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INSTALLATION, OPERATION AND MAINTENANCE

VACUUM PACKING MACHINE

- **MVS41 XP**
- **MVS45 XP**
- **MVS45L XP**
- **MVS52 XP**
- **MVS50 XP**
- **MVS65 XP**
- **MVS52 DV XP**

BEFORE USING THE MACHINE PLEASE CAREFULLY READ THE INSTRUCTIONS

EN	English	Page 25



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TRANSLATION OF THE ORIGINAL INSTRUCTIONS

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EN

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1.1. Preface

This manual has been drawn up in compliance with the UNI 10893 standard dated July 2000. It is meant for all users in order to enable them to use the machine correctly. Keep it in a place which can be easily accessed in the proximity of the machine and which is known to all users. This manual is an integral part of the machine for safety reasons. We wish to specify the symbols in use here below in order to improve their understanding.

	ATTENTION: Accident prevention rules for the operator. This warning indicates the presence of dangers which can injure the person operating on the machine.
	ATTENTION: Hot parts. Shows the danger of burning, thus involving the risk of a serious accident for the exposed person.
	WARNING: It indicates the possibility of damaging the machine and/or its components.

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1.2. Performances of packaging machine

This machine represents what the modern technology of vacuum-packing may express at its best. It is flexible, easily programmable and cheap. It is intended to vacuum-pack foodstuffs by removing oxygen as well as any chemical and biological pollutant present in the environment. To attain the vacuum level you wish, just program the machine in order to remove almost all the air contained in the packet. Your product will preserve its organoleptic features, colour, taste, flavour and nutritive value for a long time.

In addition, this machine introduces an important innovation, an exclusive and revolutionary new concept for internal vacuum packaging: vacuum traceability on the packet.

This brand new feature, can be used to produce one or more adhesive label (when packaging one or more bag simultaneously) displaying the essential product conservation information. It is possible to display a wide range of information, including: packing date, vacuum level, operator name/code, product name, % of inert gases present in the package, expiry date, packet number and the name of the company where the product was packed.

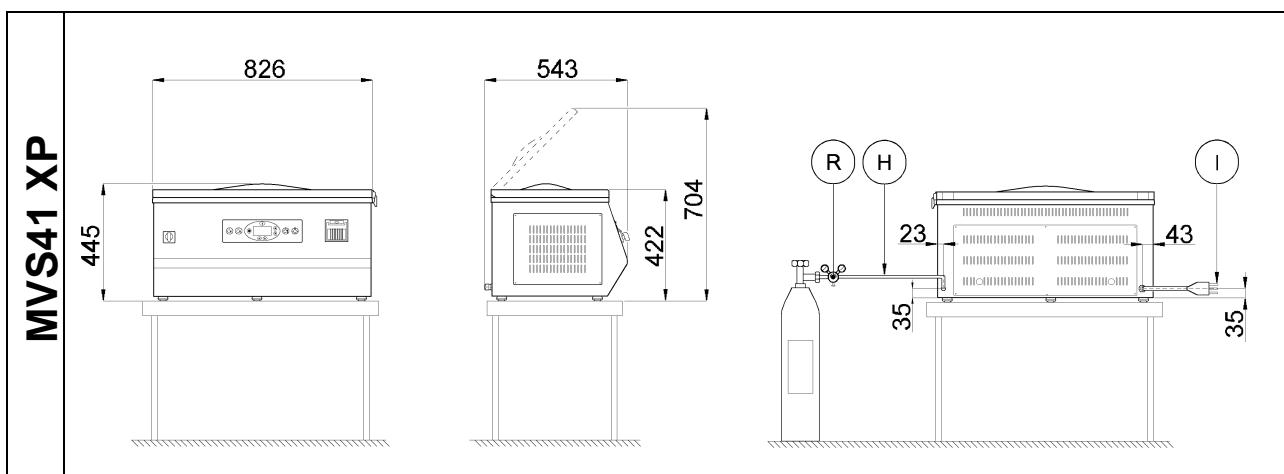
The information is customisable and can be set up easily using the electronic LCD interface.

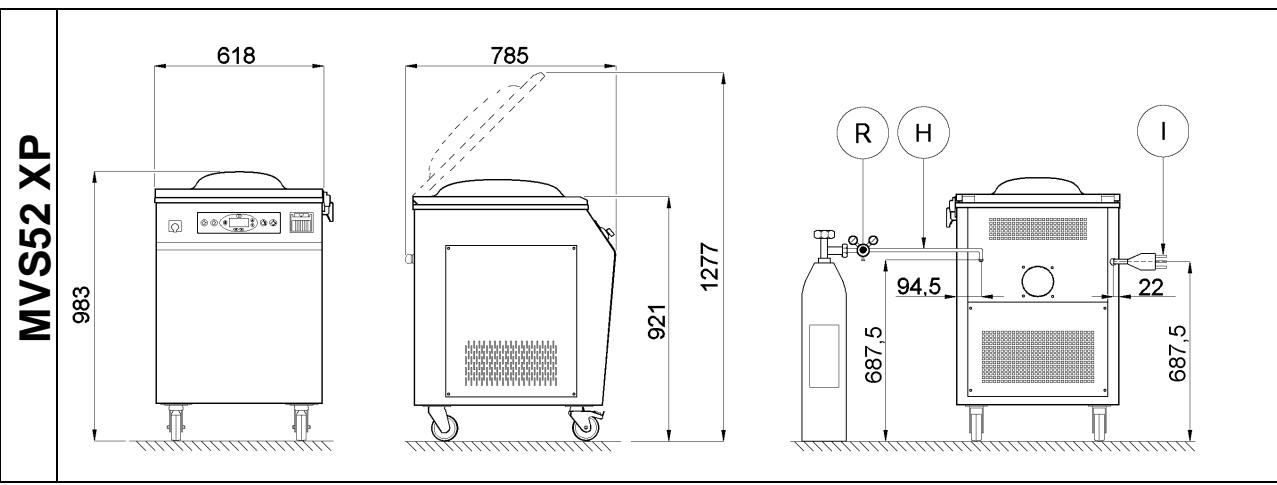
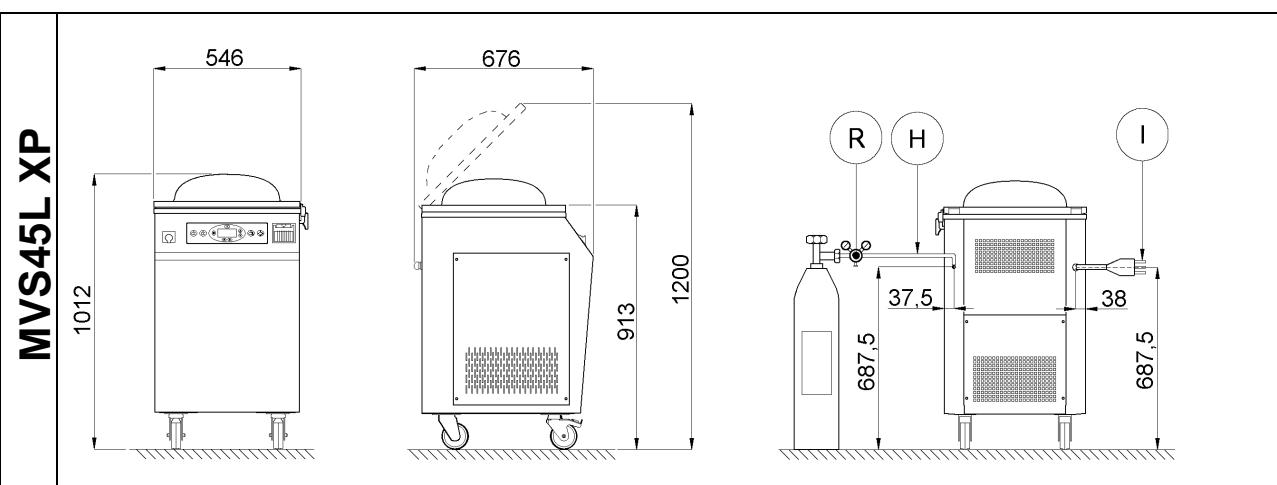
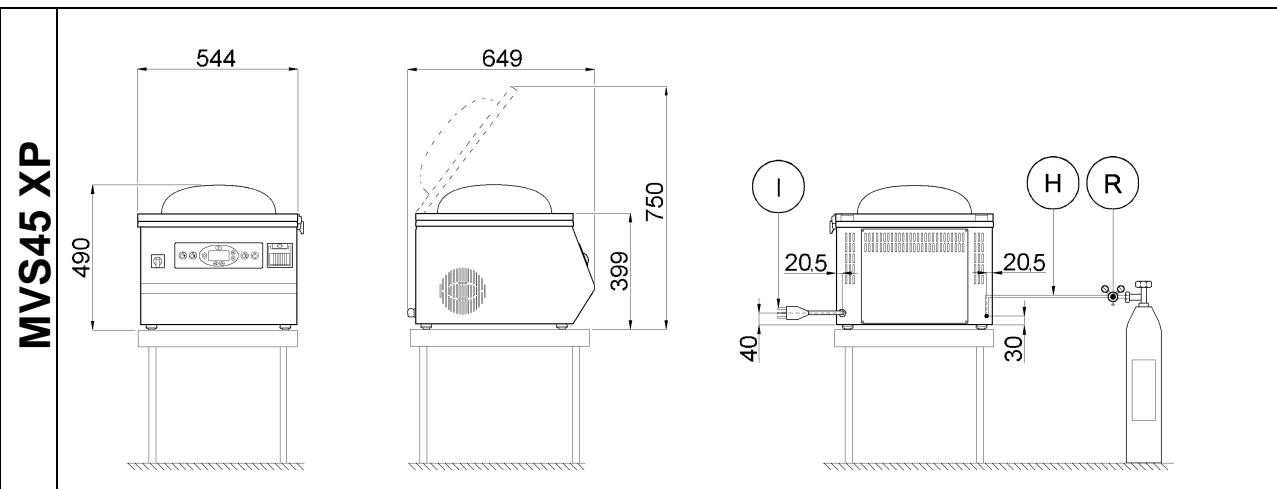
1.3. Technical data of the machine

I = Electrical connections;

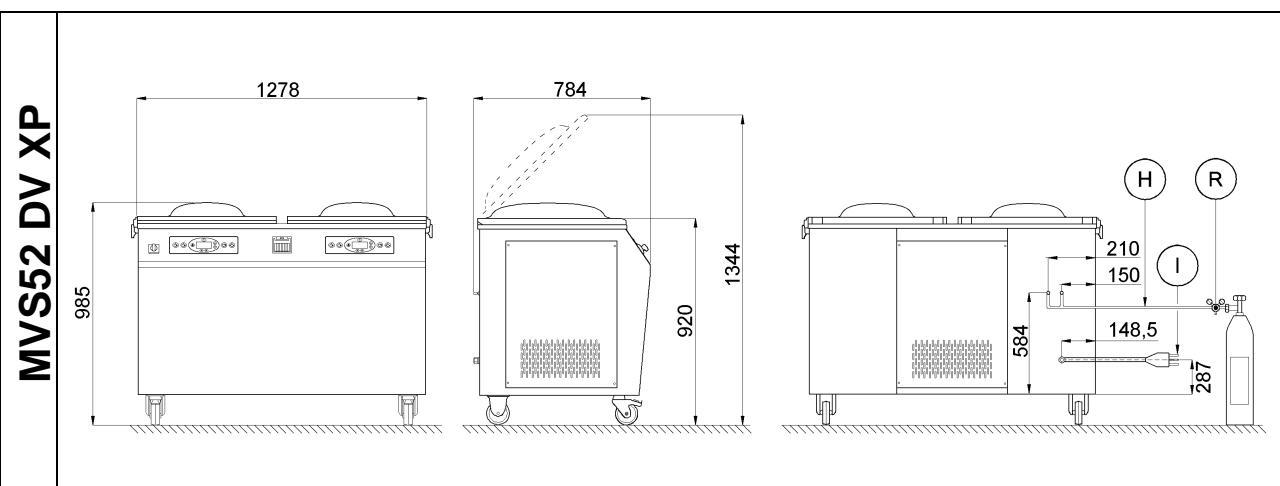
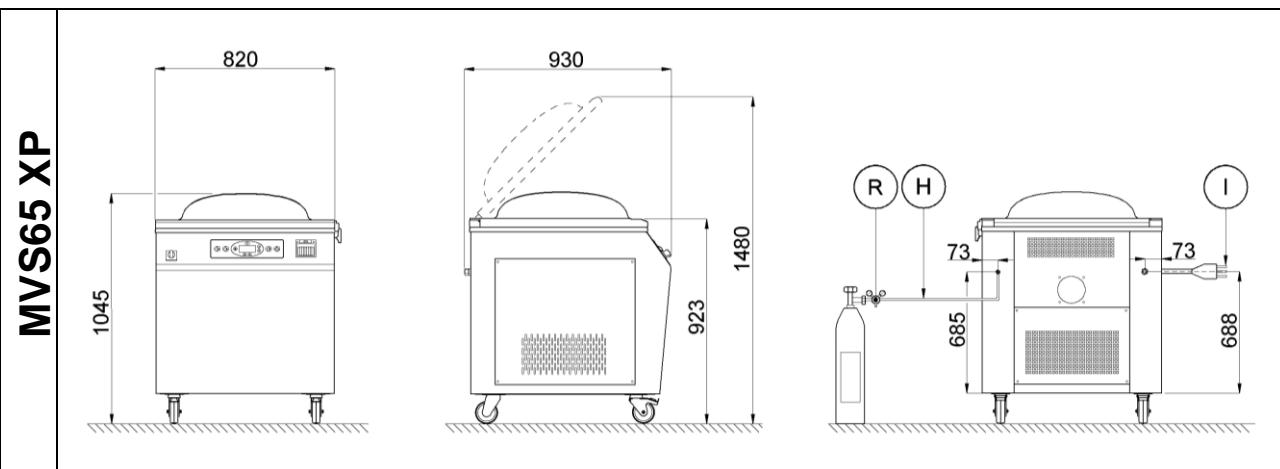
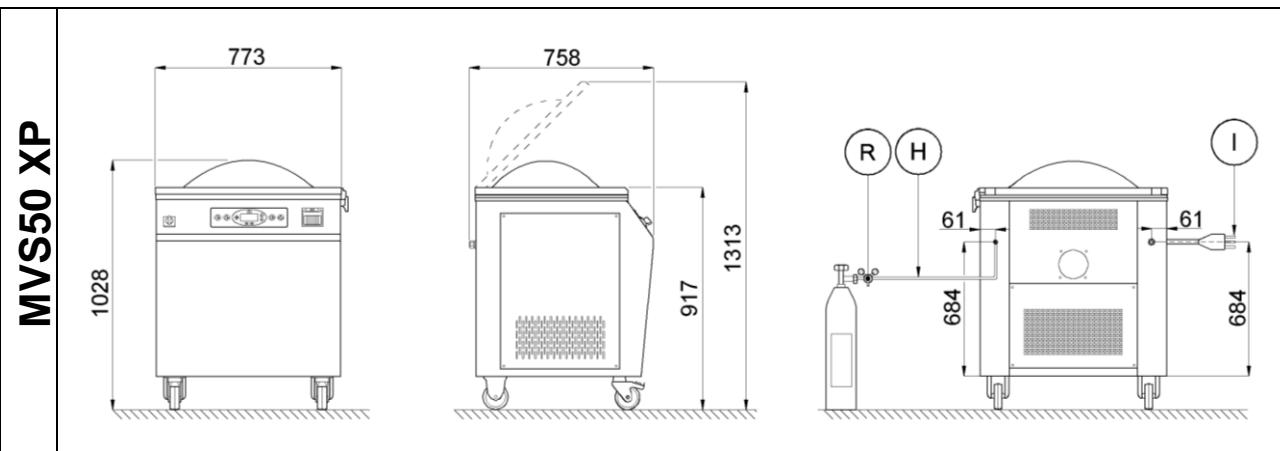
H = Gas connection;

R = Gas pressure reducer.





	MVS41 XP	MVS45 XP	MVS45L XP	MVS52 XP
Package sizes (mm)	650x940x650	650x810x705	770x860x1300	770x860x1300
Package weight (kg)	117	87	129	155
Machine sizes with closed cover (mm)	826x543x445	544x649x490	546x676x1012	618x785x983
Machine sizes with open cover (mm)	826x543x704	544x649x750	546x676x1200	618x785x1277
Machine weight (kg)	102	78	104	130
Vacuum pump (m³)	20	20	20	20



	MVS50 XP	MVS65 XP	MVS52 DV XP
Package sizes (mm)	770x860x1300	900x985x1300	1590x960x1370
Package weight (kg)	200	265/ <u>283</u> *	300
Machine sizes with closed cover (mm)	773x758x1028	820x930x1045	1278x784x985
Machine sizes with open cover (mm)	773x758x1313	820x930x1480	1278x784x1344
Machine weight (kg)	175	229/ <u>247</u> *	268
Vacuum pump (m ³)	40	63/ <u>100</u> *	40

2.1. Pouches to use

They may be of different thickness (85÷200µm) and shall be both airtight and gastight. Only food packaging pouches can be used. The following table indicates the maximum dimensions of the pouches that can be used with the various machine models.

Machine	Pouch width open side	Pouch length closed side
MVS41 XP (front bar)	620 mm	285 mm
MVS41 XP (side bar)	300 mm	660 mm
MVS45-45L XP (front bar)	450 mm	430 mm
MVS45-45L XP (side bar)	450 mm	375 mm
MVS52 XP (side bar)	530 mm	420 mm
MVS50 XP (side bar)	500 mm	580 mm
MVS65 XP (side bar)	650 mm	630 mm
MVS52 DV XP (side bar)	530 mm	420 mm

The following table indicates the min/max temperature limits the pouches can undergo to.

Type of pouch	Minimum temperature	Maximum temperature
for cooking	-15°C	+120°C for 30 minutes
for storage	-20°C	+70°C for 2 hours; +100°C for 15 minutes.



It is recommended to refer to the technical and safety sheets of the pouches in use and to observe the corresponding instructions!

3.1. Items that may be packaged

This machine can be used to pack the majority of foodstuffs, including: fruit, fish products, dairy products, meat, delicatessen, oven ready products, gastronomic products, dried products, etc.

A more complete, although not exhaustive, list can be found in the table on page 34.

3.2. Items not to be packed

It is absolutely forbidden to pack the following products which might permanently damage the machine and harm operator:



- Liquids of any type and density in fragile containers
- Inflammable and explosive materials
- Gas bottles under pressure or of any type
- Bulk or volatile powders (unless a filter is assembled on the pump)
- Any material and product which might in any way cause the user to be in a dangerous situation and damage the machine.

4.1. Warnings

It is extremely important to read this entire chapter as it contains important information regarding risks that personnel are subject to in the event of incorrect use of the machine. These basic standards must be observed as well as specific standards applicable in the country of installation.

- This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack experience and knowledge, unless they have been given supervision or instruction concerning use of the machine by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the machine.
- Keep children and animals away from the machine when running. Do not allow children to play with the pouches.
- The machine must be used only for the purpose it was built for. Any other use shall be considered "improper" and therefore dangerous.
- Never allow unauthorized personnel to perform repairs or other operations on the machinery.

- The operator must be familiar with all warnings related to the tasks in hand and always be informed by the head of the site regarding risks.
- Ensure that all clothing is tight fitting, with particular reference to cuffs or other loose clothing.
- Ensure that all operating areas and transit zones are kept clear, clean and adequately lit at all times.
- Eliminate all safety hazard conditions before using the machine and always notify the head personnel of any malfunction.
- Never use the machine in the event of fault.
- Never tamper with safety devices or circuits.
- Never perform modifications on the machine without prior authorization from the manufacturer.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The electrical enclosure must remain closed during operation.
- Smoking is forbidden while the machine is operating!
- Never performs maintenance and/or adjustments to the machine during operation. Guards may only be disassembled by suitably trained and qualified maintenance engineers.
- Never operate the machine without all guards fitted. Ensure correct position of all guards before resuming normal operation.
- If it is necessary to leave the machine unattended, switch it off by turning the main switch to the “0” (OFF) position!
- The manufacturer declines all liability for damage or physical injury caused by failure to observe safety standards.

THE MACHINE CAN NOT BE USED BY UNTRAINED PERSONNEL!

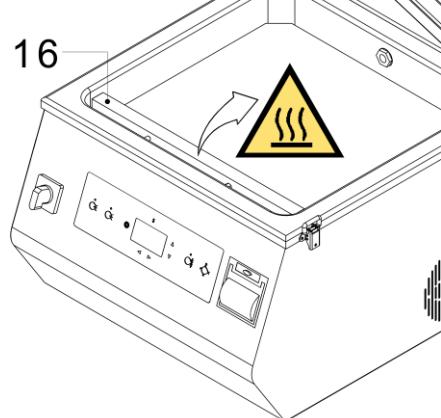
	During work pay attention to all hot parts of the machine. The temperature they can reach is so high that it can cause burns.
	Never use gaseous mixtures in presence of oxygen in a percentage higher than the atmospheric one (~ 19%).

Do not touch the sealing blade (16) immediately after sealing.

Danger of burns due to hot blade.

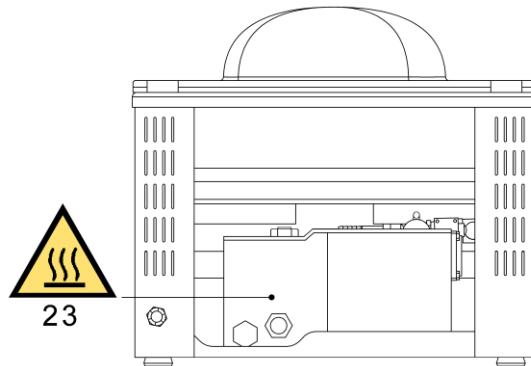
Do not seal if the sealing wire is broken.

Replace it immediately.



Do not touch the vacuum pump (23) just after a working cycle.

Possibility of burning due to the high temperature the pump may reach.



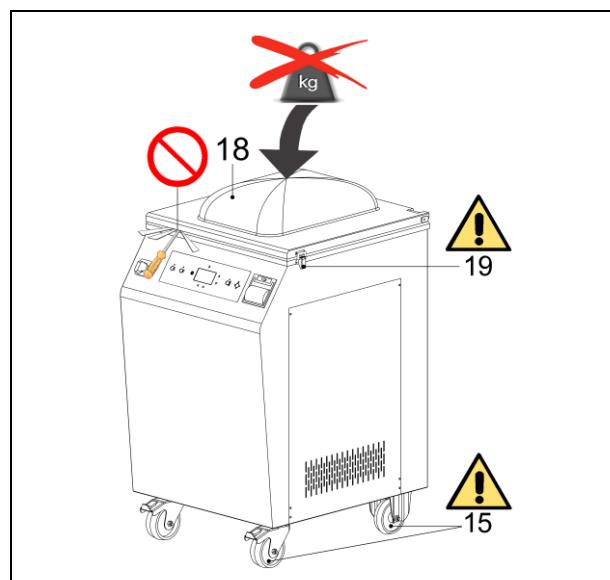
In case of a power failure during a working cycle when the cover is closed, do not use any tool in order to force its opening. Wait for the power supply to be restored.

Do not place any weight on the cover (18)! Prevent any object from falling on the cover! This can compromise the integrity, causing cracks or damage. Do not proceed with packaging if the cover has cracks or is broken.
Replace it immediately.

Before any working cycle make sure that the closing hook (19) will not prevent the operator from closing the cover correctly.
Possibility of breaking the cover.

Only for models "with wheels"

The wheels (15) must be used only for moving the unit short distances across smooth, horizontal floors.



4.2. Description of safety stickers

The following safety stickers feature on the machine:

	<ul style="list-style-type: none"> On the power input. <p>ATTENTION! Periodically check the correct insulation of the power cable and the integrity of the socket. During machine operation, the inspection panels to the electric system must be correctly fitted.</p>
	<ul style="list-style-type: none"> On the sealing bars positioned inside the tank On the vacuum pump positioned inside the machine. <p>ATTENTION! Hot members. It shows the danger of burning, thus involving the risk of a serious accident for the exposed person.</p>
ATTENZIONE : Superficie calda. Evitare il contatto. WARNING : Hot surface. avoid contact. ATTENTION : Surface chaffante. Ne touchez pas.	<ul style="list-style-type: none"> On the sealing bars positioned inside the tank <p>ATTENTION! Indicates the danger of burns with risk of accident in case of contact with the hot surface of the sealing bar.</p>
ATTENZIONE : Per la pulizia del coperchio non utilizzare alcool o solventi ma esclusivamente acqua e sapone. WARNING : Do not use methylated spirits and solvents clean the lid, but water and soap only. ATTENTION : Pour le nettoyage du couvercle, ne pas utiliser ni alchool ni savants. N'employer que de l'eau et savon.	<ul style="list-style-type: none"> On the Plexiglas lid. <p>ATTENTION! Indicates how to clean the lid to prevent damaging it and reducing its transparency or strength.</p>

4.3. Individual protection devices

	Wear safety shoes that protect feet from impacts, crushing and compression while moving or handling the machine.
	<p>Wear safety gloves that protect the hands from crushing and mechanical hazards and while moving or handling the machine.</p> <p>Wear safety gloves that protect the hands against cutting risks while changing the sealing blades.</p> <p>Wear safety gloves that protect the hands against the specific risks associated with the materials to be packed (mechanical, chemical) and against coming into contact with the high temperatures present on the seals and/or sealing bars (up to 100°C).</p>
	Wear safety gloves that prevent the hands from coming into contact with foodstuffs when packaging them.

5.1. Transport and positioning

	Wear safety shoes that protect feet from impacts, crushing and compression while moving or handling the machine.
	Wear safety gloves that protect the hands from crushing and mechanical hazards and while moving or handling the machine.
	<p>Neither overturn nor tilt the machine! Oil might come out of the pump and damage the machine.</p> <p>The machine must be installed by personnel who are qualified for this operation: personnel specifically trained to safely carry out the loading, unloading and handling operations, who are familiar with the accident prevention rules.</p> <p>Where a forklift must be used, please note that:</p> <ul style="list-style-type: none"> • The forklift truck must only be driven and manoeuvred by specialised and trained personnel who have the skills to carry out these activities, • the load to be handled must not exceed the capacity of the forklift, • the load to be handled must be stable and positioned in absolute safety.

Cut the strap with scissors make sure you protect your eyes by wearing glasses and withdraw the cardboard.
Cut the strap fastening the machine to the pallet.

5.2. Environmental conditions

- Lift the machine and place it on the working surface. Make sure the machine is placed in a proper environment without any inflammable and explosive materials or gas. The machine may only be installed on smooth, flat non-inflammable surfaces.
- Leave a minimal space of 0,5 m around the machine so that not to obstruct air outlets.
- Once the correct position is achieved, lock the machine by means of the wheel brakes (where foreseen).

Working environmental conditions:

- Temperature from + 5°C to + 40°C.
- Relative humidity from 30% to 90%, without condensation.

The lighting of the operation room shall comply with the laws in force in the country where the machine is installed. However, it shall be uniform and provide for good visibility in order to safeguard the operator's safety and health.

MACHINE SAFETY FACTOR = IP20

THE AERIAL NOISE MADE BY THE MACHINE IS LOWER THAN 70 dB(A)

5.3. Users**5.3.1. Loading the oil in the pump**

If the pump has no oil, to load, fully use the provided bottle.

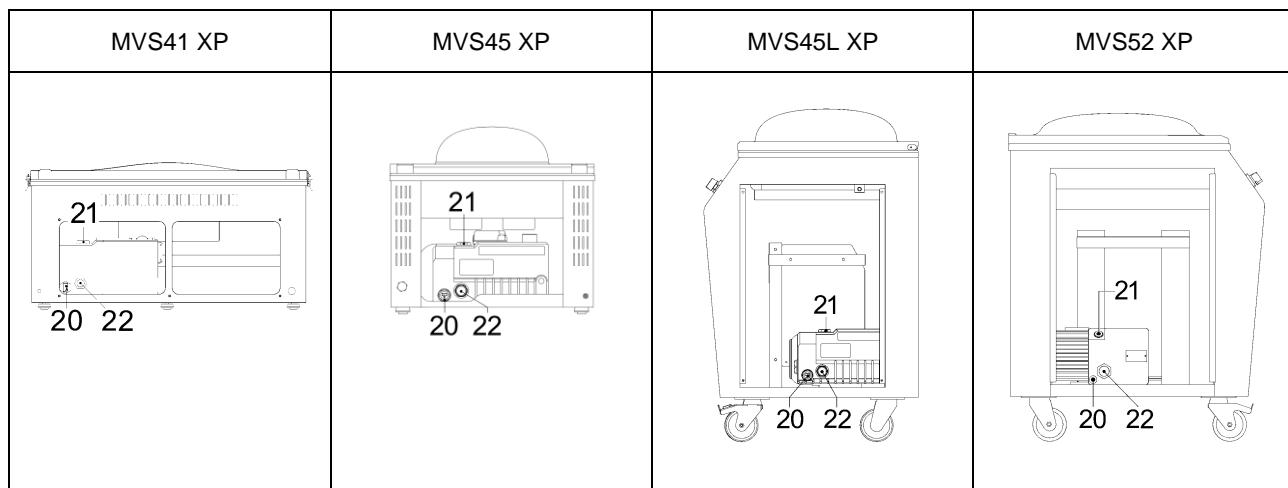
The oil loading operation must be carried out by trained and authorized technical personnel.

To access inside the machine, remove the side panel or rear panel, using a screw driver to remove the fixing screws. Remove the cap to load oil (21) using the provided wrench and fill the oil tank following the instructions indicated in the pump user manual attached to the machine.

(20) Oil discharge plug

(21) Oil filling plug

(22) Oil inspection plug



5.3.2. Electrical connections

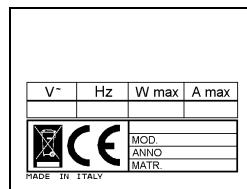
Voltage (V): see data on plate

Frequency (Hz): see data on plate

Maximum absorbed power (W): see data on plate

Maximum absorbed current (A): see data on plate

Note: when contacting the Manufacturer, always indicate the model and the serial number specified on the plate on the rear part of the machine.



The power line must be protected with a type A residual current device with rated residual current equal to " $I_{\Delta n}$ ", 30 mA.

As a result, the maximum resistance of the earth electrode must correspond to the values indicated in the following table.

$I_{\Delta n}$	Maximum resistance of the earth electrode (50 V)	Maximum resistance of the earth electrode (25 V)
3 A	16 Ω	8 Ω
1 A	50 Ω	25 Ω
500 mA	100 Ω	50 Ω
300 mA	166 Ω	83 Ω
30 mA	1666 Ω	833 Ω



OBSERVE HEALTH AND SAFETY REGULATIONS!

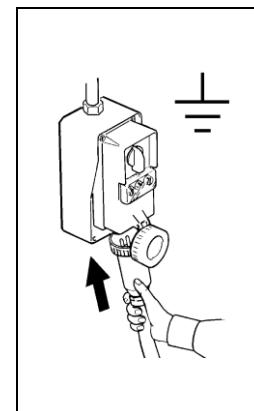
If the machine is not equipped with the power supply plug, use a plug that is suitable for the voltage and amperage values described by the rating plate and that can comply with the rules in force in the installation country.

GROUNDING OF THE UNIT IS OBLIGATORY!

Before making electrical connections, make sure the mains voltage matches the one on the plate on machine rear and that the ground contact complies with the safety rules in force.

In case of doubts about the mains voltage, contact the local power supply company.

Insert the plug on the cable from machine electrical cabinet in a mains power supply socket that can be reached easily by the operator.



5.3.3. Gas connections

When carrying out packaging operations in modified atmospheres, use specific gas for food package in compliance with the rules in force about food additives in the country where the machine is used.

The gas, which consists of a mixture of nitrogen, carbon dioxide and, more rarely, oxygen and other gases, is a "made to measure" gaseous mixture, depending on the product to be packaged.



Never use gaseous mixtures in presence of oxygen in a percentage higher than the atmospheric one (~ 19%).

Connect gas attachment, in case the machine is equipped with such a device, to the gas cylinder through the proper tube (H) (see chapter 1.3.).

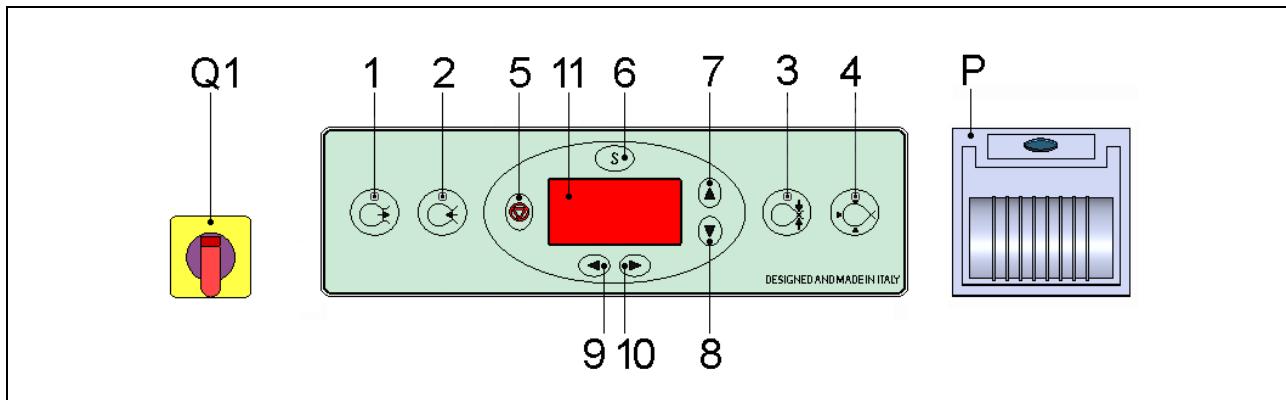
Pressure of gas plant has to be set on about 2 atm., bearing in mind the max. working pressure is 4 atm.

If the pressure is not correct, act on the knob of the pressure reducer (R) (see chapter 1.3.).

6.1. Adjustment

6.1.1. Control panel (MVS41 XP, MVS45 XP, MVS45L XP, MVS52 XP, MVS50 XP, MVS65 XP)

The machine is fitted with a control panel, from which all programming and operation functions can be set.



Q1: Main switch

P: Label printer

1: Led for vacuum and extra vacuum function

2: Led for gas function

3: Led for sealing function

4: Led for air re-immersion function

5: Stop button

6: Confirmation button

7: Selection button

8: Selection button

9: Setting button

10: Setting button

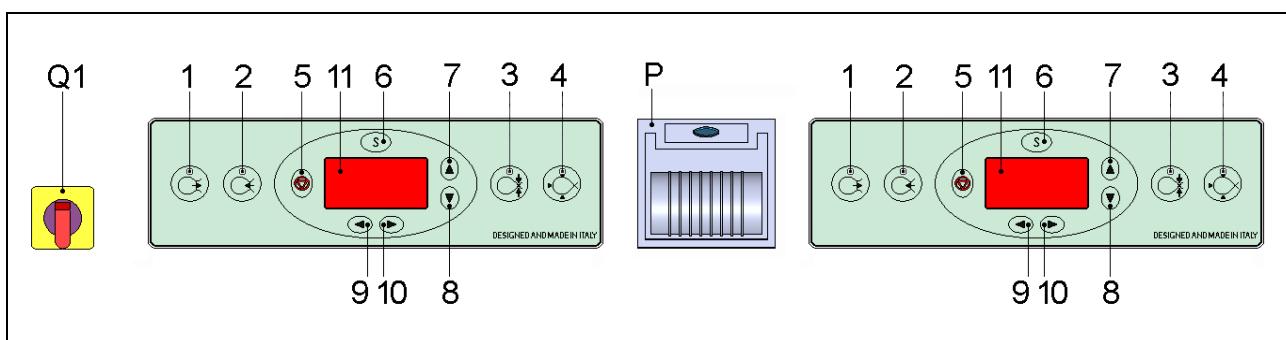
11: Display

6.1.1. Control panel (MVS52 DV XP)

The machine is fitted with two control panels that can be used to set up all the programming and operating functions. Each panel can only regulate the packaging cycle in the tank on the corresponding side.

The two control panels are independent of one another, therefore they can be set up using different values.

The two machine working stations cannot be operated simultaneously.



Q1: Main switch

P: Label printer

1: Led for vacuum and extra vacuum function

2: Led for gas function

3: Led for sealing function

4: Led for air re-immersion function

5: Stop button

6: Confirmation button

7: Selection button

8: Selection button

9: Setting button

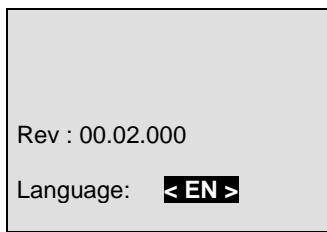
10: Setting button

11: Display

6.1.2. Switching the machine on

Turn the main switch (Q1) to position 1.

The display screen switches on and the following display page appears:

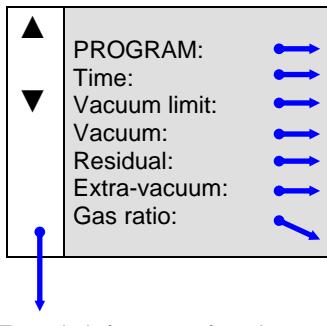


If the language to be set is different from that displayed, press the button (►) and select the required language.

Wait for the next display page "CONFIGURATIONS" and the main display page shown below to scroll.

Language: <EN>

If instead the language is correct, wait for the main display page to appear.



▲	PROGRAM:	→ displays the active program no. (P01÷P10).
▼	Time:	→ displays the sealing time set.
	Vacuum limit:	→ displays the degree of vacuum required inside the pack.
	Vacuum:	→ displays the "vacuum state" in the packaging chamber during the vacuum stage.
	Residual:	→ displays the difference between the set vacuum limit and the current level.
	Extra-vacuum:	→ indicates how long the pump continues to extract air from inside the bell after the machine has achieved the set vacuum level.
	Gas ratio:	→ displays the percentage of gas inside the package.

To switch from one function to another, press the adjustment buttons (▲) and (▼).

The selected function is dimmed; at this point, to change the settings, press the buttons (►) and (◀).



Before starting to pack, the program must be selected and the variable must be set according to the product to be packed.

To do this, follow the instructions provided below.

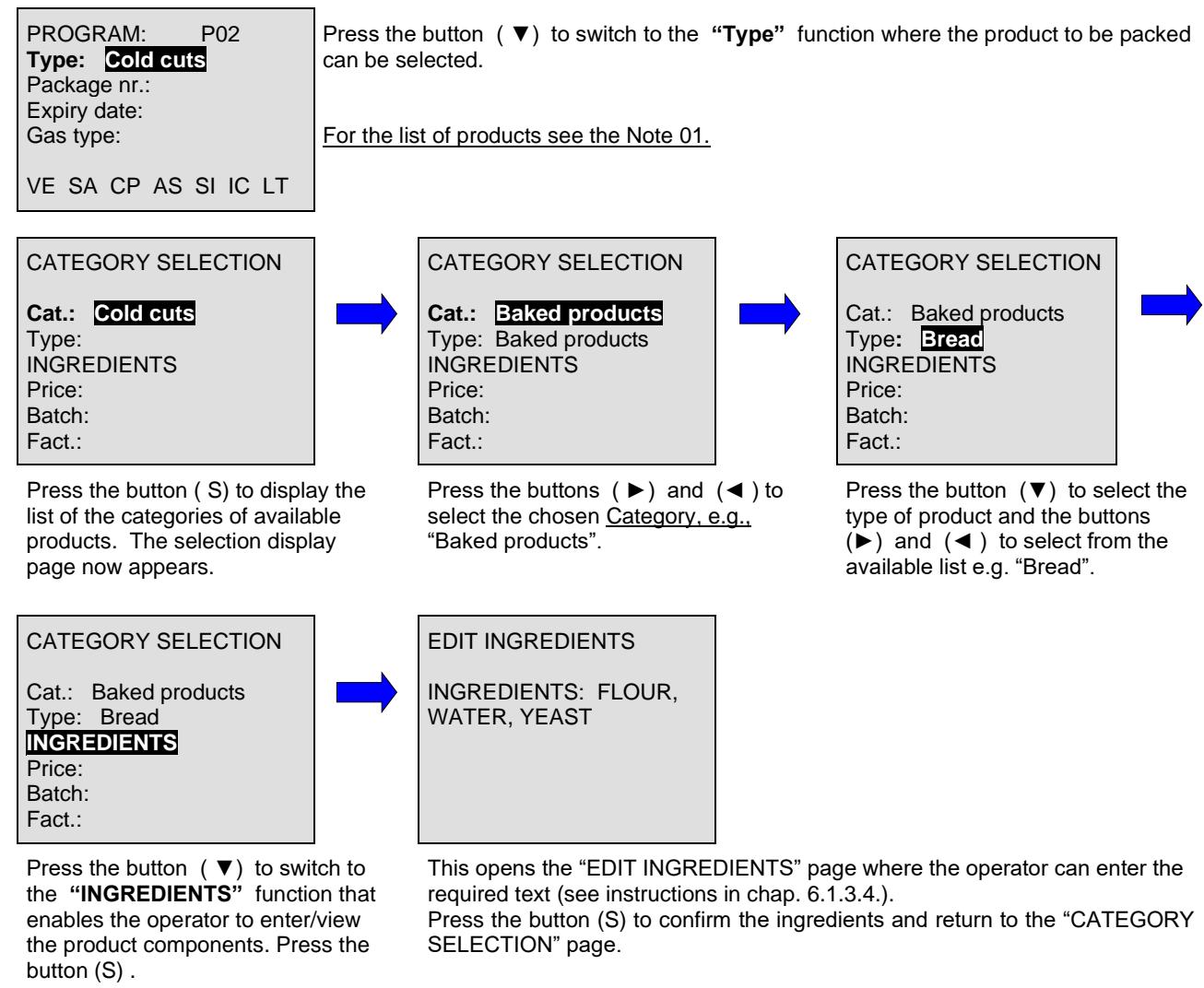
6.1.3. Program selection and variable setting

6.1.3.1. Main display page (page one)

PROGRAM: P02 Time: Vacuum limit: Vacuum: Residual: Extra-vacuum: Gas ratio:	Press the buttons (►) and (◀) to select the “Program” (e.g. P02). Time: Vacuum limit: Vacuum: Residual: Extra-vacuum: Gas ratio:
PROGRAM: P02 Time: 0.2 sec Vacuum limit: Vacuum: Residual: Extra-vacuum: Gas ratio:	Press the button (▼) to switch to the “Time” sealing function. Press the buttons (►) and (◀) to set the “Sealing time” (0.0 ÷ 4). For the first work cycles, it is best to set a sealing time of about 1,9 seconds (MVS41/45/45L) / 2,5 seconds (MVS50-52-65-52 DV), and then lower it, so as to prevent burning the Teflon tape.
PROGRAM: P02 Time: 0.2 sec Vacuum limit: 100.0% Vacuum: Residual: Extra-vacuum: Gas ratio:	Press the button (▼) to switch to “Vacuum limit” function. Press the buttons (►) and (◀) to set the required vacuum limit (000.0 ÷ 100.0). The recommended vacuum value is 100.0.
PROGRAM: P02 Time: 0.2 sec Vacuum limit: 100.0% Vacuum: 000.0% Residual: Extra-vacuum: Gas ratio:	Press the button (▼) to switch to the “Vacuum” function. By pressing the buttons (►) and (◀) the vacuum setting can be displayed. This is achieved in 2 ways: <ul style="list-style-type: none"> 000.0%: displays the percentage of vacuum achieved inside the tank (100% corresponds to max vacuum achieved). 1000mbar: displays the pressure inside the tank (0mbar corresponds to the max vacuum achieved).
PROGRAM: P02 Time: 0.2 sec Vacuum limit: 100.0% Vacuum: 000.0% Residual: 100.0% Extra-vacuum: Gas ratio:	The value of the “Residual” function cannot be modified. Displays the difference between set vacuum limit and the current limit during the packaging phase.
PROGRAM: P02 Time: 0.2 sec Vacuum limit: 100.0% Vacuum: X=45 000.0% Residual: 100.0% Extra-vacuum: 45 sec Gas ratio:	Press the button (▼) to switch to the “Extra-vacuum” function. Press the buttons (►) and (◀) to set the “Extra-vacuum” time (0 ÷ 45 seconds) only with “Vacuum limit” of 100.0. This is the time the pump continues to extract air from inside the bell after the machine has achieved the set vacuum level. The letter X followed by the extravacuum time in seconds is displayed next to “Vacuum”. This function is useful for porous products in which air extraction is particularly difficult (e.g.: meat).
PROGRAM: P02 Time: 0.2 sec Vacuum limit: 100.0% Vacuum: 000.0% Residual: 100.0% Extra-vacuum: 00 sec Gas ratio: 000.0%	Press the button (▼) to switch to “Gas rate” function. A value can be set from 0 to 40%. This value represents the percentage of gas inside the pack. After the gas introduction phase, a residual vacuum can remain of min 60%. Note: the gas value can be increased by means of a password (contact the supplier). This change is only possible by applying an external compressor. If the gas LED (2) flashes this means the gas tank is not correctly connected or the pressure is too low and the machine fails to start. Restore the correct connection. Now press the (▼) to access the next page.

6.1.3.2. Main display page (page two)

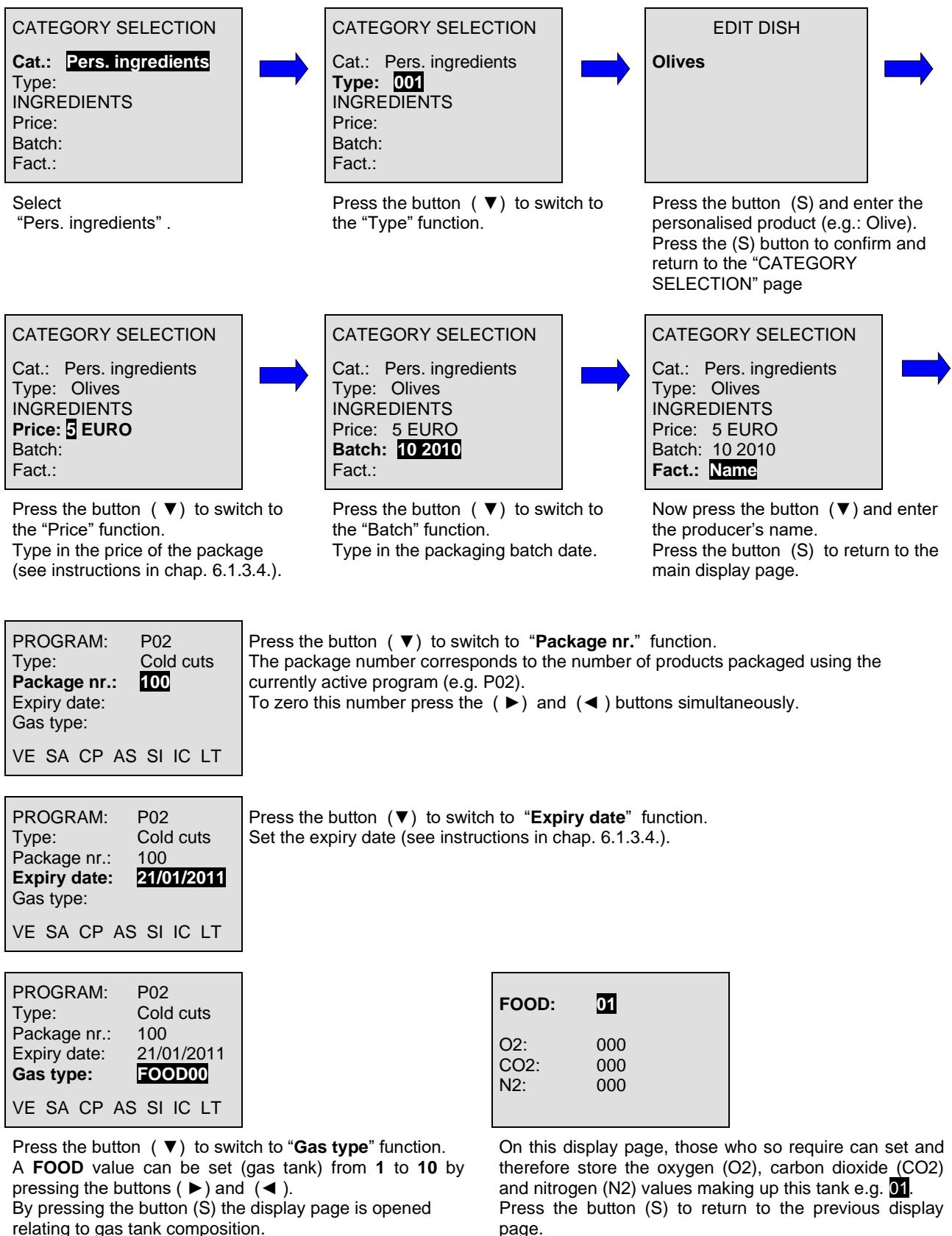
N.B.: it is also possible to access the second page from the first page, or vice versa, by pressing the button (S).



Note 01: for the list of the categories and types of products that can be chosen, see the following chart.

Category	Type
Vegetables	Lettuce, Tomatoes, Broccoli
Fruits	Apples, Apricots, Blueberries, Pears, Peaches, Strawberries
Fish	Fish, Smoked fish, Cod, Herring, Salmon, Trout, Shrimps, Sea fruits
Dairy product	Cheese, Grated cheese, Ricotta cheese, Yoghurt, Cream, Powdered milk
Red meat	Beef, Pork, Veal, Lamb, Minced meat
Poultry	Chicken, Cooked chicken, Turkey, Duck
Cold cuts	Sliced cooked ham, Parma ham, Salami, Mortadella, Frankfurters, Sausage
Baked products	Bread, Pizza, Croissant
Delicatessen	Lasagna, Ravioli, Sandwiches, Fresh pasta
Dried food	Coffee, Hazelnuts, Potato chips
Pers. ingredients	Pers. ingredients

In addition to the products already present in the list, it is possible enter a further 20 personalised products. The procedure indicated below explains how to do this.



PROGRAM:	P02
Type:	Cold cuts
Package nr.:	100
Expiry date:	21/01/2011
Gas type:	FOOD00
VE	SA CP AS SI IC LT
X	

Press the button (▼) to switch to "Advanced functions".
 VE: Outside vacuum
 SA: Soft Air
 CP: Condition Program
 AS: Auto Seal Program
 SI: Sealing
 IC: Infusion cycle
 LT: Liquid time

Now press the buttons (▼) and (▲) to select the function.
 Press the button (►) to activate the function (X appears) and (◀) to deactivate it.

VE "Outside vacuum"

This function allows obtaining the vacuum in special containers with a pipe directly to the packaging tank. The function does not include the pack sealing phase.

Can be ran only on models equipped with a tank set for this type of packaging.

PROGRAM:	P02
Time:	0.2 sec
Vacuum limit:	100.0%
Vacuum:	000.0%
Residual:	100.0%
Extra-vacuum:	00 sec
Gas ratio:	000.0%

If activated press the button (S), followed by the (▼) button in order to select **START** and start the cycle by pressing the button (S).

START

SA "Soft Air"

This function allows regulating the speed of air return into the tank, preventing uncontrolled movements of the packs (1 = minimum speed; 4 = top speed).

If enabled press the button (S) and select required speed. Press the Stop button (5) to confirm.

Note: If the function is active, but the lid fails to open at the end of the cycle, switch the machine off then on again, or wait 50 seconds until the lid reopens. Check that the Soft Air valve has been installed correctly.

CP "Condition Program"

After a period of inactivity of the machine (at least 15 days) or after packaging products containing liquid products, it may be necessary to eliminate liquid emulsion from the hydraulic fluid of the pump.

The problem that could arise concerns too much remaining air, or an interruption of the vacuum cycle due to having exceeded the suctioning time.

If enabled press the button (S) to start an operating cycle lasting 4 minutes.

AS "Auto Seal Program"

The function envisages a packaging cycle with a fixed time irrespective of the vacuum level that has been reached, defined beforehand. The basic time of the complete cycle is 25 seconds. The default increment is 4 seconds, however it is possible to set up an increment time of between 0 to 8 seconds (corresponding to a base time of 25 + an increment of 8 = 33 seconds).

This function is suitable for packaging products with excessive humid part.

By selecting this function, the operation of the machine remains basic. The only parameter that can be changed is the ON time.

SI "Sealing"

The function envisages a packaging cycle with 60% max vacuum percentage. By selecting this function, machine operation remains basic. The only parameter that can be changed is the sealing time.

IC "Infusion cycle"

This function can be used to carry out packaging procedures with delay that can be varied from 0.5 to 10 minutes between the vacuum and sealing phases (ideal for marinated food products). After the delay, the cycle restarts, restoring the set vacuum level if necessary.

Press the (S) button and set up the delay time using the (►) and (◀) buttons. Press the (S) button to confirm and return to the previous page.

LT "Liquid time"

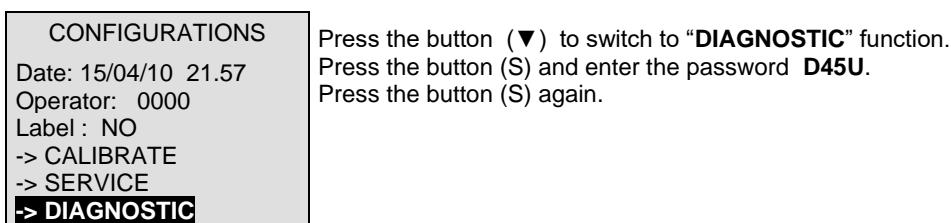
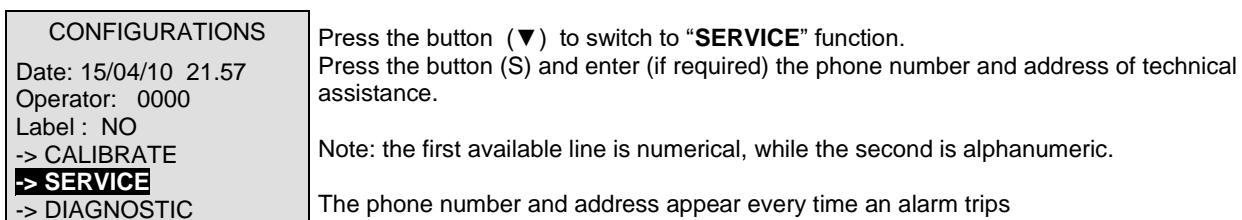
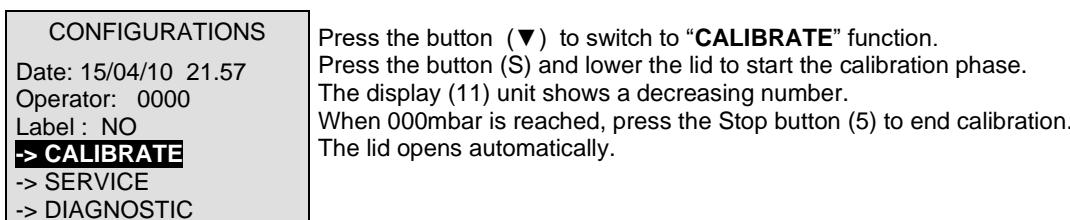
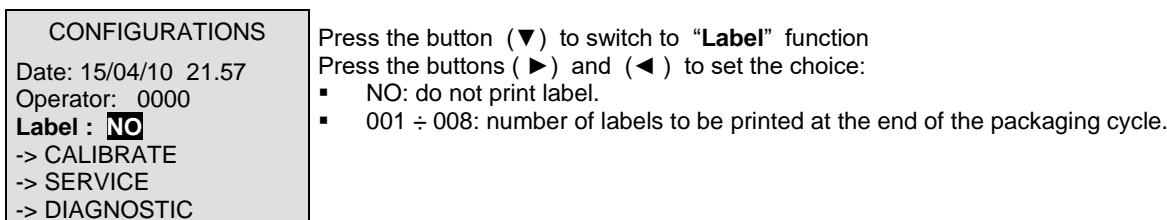
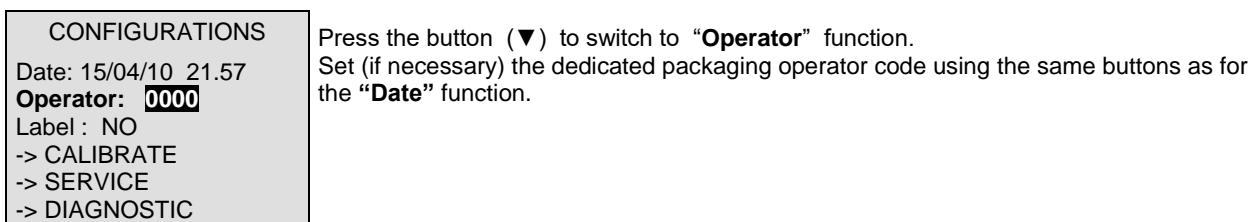
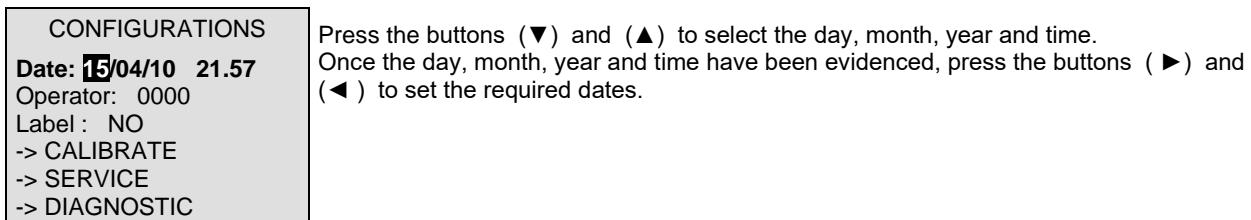
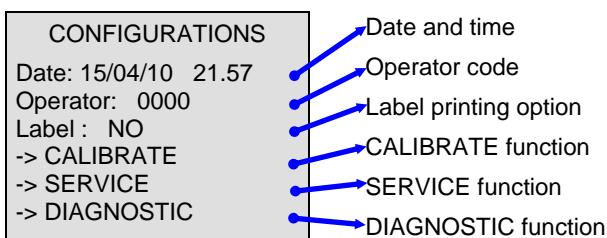
This function can be used to package pouches automatically with liquid products.

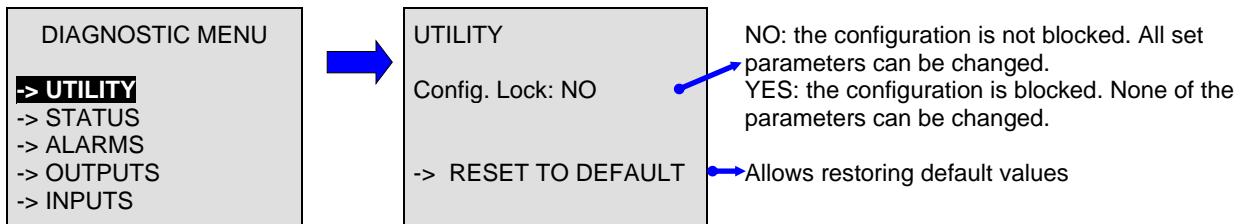
Press the (S) button and set up the function using the (►) and (◀) buttons, selecting the desired level from 1 to 10 (1 for cold products; 10 for hot products). Press the (S) button to confirm and return to the previous page.

The packaging cycle may also be interrupted by pressing the Stop (5) button.

6.1.3.3. CONFIGURATIONS display page

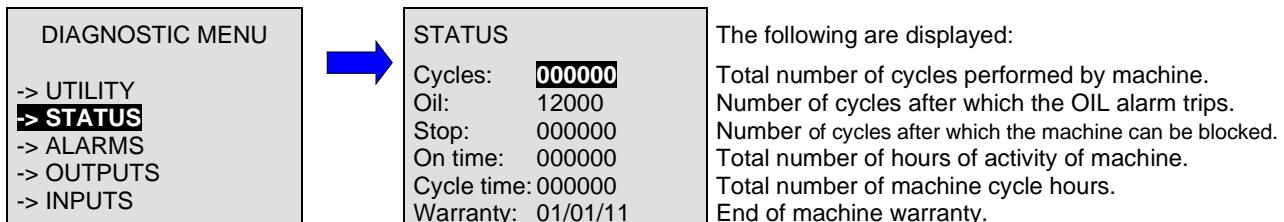
To display the CONFIGURATIONS page press the Stop button (5) and the selection buttons (▼) and (▲) at the same time for 5 seconds.





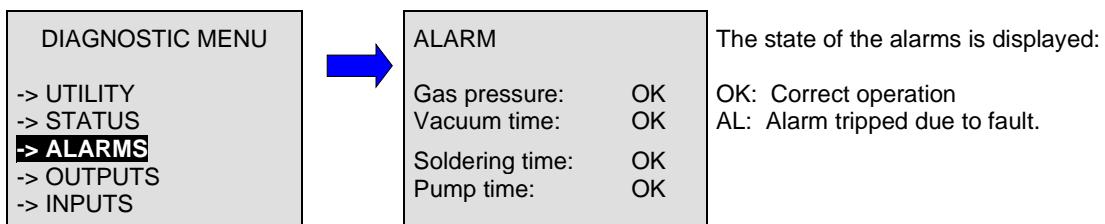
Press the button (S).

Once the parameters have been changed press the stop button (5) to return to the DIAGNOSTIC MENU.



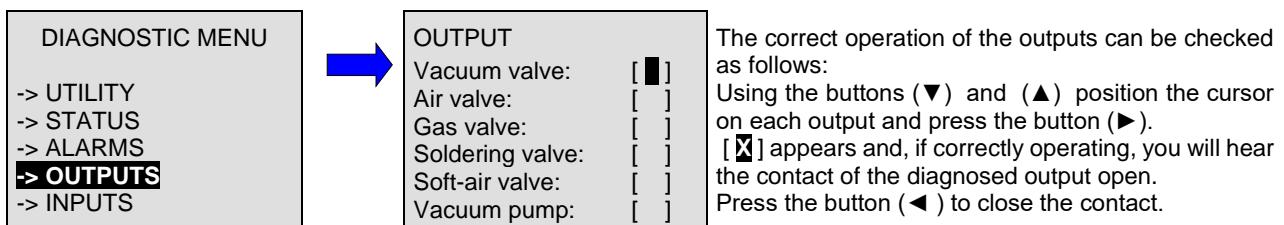
Press the button (▼) to switch to STATUS function.
Now press the button (S).

Press the stop button (5) to return to the DIAGNOSTIC MENU.



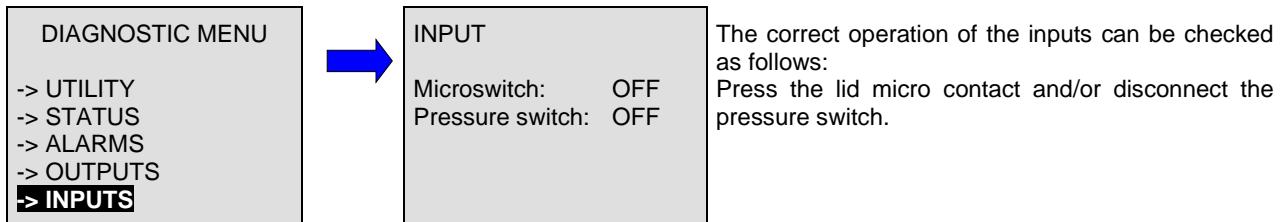
Press the button (▼) to switch to ALARMS function.
Now press the button (S).

Press the stop button (5) to return to the DIAGNOSTIC MENU.



Press the button (▼) to switch to OUTPUT function.
Now press the button (S).

Press the stop button (5) to return to the DIAGNOSTIC MENU.



Press the button (▼) to switch to INPUTS function.
Now press the button (S).

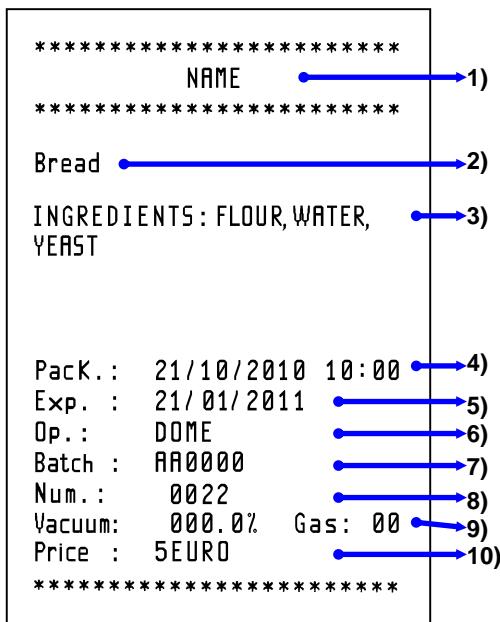
6.1.3.4. How to enter and modify text

- In order to enter and/or modify text in any field on the display (11), use the (▼) and (▲) buttons to select the position of the character to be entered. Once the position has been highlighted, press the (►) and (◀) buttons to select the desired character.
- To cancel a line of text completely, position the cursor over any character in the text to be deleted and press the (►) and (◀) buttons simultaneously.

6.1.3.5. Setting up label data

If you set up a value between 001 and 008 in the “Label” function in **CONFIGURATIONS** (see instructions in chap. 6.1.3.3.), at the end of each cycle the printer will print the number of labels that corresponds to this value.

The label can be customised by entering various data as explained below. Some of these data may be displayed or hidden, depending on the settings.



- 1) Manufacturer's name set up in the function on the “CATEGORY SELECTION” page.
To avoid displaying the name, leave this field empty.
- 2) Packaged product set up in the “Type” function on the “CATEGORY SELECTION” page.
To avoid displaying the product type, select the “Per. Ingredients” on the “CATEGORY SELECTION” page and leave the “Type” field empty.
- 3) Ingredients of the packaged product (or any other text) set up in the “INGREDIENTS” function on the “CATEGORY SELECTION” page.
To avoid displaying the ingredients, leave this field empty.
- 4) Packaging date and time set up in the “Date” function on the “CONFIGURATIONS” page.
- 5) Product expiry date set up in the “Expiry date” function on the second page of the main page.
- 6) Name or code of the operator who carried out the packaging cycle set up in the “Operator” function on the “CONFIGURATIONS” page.
- 7) Packaging batch of the packaged product set up in the “Batch” function on the “CONFIGURATIONS” page.
- 8) Number of packages produced using the selected program (e.g.. P01).
- 9) Percentage of vacuum and gas set up in the “Vacuum limit” and “Gas ratio” function on the first page of the main page.
- 10) Package price set up in the “Price” function on the “CATEGORY SELECTION” page
To avoid displaying the price, leave this field empty.

6.2. Packaging

After selecting the program and setting the necessary variables, go ahead with packaging.

Place the product to be packaged inside the pouch.

Place the pouch inside the tank and on the sealing bar in a way as linear as possible.

Try to prevent the pouch from wrinkling. Wrinkles might negatively affect the hermetic seal formed by sealing. Pouches shall be at least 2cm beyond the sealing.

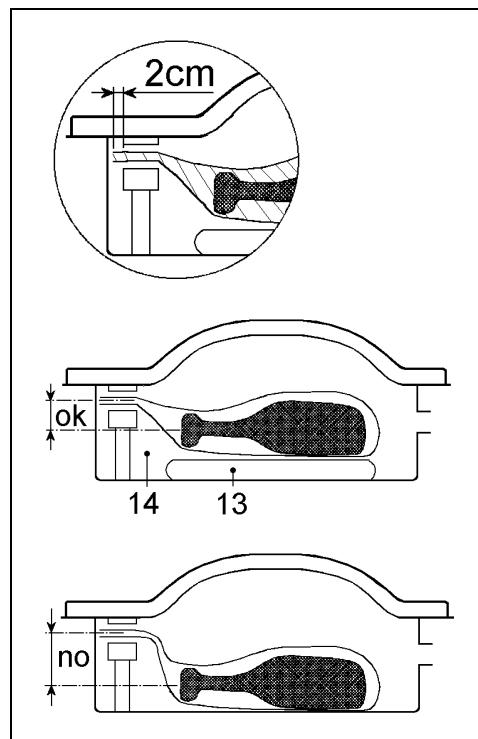
If the "GAS" function is on, the pouch must be positioned with the strip open on the gas nozzle on one side of the sealing bar.

Close the upper Plexiglas cover.

The packaging cycle starts when the cover is closed.

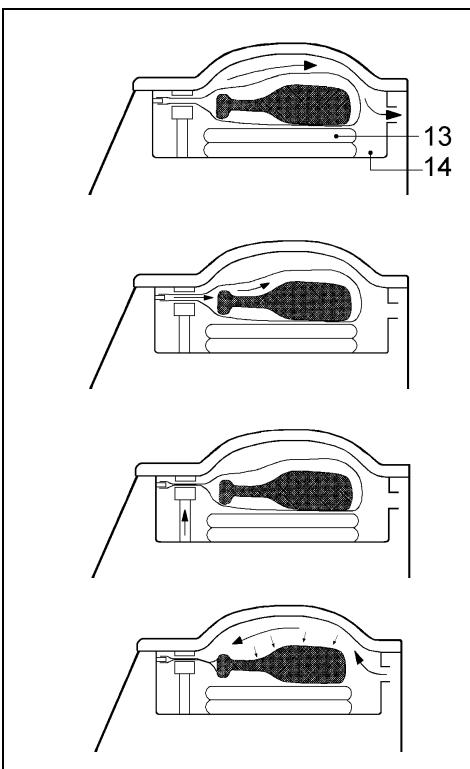
Note: When the product dimensions allow, we recommend using some tables (13) as shimming the product facilitates positioning the pouch in relation to the sealing bar.

Moreover, it allows decreasing the volume of the tank (14) and, therefore, the amount of air to be removed, speeding up the packaging cycle.



The packaging cycle is sub-divided into four phases:

1. Suction phase during which all the air contained inside the tank and the pouch is sucked.
The LED is on (1).



2. Gas injection phase (if the machine is equipped with a gas plant).
The LED is on (2).

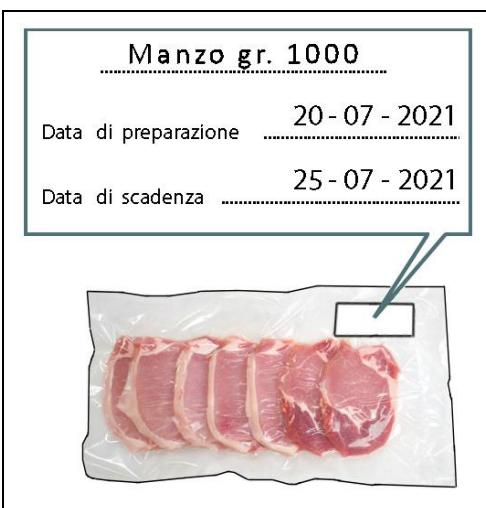
3. Sealing phase during which the packet is sealed.
The LED is on (3).

4. Air re-enter phase and subsequent opening of the cover.
The LED is on (4).
The tank will reach its atmospheric pressure and the upper cover will open again.
Machine is ready for a new packing cycle.

After packaging, keep the food cool or chilled (depending the packed food), marking the pouches or containers with a label indicating the contents, preparation date and expiry date.

The sous-vide system prolongs food storage times.

The sous-vide process must be carried out correctly in full compliance with timing and temperature guidelines.



If you press the Stop button (5), the machine will immediately stop sucking and automatically start sealing the pouch. This function will be used to pack liquid and hot products which may start boiling during the vacuum cycle.

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (11):

OIL	Check the level and colour of the oil, as described in the pump manual. To reset this alarm, press button (S).
STOP	The electronic board is blocked. Contact the technical service department.
PRESSURE	A fault has occurred in the gas introduction system. Make sure the gas tank is correctly connected to the machine. To reset this alarm, switch the machine off and on again.
VACUUM TIME	The machine did not generate the vacuum within the defined maximum time (90 seconds). Check that the cover is closed correctly. To reset this alarm, switch the machine off and on again.
SOLDERING TIME	The machine has exceeded max time provided for the sealing phase (4 seconds). To reset this alarm, switch the machine off and on again.

7.1. Precautions for ordinary maintenance interventions

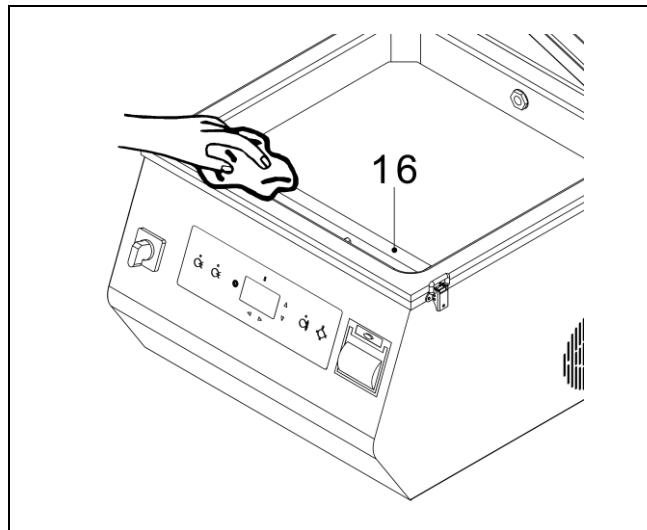
ORDINARY MAINTENANCE, MUST BE EXECUTED BY QUALIFIED STAFF APPROPRIATELY TRAINED.



Before any routine maintenance switch the machine off by acting on the main switch and remove the plug from the mains socket.
Disconnect gas plant (if installed).
Wait for the machine to cool down.

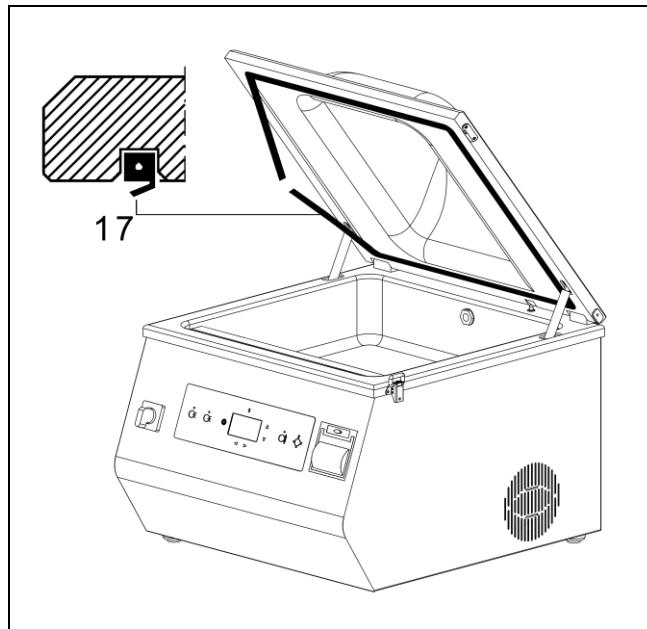
7.2. Cleaning of the sealing bar

Use a dry cloth to remove any film residue on the sealing bar (16).

**7.3. Replacement of the cover gasket**

When the cover gasket (17) is worn out, replace it.

This will improve the efficiency of the machine and increase its speed rate. Replacement is very easy. After having removed the gasket which has worn out, clean its seat and insert the new gasket in a linear way. Make sure its ends are joined. Leave no opening which might prevent the product from being properly vacuum-packed.



7.4. Cleaning machine



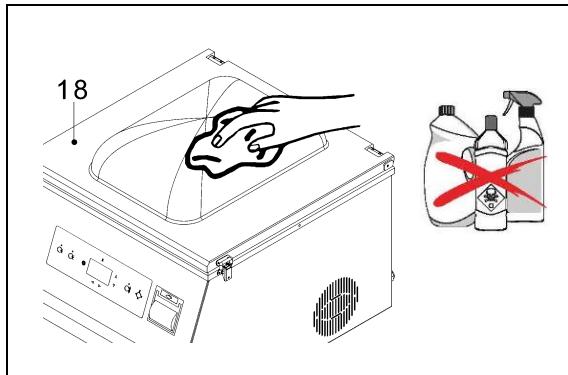
To clean the Plexiglas cover (18), clean both the outer and the inner side with water and soap only. Never use detergents or solvents which might damage the cover (18) and reduce its transparency as well as its resistance.

Check the state of the cover on a regular basis, it must be in good condition, completely clean, and must not display any yellowing or increase in opacity.

If any of the above defects are observed, replace the cover.



The Plexiglas cover must be replaced every 10 years!



Use normal detergents for stainless steel to clean the case and the internal tank.



Do not use chlorine-based detergents (hydrochloric acid, sodium hypochlorite, etc.), even if diluted.

Do not use abrasive agents, metal wool or any abrasive sponge to clean the surfaces.

Do not use detergents for silver.

Do not clean the machine using water jet or vapour.

7.5. Vacuum pump maintenance

It is very important to regularly service the pump to ensure extended and correct operation.

For any maintenance operation, eg level and oil quality check, oil and filter replacement, cleaning, etc., comply with the instructions indicated on the pump manual.

7.5.1. Condition Program

As already described at chapter 6.1.3.2., this program ensures a complete rinse of the pump, eliminating any liquid emulsion that could form in the oil.

It is also advisable to run the program before using the machine for the first time, after the machine has been stationary for a lengthy period of time, and especially prior to changing oil.

7.6. Problem solving

PROBLEM	CAUSE	SOLUTION
The pouch is not sealed correctly	<ul style="list-style-type: none"> The sealing time is not correct. The cover gasket is dirty or worn. The pouch is not placed correctly on the sealing bar. The sealing bar is worn (the Teflon coating is burnt). The blade placed under the Teflon of the sealing bar is broken. 	<ul style="list-style-type: none"> Change the sealing time. Clean or replace the cover gasket (contact the Technical Assistance Service for a replacement). Position the pouch correctly. Replace the sealing bar (contact the Technical Assistance Service for a replacement). Replace the blade (contact the Technical Assistance Service for a replacement).
Final vacuum is poor	<ul style="list-style-type: none"> The set vacuum percentage is incorrect. The cover gasket is dirty or worn. The cover is not closed correctly. 	<ul style="list-style-type: none"> Change the vacuum percentage. Clean or replace the cover gasket (contact the Technical Assistance Service for a replacement). Close the cover correctly. Make sure that objects or dirt are not found between the cover and tank.
The cover does not open	<ul style="list-style-type: none"> No power supply. 	<ul style="list-style-type: none"> Wait until the power supply is restored.

If the machine does not work properly after the above-mentioned checks, contact the assistance service describing the detected defect.

7.7. Disassembling, demolition and elimination of residuals



ATTENTION!

All operations about disassembling and demolition must be done by qualified personnel with mechanical and electrical expertise required to work in security conditions.

Proceed as follows:

- disconnect machine from power mains
- disconnect the machine from the gas system (if installed)
- disassemble components
- drain the oil from the pump.

All wastes must be treated, eliminated or recycled according to their classification and to the procedures in force established by the laws in force in the country the equipment has been installed.



The symbol indicates that this product shall **not** be treated as household waste.

By assuring that the product will be properly disposed of, you will facilitate the prevention of potential negative effects for the environment and the man's health, which might be otherwise caused by the improper waste treatment of this product.

For more detailed information about the recycling of this product, please contact the product seller or, as an alternative, the after-sales service or the corresponding waste treatment service.

8.1. Guarantee conditions

The guarantee runs for 12 months and comes into force on the installation date of the machine. The guarantee covers free replacement or repair of any parts due to defects arising from faulty material. The repairs or replacement are usually carried out at the manufacturer's premises, with transport or labour charged to the buyer. If the repair or replacement is carried out at the buyer's premises, he shall bear the travelling, transfer and labour costs. Work under guarantee can be carried out exclusively by the manufacturer or by the authorised dealer. In order to be entitled to repairs under the guarantee, the faulty part must be sent for repair or replacement to the manufacturer or his authorised dealer. The return of such repaired or replaced part will be considered fulfilment of the guarantee.

The guarantee is voided:

- In case of inappropriate installation, power supply, misuse and mishandling by unauthorised persons
- In case of changes made to the machine without prior agreement in writing from the manufacturer
- If the machine is no longer the property of the first buyer.

The manufacturer declines all liability for personal injury or damage in case of inappropriate installation or connection to the power mains or omission of connection to earth or in case of any mishandling of the machine. The manufacturer undertakes to carry out any variations and changes made necessary by technical and operating requirements.

**IN THE EVENT OF DISPUTES THE COURT OF BERGAMO (ITALY)
SHALL HAVE SOLE JURISDICTION.**

 minipack	IT	DICHIARAZIONE CE DI CONFORMITA'	EL	ΔΗΛΩΣΗ ΠΙΣΤΟΠΟΙΗΣΗΣ CE
	EN	CE DECLARATION OF CONFORMITY	CS	ES PROHLÁŠENÍ O SHODĚ
	DE	KONFORMITÄTSERKLÄRUNG	NL	CE GELIJKVORMIGHEIDSVERKLARING
	FR	DECLARATION CE DE CONFORMITÉ	FI	EY-VAATIMUSTENMUKAISUUSVAKUUTUS
	ES	DECLARACIÓN CE DE CONFORMIDAD	RU	ДЕКЛАРАЦИЯ СООТВЕСТВИЯ CE
	SV	ÖVERENSTÄMMELSEFÖRKLARING EC	한국어	적합성의 CE 선언
	PT	DECLARAÇÃO CE DE CONFORMIDADE		

IT	Noi:	SV	Vi:	FI	Me:
EN	We:	PT	Nós:	RU	Мы:
DE	Wir:	EL	Εμείς:	한국어 자사:	
FR	Nous:	CS	My:		
ES	Nosotros:	NL	Wij:		

MINIPACK-TORRE S.p.A.
Via Provinciale, 54 – 24044 Dalmine (BG) - Italy

IT	dichiariamo sotto la nostra esclusiva responsabilità che il prodotto
EN	declare under our responsibility that the product
DE	erklären unter unserer ausschließlichen Verantwortung, dass das in dieser Erklärung genannte Produkt
FR	déclarons sous notre exclusive responsabilité que le produit
ES	declaramos bajo nuestra exclusiva responsabilidad que el producto
SV	förklarar under eget ansvar, att produkten
PT	declaramos sob a nossa exclusiva responsabilidade que o produto
EL	δηλώνουμε υπεύθυνα ότι το προϊόν
CS	prohlašujeme výhradně na vlastní zodpovědnost, že produkt
NL	verklaaren op onze exclusieve verantwoordelijkheid dat het product
FI	vakutamme yksinomaisella vastuullamme, että tuote
RU	под нашу исключительную ответственность заявляем, что данное изделие
한국어	자사의 독점적인 책임 하에 다음을 선언합니다. 제품

IT	MACCHINA CONFEZIONATRICE TIPO:	SV	PACKNINGSMASKIN TYP:	FI	PAKKAUISKONE TYYPPI:
EN	PACKAGING MACHINE MODEL:	PT	MÁQUINA CONFECCIONADORA TIPO:	RU	УПАКОВОЧНАЯ МАШИНА ТИПА:
DE	VERPACKUNGSMASCHINE TYP:	EL	ΜΗΧΑΝΗ ΣΥΣΚΕΥΑΣΙΑΣ ΤΥΠΟΥ:		한국어 포장 기계 유형:
FR	MACHINE D'EMBALLAGE MODELE:	CS	BALICI SROJ MODEL:		
ES	MÁQUINA CONFECCIONADORA TIPO:	NL	VERPAKKINGSMACHINE TYPE:		

<input type="checkbox"/> MVS41 XP	/ _____	<input type="checkbox"/> MVS45 XP	/ _____
<input type="checkbox"/> MVS45L XP	/ _____	<input type="checkbox"/> MVS52 XP	/ _____
<input type="checkbox"/> MVS50 XP	/ _____	<input type="checkbox"/> MVS65 X	/ _____
<input type="checkbox"/> MVS52 DV XP		/ _____	

IT	è conforme ai requisiti essenziali di sicurezza e a tutte le disposizioni pertinenti delle direttive applicabili
EN	conforms to the essential safety requirements and all the provisions of the applicable directives
DE	entspricht den grundlegenden Sicherheitsanforderungen und allen betreffenden Bestimmungen der einschlägigen Richtlinien
FR	est conforme aux exigences essentielles de sécurité et à toutes les dispositions pertinentes des directives applicables
ES	cumple los requisitos fundamentales de seguridad y todas las normas pertinentes de las directivas aplicables
SV	uppfyller de väsentliga säkerhetskraven och relevanta bestämmelser i gällande direktiv
PT	é conforme os requisitos essenciais de segurança e a todas as disposições pertinentes das directrizes aplicáveis
EL	συμφωνώνται με τις βασικές απαραίτησεις ασφαλείας και όλες τις συναφείς διατάξεις των εφαρμόσιμων οδηγιών
CS	splňuje základní požadavky na bezpečnost a všechna příslušná ustanovení platných směrnic
NL	conform is met de essentiële veiligheidsvereisten en met alle pertinentie bepalingen van de richtlijnen die van toepassing zijn
FI	vastaa kaikkia olennaisia turvallisuutta koskevia vaatimuksia ja kaikkia sovellettavien direktiivien asiaakoskevia määräyksiä
RU	соответствует основным требованиям безопасности и всем соответствующим положениям в действующих директивах

2006/42/CE, 2014/30/UE, 2014/35/UE

IT	E inoltre dichiariamo che sono state applicate le seguenti norme armonizzate
EN	And furthermore we declare that the following rules have been applied
DE	außerdem bestätigen wir, dass folgende harmonisierte Richtlinien angewendet wurden
FR	Nous déclarons également que les normes harmonisées suivantes ont été appliquées
ES	Además declararos que han sido aplicadas las siguientes normas armonizadas
SV	Dessutom förklarar vi, att följande harmoniseraade normer har använts
PT	E, além disso, declaramos que foram aplicadas as seguintes normas harmonizadas
EL	Επίσης δηλώνουμε ότι εφαρμόσθηκαν οι εξής ενωμένες προδιαγραφές
CS	A kromě toho prohlašujeme, že byly aplikovány následující harmonizované normy
NL	We verklaren bovenindien dat de volgende geharmoniseerde normen worden toegepast
FI	Tämäksi lisäksi vakuutamme, että olemme sovittaneet seuraavia yhdenmukaistettuja standardeja
RU	Также мы заявляем, что были применены следующие согласованные нормативы
한국어	또한 일치되는 다음 규범들이 적용되었음을 선언합니다

EN 12100:2010, EN 61000-6-3:2007, EN 61000-6-1:2007, EN 60204-1:2010

IT	Persona autorizzata a costituire il Fascicolo Tecnico: Responsabile Ufficio Tecnico
EN	Person authorized to draft the Technical File: Head of the Technical Dept
DE	Zur Erstellung des Technischen Merkhefts befugte Person: Verantwortlicher der Technischen Abteilung
FR	Personne autorisée à constituer le Fascicule Technique : Responsable Bureau Technique
ES	Persona autorizada a elaborar el Fascículo Técnico: Responsable del Departamento Técnico
SV	Person med behörighet att skapa den Tekniska Dokumentationen: Teknikst ansvarig
PT	Pessoa autorizada a compilar o Processo Técnico: Responsável pelo Gabinete Técnico
EL	Άτομο εξουσιοδοτημένο να καταρτίσει το Τεχνικό Τεύχος: Υπεύθυνος Τεχνικού Γραφείου
CS	Osoba autorizovaná k vystavení Technické dokumentace: Vedoucí technického oddělení
NL	Person bevoegd om het technisch dossier op te stellen: Verantwoordelijke technische dienst
FI	Teknisten asiakirjojen laatimiseen valtuuttettu henkilö: Teknisen toimiston vastuuhenkilö
RU	Лицо, уполномоченное для составления технического файла: начальник технического отдела
한국어	기술 파일을 제조하도록 공인된 인력: 공식 기술 책임자

Torre P.J. Fabio Emanuele

IT Consigliere Delegato
EN Managing Director
DE Geschäftsführer
FR Directeur Général
ES Consejero Delegado

SV Verkställande Direktör
PT Conselheiro Delegado
EL Ο Διευθύνων Σύμβουλος
CS Generální ředitel
NL Gedelegeerd bestuurder

FI Toimitusjohtaja
RU Управляющий директор
한국어 번역본

	<p>IT Queste istruzioni sono disponibili nelle lingue italiano, inglese, tedesco, francese, spagnolo, portoghese, olandese, svedese, finlandese, danese, greco, ceco, russo, cinese, coreano, giapponese. In caso necessitate di una lingua diversa da quelle che avete ricevuto a corredo con la macchina, verificate la disponibilità contattando la casa costruttrice.</p> <p>EN These instructions are available in Italian, English, German, French, Spanish, Portuguese, Dutch, Swedish, Finnish, Danish, Greek, Czech, Russian, Chinese, Korean, and Japanese. Should you require a different language to the one supplied with the machine, please contact the manufacturer for availability.</p> <p>DE Die vorliegende Anleitung ist in den Sprachen Italienisch, Englisch, Deutsch, Französisch, Spanisch, Portugiesisch, Niederländisch, Schwedisch, Finnisch, Dänisch, Griechisch, Tschechisch, Russisch, Chinesisch, Koreanisch und Japanisch erhältlich. Sollte die Anleitung in einer anderen Sprache als jener, die mit der Maschine mitgeliefert wurde, benötigt werden, bitte beim Hersteller anfragen, ob sie verfügbar ist.</p> <p>FR Ces instructions sont disponibles en italien, anglais, allemand, français, espagnol, portugais, néerlandais, suédois, finlandais, danois, grec, tchèque, russe, chinois, coréen, japonais. S'il faut une langue différente de celles reçue avec la machine, en vérifier la disponibilité en contactant le Fabricant.</p> <p>ES Estas instrucciones están disponibles en italiano, inglés, alemán, francés, español, portugués, holandés, sueco, finlandés, danés, griego, checo, ruso, chino, coreano, japonés. Si necesita un idioma diferente del que ha recibido con la máquina, compruebe la disponibilidad poniéndose en contacto con el fabricante.</p> <p>SV Dessa instruktioner finns på italienska, engelska, tyska, franska, spanska, portugisiska, holländska, svenska, finska, danska, grekiska, tjeckiska, ryska, kinesiska, koreanska och japanska. Om du behöver ett annat språk än de som tillhandahålls med maskinen, kontrollera tillgängligheten genom att kontakta tillverkaren.</p> <p>PT Estas instruções estão disponíveis nas línguas italiana, inglesa, alemã, francesa, espanhola, português, holandesa, sueca, finlandesa, dinamarquesa, grega, checa, russa, chinesa, coreana e japonesa. Se for necessário escolher um idioma diferente daquele recebido com a máquina, controlar a disponibilidade contactando o fabricante.</p> <p>RU Эти инструкции также доступны на итальянском, английском, немецком, французском, испанском, португальском, голландском, шведском, финском, датском, греческом, чешском, русском, китайском, корейском и японском языках. При возникновении необходимости в другом языке, от полученных в комплекте с машиной, проверить наличие, обращаясь в компанию-изготовитель.</p>
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