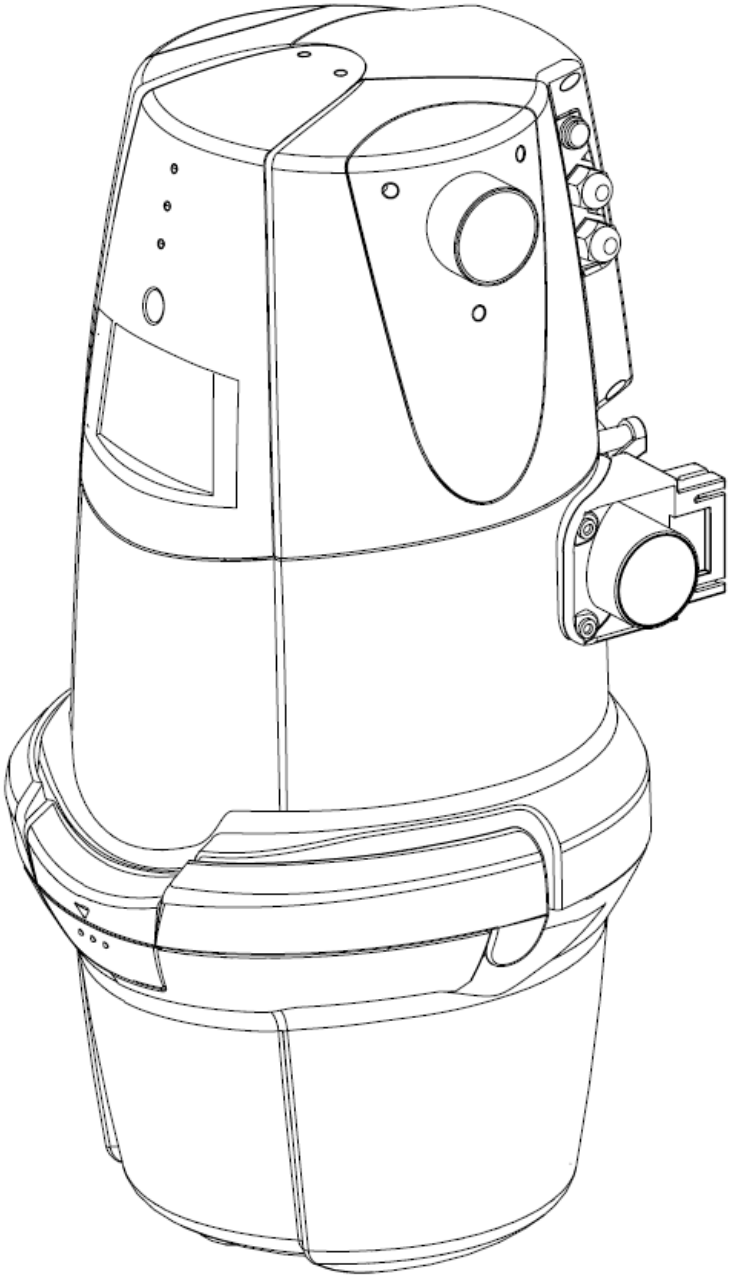
# Use and Maintenance Manual

## *Residential Vacuum Unit*

Rev. 22/01

GENERAL D'ASPIRAZIONE®

IMPIANTI ASPIRAPOLVERE CENTRALIZZATI



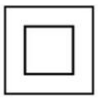
MADE IN ITALY

# 1. General Information

Read this manual carefully before starting operations of movement, unpacking, installation, use, maintenance and decommissioning of the Residential Vacuum Units.

## 1.1. Safety signals and danger

The following symbols are used in this manual and on the system to draw attention to procedures that persons interacting with the system must scrupulously respect to protect their own safety and to prevent damage to the system.

| | |
|---|---|
|  | **DANGER OF ELECTRICAL SHOCK** |
|  | **PROHIBITED FOR PERSONS NOT SUITABLY TRAINED TO USE SYSTEM** |
|  | **COMPULSORY TO WEAR PROTECTIVE MASK AGAINST INHALATION OF DUST AND HARMFUL SUBSTANCES** |
|  | **COMPULSORY TO WEAR PROTECTIVE GLOVES AGAINST DUST AND HARMFUL SUBSTANCES** |
|  | **COMPULSORY TO WEAR SAFETY FOOTWEAR** |
|  | **COMPULSORY TO WEAR PROTECTIVE GLOVES WHILE MOVING GOODS** |
|  | **SYMBOL INDICATING THE CLASS II PROTECTION OF ELECTRIC SHOCK** |

## 1.2. Recommendations for use

In case of fire do not use water for switching off. Failure to observe this instruction may expose the operator to the risk of electric shock.

- **Vacuum units are destined for use in residential buildings.** Their use during building work may cause serious deterioration that is not covered by the guarantee. **Do not suck up plaster, cement or rubble. These operations can be performed using the liquid cleaner accessory** (see accessories brochure).
- Do not use the machine for inappropriate purposes. Do not suck up glowing embers, cigarette ends still lit, inflammable products or materials that could cause flames in the dust collection container, materials with a high risk of explosions or

materials that individually are inert but that when mixed together may cause dangerous chemical reactions.

- It is prohibited to use vacuum units for unintended purposes in industrial facilities in the presence of values of temperatures, pressure and humidity in excess of those of normal workplaces.
- Do not suck up liquids, ashes in fireplaces, large quantities of flour, printer toner, building site dust, fine powder, cement or plaster.
- Unplug the unit from the 230V power supply wall socket in these cases:
  I. If the main vacuum unit receives an impact.
  II. If maintenance or repair operations are necessary, and always before any other kind of work.
  III. If the system is not to be used for a long period.
- Do not under any circumstances whatsoever work on the main unit while it is operating.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children with out supervision.
- Power cord type Y. The replacement of damaged cables must be performed by the manufacturer or an authorized service center
- Wear protective gloves and a facemask for all maintenance work (emptying of dust container, cleaning or replacement of filter).
- Use only original spare parts.
- Do not use the main vacuum unit without the filter.
- After all maintenance operations ensure that the filter has been replaced and correctly tightened.
- Do not obstruct air inlets or outlets.
- Do not allow parts of the body to be kept in contact with accessories of the main vacuum unit and never direct the suction mouthpiece toward persons or animals.
- The vacuum cleaner system and its accessories are not toys. Do not allow children to use them without adult supervision.
- Ask the installer carrying out the final system trial to certify that the system has been correctly installed according to the state of the art.

Ask the installer carrying out the final system trial to certify that the system has been correctly installed according to the state of the art.

## 1.3. General safety precautions

The purpose of this information is to make persons interacting with the system aware of all possible conditions of danger, and thereby to avoid injuries either to themselves or to others.

**Safety during use**

Before starting to use the system in any way whatsoever, the instructions given in this manual supplied must be carefully and completely, together with the indications provided directly on the system with safety warning symbols.
Do not tamper with, bypass or remove the safety devices installed on the system. Failure to observe these instructions may cause risks for the safety or health of persons.

**Safety during maintenance**

Personnel carrying out any kind of routine maintenance on the system during its entire lifespan must possess specific technical skills, special capacities and acquired experience recognized in the sector in question.
The absence of these requisites may cause risks for the safety or health of persons.
During normal use or during any kind of operations on the system, the safety distances around it must be maintained in order to avoid causing risks for the safety or health of persons. For some operations the help of one or more assistants may be necessary.

**Design for safety**

During the design and construction phase, the manufacturer dedicated particular attention to aspects that may cause risks for the safety or health of persons using the system. In addition to complying with applicable laws, the manufacturer followed all rules for “Good Manufacturing Practices”. Nevertheless, some parts of the system could cause risks that are not immediately evident. It is therefore advisable to take particular care during use of the system and during routine maintenance operations.

## 1.4. Identification of Manufacturer and System

General D'Aspirazione was the first company in Italy to manufacture centralized vacuum cleaner systems, and has been operating since 1974. For all requests regarding installation, use, maintenance or the supply of spare parts, customers are invited to contact only the manufacturer, whose identification data can be found on the identification plates (Fig. 1).

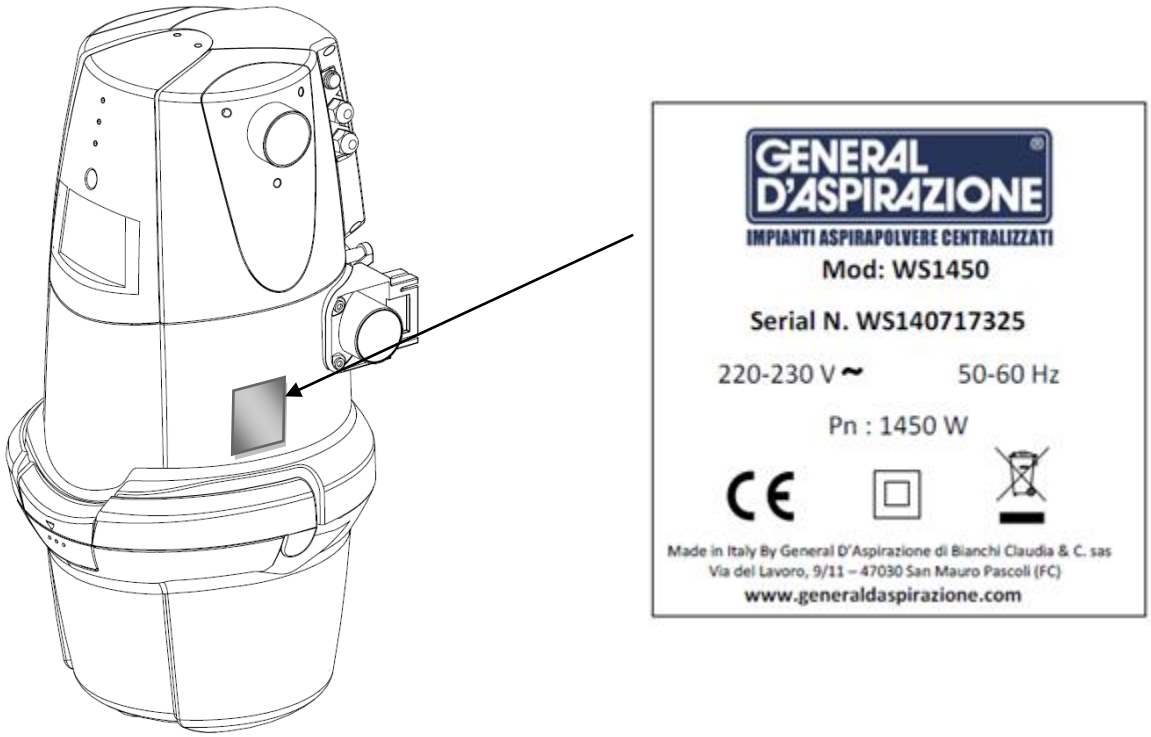



**Figure 1**

The rating plate is on the right side of the central vacuum.

For all requests for technical assistance, in addition to details of the problem encountered, customers are asked to inform the manufacturer of all system information given on the identification plate, as follows:

- model
- serial number

**MANUFACTURER Information**

GENERAL D'ASPIRAZIONE®
IMPIANTI ASPIRAPOLVERE CENTRALIZZATI

**Via del Lavoro, 9/11**
**47030 – San Mauro Pascoli (FC)**
**+39 0541 931012**

info@generaldaspirazione.com
www.generaldaspirazione.com

**IMPORTANT**
For all requests regarding installation, use, maintenance or the supply of spare parts, customers are invited to contact the manufacturer, whose identification data can be found on the identification plates.

## 1.5. Correct and improper uses

**ATTENTION:** Uses other than those indicated are not permitted.
No modifications or adaptations of the vacuum unit are permitted. Any use whatsoever other than the use for which the product has been designed represents improper use that may damage the vacuum unit and constitute a serious hazard for the user.

General D'Aspirazione centralized vacuum cleaner systems are designed and constructed solely to suck up dust of a domestic type into a central unit inside civil buildings. The system must be used to suck up only dust and objects of small dimensions. For specific needs contact the General D'Aspirazione technical office.
The manufacturer declines all and any liability for damage to the system or to other things and/or injuries to persons caused by improper use of the system.

## 1.6. Purpose of this manual

This installation, use and maintenance manual is an integral and essential part of the vacuum cleaner system. Its purpose is to provide all necessary information to allow the installer to install the system in full compliance with the manufacturer's specifications, the user to operate the system in the safest and most independent way, and maintenance technicians carrying out programmed maintenance operations to ensure the correct operation of machinery and the system as a whole. The manufacturer declines all liability for damage deriving from failure to observe the instructions given in this manual. In case of doubts on the correct interpretation of instructions, contact the manufacturer to receive the necessary explanations.

## 1.7. Composition of the manual and consultation details

This installation, use and maintenance manual is composed of chapters divided into sections, identified by a progressive numbering system at the start of each different topic. Italian is the language of the first release.
The table of contents lists the chapters and sections, allowing the desired topic to be easily found. The following symbols are used in this manual to indicate and highlight particularly important parts of the manual that must not be ignored:

| | |
|---|---|
|  | **Danger – Attention**<br>Denotes situations of extreme danger that if ignored could create serious risks for the health and safety of persons |
|  | **CAUTION**<br>Denotes that suitable conduct must be followed to avoid accidents and/or causing economic damage |
|  | **IMPORTANT**<br>Denotes technical information of particular importance that must not be ignored |

The descriptions and illustrations provided in this manual are not binding.
General D'Aspirazione reserves the right to make any modifications it deems necessary at any moment, without any obligation for prior notification.

# 2. Product Description

## 2.1. Denomination

The product name of “Residential Vacuum Units” means all equipments realized for the cleaning of housing, local and private buildings.
Residential Vacuum Units, use a suction turbine with an electric motor that generates low pressure when switched on. The air sucked in is channelled into a separator, where dust particles fall into a collection container. Finer particles are drawn towards the upper part of the separator, where they are trapped by the filter cartridge. The filtered air is then expelled towards the exterior through the outlet ducts.

## 2.2. Technical characteristics

Below we list all models of vacuum units with their technical specifications. On all models mentioned below is the version with the integrated wireless preceded by the letter "W" (ex: "Wi1250") and without integrated wireless version preceded by the letter "E" (ex: "Ei1250")
The wireless models have an operating band: 433.050 MHz to 434.790 MHz.

| TIPO | **Standard** | | **Intelligence** | | | **Total** | |
|---|---|---|---|---|---|---|---|
| MODELLO | S1000 | S1250 | i1000 | i1250 | i1450 | T1250 | T1450 |
| Max Surface (mq) | 120 | 300 | 120 | 300 | 700 | 300 | 700 |
| Intelligence Electronics | NO | NO | SI | SI | SI | SI | SI |
| Self Cleaning | NO | NO | NO | NO | NO | SI | SI |
| Integrated Silencer | SI | SI | SI | SI | SI | SI | SI |
| Nominal Power (W) | 1000 | 1250 | 1000 | 1250 | 1450 | 1250 | 1450 |
| Absorption (A) | 4.8 | 6.4 | 4.8 | 6.4 | 7.3 | 6.4 | 7.3 |
| Power Supply (V) | 220/230 | 220-230 | 220/230 | 220/230 | 220/230 | 220/230 | 220/230 |
| Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Fuse (A) | 6.3 | 8 | 6.3 | 8 | 10 | 8 | 10 |
| Sochet Alimentation (Vdc) | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Max Air Capacity (mc/h) | 205 | 230 | 205 | 230 | 179 | 230 | 179 |
| Depression (mmH2O) | 2.430 | 2.830 | 2.430 | 2.830 | 3.950 | 2.830 | 3.950 |
| Sup. filtrante (mq) | 4.000 | 8.500 | 4.000 | 8.500 | 8.500 | 8.500 | 8.500 |
| Filter Material | Poliestere | | Poliestere | | | Poliestere | |
| Dust bag capacity (lt) | 8 | 18 | 8 | 18 | 18 | 18 | 18 |
| Air input/output (Ømm) | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Max Noise (dB A) | 58 | 61 | 58 | 61 | 66 | 61 | 66 |
| Soft-start | SI | SI | SI | SI | SI | SI | SI |
| Air Watt | 415 | 556 | 415 | 556 | 615 | 556 | 615 |

## 2.3. Exploded diagram of vacuum unit mod. 1000 - 1250

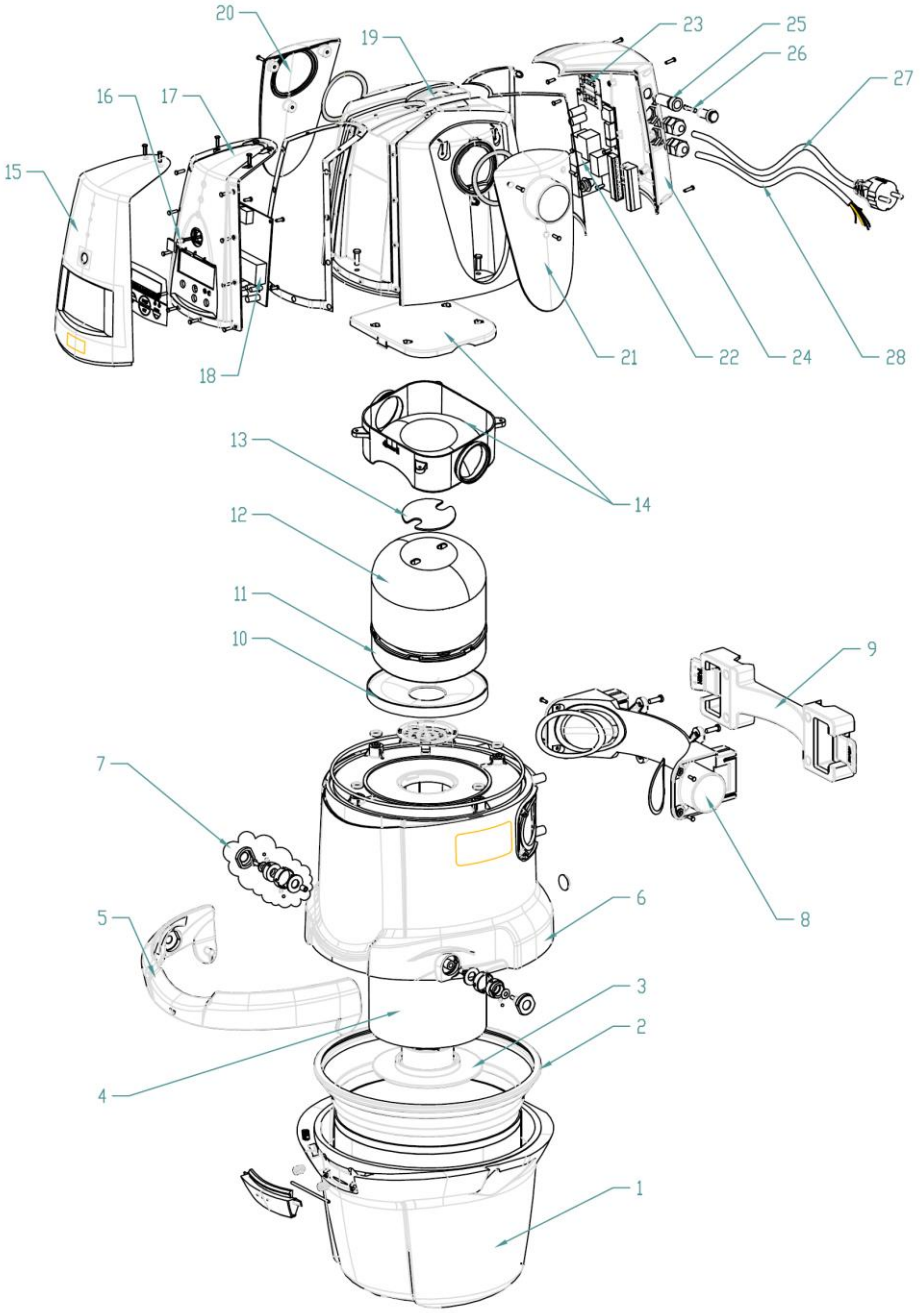



**Figure 2**

## 2.4. Component List mod. 1000-1250

| Pos | Code | Component description | Models |
|---|---|---|---|
| 1 | 0102121/24 | DUST CONTAINER 8 LT. WITH WHITE BUTTON | 1000 |
| 1 | 0102126/4 | DUST CONTAINER 18 LT. WITH WHITE BUTTON | 1250– 1450-Series |
| 2 | 0102420 | INVERTED RED CONE | |
| 3 | 0102171 | FILTER BLOCKING RING NUT WITH A CENTRAL PIVOT | |
| 4 | 0903050 | FILTER IN POLYESTER MOD. 1000 | 1000 |
| 4 | 0903051 | FILTER IN POLYESTER MOD. 1250 – 1450 | 1250-1450 |
| 5 | 0102160/2 | WHITE HANDLE (Add nr. 2 cod. 0102226) | |
| 6 | 0102106/2 | SMALL CENTRAL STADIUM | 1000 |
| 6 | 0102111/2 | BIG CENTRAL STADIUM | 1250 – 1450 |
| 7 | 0102650 | INSERTS KIT CENTRAL STADIUM FOR RESIDENTIAL UNITS | |
| 8 | 0102424/2 | HOOKING/INPUT REVERSIBLE WITH VALVE | 1250 |
| 8 | 0102423/2 | HOOK/REVERSIBLE ENTRANCE | S1000-i1000-i1250-T1250-i1450-T1450 |
| 9 | 0102180/2 | WHITE WALL BRACKET | |
| 10 | 0102320 | GASKET LOWER | 1000 – 1250 |
| 11 | 0901031 | ENGINE 1000W | 1000 |
| 11 | 0901036 | ENGINE 1250W | 1250 |
| 12 | 0902200 | SOUNDPROOF HEADSET FOR ENGINE 1000-1250 | 1000 – 1250 |
| 13 | 0902205 | GASKET FOR SOUNDPROOF HEADSET | 1000 – 1250 |
| 14 | 0102425 | REVERSIBLE SILENCER | 1000 – 1250 |
| 15 | 0102130/4 | WHITE COLOR MASK | |
| 16 | 0101395 | GREEN LED ASSEMBLED | |
| 17 | 0102140/2 | WHITE HEAD CARTER STADIUM | |
| 18 | 0102336 | SMD EVO DISPLAY BOARD | Intelligence/Totale |
| 19 | 0102100/2 | HEAD STADIUM | |
| 20 | 0102150/2 | LATERAL CARTER WITHOUT EXPULSION | 1000 – 1250 |
| 21 | 0102145/2 | LATERAL CARTER WITH EXPULSION | |
| 22 | 0102330/1 | ECO POWER BOARD | Mod.Standard |
| 22 | 0102331 | EVO POWER BOARD | Mod. Intelligence/Total |
| 23 | 0102340 | WIRELESS BOARD RECEIVER | Wireless series |
| 24 | 0102135/2 | WHITE BACK COVER | |
| 25 | 3000111 | FUSE BOX WITH CAP FOR FUSE 5x20 | |
| 26 | 3000115 | FUSE 5x20 6,3A DELAYED | 1000 |
| 26 | 3000117 | FUSE 5x20 8A DELAYED | 1250 |
| 26 | 3000118 | FUSE 5x20 10A DELAYED | 1450 |
| 27 | 3000150 | CABLE 2x1,5 AND BIPOLAR PLUG | |
| 28 | 0102351/12 | CABLE 12 X 0,25 | |

## 2.5. Exploded diagram of vacuum unit mod. 1450

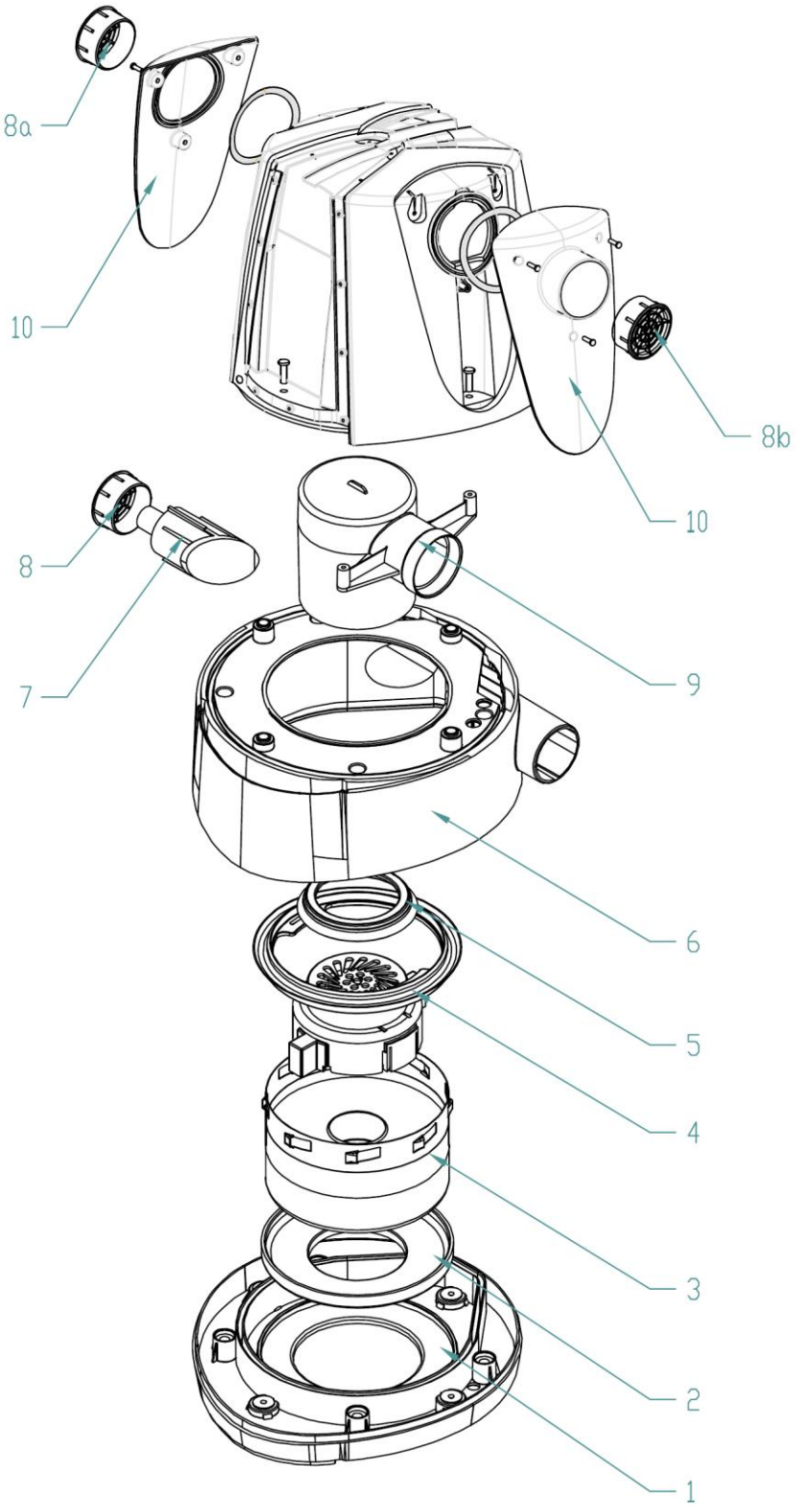



Figure 3

## 2.6. Component List mod. 1450

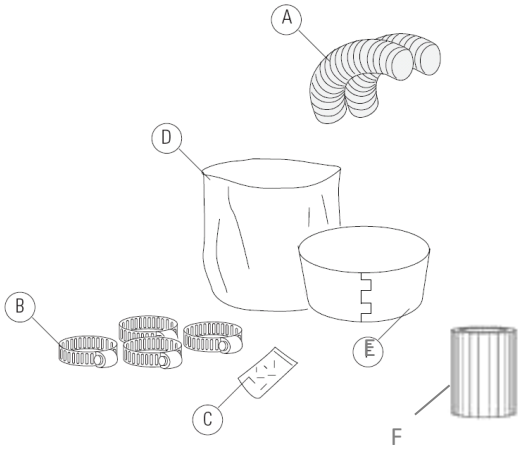
| Pos | Code | Component description | Models |
|---|---|---|---|
| 1 | 0102116 | SPACER BASE | 1450 |
| 2 | 0102321 | BASE ENGINE GASKET | 1450 |
| 3 | 0901038 | MOTOR BY 3II 1450W | 1450 |
| 4 | 0102322 | GASKET ABOVE | 1450 |
| 5 | 0102323 | GASKET CAP | 1450 |
| 6 | 0102115 | SPACER | 1450 |
| 7 | 0102193 | CAP FOR SPACER STADIUM | 1450 |
| 8 | 0102192 | GRID FOR UNITS MOD. 1450 | 1450 |
| 8a | 0102192 | GRID FOR UNITS MOD. 1450 complete of sponge protection cod. 0102284 and nr. 1 soundproofing cylinder for lateral carter cod. 0102283 | 1450 |
| 8b | 0102192 | GRID FOR UNITS MOD. 1450 complete of sponge protection cod. 0102284 and nr. 2 soundproofing cylinder for lateral carter cod. 0102283 | 1450 |
| 9 | 0102194 | CURVE FOR ENGINE COVER | 1450 |
| 10 | 0102145/2 | LATERAL CARTER WITH EXPULSION | 1450 |

## 2.7. Accessories supplied

Standard supplied are provided:

A. 2 flexible hoses for inlet and outlet connections
B. 4 metal clamps
C. 1 kit of screws for fixing wall bracket
D. 1 dust collection bag
E. 1 bag stretcher
F. 1 filter

**Figure 4**



## 2.8. Description of user interface

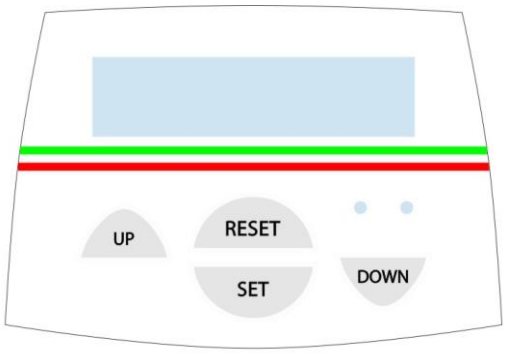



**Figure 5**

The parameters and time set by the factory can be modified and customized according to your needs, following the instructions given in chapter 5.7.2

1. **GREEN LED** – When lit indicates the presence of a power supply, and the vacuum unit is ready for use.
2. **RED LED** – When lit indicates a warning clarified with a message on the display.
3. **UP button** – Used while programming to decrease the value on the display.
4. **DOWN button** ¬– Used while programming to increase the value on the display.
5. **SET button** – Used while programming to memorize the new parameters.
6. **RESET button** – After maintenance operations, press this button to zero the alarm timer.
7. **DISPLAY window** – While programming, this window shows the values set for the parameters, and also displays messages to clarify the meaning of each “warning” (see Chap. 6.1 Chart of programmable values).

To answer at the regulations on energy consumption in stand-by, the display of the control unit will automatically turn off after 10 seconds of not use of the control unit. At the same time, the display will become active again at the pressure of any button or at restart of the control unit.

After each maintenance message or alarms, to turn on again the central you need to send a new wireless control to switch on or removing and re-enter the working tube in the suction inlet

## 2.9. Description of embedded user interface

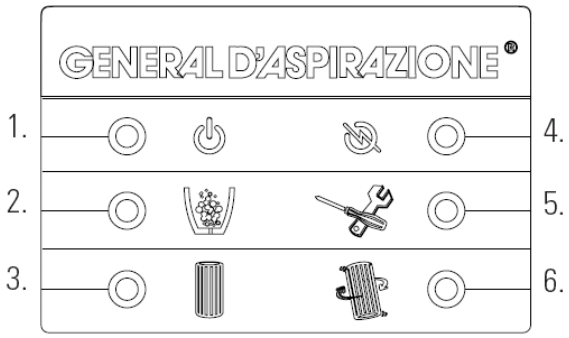



**Figure 6**

1. **GREEN LED** – When lit indicates the presence of a power supply, and the vacuum unit is ready for use.
2. **YELLOW LED** – Empty the dust container.
3. **YELLOW LED** – Clean the filter.
4. **RED LED** – Warns of the following alarm conditions: 1) the motor protection breaker has been tripped; 2) the system has been started several times in a short period: 3) the limit of continuous operation that can be set by the user has been reached (the message is shown on the main unit display).
5. **YELLOW LED** – A maintenance operation is required; contact the assistance centre.
6. **GREEN LED** – The unit is self-cleaning the filter (on TOTAL versions only).

## 2.10. Main Accessories

These following accessories are not included in the central vacuum but are sold separately

**Telescopic extension**

The telescopic extension has an adjustable length can be connected to different brushes for cleaning.

Pressing the button of adjustment is possible to adjust the length desired

**Brava Wireless or Brava Basic Handle**

Allows, thanks to its ergonomic handle, to use the various accessories attached to the boom.

The Brava Wireless Handle is equipped with integrated ignition commands to radio waves (frequency 433 MHz).

The Brava Handle is additionally equipped with an adjusting button that allows, if necessary, to reduce the suction.

**Accessories**

It's available a wide series of accessories that can be installed at the end of the telescopic extension or directly on the handle ( see the accessories brochure)

### 2.11. Technical documentation attached to the vacuum unit

1. Use and Maintenance Manual Quick Start Residential Vacuum Units
2. Warranty Certificate
3. Declaration of conformity CE

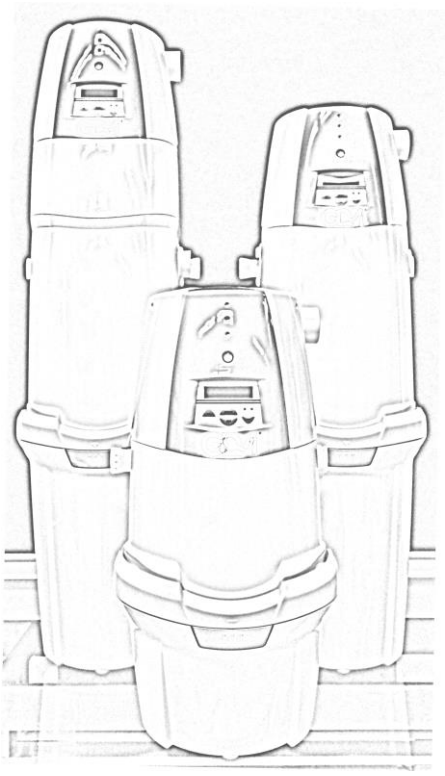


**Figure 7**

## 3. Handling and unpacking

The vacuum unit is shipped in a cardboard box with appropriate reinforcements to protect it against impact during transport and delivery. We recommend that you do not remove the packaging until installation to prevent damage.

| | |
|---|---|
|  | Never turn the Central still packed.<br>Do not use cutters for removing of the package<br>The manufacturer declines all responsibility for any damage caused by incorrectly opening packaging. |
|  | Handling operations use the appropriate personal protective equipment. Failure to use the appropriate DPI during handling and unpacking exhibits the operator to the risk of crushing the foot for stability loss. |
|  | Failure to use the glove does not guarantee a secure grip in the handling with the risk of an accidental fall. |

Upon delivery, you must immediately check the compliance and integrity of the material with the carrier not to give rise to claims for damages not attributable to transport.

If there is any damage to the equipment you need to do the following:

- annotate on the transport document (copy of the carrier), the type of damage;
- send to the carrier by registered letter to the damage claim within two days;
- contact the manufacturer's customer service for any parts to be replaced.

## 4. Installation of power unit

This equipment is designed to be installed by suitably trained personnel and trained.

**ATTENTION:** The entire system must be installed by qualified personnel in full compliance with standards of workmanship and with applicable standards and regulations.

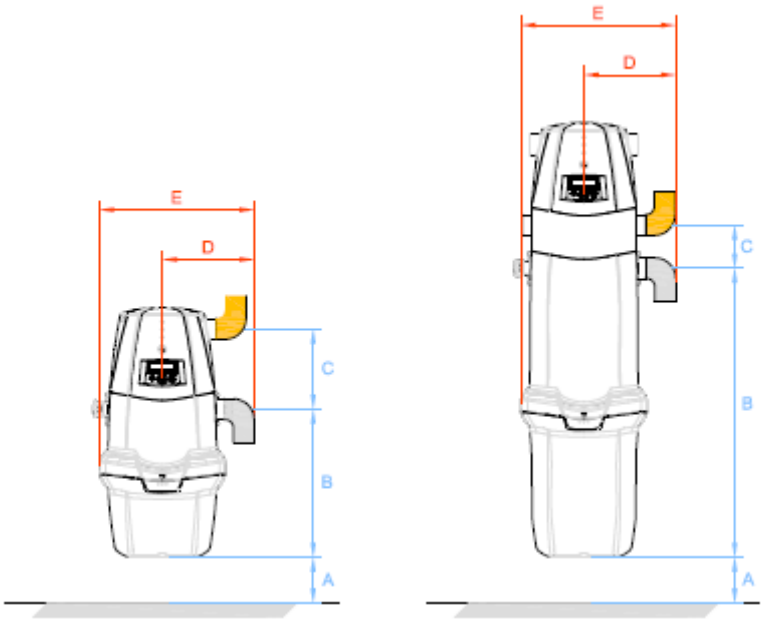
### 4.1. Choice of installation position for main vacuum unit

The choice of installation position must be based on these criteria:

- The main vacuum unit must be installed indoor in well ventilated rooms, preferably in a service room on the lowest floor of the building, like garage and technical service room. External places are allowed, provided that the vacuum unit is always protected from inclement weather.
- The selected position must have a clear space around the main vacuum unit and well lit so as to make easy maintenance and repair.
- The wall mounts must allow the installation of the main vacuum unit off the ground at varying heights depending on the model as shown to cap.4.2 that allow easy maintenance.
- The main vacuum unit must not be installed in rooms where:
  - There is a source of heat in the immediate vicinity
  - The temperature can reach values lower than 5 ° C and above 35 ° C
  - The humidity is very high or flooding may occur
  - Flammable or explosive products are stored or handled.
- The installation position must permit the fitting of air expulsion pipes no longer than 5 meters with pipes diam. 50 mm. After this distance, pipes diam. 63 mm must be used.

Please use sensors to detect electrical traces before drilling the wall

## 4.2. Dimension and technical data



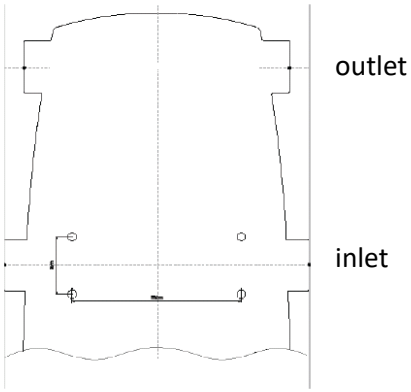

| | Standard | | Intelligence | | | Total | |
|---|---|---|---|---|---|---|---|
| **Measures and technical data** | **S1000** | **S1250** | **i1000** | **i1250** | **i1450** | **T1250** | **T1450** |
| Height (mm) | 600 | 940 | 600 | 940 | 1041 | 1085 | 1186 |
| Diameter (mm) | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| A – minimun (mm) | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| B (mm) | 357 | 695 | 357 | 695 | 695 | 695 | 695 |
| C (mm) | 194 | 194 | 194 | 194 | 104 | 339 | 249 |
| D (mm) | 210 | 210 | 210 | 210 | 210 | 210 | 210 |
| E (mm) | 370 | 370 | 370 | 370 | 370 | 370 | 370 |

**Figure 8**

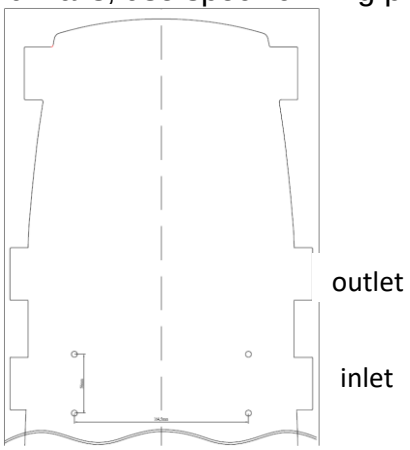
### 4.3. Installation of vacuum unit

After moving the main vacuum unit still packed to the selected room, proceed to unpack paying attention to the indications on the package and begin the installation steps as follows:

1. Provide a 230 V SHUKO power supply socket.
2. Use the template provided to mark the desired position. Verify that the position does not interfere with the passage of electric cables in the wall. (Figure 10).
3. Fix the wall bracket to the wall in the marked position using the expansion plugs provided, inserting the support cylinders between the bracket and the wall (not necessary for installation in box). (Figure 9).
   For installation on plasterboard walls, use specific fixing plugs.




Mod. 1000 – 1250




Mod. 1450

Figure 10

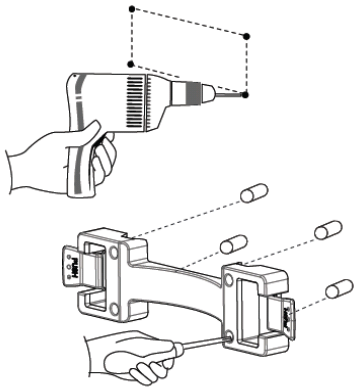


Figure 9

4.Fit the main vacuum unit, inserting the rectangular projections frontally into the corresponding recesses in the wall bracket, and applying pressure until they click in. (Figure 11).

5. Connect the system pipe to the main vacuum unit with the sleeve provided, tightening the metal clamps (clamps and the specific sleeve are both of series). (Figures 12)
6. Connect the main vacuum unit to the air expulsion pipe. (Figures 12)

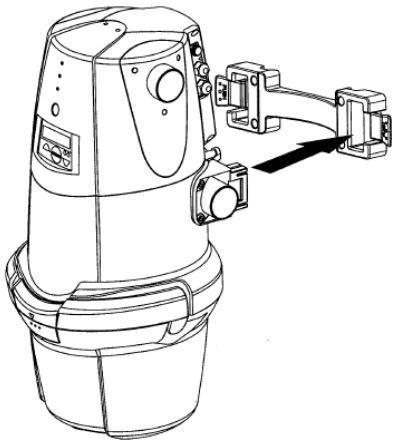


Figure 11

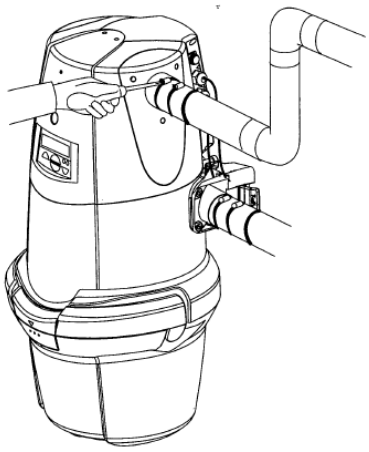


Figure 12

**CAUTION:** Electrical connections must be made only by qualified personnel.

7. Connect the two coloured poles (black, red) of the 12x0,25 cable to the two wires of the 5 Vdc low-voltage command of the INLETS LINE.

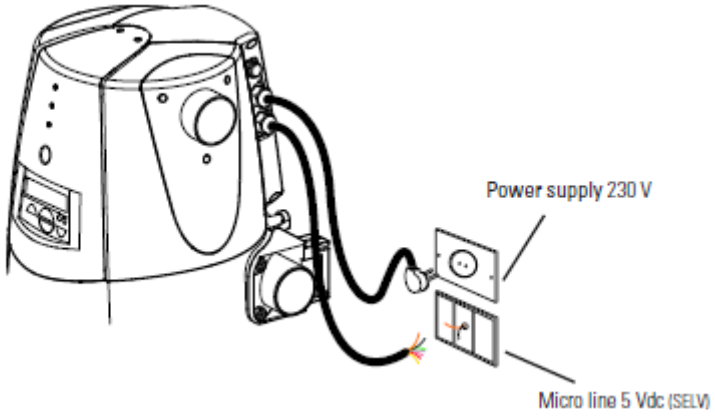



**Figure 13**

8. If you are using the Brava Wireless Handle, it is not necessary for the suction points to be fitted with electrical wiring for consent leading to the main vacuum unit.

9. For the Intelligence and Total versions, connect the 5 poles (yellow, green, grey, white, blue) for the direct auxiliary signal to the embedded user interface. The use of this signal is OPTIONAL.

10. The control unit is set up so that the wireless card can be removed from the outside of the machine with the remaining cables (pink, purple, brown, gray-pink, red-blue) using the special wireless receiver card kit cod. 0102344.

11. Insert the power plug into the electrical outlet

12. Perform the system trial.

Power cable type Y. The replacement of damaged cables must be performed by the manufacturer or an authorized service center .

At the completion of the installation it is recommended to perform a control of the main vacuum unit fixation and stability.
Ask the installer to perform the testing and calibration of the system to authenticate the installation in a workmanlike.

Indication DO NOT power the vacuum unit until the completion of sockets receptacles, and the Remote Panel.

## 4.4 Reversibility of suction and outlet connections

Main vacuum units are normally supplied with connections for air inlet and outlet pipes on the right. If necessary, this direction can be modified by independently moving the air inlet and outlet connections to the left.

**ATTENTION:**
Before carrying out this operation, it is compulsory to unplug the unit from the 230 V power supply wall socket.

To reverse the suction connector, proceed as follows:
1. Unscrew the screws and remove the reversible support/inlet. (figure 14)
2. Rotate the reversible support/inlet through 180°. (Figure 14)
3. Replace the reversible support/inlet in the new position (Figure 15)

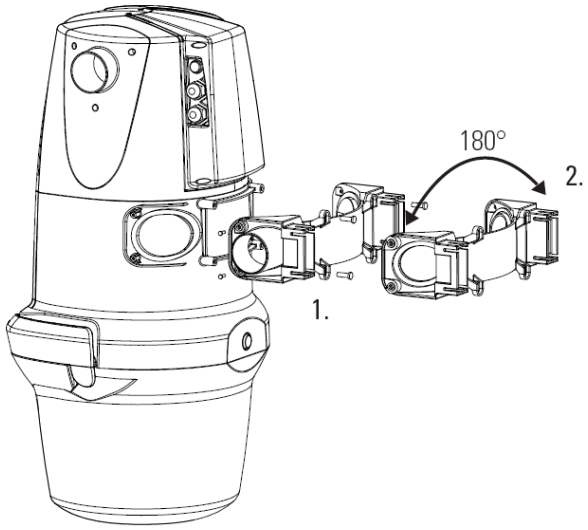



**Figure 14**

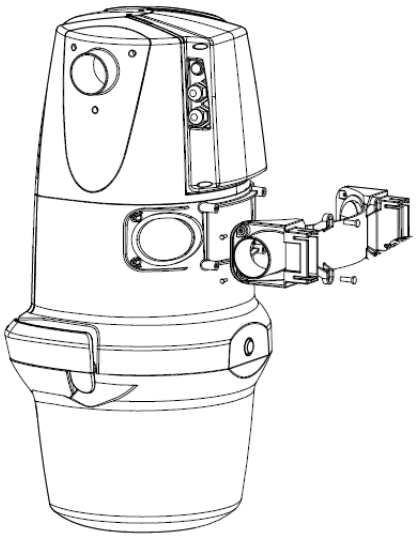


**Figure 15**

**To reverse the outlet connector, proceed as follows:**

***Mod. 1000-1250:***
Remove the screws and reverse due Covers Side (with and without the expulsion)

***Mod. 1450:***
Remove the grid on the stadium spacer and with a pliers remove the expulsion cap.
Place them in the same order on the opposite side of the expulsion.

### 4.5 Acceptance test

The acceptance test is the first proof of guarantee for GENERAL D'ASPIRAZIONE users. While building work is still in progress, before floors are laid, the system is already capable of operating. At this stage it is possible therefore to check the satisfactory operation of the system, and to make any corrections if necessary. The special patented cover can be used to hermetically seal the suction hole in the suction point, allowing the correct operation of the system to be checked easily and in only a few minutes.
There are two possible moments at which the final system check can be made:

- after the vacuum pipes have been installed;
- before floors are laid.

The installation technician and the site manager can therefore offer users a guarantee of perfect operation, allowing any problems to be identified and solved before building work has been concluded.
The acceptance test has three phases:

- the suction pressure generated by the main vacuum unit is measured with the vacuum meter provided;
- the main vacuum unit is connected to the system pipe;
- the suction pressure is tested at suction points to check that it is always constant.

When the test has been completed, if the system is not operating perfectly it will be possible to locate the place where it is damaged.

**IMPORTANT:**
Before operate the system, the installer should perform a test of each suction point installed by checking the correct start-up and shutdown of the main vacuum unit

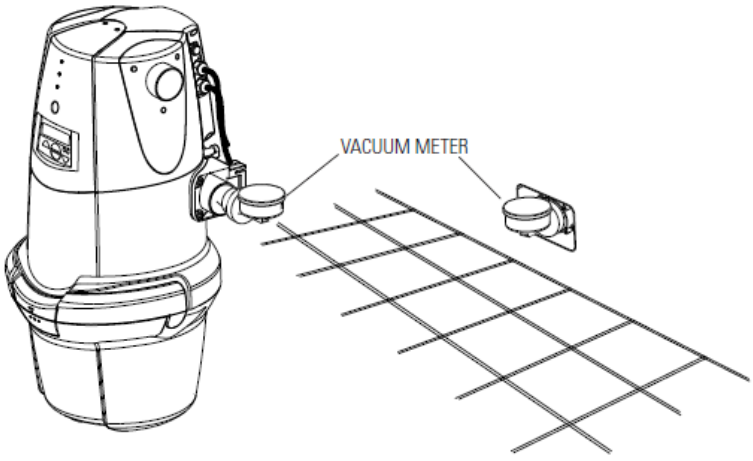



**Figure 16**

# 5. Use of main vacuum unit

**Important**
The system is designed for use by one operator only. For motives of efficiency only one suction point may be used (open) at a time.

**Important**
Before starting to use the system check that all system components are in place.

## 5.1 Stop and start control

The main vacuum unit can be turned on and off in two different ways:

**1. Using the wireless command.**

All vacuum unit versions are equipped with a wireless receiver. It is therefore sufficient to press the start/stop button on the BRAVA Wireless Handle to turn the main vacuum unit on and off.

**Figure 17**

**IMPORTANT**
It is not necessary for the suction points to be fitted with electrical wiring for consent leading to the main vacuum unit.

**2. Using the suction point consent function.**

Simply insert the operating hose into the required suction point. To turn off the main vacuum unit it is sufficient to remove the operating hose from the suction point.

**IMPORTANT**
Suction points must be fitted with electrical wiring for consent leading to the main vacuum unit.
Connect the two pole of color (black,red) of cable 12x0,25 to the two command's wires of low voltage 5Vdc to the socket line.

### 5.2 Use of the plant

Once you start the control panel can be used according to the directions back to Chapter 1.2 "Recommendations for Use."
To use the system need to connect the working tube, consisting of the sleeve, the hose and the Brava Wireless Handle from one side and from the telescopic extension and the brushes or the various other accessories.
In this way you can move through the different environments where the intake vents are installed to carry out the cleaning, inserting the sleeve of the working tube in the socket suction vacuum cleaner and starting the unit as described in Chapter 5.1.

### 5.3 Programming the Brava Wireless Handle

In order to give the command to start and stop must be programmed the Brava Wireless Handle with a main vacuum unit. It’s possible to program a maximum of 5 handles.
For programming, refer to the Use and Maintenance Manual of the Brava Wireless Handle attached to the packaging thereof.

### 5.4 Reset of Brava wireless handle

If you exceed the maximum number of 5 handles programmed and it becomes necessary to replace one of these, it is necessary to reset the memory and do a new programming
To reset, refer to the Manual of Use and Maintenance of the handle in attached to the packaging of this.

## 5.5 Self-cleaning function

Total models have a self-cleaning system with filter that can operate at intervals programmable according to requirements. Maintenance is therefore limited to the replacement of the collection bag.
In the USER MENU of the interface there is this submenu:

| SELF-CLEANING |
|---|

only if the self-cleaning function has been activated on the machine. This submenu indicates the motor operation time after which the filter is automatically cleaned.
This function overrides manual filter cleaning, meaning that it will not be necessary to clean the filter manually, and no indication for manual filter cleaning will be given.
The time of use of the system between one indication of self-cleaning and the next can be varied between 30 and 240 minutes. The preset time is 90 minutes.

| TIME XXX MINUTES<br>SELF-CLEANING |
|---|

Operation of the device is triggered by a mini-compressor that feed a pressure air tank of one liter capacity until a pressure value of 5 bar is reached. At this point an instantaneous air jet is channeled inside the filter through a nozzle. This allows the filter to be kept clean for a longer period.

**Important:** During the self-cleaning cycle do not open the dust collector container and after the end of the cycle wait at least a minute before opening it
**Make annual inspections on the filter to ensure that it is undamaged and to check if it needs washing (if washed, the filter must be dry before being replaced).**

## 5.6. Programming the user interface

The user interface supplied with models **Intelligence** and **Total** is already programmed for the requirements of normal use. If necessary, the preset parameters can be modified to cater for individual needs.

| Programmamble Parameters | | Hours of operation | | |
|---|---|---|---|---|
| | | Minimun | Preset | Maximum |
| **FILTER CARTRIDGE CLEANING (Models i1000)** | hours | 1 | 10 | 20 |
| **FILTER CARTRIDGE CLEANING (Models i1250, i1450)** | hours | 1 | 20 | 40 |
| **DUST CONTAINER EMPTYING 8 lt (Models i1000)** | hours | 1 | 5 | 20 |
| **DUST CONTAINER EMPTYNG 18 lt (Models i1250,T1250, i1450, T1450)** | hours | 1 | 10 | 40 |
| **SELF-CLEANING (Models T1250, T1450)** | Min. | 30 | 90 | 240 |
| **CONTINUOS OPERATION (entire range)** | Min. | 30 | 45 | 600 |

***Personalization of maintenance parameters***

With the procedures described here, users can view the most recent maintenance parameters programmed, with a series of simple operations on the user interface.
Enter the USER MENU by pressing the SET button when the display shows the STANDBY message.
Scroll through the USER MENU with the UP and DOWN keys until you reach the desired submenu. The most recent value entered will be displayed.
To leave this display press the RESET button until the STANDBY message reappears.

Language:

In this menu it is possible to change the language of the texts shown on the display.
Enter the USER MENU by pressing the SET key when the display shows Stand-by. Scroll through the USER MENU with the UP and DOWN keys until you reach the LANGUAGE submenu. Press the SET button again then use the UP and DOWN buttons to change the language. To memorize the chosen value, hold down the SET key for a few seconds until the word MEMORY appears.
To exit the display, press the RESET button.

### Filter Cleaning:

Enter the USER MENU by pressing the SET button when the display shows the STANDBY message. Scroll through the USER MENU with the UP and DOWN keys until you reach the FILTER CLEANING submenu. Press the SET button again and then use the UP and DOWN keys to enter the desired value. To memorize the new value entered, keep the SET button pressed down for a few seconds until the MEMORIZED message appears. To leave this display press the RESET button.

### Emptying of powder container:

With this procedure it is possible to change the parameter that regulates the default alarm, programmed on 5h for the models i1000 e 10h for the models i1250, i1450, T1250, T1450.
Enter the USER MENU pushing the SET button when you see the writing STAND-BY
Scroll through the USER MENU with the UP and DOWN keys until you reach the SVUOT submenu. CONTAINER, press the SET key, then use the UP and DOWN keys to enter the desired value. To memorize the chosen value, hold down the SET key for a few seconds until the word MEMORY appears.
To exit the display, press the RESET button.

### Self-cleaning filter

With this procedure it is possible to change the parameter that regulates the default alarm, programmed on 5h for the models i1000 e 10h for the models i1250, i1450, T1250, T1450.
Enter the USER MENU pushing the SET button when you see the writing STAND-BY
Scroll the USER MENU with the UP and DOWN keys until you reach the SELF-CLEANING submenu, press the SET key, then use the UP and DOWN keys to enter the desired value. To memorize the chosen value, hold down the SET key for a few seconds until the word MEMORY appears. To exit the display, press the RESET button.

### Continuous operation:

With this procedure it is possible to modify the parameter that regulates the alarm intervention, by default set to 45 min.
Enter the USER MENU by pressing the SET key when the display shows Stand-by.
Scroll through the USER MENU with the UP and DOWN keys until you reach the FUNCTION submenu. CONTINUOUS, press the SET key, then use the UP and DOWN keys to enter the desired value. To memorize the chosen value, hold down the SET key for a few seconds until the word MEMORY appears.
To exit the display, press the RESET button.

# 6. Maintenance

**ATTENTION:**
Before carrying out any maintenance operations it is compulsory to unplug the unit from the 230 V power supply wall socket and to put on protective gloves and a facemask.

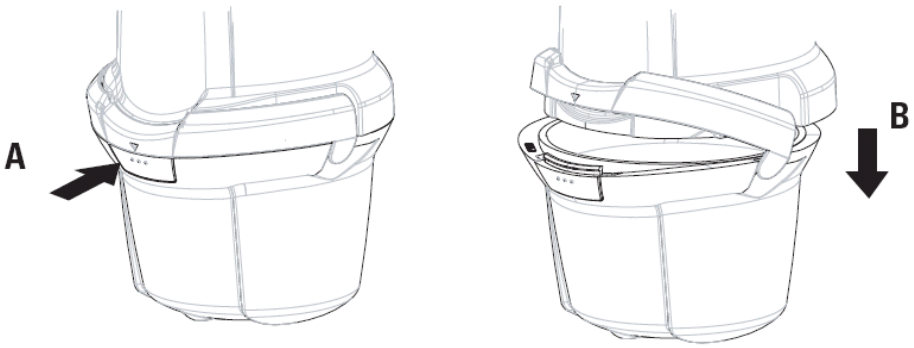
**Important**
For versions with a user interface, the machine indicates when the dust container must be emptied or the filter cleaned after a time interval that is programmed by the user (to change the parameters see chap. 5.7.2).

## 6.1 Emptying the dust container

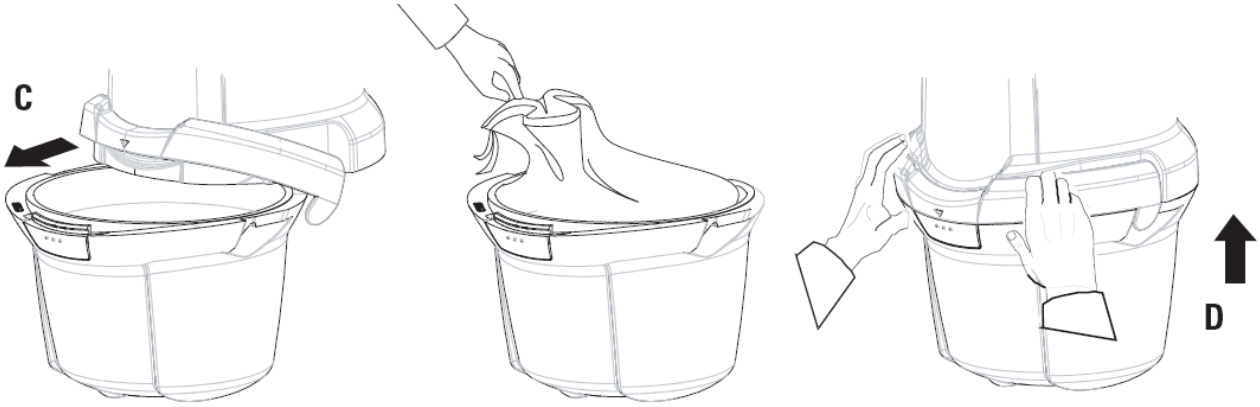
• The dust container must be emptied regularly every 3–6 months, depending on frequency of use and acquired experience.
• The dust container must be washed with water at least once a year. Dry it thoroughly before replacing it.

INSTRUCTION:

1. Unplug the unit from the 230 V power supply wall socket
2. Open the dust container by pressing the central button (A) to release the handle and obtain opening of the container downwards (B).




3. Remove the dust container (C) from the main vacuum unit, pulling it towards yourself.
4. Remove the cone, dispose of the full bag, insert the new bag with the bag tightening inside it and replace the cone.




**5. Check the condition of the filter cartridge, and clean and wash it if necessary (chap. 6.2).**
6. Replace the dust container in the side hooks of the handle, and close it with a slight pressure of both hands (D) to the sides of the central button.
7. Connect the unit to the power supply socket and press Reset for 3 seconds until stand-by appears again (for model with display only).

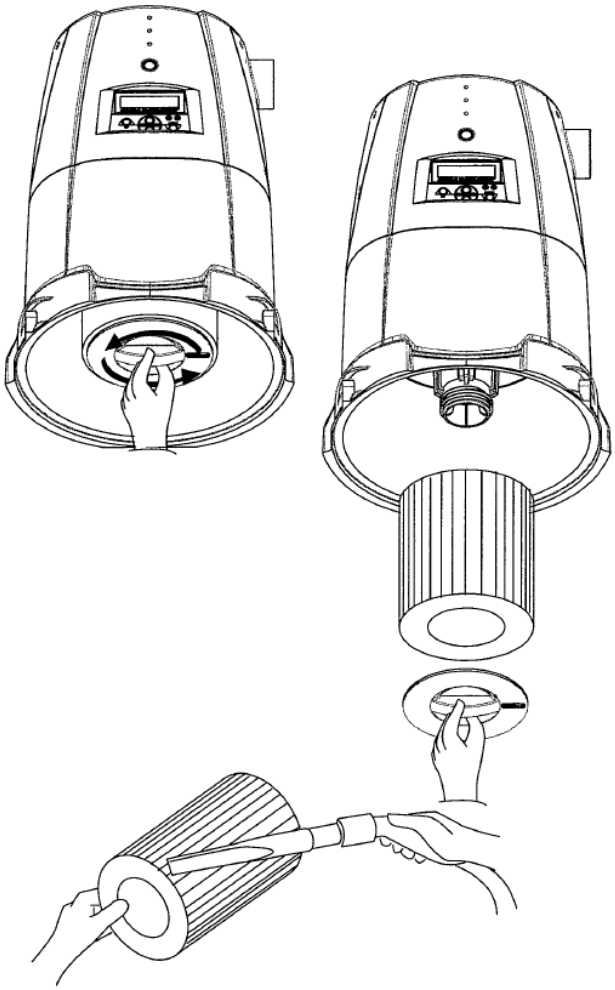
**Important**
Do not throw the inverted red cone away – replace it correctly above the dust container

### 6.2 Manual Filter cleaning

The main vacuum unit has a filter cartridge that filters dust, protection the vacuum motor. It is important to make monthly checks on the condition of this filter. On models with the Self-cleaning function, annual inspections must be made on the filter to ensure that it is undamaged and to check if it needs washing
(if washed, the filter must be dry before being replaced).
**It is advisable to keep a spare filter available for cleaning operations.**

INSTRUCTION:
1. Unplug the unit from the 230 V power supply wall socket.
2. Release and remove the dust container
3. Unscrew and remove the filter retention ring
4.Carefully remove the filter.
5. If you have a replacement filter (see accessories brochure available) mount it instead of the dirty making attention to support it on ring and **screwing up mount instead until the complete locking both axial and circular.**
6. Replace the dust container, taking care to fit it correctly.

7. Connect the unit to the 230 V power supply socket. (At this point the system is ready for use again.)
8. Press Reset for 3 seconds until it appears again stand-by (for model with display only).
9. Clean the dirty filter, if possible with a vacuum cleaner, and wash it if necessary.
10. If a spare filter is not available, the existing filter must be cleaned with a brush, taking care not to raise too much dust and wearing a facemask to protect the respiratory tract against the inhalation of harmful dust. Then wash the filter with water.



- Never use the main vacuum unit without the filter.
- The washed filter must be completely dry before being refitted.
- Do not throw the inverted red cone away – replace it correctly above the dust container.
- Do not use compressed air.
- The filter must be replaced after 2 years of normal use.
- No maintenance is necessary for vacuum pipes, as the suction power of the system ensures that these are kept constantly clean.

# 7. Safety Compontents

## 7.1 Protection Fuse

All main vacuum units are protected by a fuse that interrupts the power supply to the motor in case of malfunctions or electrical problems.
To replace the fuse, unscrew the fuse-holder located above the power supply cable (see Fig. 2 - chap. 2.3).

**Caution**
the fuse replacement is an operation that only a service centre can perform. The service centre will replace it with a short-burn fuse. Consult the chap. 2.2.

## 7.2 Cut-out breaker against overheating

All main vacuum units are fitted with a thermal cut-out breaker that stops the motor in case of overheating.
In case of unit stop due to thermal cut-out breaker, allow the motor to cool down to normal operating temperature (about 25-30 minutes).
Then trace the cause of overheating (e.g. clogged filter, full dust container, partial obstruction of a brush or flexible hose, etc).
To restore power to the control unit must send a new wireless control or remove and reinsert the working tube from the intake inlet.

## 7.3 Protection for accidental starts

This protection system, stops the operation of the control unit if the same receives more than eight commands on / off in a minute.

## 7.4 Suction prevention of a system obstructed

In the case of operation with all the suction inlet are closed, the main control unit, will turn off automatically.

## 8. Inconveniences causes and solution

***The main vacuum unit does not work…***

- Check the 230 V power supply.
- If using the Wireless system, check that the transmitter indicator light goes on when the button is pressed, otherwise check the batteries and replace if necessary.
- Check that the low-voltage command is correctly connected to the black and red poles of the main unit, in case of electrical connections to the sockets.
- Short-circuit the wires of the low-voltage command (black and red). If the main unit starts to operate, all connections of the suction inlets must be checked.
- The overheating cut-out breaker has tripped. Wait for the motor to cool down to normal operating temperature (about 25–30 minutes) and trace the cause of overheating (e.g. clogged filter, full dust container, partial obstruction of a brush or flexible hose, etc).

**IF THE MAIN VACUUM UNIT STILL OPERATES INCORRECTLY:**
**CONTACT THE AUTHORIZED ASSISTANCE SERVICE OR YOUR DEALER, INDICATING THE SERIAL NUMBER AND MODEL OF YOUR SYSTEM.**

- The main vacuum unit with User Interface may give the following reports of Maintenance:
    - emptying the dust container
    - Clean Filter
    - Change with new filter
    - Self-cleaning filter in progress

  To restart operation long press on the reset button until it appears the the written Stand-By (see chap 5.6).
- The control unit with User Interface may give the following alarm signals:
    - Continuous operation alarm
    - Accidental start alarm
    - Obstructed suction alarm

  To restart operation long press on the reset button until it appears the the written Stand-By (see chap 5.6).
- The control unit with User Interface may give the following alarm signals:
    - Self-cleaning fault
    - Motor fault

In case of fault please contact the authorized service center or your dealer and tell the serial number and model.

***Suction power is very low…***

Check that…

- The other suction points are closed
- There are no foreign bodies trapped in the brush, flexible hose or curved joint
- The dust container is correctly installed and is not full
- The filter cartridge is correctly positioned and is clean
- The main vacuum unit is correctly connected to the suction pipe
- The suction pipe is blocked or has no leaks

**IF THE MAIN VACUUM UNIT STILL OPERATES INCORRECTLY:**
**CONTACT THE AUTHORIZED ASSISTANCE SERVICE OR YOUR DEALER, INDICATING THE SERIAL NUMBER AND MODEL OF YOUR SYSTEM.**

## 8.1 Reporting User Interface

Centralized Vacuum Cleaner System Series are equipped with a user interface display with blue background and text scrolling for the management of maintenance and the views of alarms and defects. (Figure 5)
The thresholds of maintenance are handled by a timer on the time of use.
The following will describe the various reports of the User Interface

### 8.1.1 Reporting User Interface

Emptying the dust container and *** Press Reset ***

The machine indicates when the dust container must be emptied. Proceed as directed in a Chap. 6.1 of this Manual.
Once emptied the dust container requires a long press of the reset button to reset the machine in stand-by mode.
If the vacuum unit indicates to empty the dust container and the same is not particularly full, you can change the preset time from the factory, increasing it.

Filter Cleaned and ***Press Reset***

The main vacuum unit indicates when is necessary to clean the filter. Proceed as directed in a Chap. 6.2 of this manual.
Once the filter cleaning requires a long press of the reset button to reset the controller in stand-by mode.
If the main vacuum unit indicates to clean the filter and the same is not particularly dirty, for the next time, you can change the preset time from the factory, increasing it a little.

Replace with new filter and ***Press Reset***

The main vacuum unit indicates when is necessary to replace the filter exhausted. Proceed as directed in a Chap. 6.2 of this manual.
Is possible to continue using the main vacuum unit forcing the alarm with a long press of the reset button to reset the main vacuum unit in stand-by mode.

Self-cleaning filter in progress *** Wait for automatic reset ***

The main vacuum unit equipped with automatic filter cleaning, I carry out regular cleaning. The auto-filter cleaning cycle takes about 1 minute, after which the unit automatically returns to stand-by.

**Important:** When cleaning the filter does not use the unit.

### 8.1.2 Reporting User Interface

Thermal protection alarm *** Wait for automatic reset ***

In the case of a possible use of the plant obstructed or dirty filter, a thermal switch of protection stops the operation of the control unit to prevent overheating that could damage it. The control unit can be reused after about 30 minutes of stop at the end of which it will automatically return to stand-by

Alarm continuous working *** Press Reset ***

You set a time of continuous operation which, if exceeded, the control unit goes into protection. Set by default at 45 minutes. To reset the main vacuum unit in stand-by mode requires a long press of the reset button.
The set time can be changed and customized according to your needs, follow the instructions in Chap. 5.7.2

Alarm accidental start *** Press Reset ***

If the main vacuum unit is accidentally turned on for more than 7 times in one minute, the same goes for protection.
Once the filter cleaning requires a long press of the reset button to reset the vacuum unit in stand-by mode.

Alarm obstructed suction *** Press Reset ***

In cases where the system is obstructed or the main vacuum unit functions with all the vents closed, a protection system prevents its function.
For the first two signals can be switched on again the control unit by simply sending a new command wireless or by removing and reinserting the working tube in the socket.
After the third consecutive signal requires a long press of the reset button to reset the controller in stand-by mode and re-enter the working tube in the suction inlet.

### 8.1.3 Reporting User Interface

Self-Cleanig Fault *** Press Reset and contact Assistance Centre ***

The control unit reports that there is a fault in the system of self-cleaning filter
To restore the self-cleaning system is necessary to call the authorized service center, by contacting the free number indicated on the nameplate of the unit.
In automatic mode, the control unit sets the functionality of manual filter cleaning, see chap. 5.6.1 for maintenance.
one time of cleaning the filter requires a long press of the reset button to reset the controller in stand-by mode.

Motor Failure *** Press Reset and contact Service Center ***

The control unit indicates that there is a fault in the engine. In the presence of this failure, the control unit is not able to function.To reset the operation of the control unit, it is necessary to intervene and call a Service Centre, by calling the free number indicated on the nameplate of the unit.

## 9. Repair

It is absolutely forbidden to carry out repairs and/or maintenance on the main vacuum unit that are not authorized by this manual.

All repair operations for defects or malfunctions must be carried out only by qualified personnel from an assistance centre.
If repairs or other operations are carried out by unauthorized personnel, the guarantee on the product will be invalidated, also exonerating the manufacturer from all and any liability in case of injuries and/or damage deriving from any such operations.

## 10. Decommissioning and disposal

When the device has terminated its cycle of use and must be decommissioned, follow these instructions to protect the environment:

The presence of this symbol on the product or on the pack indicates that the product must not be treated as normal household refuse, but must be taken to a suitable collection centre for the recycling of electrical and electronic devices.

By disposing of this product in a suitable way, you will contribute in avoiding potential damage to the environment and public health that could be caused by unsuitable product disposal.
For more detailed information on recycling procedures for this product, contact your local authority, your local waste disposal agency or the dealer from which the product was purchased.

Before performing any procedure for the sale and removal isolate the system from the electrical supply line.
Failure to follow of this prohibition exposes the operator to the risk of accidental starting and a risk of electric shock.

The disposal operations use the appropriate personal protective equipment.

Failure to use appropriate DPI undergoing decommissioning and disposal exposes the operator to the risk of crushing the foot for stability loss.
Failure to use the glove does not guarantee a secure grip in the disposal
with the risk of an accidental fall.

**For more detailed information on recycling procedures for this product, contact your local authority, your local waste disposal agency or the dealer from which the product was purchased.**

## 11. Declaration of EC Conformity CE Wxy

San Mauro Pascoli, 27/05/2022

### *EU DECLERATION OF CONFORMITY*

We,

| | |
|---|---|
| Manufacturer: | General D'Aspirazione di Bianchi Claudia & C. s.a.s. |
| Address: | Via del Lavoro, 9/11 – 47030 – San Mauro Pascoli (FC) |

**declare under our sole responsibility that the radio equipment**

| | |
|---|---|
| Type: | Wxy |
| Model: | WT1450 |
| *Variants:* | WT1000 - WT1250 - WT1600 - WT1750 - Wi1000 - Wi1250 - Wi1450 - Wi1600 – Wi1750 - WS1000 - WS1250 - WS1450 - WS1600 - WS1750 |
| Firmware: | No Present |
| Intended use: | Central vacuum cleaner |

**is in conformity with the essential requirements of the Directive 2014/53/EU (RED) and of the Directive 2011/65/EU (RoHS).**

**The product has been tested against the following standards or technical specifications:**

1. Essential requirements for the protection of the health and safety of people, pets and goods, Article 3.1a) of Directive 2014/53/UE:
   - EN 60335-1:2012 + A11:2014 (SAF)
   - EN 60335-2-2:2010 + A1:2013 + A11:2012 (SAF)
   - EN 62233:2008 (EMF/Health)
2. Essential requirements on electromagnetic compatibility levels, Article 3.1b) of Directive 2014/53/UE:
   - EN 55014-1:2006 + A1;A2
   - EN 55014-2:2015
   - EN 61000-3-2:2014
   - EN 61000-3-3:2013
3. Essential requirements for the effective use of radio spectrum, Article 3.2 of Directive 2014/53/UE:
   ETSI EN 300 220-2 V3.1.1
4. Directive 2011/65/UE of the European Parliament and Counsel of the 8th June 2011, on the restriction of use of specific dangerous substances in electrical and electronic apparatus, relevant text for the purpose of SEE
   - EN50581:2012

Signature of the Legal representative:

## 12. DECLARATION OF EC CONFORMITY CE Exy

San Mauro Pascoli, 27/05/2022

***EU DECLERATION OF CONFORMITY***

We,

| | |
|---|---|
| Manufacturer: | General D'Aspirazione di Bianchi Claudia & C. s.a.s. |
| Address: | Via del Lavoro, 9/11 – 47030 – San Mauro Pascoli (FC) |

**declare under our sole responsibility that the equipment**

| | |
|---|---|
| Type: | Exy |
| Model: | ET1450 |
| Variants: | ET1000 - ET1250 - ET1600 - ET1750 - Ei1000 - Ei1250 - Ei1450 - Ei1600 – Ei1750 - ES1000 - ES1250 - ES1450 - ES1600 - ES1750 |
| Firmware: | No Present |
| Intended use: | Central vacuum cleaner |

**is in conformity with the essential requirements of the Directive 2014/30/EU (EMC), of the Directive 2014/35/EU (LVD) and of the Directive 2011/65/EU (RoHS).**

**The product has been tested against the following standards or technical specifications:**

1. *Directive 2014/35/UE of the European Parliament and Counsel of the 26th February 2014, regarding the harmonisation of the legislation of the member states concerning the making available on the market of the electric material destined to be used within certain limits of tension, relevant text for the purpose of SEE*

    - EN 60335-2-2:2010 + A1:2013 + A11:2012(SAF)
    - EN 60335-1:2012 +A11:2014 + A13:2017 +A1:2019+A2:2019+A14:2019(SAF)
    - EN 62233:2008(EMF/Health)

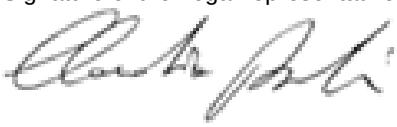
2. *Directive 2014/30/UE of the European Parliament and Counsel of the 26th February 2014, regarding the harmonisation of the legislation of the member states concerning the electromagnetical compatibility (refusion), relevant text for the purpose of SEE*

    - EN 55014-1:2006 + A1;A2
    - EN 55014-2:2015
    - EN 61000-3-2:2014
    - EN 61000-3-3:2013

3. Directive 2011/65/UE of the European Parliament and Counsel of the 8th June 2011, on the restriction of use of specific dangerous substances in electrical and electronic apparatus, relevant text for the purpose of SEE

    - EN 50581:2012

Signature of the Legal representative:



**INDEX**

**General D’Aspirazione**
**via del Lavoro, 9**
**47030 San Mauro Pascoli (FC)**
**Tel. 0541.93.10.12**
**Fax. 0541.933763**
**info@generaldaspirazione.com**

**www.generaldaspirazione.com**