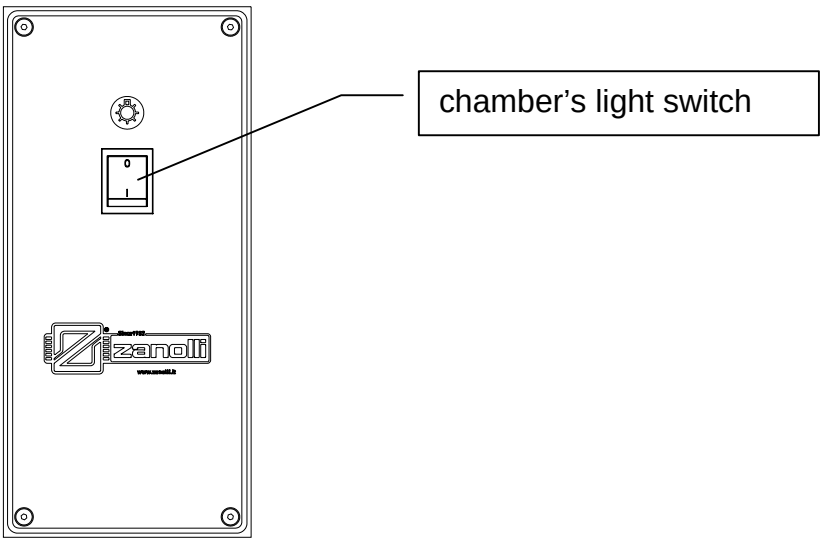

| | A (mm) | B (mm) | C (mm) |
|---|---|---|---|
| **T POLIS PW 2/2S/3/4/6/8 CL H=700** | 270 | 471.5 | 579.5 |
| **T POLIS PW 2/2S/3/4/6/8 CL H=940** | 270 | 471.5 | 819.5 |
| **CITIZEN PW 6/9 GAS CL H=600** | 260 | 434.5 | 479.5 |

(1) = Power supply entry
(2) = Water humidifier entry
(3) = Water humidifier drain

**Fig.5-1 Connections' position**

# 6 Operating

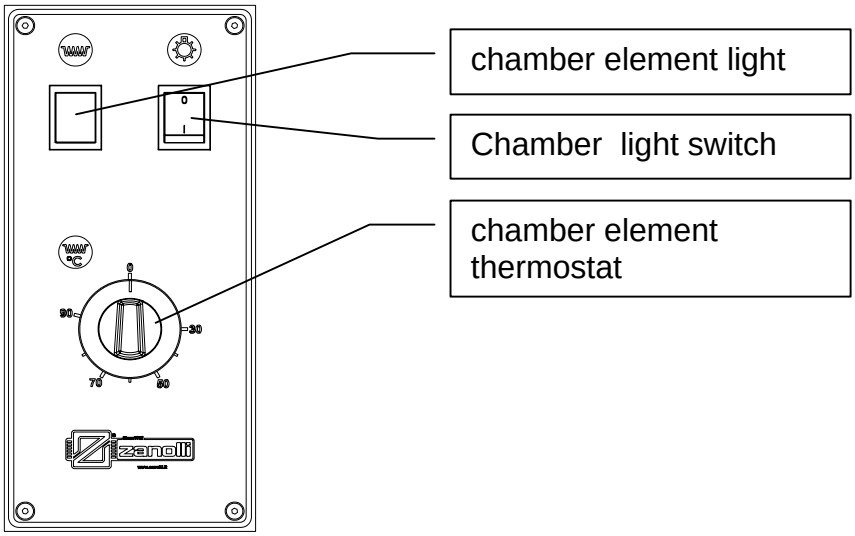
## 6.1 NEUTRAL CHAMBER

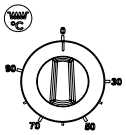



The neutral chamber is not equipped with a resistance for heating.
To switch on the light operate the chamber's light switch by putting it in position 1.

To switch off the light put the switch in position 0.

## 6.2 PROOFING CABINET



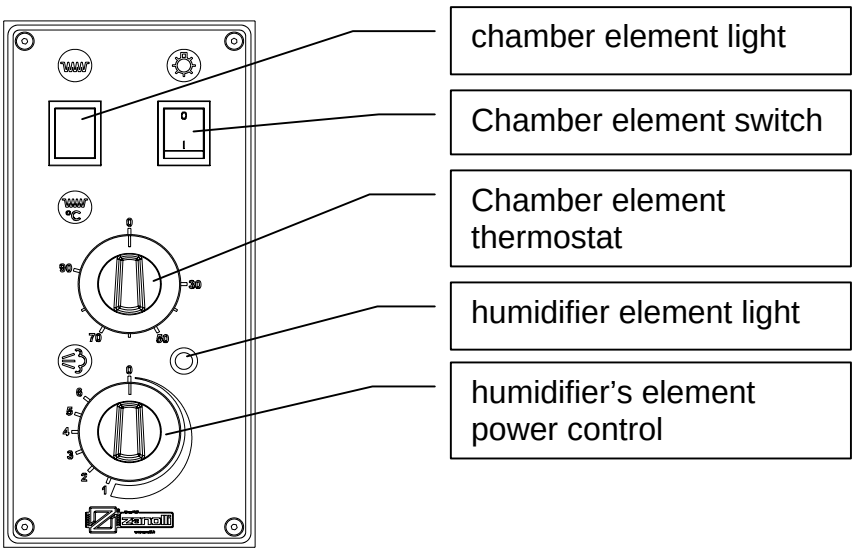

The proofing cabinet is equipped with a heating element.
To activate the chamber's element operate on the chamber element thermostat  and set a leavening temperature. Once you have set the

desired temperature, the functioning of the element will be indicated by the illumination of the chamber light , until the requested temperature is reached.

To switch off the chamber element turn the thermostat indicator in position 0.

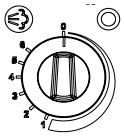
To switch on the light , use on the chamber light switch by putting it in position 1.
To switch off the light put the switch in position 0.

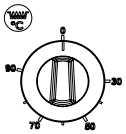
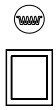
## 6.3 PROOFING AND HUMIDITY CABINET

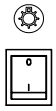



The Proofing Cabinet is equipped with a heating element and with a humidifier in order to create the desired humidity.

**WARNING: Before using the humidifier make sure that the plumbing for water entry and exit are connected. Then open the water entry tap.**

Once the water is introduced in the humidifier tank operate on the humidifier power regulator  to heat the water to arrive at the required humidity. The functioning of the humidifier element will be indicated by the lighting of the humidifier element light.
The humidifier is equipped with a float, a level indicator that controls the water level and with an overflow in case the tank is overfilled with water
To switch off the humidifier, put the indicator of the power regulator in position 0.

To activate the chamber element operate on the chamber's resistance thermostat  and set a leavening temperature.
Once the desired temperature is set, the functioning of the element will be indicated by the lighting of the chamber element light  , until the set temperature is reached.
To switch off the chamber element turn the thermostat indicator in position 0.

To switch on the light operate on the chamber light switch  by putting it in position 1.
To switch off the light put the switch in position 0.

**N.B.:** In case of extended periods of inactivity ( closure for holidays, for instance) it is advisable to turn off the general switch on the electrical supply panel.

# 7 Cleaning

Cleaning has to be carried out with the equipment turned off and at room temperature, having turned off the electrical supply in advance, using the switch on the supply panel.

To clean the outer surfaces made of stainless steel and the control panel use a soft moistened sponge with a light detersive but not abrasive cleaner.
Do not use abrasive or corrosive detergents, because these will cause the stainless steel to become opaque.

Do not direct jets of water onto the equipment for clearing as these can penetrate through to and damage the electrical system with the consequent risk of electrocution and the equipment starting up unexpectedly.

# 8 Maintenance

## 8.1 Electrical diagram

Fig.10-1 carries the electrical diagram at 230 Vac monophase for the neutral chamber version. Fig.10-2 carries the electrical diagram at 230 Vac monophase for the Proofing Cabinet version. Fig.10-3 carries the electrical diagram at 230 Vac monophase for the Proofing and Humidity Cabinet version.

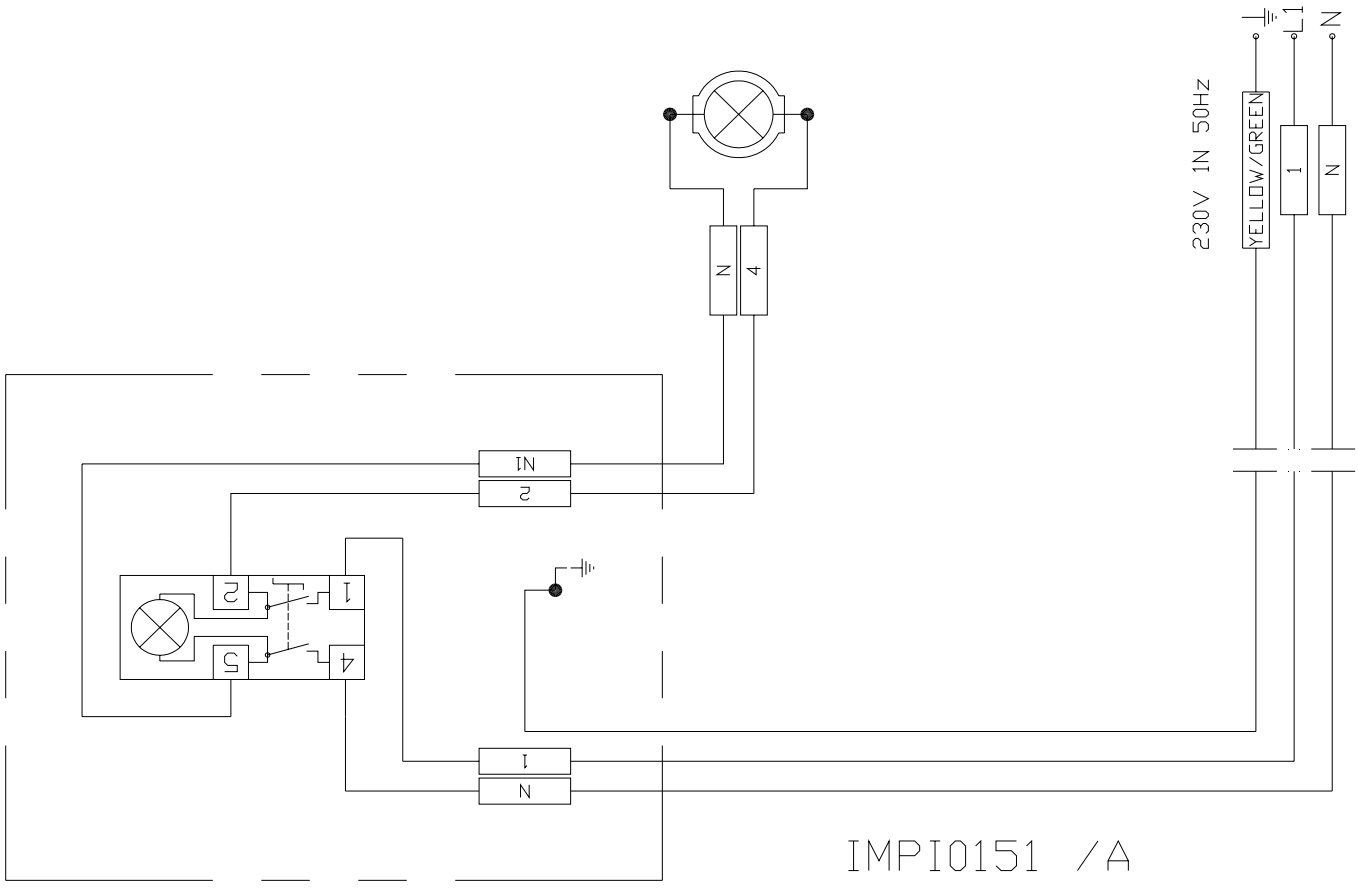



**Fig. 10-1 Electrical diagram 230 Vac monophase neutral chamber**

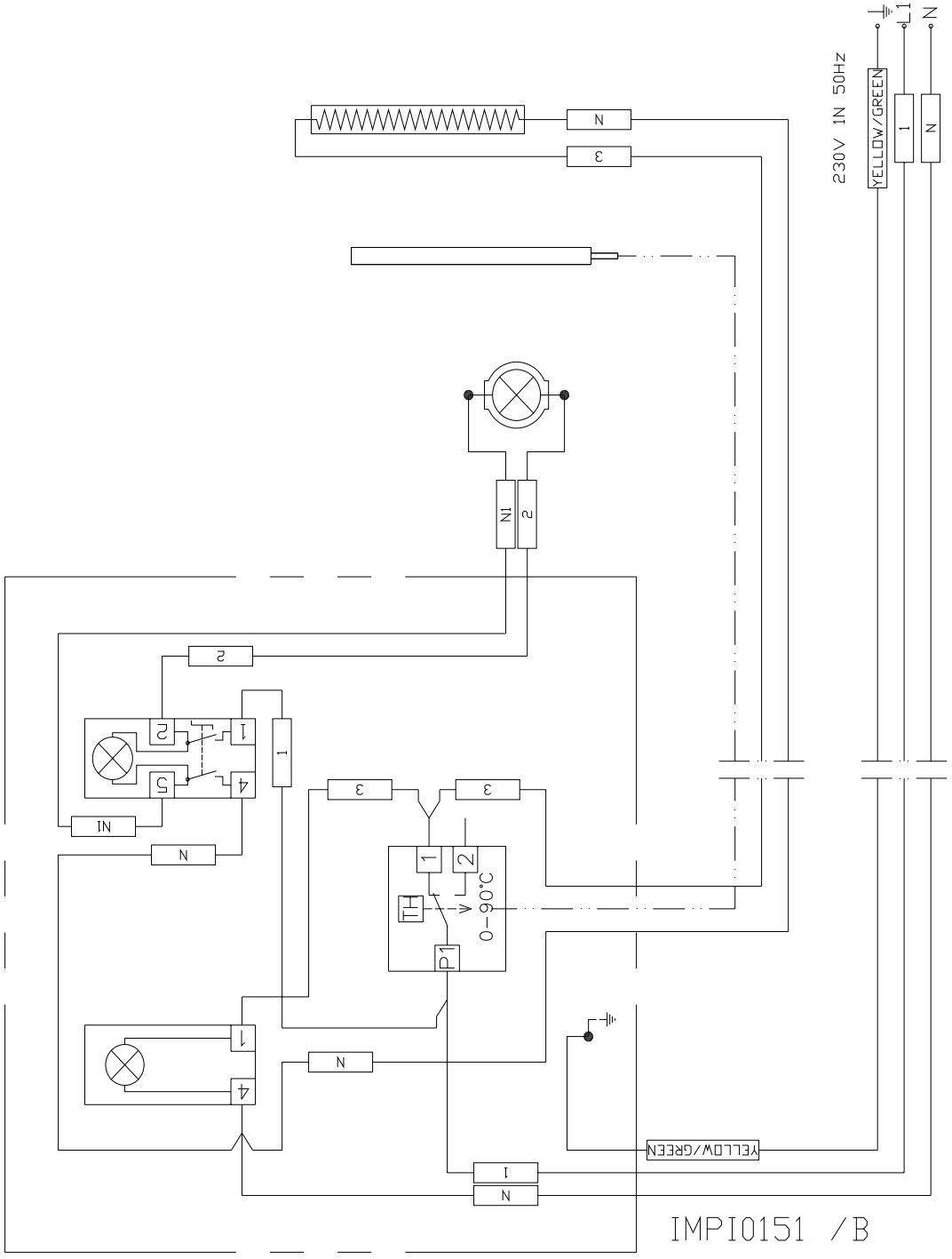



**Fig.10-2 Electrical diagram 230 Vac monophase Proofing Cabinet**

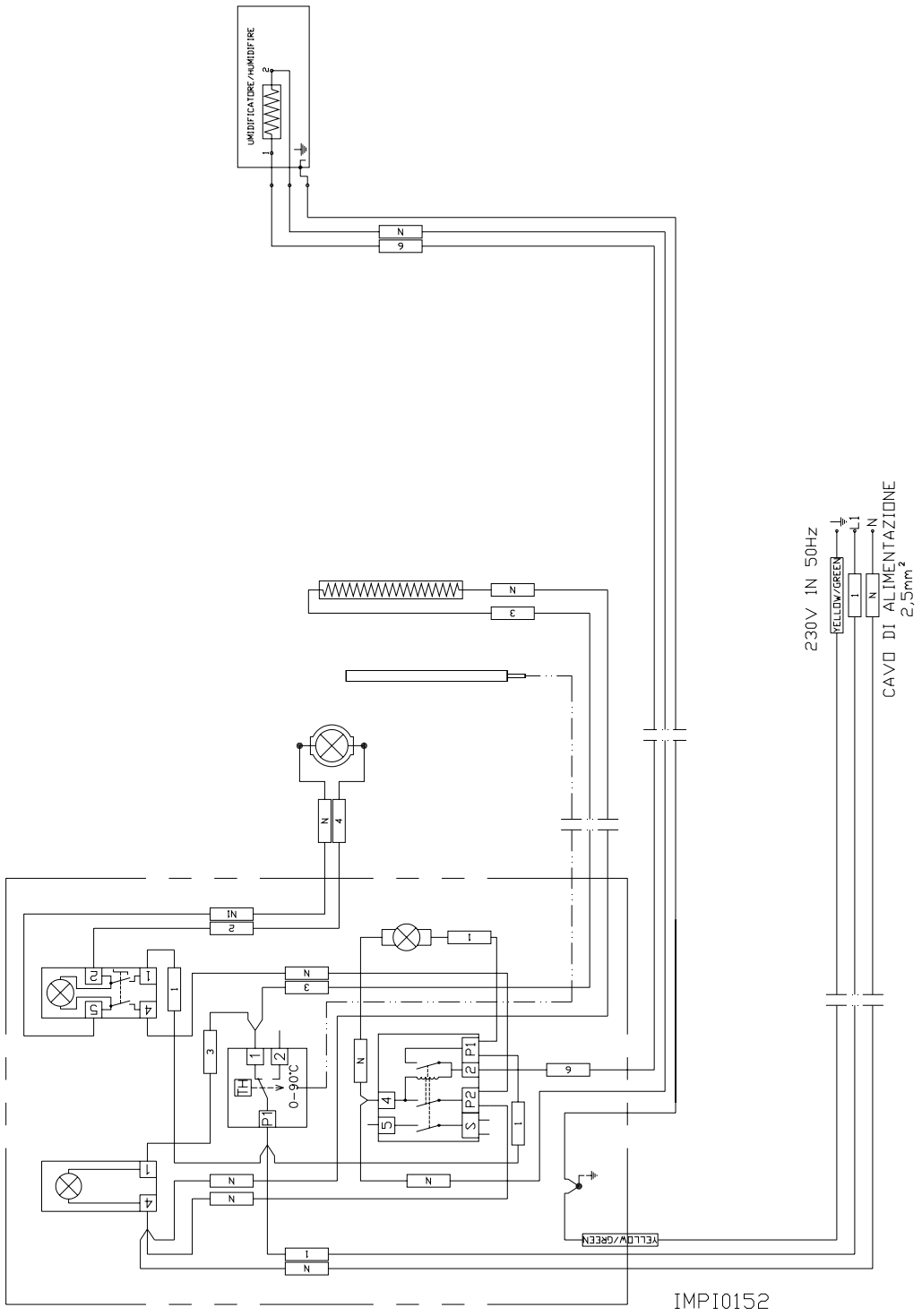
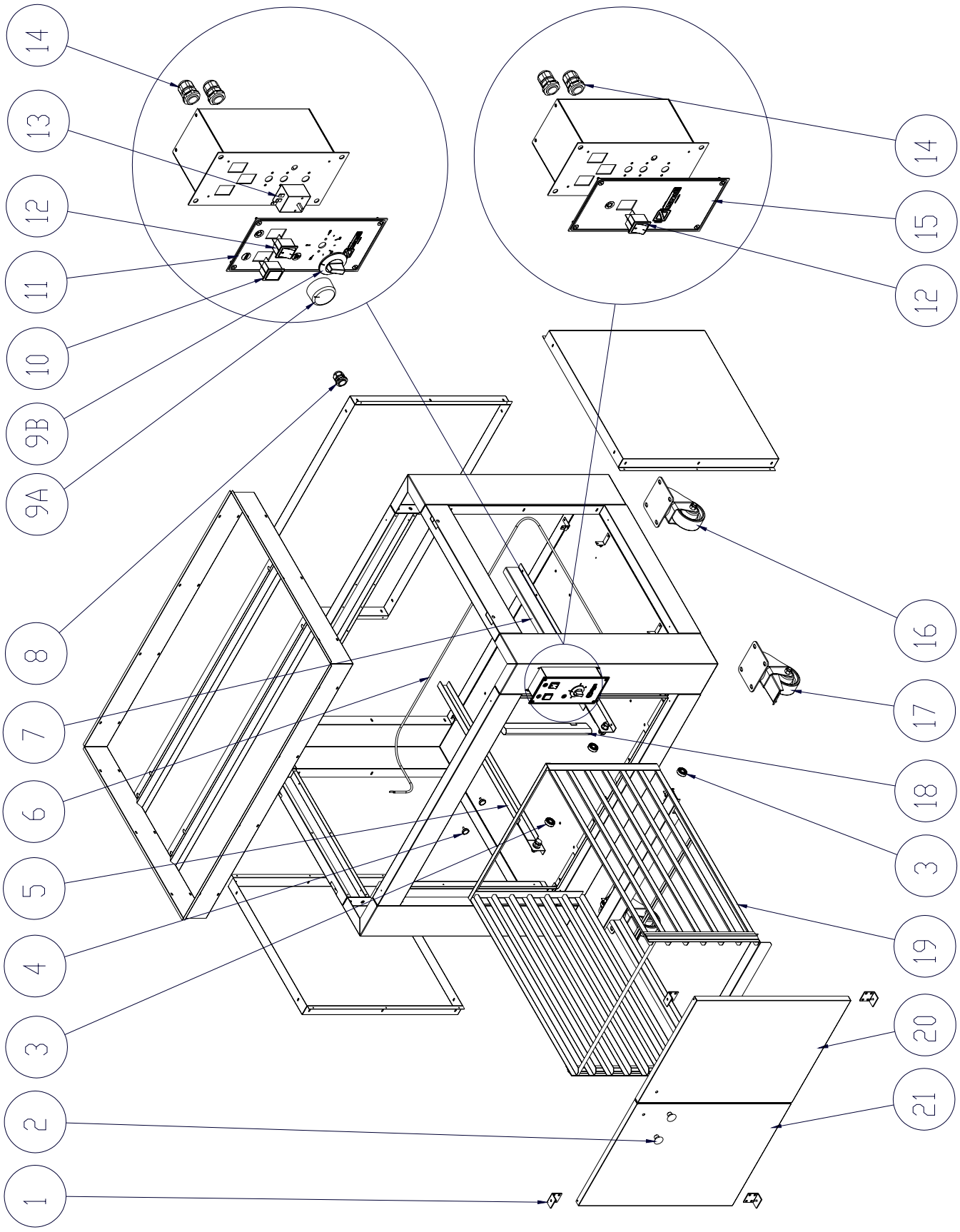



**Fig.10-3 Electrical diagram 230 Vac monophase Proofing and Humidity Cabinet**

## 8.2 Exploded views and list of spare parts.

In order to simplify the faults' search and the possible substitution of damaged pieces, we give you as follows a list of the substitute pieces and of the exploded views, with reference to each listed piece.
In order to make it easier to find the cause of problems and replace damaged parts, here is a list of spare parts with reference to its position in exploded drawings.

## CHAMBER EXPLODED VIEW

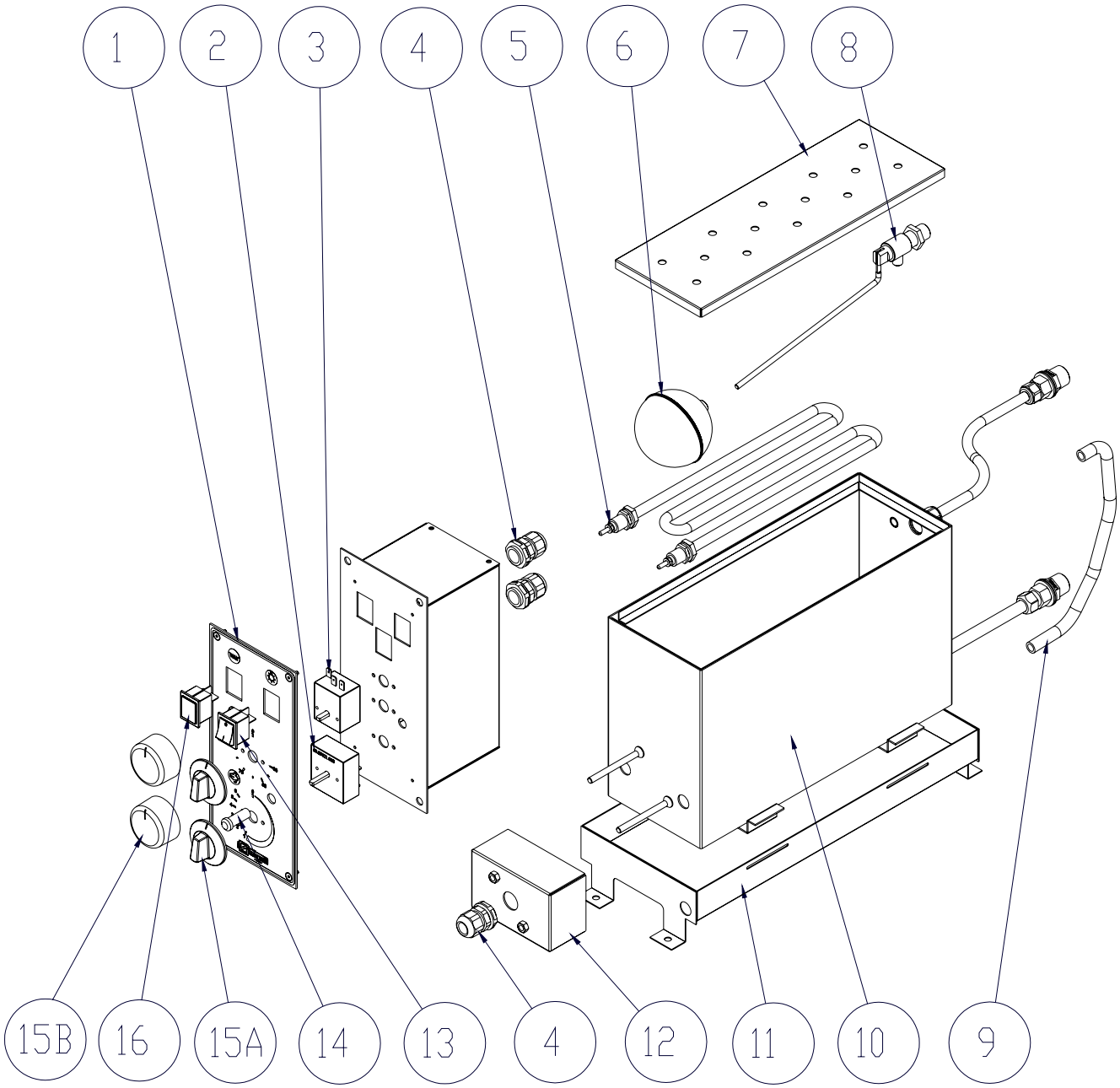


# CHAMBER SPARE PARTS LIST

| N° | Description | Codes | | | |
|---|---|---|---|---|---|
| | | 2 ST/CL<br>2 DL/CL | 2S ST/CL<br>2S DL/CL | 3 ST/CL<br>3 DL/CL | 4 ST/CL<br>4 DL/CL |
| 1 | **DOOR HINGE** | CARP1495 | CARP1495 | CARP1495 | CARP1495 |
| 2 | **CHAMBER KNOB** | MANI0068 | MANI0068 | MANI0068 | MANI0068 |
| 3 | **CHAMBERS BEARING** | CUSC0023 | CUSC0023 | CUSC0023 | CUSC0023 |
| 4 | **CHAMBER DOOR MAGNET** | MECC0578 | MECC0578 | MECC0578 | MECC0578 |
| 5 | **TROLLEY LEFT RAIL** | CARP1590 | CARP1590 | CARP1590 | CARP1591 |
| 6 | **CHAMBER RESISTANCE** | RESI0008 | RESI0008 | RESI0005 | RESI0005 |
| 7 | **TROLLEY RIGHT RAIL** | CARP1589 | CARP1589 | CARP1589 | CARP1588 |
| 8 | **FAIRLEAD PG21** | ELET0091 | ELET0091 | ELET0091 | ELET0091 |
| 9A | **THERMOSTAT KNOB**<br>**(T POLIS PW DL)** | MANI0081 | MANI0081 | MANI0081 | MANI0081 |
| 9B | **THERMOSTAT KNOB**<br>**(T POLIS PW ST, CITIZEN PW GAS)** | MANI0021 | MANI0021 | MANI0021 | MANI0021 |
| 10 | **GREEN LIGHT LAMP** | LAMP0006 | LAMP0006 | LAMP0006 | LAMP0006 |
| 11 | **PROOFING CABINET ADHESIVE MEMBRANE**<br>**(T POLIS PW ST, CITIZEN PW GAS)** | PANN0331 | PANN0331 | PANN0331 | PANN0331 |
| | **PROOFING CABINET CONTROL PANEL**<br>**(T POLIS PW DL)** | PANN0335 | PANN0335 | PANN0335 | PANN0335 |
| 12 | **BIP LIGHTING YELLOW SWITCH 0-1** | INTE0009 | INTE0009 | INTE0009 | INTE0009 |
| 13 | **THERMOSTAT 0-90° CHAMBERS** | TERM0002 | TERM0002 | TERM0002 | TERM0002 |
| 14 | **FAIRLEAD PG13.5** | ELET0090 | ELET0090 | ELET0090 | ELET0090 |
| 15 | **NEUTRAL CHAMBER ADHESIVE MEMBRANE**<br>**(T POLIS PW ST, CITIZEN PW GAS)** | PANN0360 | PANN0360 | PANN0360 | PANN0360 |
| | **NEUTRAL CHAMBER CONTROL PANEL**<br>**(T POLIS PW DL)** | PANN0334 | PANN0334 | PANN0334 | PANN0334 |
| 16 | **REAR WHEEL WITHOUT BRAKE** | RUOT0016 | RUOT0016 | RUOT0016 | RUOT0016 |
| 17 | **FRONT WHEEL WITH BRAKE** | RUOT0001 | RUOT0001 | RUOT0001 | RUOT0001 |
| 18 | **CHAMBER STYLO OVERHEAD LIGHT** | LAMP0048 | LAMP0048 | LAMP0048 | LAMP0048 |
| 19 | **TROLLEY (CHAMBER H=600)** | - | - | - | - |
| | **TROLLEY (CHAMBER H=700)** | CARR0052 | CARR0052 | CARR0052 | CARR0051 |
| | **TROLLEY (CHAMBER H=940)** | CARR0053 | CARR0053 | CARR0053 | CARR0050 |
| 20 | **RIGHT DOOR (CHAMBER H=600)** | - | - | - | - |
| | **RIGHT DOOR (CHAMBER H=700)** | PORT0332 | PORT0361 | PORT0333 | PORT0332 |
| | **RIGHT DOOR (CHAMBER H=940)** | PORT0331 | PORT0358 | PORT0334 | PORT0331 |
| 21 | **LEFT DOOR (CHAMBER H=600)** | - | - | - | - |
| | **LEFT DOOR (CHAMBER H=700)** | PORT0338 | PORT0360 | PORT0336 | PORT0338 |
| | **LEFT DOOR (CHAMBER H=940)** | PORT0337 | PORT0359 | PORT0335 | PORT0337 |

| N° | Description | Codes | | |
|---|---|---|---|---|
| | | 6 ST/CL<br>6 DL/CL | 8 ST/CL<br>8 DL/CL | 6/9 GAS/CL |
| 1 | **DOOR HINGE** | CARP1495 | CARP1495 | CARP1495 |
| 2 | **CHAMBER KNOB** | MANI0068 | MANI0068 | MANI0068 |
| 3 | **CHAMBERS BEARING** | CUSC0023 | CUSC0023 | CUSC0023 |
| 4 | **CHAMBER DOOR MAGNET** | MECC0578 | MECC0578 | MECC0578 |
| 5 | **TROLLEY LEFT RAIL** | CARP1591 | CARP1591 | CARP1590 |
| 6 | **CHAMBER RESISTANCE** | RESI0005 | RESI0005 | RESI0005 |
| 7 | **TROLLEY RIGHT RAIL** | CARP1588 | CARP1588 | CARP1589 |
| 8 | **FAIRLEAD PG21** | ELET0091 | ELET0091 | ELET0091 |
| 9A | **THERMOSTAT KNOB** (T POLIS PW DL) | MANI0081 | MANI0081 | - |
| 9B | **THERMOSTAT KNOB** (T POLIS PW ST, CITIZEN PW GAS) | MANI0021 | MANI0021 | MANI0021 |
| 10 | **GREEN LIGHT LAMP** | LAMP0006 | LAMP0006 | LAMP0006 |
| 11 | **PROOFING CABINET ADHESIVE MEMBRANE** (T POLIS PW ST, CITIZEN PW GAS) | PANN0331 | PANN0331 | PANN0331 |
| | **PROOFING CABINET CONTROL PANEL** (T POLIS PW DL) | PANN0335 | PANN0335 | - |
| 12 | **BIP LIGHTING YELLOW SWITCH 0-1** | INTE0009 | INTE0009 | INTE0009 |
| 13 | **THERMOSTAT 0-90° CHAMBERS** | TERM0002 | TERM0002 | TERM0002 |
| 14 | **FAIRLEAD PG13.5** | ELET0090 | ELET0090 | ELET0090 |
| 15 | **NEUTRAL CHAMBER ADHESIVE MEMBRANE** (T POLIS PW ST, CITIZEN PW GAS) | PANN0360 | PANN0360 | PANN0360 |
| | **NEUTRAL CHAMBER CONTROL PANEL** (T POLIS PW DL) | PANN0334 | PANN0334 | - |
| 16 | **REAR WHEEL WITHOUT BRAKE** | RUOT0016 | RUOT0016 | RUOT0027 |
| 17 | **FRONT WHEEL WITH BRAKE** | RUOT0001 | RUOT0001 | RUOT0026 |
| 18 | **CHAMBER STYLO OVERHEAD LIGHT** | LAMP0048 | LAMP0048 | LAMP0048 |
| 19 | **TROLLEY (CHAMBER H=600)** | - | - | CARR0054 |
| | **TROLLEY (CHAMBER H=700)** | CARR0051 | CARR0051 | - |
| | **TROLLEY (CHAMBER H=940)** | CARR0050 | CARR0050 | - |
| 20 | **RIGHT DOOR (CHAMBER H=600)** | - | - | PORT0339 |
| | **RIGHT DOOR (CHAMBER H=700)** | PORT0333 | PORT0333 | - |
| | **RIGHT DOOR (CHAMBER H=940)** | PORT0334 | PORT0334 | - |
| 21 | **LEFT DOOR (CHAMBER H=600)** | - | - | PORT0340 |
| | **LEFT DOOR (CHAMBER H=700)** | PORT0336 | PORT0336 | - |
| | **LEFT DOOR (CHAMBER H=940)** | PORT0335 | PORT0335 | - |

## HUMIDIFIER GROUP EXPLODED VIEW



# HUMIDIFIER GROUP SPARE PARTS LIST

| N° | Description | Codes | |
|---|---|---|---|
| | | T POLIS PW 2/2S/3/4/6/8 | CITIZEN PW 6/9 GAS |
| 1 | **PROOFING AND HUMIDITY CABINET ADHESIVE MEMBRANE** (T POLIS PW ST, CITIZEN PW GAS) | PANN0332 | PANN0332 |
| | **PROOFING AND HUMIDITY CABINET CONTROL PANEL** (T POLIS PW DL) | PANN0336 | - |
| 2 | **ENERGY REGULATOR** | TERM0050 | TERM0050 |
| 3 | **THERMOSTAT 0-90° CHAMBER** | TERM0002 | TERM0002 |
| 4 | **FAIRLEAD PG13.5** | ELET0090 | ELET0090 |
| 5 | **CHAMBER HUMIDIFIER RESISTANCE** | RESI0016 | RESI0016 |
| 6 | **HUMIDIFIER BALL FOR FLOATING** | GASI0011 | GASI0011 |
| 7 | **LID** | CAR1704 | CAR1704 |
| 8 | **HUMIDIFIER FLOATING BAR 3/8”** | GASI0013 | GASI0013 |
| 9 | **SILICONE PIPE** | GUAR0035 | GUAR0035 |
| 10 | **HUMIDIFIER TANK** | CARP1706 | CARP1706 |
| 11 | **HUMIDIFIER DRAINING TANK** | CARP1703 | CARP1703 |
| 12 | **CONNECTION LID HUMIDIFIER’S RESISTANCE** | CARP1705 | CARP1705 |
| 13 | **BIP LIGHTING YELLOW SWITCH 0-1** | INTE0009 | INTE0009 |
| 14 | **GREEN ROUND LIGHT LAMP** | LAMP0007 | LAMP0007 |
| 15A | **ENERGY REGULATOR / THERMOSTAT KNOB** (T POLIS PW ST, CITIZEN PW GAS) | MANI0021 | MANI0021 |
| 15B | **ENERGY REGULATOR / THERMOSTAT KNOB** (T POLIS PW DL) | MANI0081 | MANI0081 |
| 16 | **GREEN LIGHT LAMP** | LAMP0006 | LAMP0006 |

Source separation for recycling. This product must not be disposed of together with normal domestic waste. Depending on local standards and conditions, services for collecting separated waste may be available at centers provided by the local council.

# 9 Declaration of conformity

Since1952 zanolli
Forni e Macchine • Ovens and Machines

## DECLARATION OF CONFORMITY



We: Dr. ZANOLLI s.r.l. via Casa Quindici, 22
37066 Caselle di Sommacampagna VR
declare under our sole responsability that the equipment:

Manufactured by Dr. ZANOLLI s.r.l.

Model

Serial number

Year of construction

is in conformity with the following European Directives:

-Electromagnetic Compatibility Directive 2004/108/CE
-Low Tension Directive 2006/95/CE

and with the compulsory regulations of the Directives.

Caselle di Sommacampagna

**Dr. Zanolli s.r.l.**
**Tester**

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