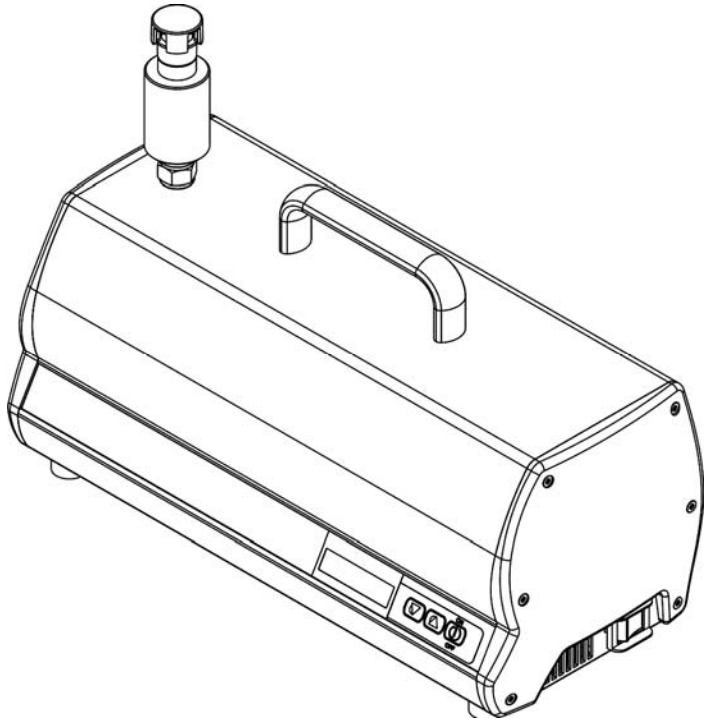
RIVENDITORE AUTORIZZATO

Ver. 03 11.2016

4 mc
8 mc

English

VACUUM PACKAGING MACHINE



USE AND MAINTENANCE MANUAL

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English

1 Delivery and warranty

1.1 - Foreword

ATTENTION!

The symbols used in this manual intend to call the reader's attention to points and operations that put the operator's personal safety at risk or which can cause damage to the machine itself.
Do not operate with the machine if you are not certain to have correctly understood that highlighted in these notes.

ATTENTION!

Some illustrations in this manual represent the machine or parts of the same with panels or guards removed. This is in order to make things clearer.
Do not use the machine in these conditions, but only with all protections mounted correctly and in perfect working order.

The Manufacturer prohibits reproduction, even partial, of this manual and its content cannot be used for purposes not permitted by the same.
Any breach thereof will be dealt with under the provisions of said Law.

1.2 - Preservation and use of the manual

The purpose of this manual is to make the users of the machine aware of the prescriptions and essential criteria relative to transport, handling, use and maintenance of the machine itself, via texts and figures.
Therefore, this manual must be read thoroughly before the machine is used.
Keep it in a safe place near to the machine, which is easy and quick to access for future consultation.
If the manual is lost or deteriorated, request a copy from your dealer or the Manufacturer directly.
If the machine is transferred, inform the Manufacturer of the name and address of the new owner.
This manual reflects the state of the art at the time of marketing and cannot be considered inadequate merely because it is updated successively on the basis of new developments. The manufacturer also reserves the right to update production and relative manuals without the obligation to updating earlier issues, except in exceptional cases.
If in doubt, consult the nearest after-sales centre or the Manufacturer directly.
The manufacturer is intent on continuous optimisation of its product.
For this reason it is pleased to receive any signals or proposals for improvement of the machine and/or manual.
The machine has been delivered to the user with valid warranty conditions at the time of purchase.
Contact your own supplier for all clarifications.

6 Obligations in the event of malfunctioning and/or potential dangers

The operators must inform their direct seniors of any deficiency and/or potential dangerous situation that should occur.

6.1 - User obligations

The user must inform the manufacturer immediately if any defects and/or malfunctioning of the accident-prevention system are detected, as well as any presumed dangerous situation of which he becomes aware.
It is prohibited for the user and/or third parties (excluding duly authorised manufacturer's staff) to make any type or entity of modifications to the machine and its functions, as well as to this technical document. In the event of malfunctioning and/or dangers, owing to failure to respect the afore-said, the manufacturer is not liable for any consequences. We recommend you request any modifications from the Manufacturer.

7 Troubleshooting

7.1 - Troubleshooting

1 After having connected the master switch, the machine does not start:
a) Check that the plug is well inserted into the socket and, if necessary, control the contacts inside the plug itself.
2 The machine does not draw air correctly
a) Check that the air filter is not clogged; if it is, replace the cartridge.

7.2 WEEE Waste Electric and Electronic Equipment

INFORMATION FOR USERS



In compliance with art.13 of the Legislative Decree n. 151 dated 25 July 2005, "Implementation of the 2002/95/CE,2002/96/CE and 2003/108/CE Directives, relative to the reduction of the use of dangerous substances in electric and electronic appliances, as well as the disposal of waste"

The barred wheeley-bin symbol on the appliance or the package indicates that at the end of the products useful life span, it must be collected separately from other waste.

The recycling of this product at the end of its service life, is arranged for and carried out by the manufacturer. The user who wishes to dispose of this product must therefore contact the manufacturer and adhere to the system that he has adopted for the correct disposal of this product at the end of its service life

The correct disposal of the old product for the processes of recycling, treatment and compatible waste disposal will help prevent potential negative consequences for the environment and human health, and will result in the reuse and recycling of the materials and components which make up the appliance.

Abusive disposal of the appliance leads to the application of administrative sanctions envisioned by the Standards in force.

5.2.1 - Vacuum pump

For the safeguarding and the duration of the vacuum pump, follow the indications given below scrupulously:

- Do not suck up steam, liquids and flours of any type.
  This compromises the viscosity of the pump oil and damages the pump itself.
- Periodically check the pump oil level through the visual inspection window
  A level below minimum can damage the pump
  A level above maximum can damage the pump filter and the pump itself
- Periodically check the colour of the pump oil. If the oil appears cloudy, dark or emulsioned, it must be replaced immediately.
- Replace the pump oil every 2 / 4 / 6 or 12 months, depending on use and location of the equipment, or appearing the notice "***change oil***" on the display.
  The pump oil may have to be replaced every month.
- **Replace the pump oil before prolonged machine shutdown.**

ATTENTION!!:
Considering that the vacuum packaging machine is nearly always located in the kitchen, an environment full of steam and humidity, the level and quality of the pump oil must be checked constantly and replaced frequently and periodically.

Types oil	
AGIP ARNICA 32	Q8 HAENDEL 32
SHELL TELLUST 32	ESSO INVAROL EP46

5.2.2 - Replacing the filter

For the vacuum to be executed correctly, periodically check that the visible filter (Ref. 1 Fig. 5.2.1) is not full and/or clogged; if it is, replace it in the following manner:

- remove the cap of the suction channel (Ref. 2 Fig. 5.2.1);
- unscrew the suction channel (Ref. 2 Fig. 5.2.1);
- unscrew the filter (Ref. 1 Fig. 5.2.1) and replace it with a new one having the same characteristics;
- screw the suction channel back on (Ref. 2 Fig. 5.2.1).

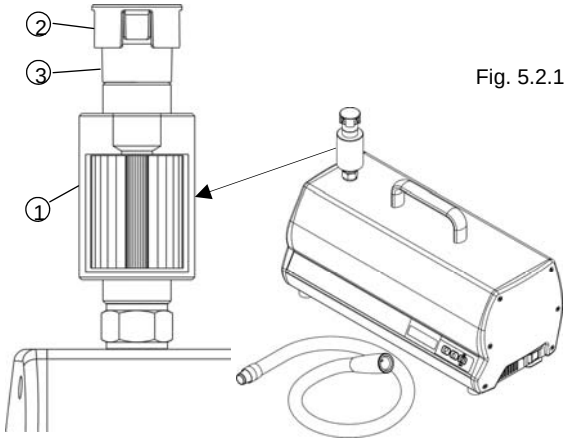


Fig. 5.2.1

1.3 - Warranty

The Manufacturer is committed for 12 (twelve) months, from the date of shipping and direct delivery of the goods, to guaranteeing the customer or authorised dealer the integrity and good operation of the components relative to the machinery in question.
The warranty excludes all parts of the machinery subject to normal wear, i.e components in which use generates unstoppable constant wear:

A. Electric resistances – Teflon - Sealing membrane– Air filters – Oil filters – Oil change – Pump vanes.
B. Whenever a vacuum pump relative to a machine under warranty is returned to the Manufacturer due to problems regarding suction and malfunctioning, the Manufacturer reserves the right to control whether foreign bodies have been sucked up: (liquids, solids, juices, sauces etc.). If this situation is verified, the repair materials and labour will be charged regularly, as the problem is not linked to manufacturing defects but Customer negligence during use.
C. Any problems linked to the electronic circuit boards of the circuit must be examined by the Manufacturer before the piece to be replaced is sent under warranty. A voltage change, electric over-feeding, interference in the external mains, could cause damage that is not the manufacturer's fault or which can be blamed on the manufacture of the piece.
D. Any problems linked to pneumatic, structural, mechanical parts, will be solved normally under warranty without charge.
E. During the warranty period, for interventions covered by the same, there will be no charge for the materials replaced, while labour costs will be calculated. For any interventions performed during the warranty period that are not covered by the warranty itself, the materials replaced and the labour will be charged regularly.
F. If external interventions by our technicians are requested during the warranty period, travel expenses (return) will be charged in full, independent of the cause of the intervention.

1.4 - General recommendations and limits of liability of the Manufacturer

Every operator-machine interaction, within the declared use ambit and the entire life cycle of the same, has been carefully and thoroughly analysed by the Manufacturer during the design and construction phases and when drawing up the instruction manual. In spite of this, it is intended that nothing can replace the experience, suitable training and especially the "good common sense" of those interacting with the machine. The last requisites are therefore deemed indispensible in every operational phase inherent the machine and when reading this manual.
Failure to comply with the precautions or specific recommendations present in this manual, use of the machine by unsuitable staff, violate all Safety Standards concerning the design, manufacture and declared use of the supply and relieve the Manufacturer from all liability in the event of damage/injury to objects/persons.

The Manufacturer is not deemed liable for the consequences caused by the user's failure to comply with the safety precautions given in this manual.

1.5 - Description of the machine

The vacuum packaging machine with dome is controlled electrically and therefore not subject to wear.
The vacuum pumps used are very modern and guarantee surprising silence even though operating with uninterrupted cycles along with a very high level of final vacuum.

The models represented in this manual have been created in compliance with the **2006/42 EEC Directive** and successive amendments.
In the event of an accident, the manufacturer cannot be held responsible if the machine has been modified, tampered with, the safety protections have been removed or used in ways not declared by the manufacturer.

1.6 - Declared use

The machine has been designed and manufactured to vacuum pack products according to the instructions in this manual and must be intended for this use only.
Any other use must be considered improper and therefore dangerous. The Manufacturer cannot be considered responsible for any damage deriving from improper, incorrect or unreasonable use.
It must be used in professional environments and any staff using the machine must have experience in the sector and have read and understood this manual.

1.7– Uses not allowed

1.7.1 - Safety prescriptions

The following points must be respected:
1 never touch the metal parts of the machine with wet or damp hands;
2 do not pull the power supply cable or the appliance itself, to disconnect the plug from the current;
3 do not allow the packaging machine to be used by children or untrained staff;.
4 the electric safety of this machine is only assured when the same is correctly connected to an efficient earth plant, as envisioned by the electric Safety Standards in force; this fundamental requirement must be verified. If in doubt, request an accurate control of the system by professionally qualified staff; the Manufacturer cannot be considered responsible for any damage caused by the failure to earth the system;
5 in the event of possible damage to the earth protection, the machine must be put out of service, in order to prevent undesired and/or involuntary activation;
6 always use protection fuses that are in compliance with the Safety Standards in force, with the correct value and suitable mechanical features;
7 avoid the use of repaired fuses and the creation of short circuits between the terminals on the fuse holders;
8 the packaging machine power supply cable must never be replaced by the user; contact the machine manufacturer exclusively in the event of damage to the cable, or for its replacement;

4.5 - Cleaning the machine

ATTENTION!
Disconnect the machine from the mains electricity before cleaning.
Do not clean the machine using a jet of water.
Use non-toxic detergents only, expressly intended for clearing components coming into contact with foodstuffs. **DO NOT** use chlorine-based detergents.
It is recommended to avoid:
- the use of products containing: denatured ethyl alcohol, solvents in general, Benzene, Trichloroethylene
- the use of abrasive materials and contact with sharp objects

4.4 - Vacuum pump heating

During the winter period, in the morning it is recommended to briefly pre-heat the pump in order to fluidify the oil before it goes into circulation:
- Position the master switch at ON.
- Close the suction cock
- Press the UP key 3 times

The machine will perform an oil heating cycle and the cycle will block automatically on reaching a temperature of 50 °C. If the operator wants to interrupt the cycle before it ends, he must press the switch-on key.
N.B. This operation must only be performed with the intake cock closed.

5 Controls and maintenance

5.1 - Controls and maintenance

Access to the internal part of the machine is reserved exclusively to our specialised technician.
If the machine is accessed voluntarily, the manufacturer declines all civil and penal liability regarding any accidents or damage caused to persons or objects.
All electric components are protected within the machine body and the relative guard must be removed in order to gain access. Whenever access must be made, remove the plug from the electric control board current socket

Before carrying out any check that leads to the removal of some items, the plug must be removed from the mains electricity.

5.2- Maintenance

1. Change the oil every 400 hours of working (data variable depending on the type of product packed).
   After 2000 cycles the machine envisions an automatic oil control, the display shows the "**oil change**" message. The user must call the dealer, who will check the efficiency of the oil and will replace it, if necessary.
2. Check pump vanes, filters, pneumatic solenoid valve seals every 35,000 work cycles.

4.2 - Packaging products in external pan (with vacuum time control)

When products stored in external trays must be packed, the use of the external suction kit is recommended in order to facilitate the operation.

1. Connect the machine to the power supply Network.
2. Turn the machine on via the switch (rif. 1 fig. 4.2.3.A) on the right side. "OFF _____" will appear on the display.
3. Remove the suction cap (Rif. 2 fig. 4.2.3.A).
4. Attach the suction kit pipe (rif. 3 fig. 4.2.3.A)
5. Attach the suction kit dome nut to the tray lid valve (rif. 5 fig. 4.2.3.B)
6. Pressing on the menu key rif 1 fig. 4.1.1 take the display cursor to position A.
7. Pressing the buttons rif 2 and 3 fig. 4.1.1 select the desired suction time
8. Press the key Rif. 1 fig. 4.1.1 to start the vacuum cycle.
9. When the suction time selected has expired, the machine stops automatically.

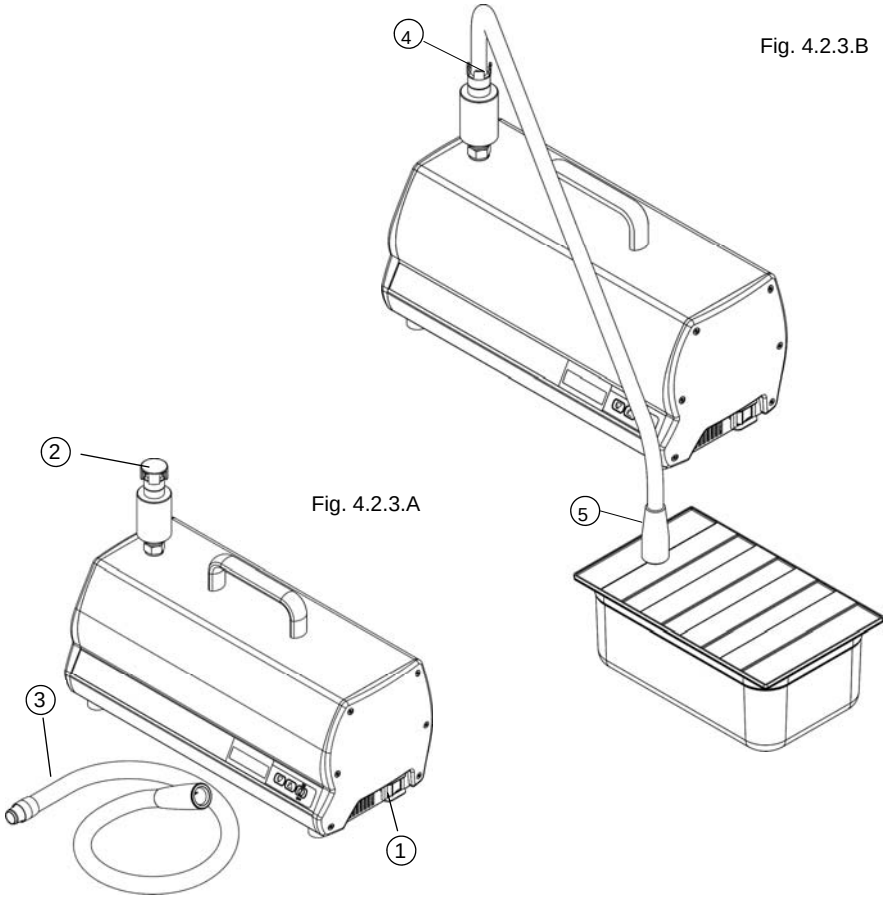


Fig. 4.2.3.B

Fig. 4.2.3.A

9 keep the cable away from hot parts;
10 always switch the machine off and disconnect it from the mains electricity before starting any global clearing procedure or washing operation;
11 clean the machine coverings, panels and commands using soft, dry cloths dampened in a weak solution of detergent or alcohol;

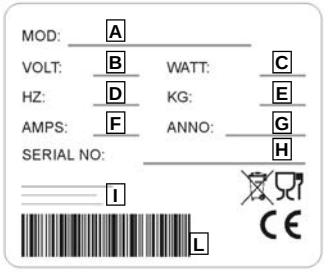
1.7.2 - Lighting

The place of installation of the machine must have sufficient natural and artificial lighting in compliance with the Standards in force in the country of installation of the packaging machine.
In all cases, the lighting must be uniform and guarantee good visibility in all parts of the packaging machine and must not create dangerous reflections.
The lighting must allow the control panels to be read correctly and clearly identify the emergency buttons.

1.8 - Company details

An exact description of the "Model", the "Serial number" and the "Year of Manufacture" of the machine will facilitate quick and effective response by our after-sales assistance. It is advised to indicate the model of the machine and the serial number every time the after-sales service is contacted.
Identify the plate data represented in fig. 1.8.1.
We suggest you write the data of your machine in the box below as a reminder.

Machine Model……..
Serial number……
Year of construction……..
Type……



A = Machine model
B = Power supply
C = Motor power
D = Motor frequency Hz
E = Weight
F = Amperage
G = Year of construction
H = Serial N°
I = Manufacturer
L = Bar code

Fig. 1.8.1

1.8.1 - Warning and danger plates (Fig. 1.8.2)

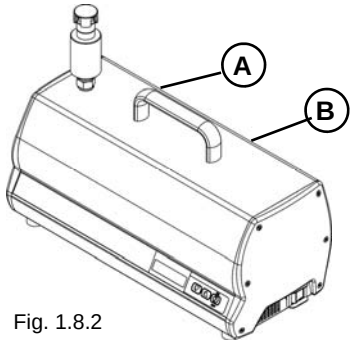
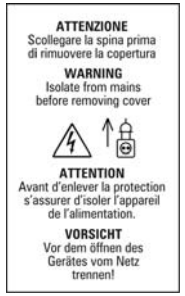


Fig. 1.8.2



A



B

2 Technical features

2.1 - Main parts

To facilitate comprehension of the manual, the main machine components are listed below and represented in fig. 2.1.1.

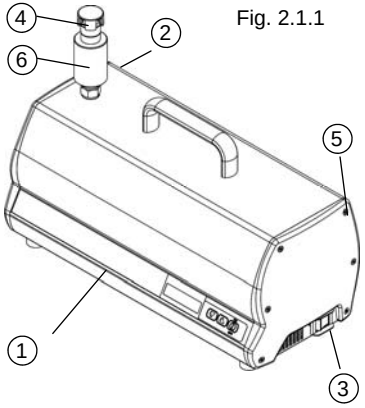


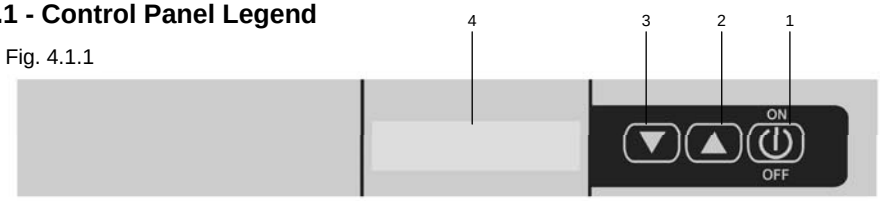
Fig. 2.1.1

1. Control panel
2. Power supply cable
3. Master switch
4. Suction pipe for vacuum
5. Lcking screws
6. Suction filter

4 Use of the machine

4.1 - Control Panel Legend

Fig. 4.1.1



1. ON-OFF
- Turning the machine on and off:
  briefly press the ON button with the lid open
  press the OFF button for 3 sec.
- Interruption of work phase:
  If pressed during the work phases, it stops the processing:
  in ON mode, use buttons 2 and 3 to increase or decrease the vacuum time values according to Table 4.1.2.
  Note: the software always saves the latest change.

2. Increase the Selected Values
- When in the OFF mode, if pressed for 3 times in a row, the pre-heating cycle or expulsion of water residues from the oil pump will be started
  To be performed after vacuum cycles with liquid products, or every 15 days.
  The duration of the cycle is 15 minutes and can be interrupted by pressing the 1 button
  NB This should be always performed with the suction cap closed (turn the cap to close the slots)

3. Decrease the Selected Values
- Press to decrease the values previously selected:

4. Analog Display
- It allows the working modalities to be viewed:
  OFF
  Set vacuum time
  pre-heating or expulsion of water residuals

BUSCH 4 mc			
	**h.100**	**h.150**	**h.200**
1/3 GN	5”	8”	-
1/2 GN	8”	12”	-
1/1 GN	17”	22”	27”

BUSCH 8 mc			
	**h.100**	**h.150**	**h.200**
1/3 GN	3”	5”	-
1/2 GN	4”	7”	-
1/1 GN	10”	13”	16”

Fig. 4.1.2

English

3.4 - Connections

Before start-up, check the oil level via the control window present on the pump.

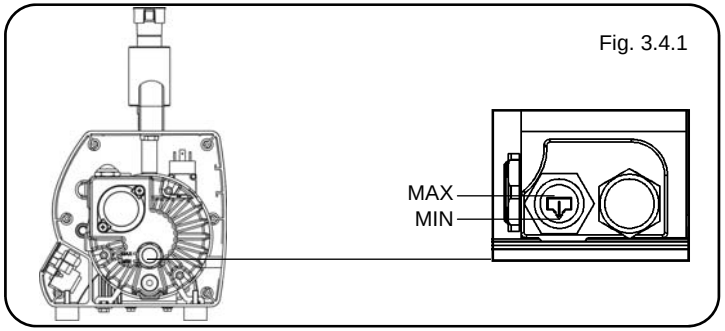


Fig. 3.4.1

Before connecting the packaging machine, make sure that the plate data correspond with that of the mains electricity.

The plate is on the rear of the machine. When the level has been checked and everything closed, connect the plug to the 230V socket.

In the event of incompatibility between the socket and plug, have the socket replaced with a suitable one by professionally qualified staff.

In particular, the latter must check that the section of the cables is suitable for the input power of the machine. In general, the use of adapters, multiple socket outlets and/or extensions is not recommended.

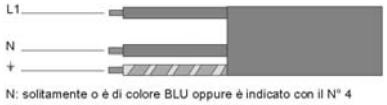
Whenever their use is indispensable, only simple or multiple adapters and extensions must be used that are in compliance with Safety Standards in force; however paying attention not to exceed the capacity limit in terms of current value, and the maximum power value marked on the multiple outlet.

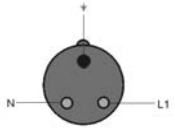
3.5 - *Electrical system hook-up*

ATTENTION! Make sure that its voltage matches the value displayed on the machine's rating Plate. **A**ll work on the electrical system of the machine must be carried out by specialized staff duly authorized for its performance by the manager in charge. Hook the machine to a power grid that has an efficient earthing connection.

3.5.1 - Single-phase machine

This machine version includes a power cable with a diameter of 3 x 1.5 mm. This power cable is pulgged into a tripolar single-phase socket. Hook the cable to a single-phase 230 Volt-50 Hz power grid, interposing a 16 ampere differential circuit breaker. For machine versions configured with a different voltage, contact the manufacturer for instructions. If there is need to extend the power cable, use a cable with the same diameter as the one installed by the manufacturer.





2.2 - Technical features

Vacuum pump	8 mc/h	4 mc/h
Power Kw	0,35	0,10
Power supply	230V/50Hz	230V/50Hz
Oil tank capacity	ml 250	ml 125

2.3 - Dimensions and weight of the machine

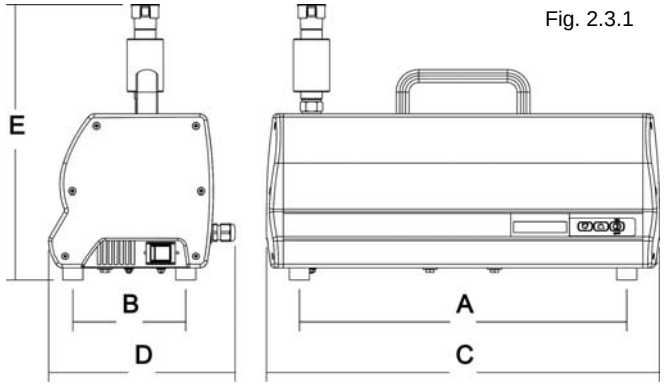


Fig. 2.3.1

A	B	C	D	E	Net weight
mm	*mm*	*mm*	*mm*	*mm*	*Kg*
406	140	488	232	343	16

English

2.4 - Wiring diagram

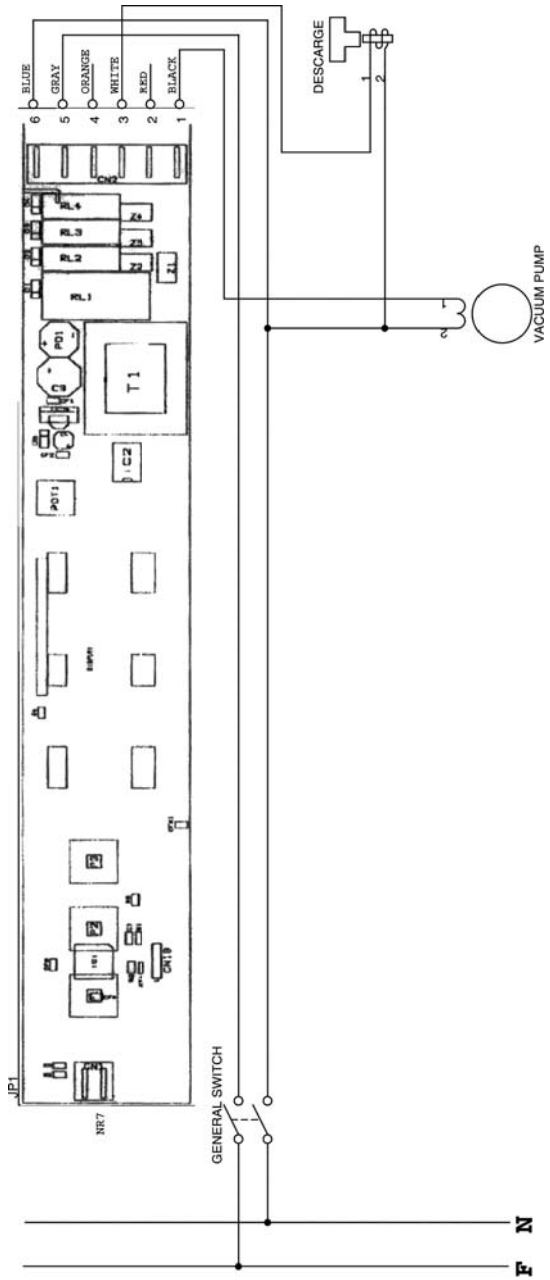


Fig. 2.4.1

3 Inspection, transport, delivery and installation

3.1 - Inspection

The machine you own has been inspected at our establishment in order to certify correct operation and adjustment.

3.2 - Delivery and handling the machine

All material delivered has been accurately controlled before consignment to the carrier.
Unless agreed differently with the Customer or for particularly onerous transport, the machine is wrapped in nylon and cardboard.
The packaging dimensions are given in fig. 3.2.1

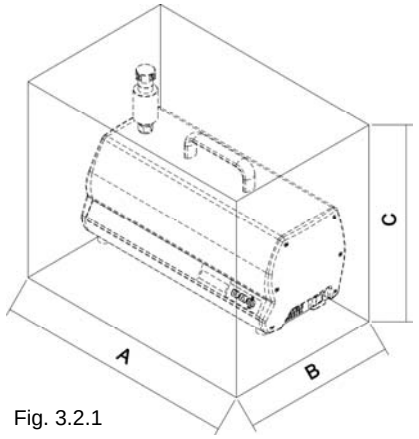


Fig. 3.2.1

A	B	C	Gross weight
mm	*mm*	*mm*	*Kg*
550	300	300	18

On receipt of the machine, check the integrity of the packaging.
If the packaging is damaged, sign the documents for receipt with the following note: "Accepted subject to checking..." and the reason.
Open the packaging, and in the presence of machine components that are really damaged, make a claim to the carrier within three days from the date indicated on the documents.

3.3 - Installation

After having removed the packaging, check the integrity of the machine.
In particular, check that the machine is integral and without visible damage, which could have been caused during transport.
If in doubt, do not use the machine and contact the Manufacturer.

Place

Position the packaging machine place with a low percentage of humidity and away from heat sources.

3.3.1 - Disposal of the packaging

The packaging materials such as cardboard, nylon and wood are products similar to solid urban waste. They can therefore be disposed of freely.
Nylon is a pollutant, which produces toxic fumes if burned.
Do not burn and disperse in the environment, but dispose according to the Laws in force.
If the machine is in a country where there are particular regulations, dispose of the packaging in compliance with that described by the Standards in force.