# Smart and Flow Units, maintenance and installation manual

2025 - Rev.00

User manual

**generaldaspirazione.com**

**INDEX**

# 1. General safety 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** |
|  | **DANGER - ATTENTION**<br>Indicates situations of grave danger which, if neglected, could seriously jeopardize the safety and health of people. |
|  | **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** |
|  | **CAUTION** It indicates that it is necessary to adopt appropriate behaviors to avoid accidents and/or causing economic damage. |
|  | **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.
- It is forbidden to use the vacuum units in a different configuration as per intended by the manufacturer and in the absence of the required protections.
- **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:
    - if the main vacuum unit receives an impact;
    - if maintenance or repair operations are necessary, and always before any other kind of work.
    - 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.

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.

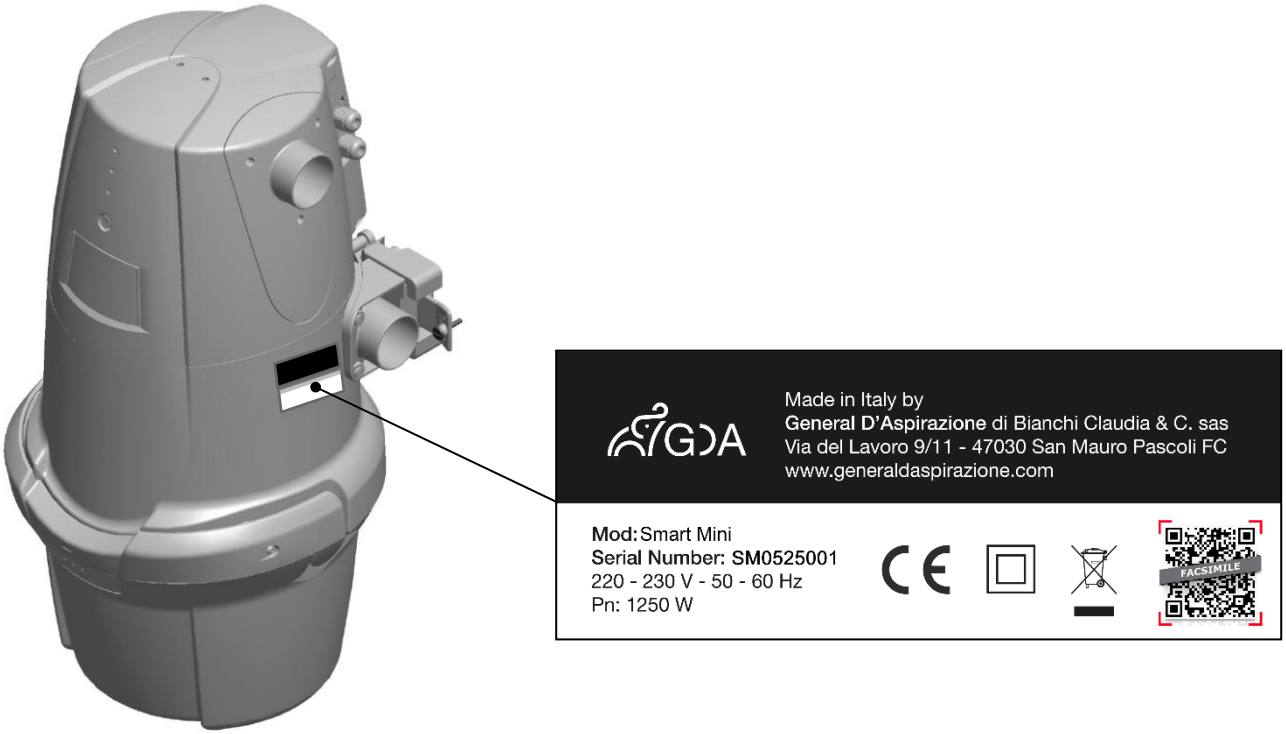
**Design for safety**

IDuring 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.

**ATTENTION: To avoid any danger due to accidental resetting of the thermal protection, the unit must not be powered by an external switching device, such as a timer, or connected to a circuit that is regularly energized or de-energized by the service.**

### 1.4. Identification of manufacturer

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 platesopera




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 - Del Lavoro Street, 9/11 - 47030 San Mauro Pascoli (FC)

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 conultation 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

The table shows all the units models with their respective technical and performance specifications.
All the units can be controlled via low voltage 5Vdc contact to switch on and off the unit.

The “SMART” series models are equipped with an integrated Wi-Fi module to connect the unit to the Wi-Fi network and to the GDA APP with a 2.4GHz operating band.

The SMART models are also equipped with an integrated wireless receiver with an operating band of 433.050 Mhz to 434.790 Mhz, that allows to switch on and off the unit from the Brava wireless handle.

| **Technical data** | | Flow Mini | Flow Plus | Flow Pro | Smart Mini | Smart Plus | Smart Pro |
|---|---|---|---|---|---|---|---|
| Users | | 1 | 1 | 1 | 1 | 1 | 1 |
| Work Area | $m^2$ | 0-120 | 50-300 | 200-700 | 0-120 | 50-300 | 200-700 |
| Max. number of iFlex line outlets | n | 2 | 2 | 7 | 2 | 2 | 7 |
| Max. number of traditional line outlets | n | 4 | 10 | 25 | 4 | 10 | 25 |
| Farthest outlet distance | m | 30 | 30 | 40 | 30 | 30 | 40 |
| Integrated wireless | | NO | NO | NO | SI | SI | SI |
| Integrated silencer | | SI | SI | SI | SI | SI | SI |
| Touch interface + App | | NO | NO | NO | SI | SI | SI |
| **Dimensions** | | | | | | | |
| Container capacity | l | 8 | 18 | 18 | 8 | 18 | 18 |
| Diameter | cm | 30 | 30 | 30 | 30 | 30 | 30 |
| Filtering surface area | $cm^2$ | 4.000 | 8.500 | 8.500 | 8.500 | 8.500 | 8.500 |
| Inlet/outlet diameter | mm | 50 | 50 | 50 | 50 | 50 | 50 |
| Height | cm | 60 | 94 | 104 | 60 | 94 | 104 |
| Width | cm | 37 | 37 | 37 | 37 | 37 | 37 |
| Weight | Kg | 9 | 9,2 | 11,7 | 9.2 | 9,4 | 11,9 |
| **Technical performance data at 230V** | | | | | | | |
| Maximum airflow | $m^3/h$ | 187 | 187 | 170 | 187 | 187 | 170 |
| Vacuum pressure | $mmH_2O$ | 2.890 | 2.890 | 3.800 | 2.890 | 2.890 | 3.800 |
| Maximum noise level* | dB(A) | 61 | 61 | 66 | 61 | 61 | 66 |
| Suction power | Airwatt | 566 | 566 | 530 | 556 | 566 | 530 |
| **Electrical technical data** | | | | | | | |
| Motor power | W | 1250 | 1250 | 1450 | 1250 | 1250 | 1450 |
| Power supply | V | 220/240 | 220/240 | 220/240 | 220/240 | 220/240 | 220/240 |
| Power supply frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Current consumption | A | 5,9 | 5,9 | 6,5 | 5,9 | 5,9 | 6,5 |
| Motor thermal protection | | YES | YES | YES | YES | YES | YES |
| Auto shut-off protection | Sensing | NO | NO | NO | YES | YES | YES |
| Delayed fuse | A | 8 | 8 | 10 | 8 | 8 | 10 |
| Outlet power supply | Vdc | 5 | 5 | 5 | 5 | 5 | 5 |
| Electrical insulation rating | Class II | ⧈ | ⧈ | ⧈ | ⧈ | ⧈ | ⧈ |

(1) Noise level measured according to UNI EN ISO 3744

**IMPORTANT**
The FLOW models are not compatible with the wireless system, they only work with an electrical connection to the suction sockets.

## 2.3. Main accessories

These accessories are not included in the vacuum unit but are sold individually or contained within specific accessory kits.

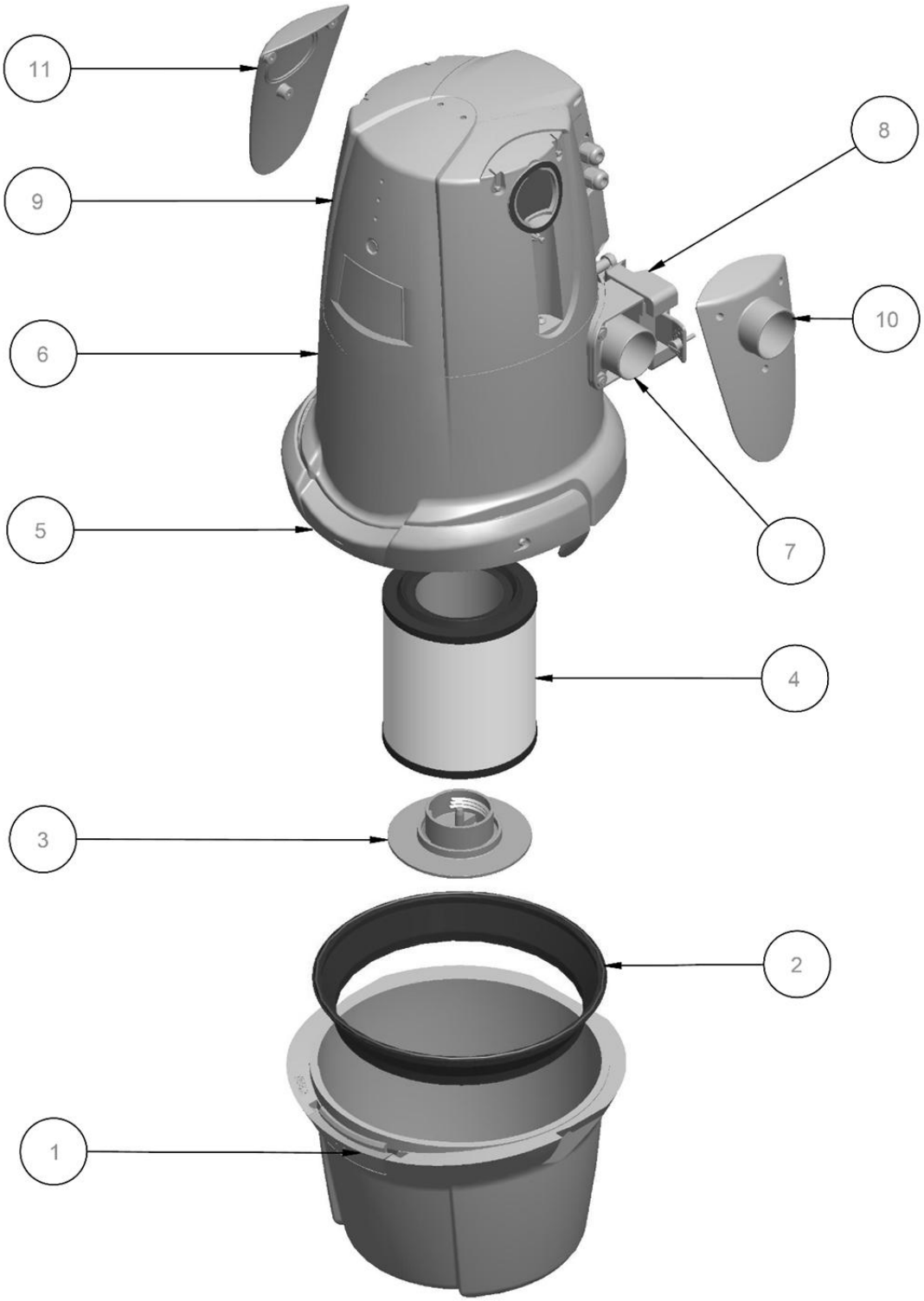
**Brava Basic or Wireless handle**
With its ergonomic grip, it allows you to use the various accessories connected to the telescopic arm or directy to it.
The Brava handle is also equipped with a regulation valve that allows you to reduce suction if necessary. The Wireless version allows to switch on and off by pressing the button.

**Flexible hose**
The flexible hose can be of various lengths. In traditional systems, the end of the hose is provided with a hose/socket coupling connector, while in iFlex systems, is provided with an hose end cup contained inside the iFlex piping.
For both system, the beginning of the hose is provided with and hose-cuff for the fast connection between hose and handle and, with the specific sleeve, to directly connect the accessories to the hose, for an encreased user friendly.
It is strongly recommended to use the hose with the sock cover, to protects the furniture from scratches during use, and also to eliminate the noise made by the normal use of the hose on the floor.

**Telescopic extension**
The aluminium notched telescopic extension is connected to the handle and to the other side are connected the various kind of brushes.
By pressing the ring, it can be adjusted to the desired length.

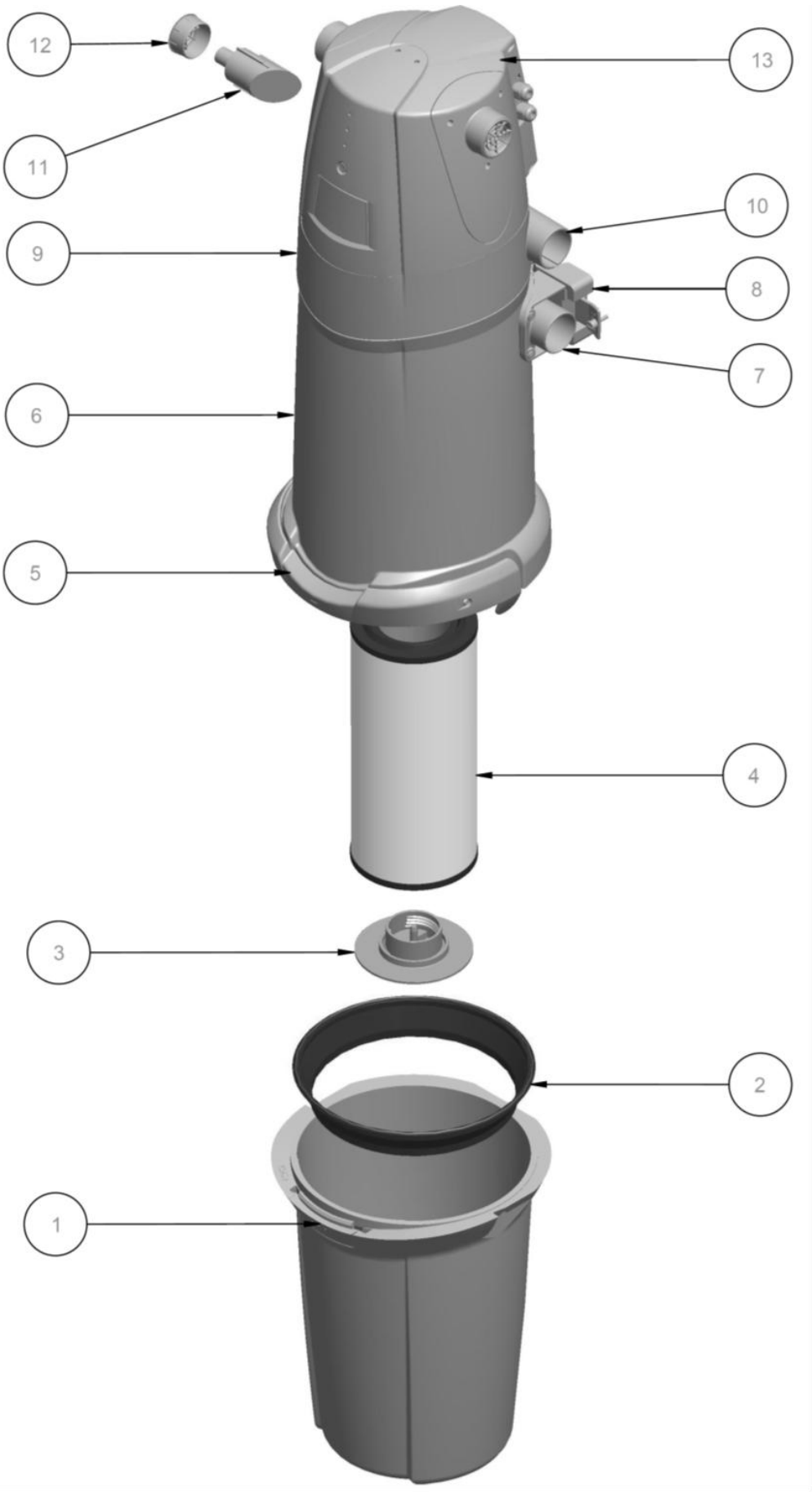
**Brushes and various accessories**
A wide range of accessories is available that can be connected at the end of the telescopic extention or directly on the handle, or directly to the hose using the specific connection sleeve (visit the website www.generaldaspirazione.com).

## 2.4. Flow Mini, Flow Plus, Smart Mini, Smart Plus units exploded view



| Pos | Component description | Models |
|---|---|---|
| 1 | DUST CONTAINER 8 LT. WITH BUTTON | Flow Mini - Smart Mini |
| 1 | DUST CONTAINER 18 LT. WITH BUTTON | Flow Plus - Smart Plus |
| 2 | INVERTED RED CONE | All |
| 3 | FILTER BLOCKING RING NUT WITH A PIVOT | All |
| 4 | SMALL POLYESTER FILTER | Flow Mini - Smart Mini |
| 4 | LARGE POLYESTER FILTER | Flow Plus - Smart Plus |
| 5 | HANDLE | All |
| 6 | SMALL CENTRAL STADIUM | Flow Mini - Smart Mini |
| 6 | LARGE CENTRAL STADIUM | Flow Plus - Smart Plus |
| 7 | HOOKING/INPUT REVERSIBLE | All |
| 8 | WALL BRACKET | All |
| 9 | HEAD STADIUM | All |
| 10 | LATERAL CARTER WITH EXPULSION | All |
| 11 | LATERAL CARTER WITHOUT EXPULSION | All |

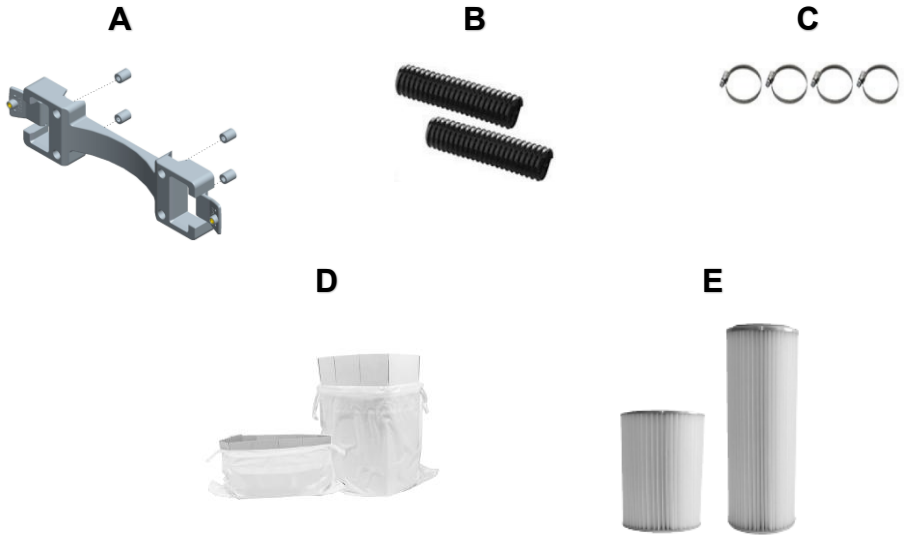
## 2.5. Flow Pro e Smart Pro units exploded view



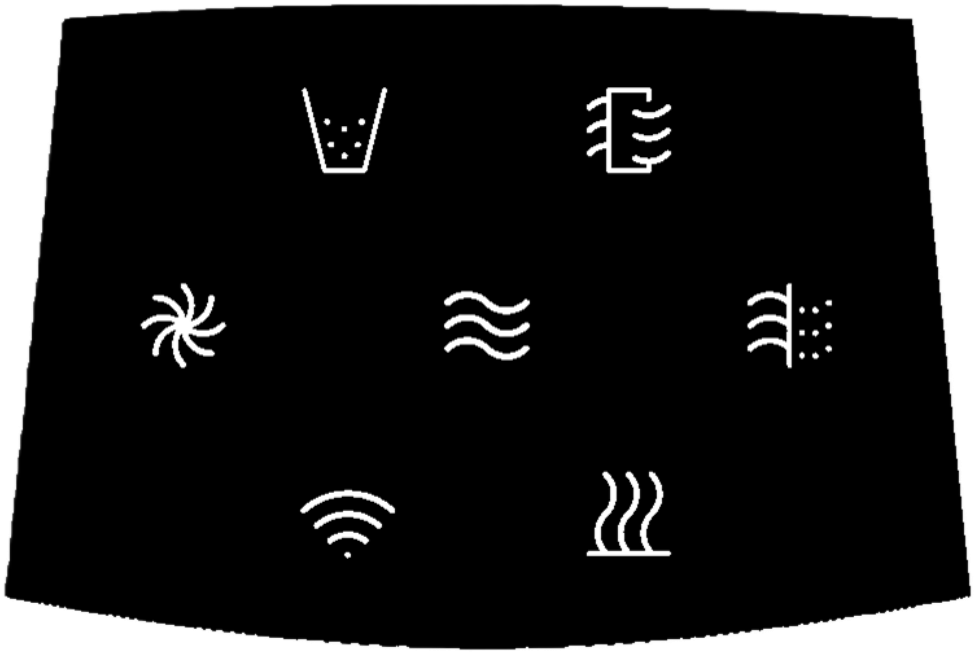
| Pos | Componet description |
|---|---|
| 1 | DUST CONTAINER 18 LT.  WITH BUTTON |
| 2 | INVERTED RED CONE |
| 3 | FILTER BLOCKING RING NUT WITH A PIVOT |
| 4 | LARGE POLYESTER FILTER |
| 5 | HANDLE |
| 6 | LARGE CENTRAL STADIUM |
| 7 | HOOKING/INPUT REVERSIBLE |
| 8 | WALL BRACKET |
| 9 | SPACER STADIUM |
| 10 | AIR EXPULSION |
| 11 | REVERSIBLE EXPULSION CAP |
| 12 | GRID |
| 13 | HEAD STADIUM |

## 2.6. Equipment included in the vacuum cleaner packaging

A. n.1 Wall bracket with 4 spacers, 2 security screws to avoid the unit disconnection, 4 wall plugs with screws for fixing
B. n. 2 flexible sleeve for inlet and outlet connection
C. n. 4 Metal hose clamps
D. n. 1 spare dust collection bag with 1 bag tensioner, replacement for all models
E. n. 1 spare filter only in Smart models



## 2.7. Smart interface description



The factory-set time parameters can be modified and customized according to your needs via the “GDA SMART CONTROL” App

After each maintenance or alarm signal, to switch on again the unit you need to give a new on impulse accordind to to kind of used system (wired or wireless)

**WiFi network connection**

- **Icon off:** If the unit is not connected to the Wi-Fi/APP network
- **Flashing icon:** during pairing between the unit and the APP or if the vacuum unit has lost connection to the Wi-Fi network
- **Icon on:** the vacuum unit is paired with the Wi-Fi/APP network

**Capacitive multifunction button / Stand-by**

- **Icon on:** the unit is in standby mode.
  Tapping the button allows to move between the various icons in the SMART interface. When you select an icon, it will flash.
  **Holding the finger on the capacitive button for 3 seconds the selected alarm will be resetted.**

**Dust container emptying alarm**

- **Icon on:** the set time for emptying the container has been reached. If maintenance and a reset are not performed within 2 hours of further working time, the unit will automatically switch off.
  A RESET will be required to restart the unit.

**Filter cleaning alarm**

- **Icon on:** the set time for ordinary cartridge filter maintenance has been reached. If maintenance and reset are not performed within 2 hours of further working time, the unit will automatically switch off.
  A RESET will be required to restart the unit.

**Obstructed aspiration alarm**

- **Icon on:** The unit has operated in a clogged condition. The unit can be restarted with a new enable signal, and the alarm will automatically reset. If the unit has operated in a clogged condition for three consecutive times, the unit will lock.
  A resest will be required to restart the unit.
- **Flashing icon:** The "Clogged Suction" function has been disabled via the GDA SMART CONTROL APP, if for example you need to use the total depression with plugged unit for more than 10 seconds
  It will automatically reactivate after 10 minutes.

**Thermal protection alarm**

- **Icon on:** The engine temperature has reached its maximum value and the unit is locked; wait the engine cooling for about 30 min and reset the alarm.
  A RESET will be required to restart the unit.
  If the problem persist or the alarm does not reset, refer to the Faults/Causes/Solutions section.

**Maximum number of switching on / maximum working time.**

- **Flashing icon:** “Maximum number of switching on” alarm. The number of on-off cycles exceeded 8 times in one minute and the unit is locked.
  A RESET will be required to restart the unit.
- **Icon on:** “Maximum working time” alarm. The maximum working continuously time set has been reached and the unit is blocked.
  A RESET will be required to restart the unit.

## 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.
Do not use cutters for removing of the package
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 you find any damage to the equipment, you must report it immediately to one of the outlets where you purchased the unit:

- The selling point
- The installator
- Or contact the manufacturer's Customer Service

# 4. Installation of vacuum 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.

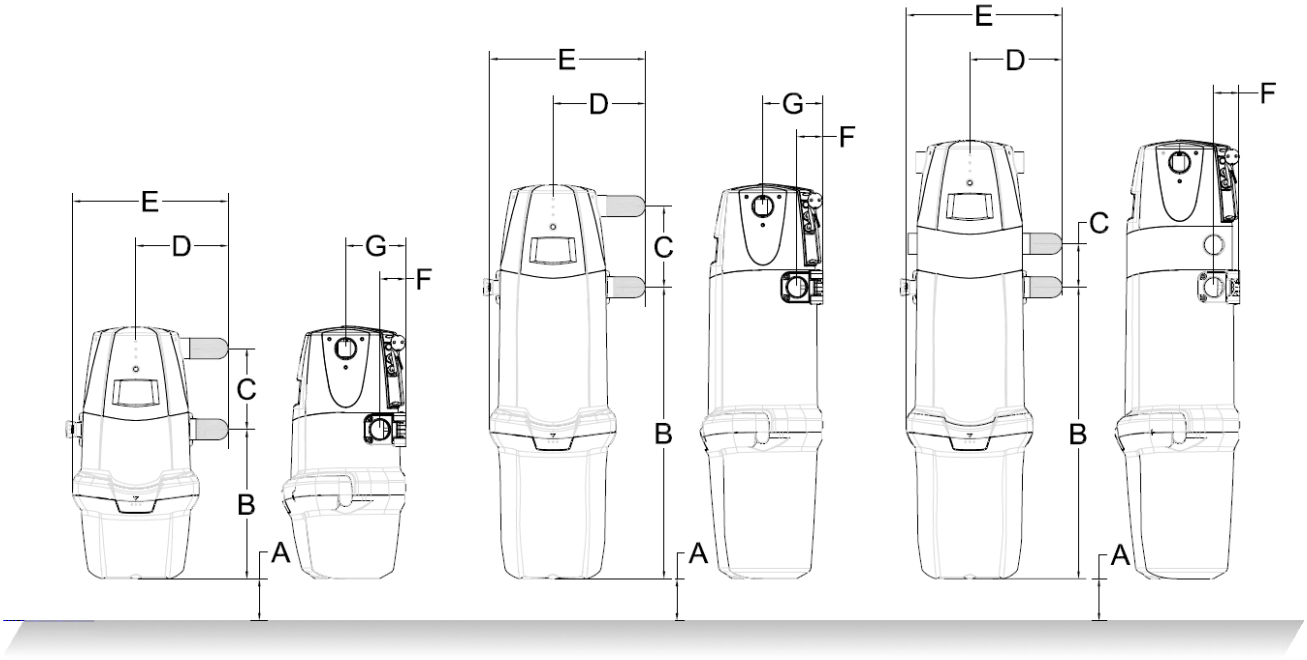
## 4.1. Choice of installation position for main vacuum unit

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. Indicative dimensions




| Dimension and technical data | Flow Mini | Flow Plus | Flow Pro | Smart Mini | Smart Plus | Smart Pro |
|---|---|---|---|---|---|---|
| Height (mm) | 600 | 940 | 1041 | 600 | 940 | 1041 |
| Diameter (mm) | 300 | 300 | 300 | 300 | 300 | 300 |
| A – minimun (mm) | 40 | 40 | 40 | 40 | 40 | 40 |
| B (mm) | 357 | 695 | 695 | 357 | 695 | 695 |
| C (mm) | 194 | 194 | 104 | 194 | 194 | 104 |
| D (mm) | 210 | 210 | 210 | 210 | 210 | 210 |
| E (mm) | 370 | 370 | 370 | 370 | 370 | 370 |
| F (mm) | 61 | 61 | 61 | 61 | 61 | 61 |
| G (mm) | 143 | 143 | 61 | 143 | 143 | 61 |

### 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:

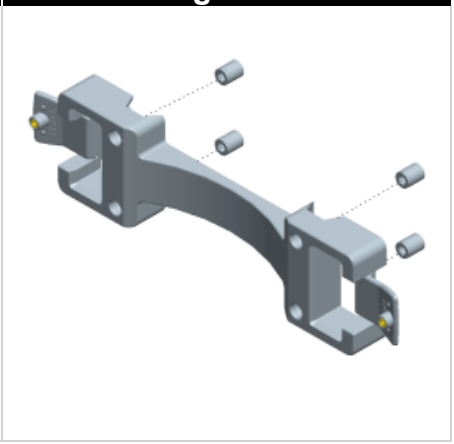
1. Provide a 230 V SHUKO power supply socket.

2. Check that the position does not interfere with the passage of electrical cables inside the wall and check the correct positioning of the inlet and outlet (Fig.1).
3. Fix the wall bracket to the wall in the marked position (Fig. 2) using the supplied wall plugs, using the support cylinders between the bracket and the wall (not necessary for installation in the enclosure). For installation on plasterboard walls, use appropriate wall plugs.

**Figura 1**


**Mini-Plus models** **Pro models**

**Figura 2**

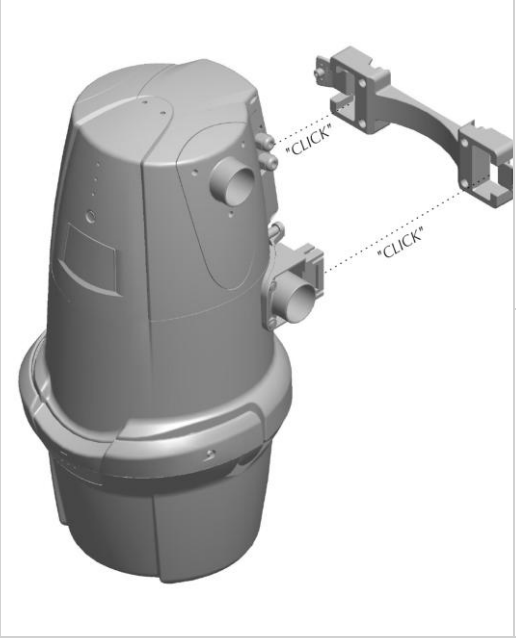
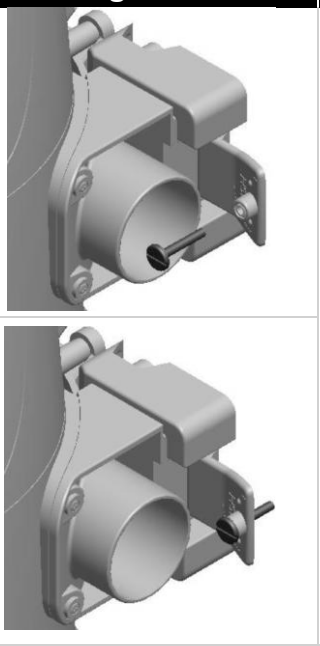


4. Fix the main vacuum unit, inserting the rectangular projections frontally into the corresponding recesses in the wall bracket, and applying pressure until they click in. (Fig.3)

5. Tighten the appropriate safety screws to the wall bracket (Fig.4)

6. Connect the system pipe to the vacuum unit with the appropriate sleeve, tightening the metal clamps. Both the clamps and the dedicated sleeve are included as standard. (Fig.5)

7. Connect the main vacuum unit to the air expulsion pipe. (Fig.5)

| Figure 3 | Figure 4 | Figure 5 |
|---|---|---|
|   |  |  |

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

8. Connect the wires from the sockets, if present, to the vacuum unit's two-wires.
   For wireless systems, this connection is not required.

9. Insert the power plug into the electrical outlet

10. Perfom 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.
- DO NOT power the vacuum unit until the completion of sockets receptacles.
- **Provide adequate overcurrent protection upstream of the power supply line**

If you find any difficulty to control the unit throught the Brava wireless handle, simply install the wireless receiver card outside the unit. In this case, using the wireless receiver card holder kit, code 0102344.
See the instructions in the manual included with the card holder kit.
**This procedure must be performed by technical personnel.**

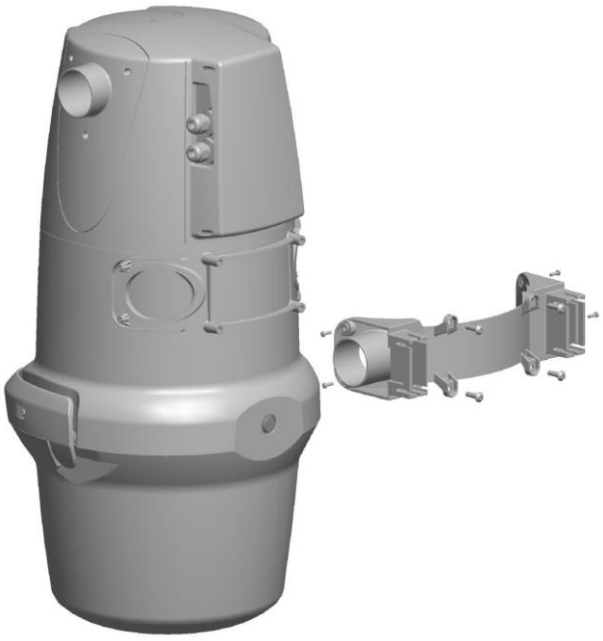
### 4.4. Reversibility of suction and outlet connections

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 pipe connection you need to:**

1. Unscrew the screws and remove the reversible support/inlet.
2. Rotate the reversible support/inlet through 180°.
3. Replace the reversible support/inlet in the new position.



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

| | |
|---|---|
| **Models Flow Mini - Flow Plus**<br>**Smart Mini - Smart Plus:**<br>Remove the screws and reverse due Covers Side (with and without the expulsion) |  |
| **Models Flow Pro e Smart Pro:**<br>Remove the grid on the stadium spacer and with a pliers remove the expulsion cap.<br>Place them in the same order on the opposite side of the expulsion. |  |

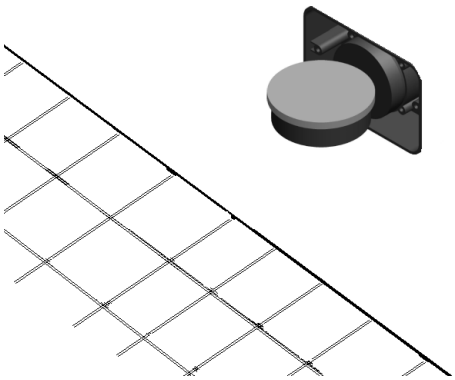
### 4.5. How to made the test

The test has three phases:

1. with the vacuum meter you check depression directly to the unit;
2. connect the unit to main pipe;
3. remove the socket frame cover and verify that the vacuum reading is the same as the first reading with the vacuum meter connected directly to the unit..

The test allows to ensure that the system is perfectly sealed or, it will be possible to locate the place where it is damaged simply hearing where the leaks make noise.

**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



# 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. Switching ON/OFF

The units can be switched on/off in three different ways:

a. By inserting/removing the hose in the socket.
b. Pressing the button of the Brava Wireless handle for both wireless or wired plants (only with SMART models).
c. Through the GDA SMART CONTROL application (only with SMART models).

It is possible also to mix the three systems, for example in a plant with wired sockets, you can use the Brava Wireless handle: the the firts switching on happen by inserting the hose into the socket and the others switching off/on can be controlled through the Brava Wireless handle.

In iFlex systems, the unit automatically switch on when the hose lock lever is pulled out and switch off automatically when the socket door is closed.
As above, in a mixed system, subsequents off/on switching can be controlled via the Brava Wireless handle.

## 5.2. Programming/reset the Brava Wireless Handle

In order to give the command to start and stop must be programmed the Brava Wireless Handle with the unit. It’s possible to program a maximum of 16 handles.
For programming, refer to the Use and Maintenance manual of the Brava Wireless Handle attached to its packaging.
If you need to reset the unit's memories, you will need to reprogram all the Brava Wireless handles.
For the reset procedure,refer to the Use and Maintenance manual of the handle attached to its packaging.

### 5.3. Default settings for maintenance/alarm reports

The SMART series units are equipped with an interface that manages maintenance, alarm, and fault notifications. The table below shows the factory default times for notification.
The user can modify these values via the GDA Smart Control application within the limits indicated in the table.

| Programmamble Parameters | | Hours of operation | | |
|---|---|---|---|---|
| | | Minimun | Default | Maximum |
| Filter Cartridge Cleaning (Model Smart Mini) | hours | 1 | 20 | 60 |
| Filter Cartridge Cleaning (Models Smart Plus and Smart Pro) | hours | 1 | 30 | 60 |
| Dust Container Emptyng 8l (Models Smart Mini) | hours | 1 | 10 | 60 |
| Dust Container Emptyng 18l (Models Smart Plus e Smart Pro) | hours | 1 | 20 | 60 |
| Operation continuous (Entire Smart range) | Min | 10 | 45 | 600 |
| Sensig reading time | Sec | 10 | 10 | 20 |

### 5.4. GDA Smart Control App (only for Smart Series)

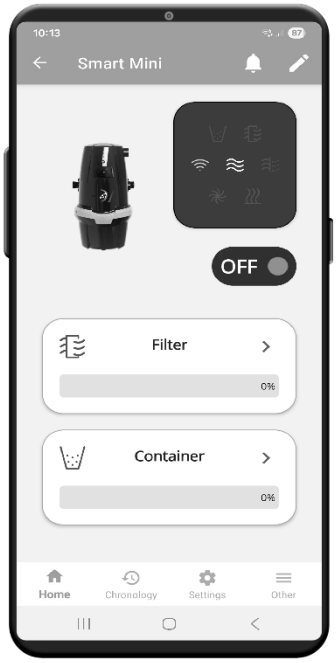
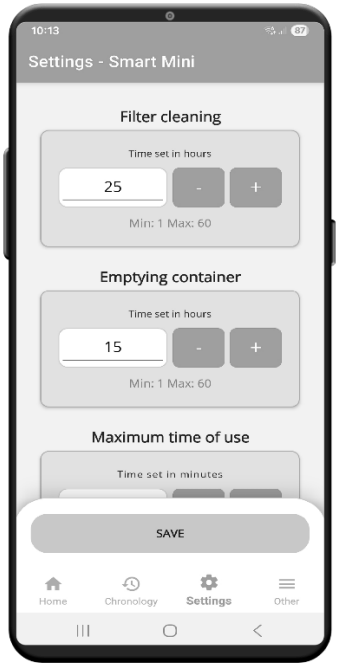
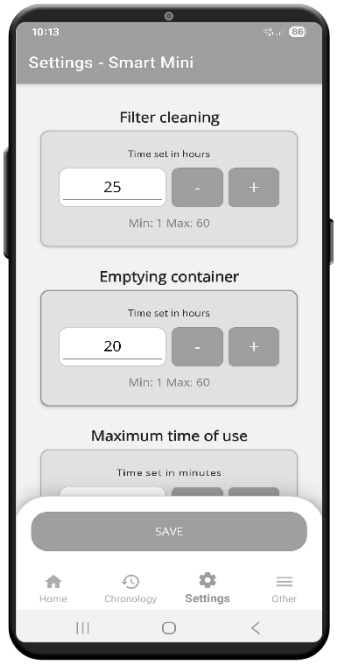
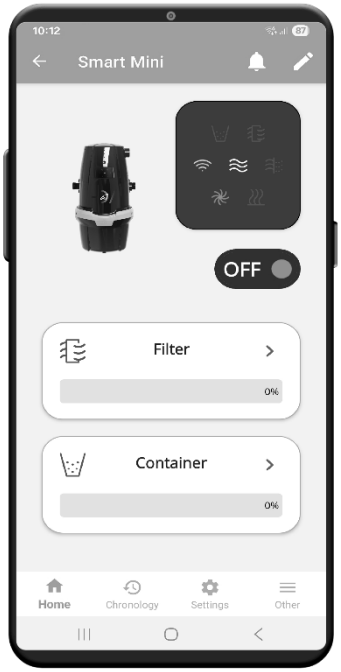
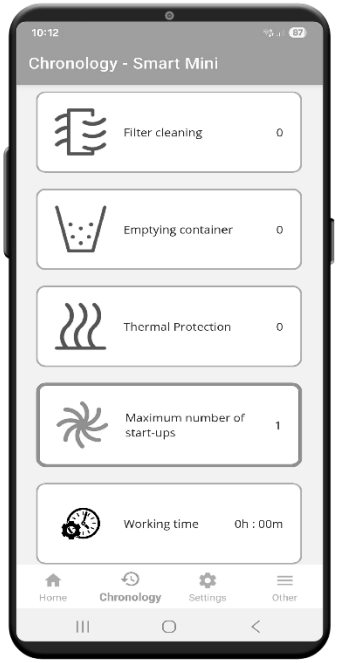
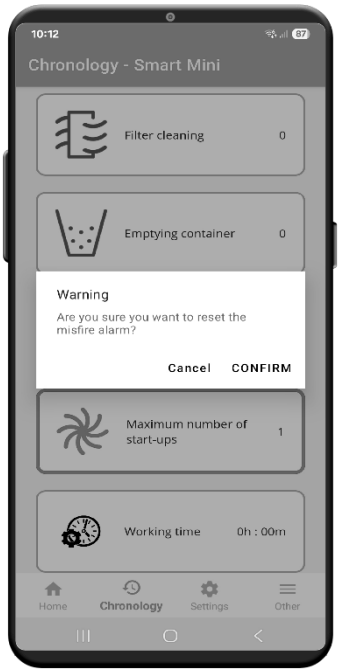
Using the GDA Smart Control App it is possible to manage the functions of the unit:

- View the status of vacuum units
- Receive notifications regarding ordinary maintenance and alarms
- View guides and instructions for unit usage
- Customize the maintenance parameters timing
- Switching ON/OFF the unit through the app
- Resetting alerts and alarms
- View your report history
- System Testing (Autosensing)

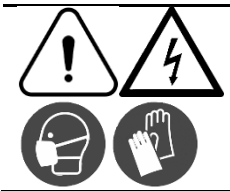
Download the app on your mobile device to create an account and connect the unit to the Wi-Fi network by following the instructions in the app.

### 5.4.1. GDA Smart Control APP use

Using the App through smartphone, it is possible to customize the unit's notifications according to specific needs and reset any alarm and fault notifications.

| **Change of the reporting times for ordinary maintenance** | | |
|---|---|---|
| 1. Open the GDA APP and select the unit | 2. Go to “Settings” | 3. Change the presetted timing and press SAVE |
|  |  |  |
| **How to reset alarms and faults:** | | |
| 1. The alarm will be displayed, press “Chronology” | 2. In the history, select the highlighted alarm | 3. Confirm alarm RESET |
|  |  |  |

## 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.

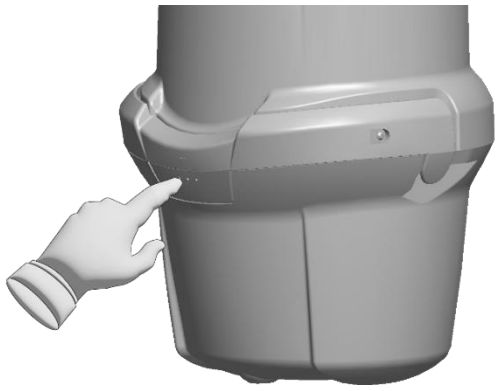
**Important**
For versions with a user interface, the machine indicates when the dust container must be emptied or the filter cleaned after a time interval that is programmed by the user.

### 6.1. Emptying the dust container

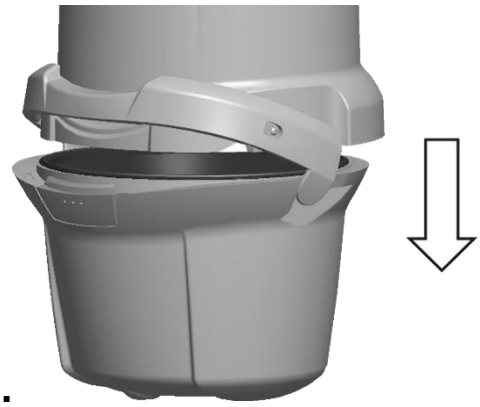
- The dust container must be emptied regularly every 3–6 months, depending on frequency of use and acquired experience.
- The dust container must be washed with water at least once a year. Dry it thoroughly before replacing it.

**HOW TO PROCEED:**

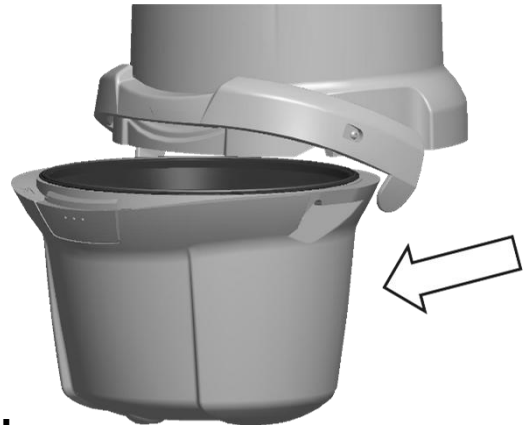
1. Make sure the unit is not in operation.
2. Open the container by pressing the central button (fig. A) to unlock the handle and automatically open the container downwards (fig. B).
3. Remove the dust container (C) from the unit, pulling it towards yourself.



A.



B.



C.

4. Remove the red cone with gasket (fig. D)

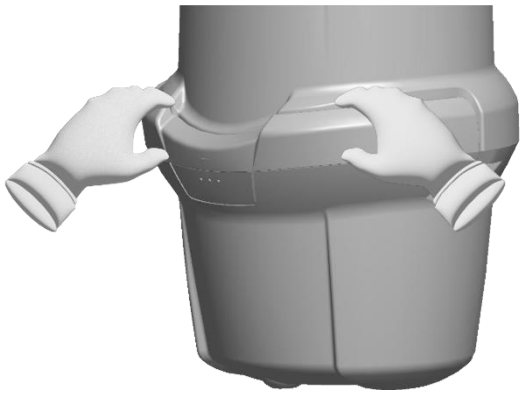
5. Replace the full bag with a new one, inserting the carton bag-tensioner inside it. Place the red cone with gasket one on top of the container.

6. Check the condition of the polyester filter, and clean it if necessary (cap. 6.2).

7. Place the dust container back into the side hooks of the handle and close it, firstly pushing downthe handle and then loking with light pressure with both hands on the sides of the central button (fig. E).

**D.**

**E.**



**Importante**
The red cone with the gasket should not be discarded.
It is necessary for sealing, otherwise the vacuum cleaner will not suction. Reassemble it correctly over the dust container.

8. **Reset function for Smart series only.**

Only Smart units signals maintenance and once is completed, the alarm must be reset as following:

Press the central button ≈ until positioning on the specific icon which will start flashing, keep pressed the button ≈ for about 3 seconds until the icon switch off.
Alternatively, reset the alarm via the GDA Smart Control APP.

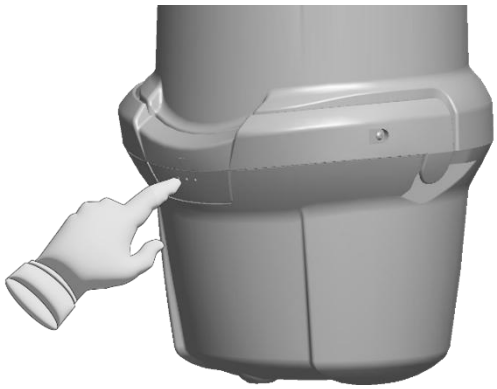
### 6.2. Cleaning Filter

The unit has a polyester cartridge filter that filters dust, protecting the vacuum motor. It is important to make monthly checks on the condition of this filter.
È importante verificare con regolarità mensile le condizioni del filtro.
**It is suggested to keep a spare filter for the ordinary maintenance.**

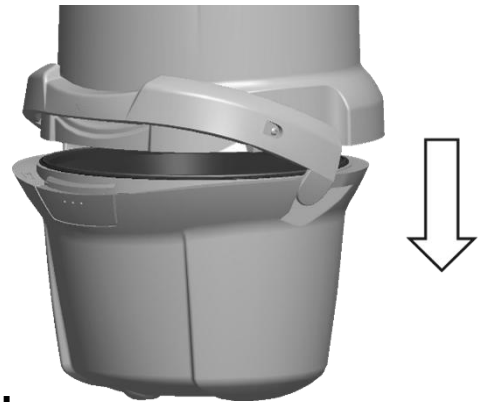
**HOW TO PROCEED:**

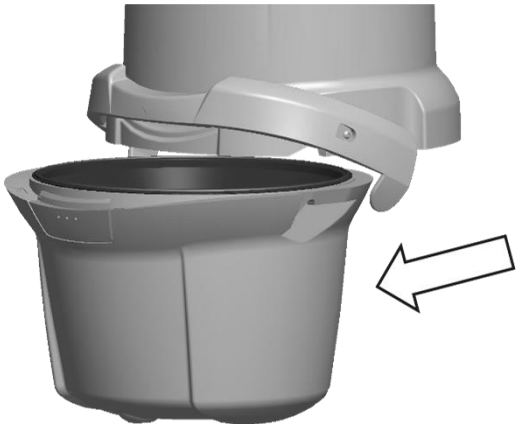
1. Make sure the unit is not operating.
2. Open the container by pressing the central button (fig. A) to unlock the handle and automatically open the container downwards (fig. B).
3. Remove the dust container (fig. C) from the unit, pulling it towards you.
4. Unscrew and remove the filter locking ring then carefully remove the filter (fig. D-E).
5. If you have a spare filter, install it in place of the dirty one, **and screwing it until it is completely locked in both axial and circular positions. (Do not overtighten.)**

**A.**



**B.**





**C.**

**D.**

**E.**

5. Place the dust container back into the side hooks of the handle and close it, firstly pushing downthe handle and then loking with light pressure with both hands on the sides of the central button.
   **(Fig. E - Previous chapter 6.1 point 7)**

6. **Reset function for Smart series only.**
   Only Smart units signals maintenance and once is completed, the alarm must be reset as following:

   Press the central button ≈ until positioning on the specific icon which will start flashing, keep pressed the button ≈ for about 3 seconds until the icon switch off.
   Alternatively, reset the alarm via the GDA Smart Control APP.
7. Use the system with the corner nozzle to clean between the folds of the dirty filter and, if necessary, wash it with water.
8. If you do not have a replacement filter, we suggest to remove with a little broom the main dust, being careful not damage the filter fabric and wearing a mask to protect your respiratory tract from inhaling harmful dusts, then wash the filter with water and let it dry completely before reassembling it.

## Important:

- Never use the unit without the filter.
- The washed filter must be completely dry before use it again.
- Do not throw the red cone with gasket 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 vacuum power of the system ensures that these are kept constantly clean.
- **Do not use the unit without filter.**

### 6.3. Cleaning the breaker vacuum valve (Flow Pro model only)

The Flow Pro model is equipped with a mechanical vacuum breaker valve that activates if the unit accidentally works with blocked aspiration.
This valve is located in the dust inlet connection on the opposite side to where the connection to the pipe is made.
You can check that it's working properly by starting the unit without inserting the hose into the socket or by plugging the aspiration. In this case, the valve has to open itself.
We recommend checking and cleaning it every 6 months of use. To clean, simply remove the three screws holding the cover in place, remove the spring and cap, and clean the spring. Then reassemble everything in the correct order.

### 6.4. Maintencance of accessories

**Brushes and various accessories:**
It is recommended to clean the accessories around the bristles, wheels, couplings, and rollers, where coarse dust or hair, can get stuck
Is suggested to clean them after each use.
Plastic parts can be cleaned using cloths slightly wet with non-aggressive detergents.
Proper maintenance and cleaning of accessories will improve both efficiency and longevity.

**Sock cover:**
If the working hose has a sock, it is possible to remove it and proceed with washing, even in the washing machine at low temperatures.

**Brava Wireless Handle:**
Make sure the two AA batteries are charged. When they begin to run low, the wireless signal range will decrease.
Replace them as indicated in the supplied instructions.

**Liquid Aspirator:**
Simply empty the container after use, or if the floater reaches the maximum level, wash it with non-aggressive detergents.
If using the ash vacuum filter, clean it after use.

# 7. Safety Components

## 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.
The fuse is integrated into the power board.

**Caution**
The fuse replacement is an operation that only a service centre can perform.

## 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 accidentals start (only in the Smart Series)

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 (only in the Smart Series)

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

## 8. Faults, causes, solutions

| Segnalation | Causes | Solutions |
|---|---|---|
| Emptying container  | • The presetted time has been reached | ➢ Perform the operations described in chapter 6.1 |
| Cleaning filter  | • The presetted time has been reached | ➢ Perform the operations described in chapter 6.2 |
| Thermal protection  | • The unit operated for a while with all the sockets closed<br>• The plant is obstructed<br>• Dirty filter, completely clogged<br>• Engine fault | ➢ Clean the filter<br>➢ Make sure there are no obstructions in the sockets and air exhaust<br>➢ Check there is no short circuit in the socket wires or a broken microswitch<br>➢ Wait for the motor cooling down to restart (about 30 minutes)<br>➢ If the alarm does not reset, contact technical support. |
| Continuos operation  | • The maximum setted time of continuous operation of the unit has been exceeded<br>• Short circuit in the socket wires<br>• It wasn't turned off the system with the Wireless Brava Handle and there are leaks in the plant | ➢ Check that the value has not been setted too low by mistake<br>➢ Check there is no short circuit in the socket wires or a broken microswitch<br>➢ Reset the alarm |
| Maximum number of starts  | • The maximum number of on/off cycles in one minute has been reached.<br>• False contact on the socket line, there is probably a fault in the automatic microswitch of the socket | ➢ Replace the socket<br>➢ Reset the alarm |

| Segnalation | Causes | Solutions |
|---|---|---|
| Obstructed suction  | • The unit operated for more than 10 seconds with all sockets closed<br>• The plant is obstructed<br>• Dirty filter, completely clogged<br>• Abnormal motor absorption | ➢ Check there is no short circuit in the socket wires or a broken microswitch<br>➢ Check whether the problem occurs in all socket or just some of them. Make sure the plant is free.<br>➢ Make the filter cleaning<br>➢ Reset the alarm<br>➢ If the alarm persist, contact technical support. |
| Missing APP connection ICON OFF  | • Wireless network login credentials changed/incorrect<br>• Weak or no wireless signal<br>• No internet connection<br>• Smart Power Board failure | ➢ Restore internet connection<br>➢ Re-associate the unit using the wizard<br>➢ Contact technical support |
| Low suction power | • Leak in the plant<br>• Dust container not installed correctly<br>• Dirty filter, completely clogged<br>• Obstructed plant<br>• Unit not properly installed<br>• Engine fault | ➢ Check the correct installation of the unit on the plant<br>➢ Check that the container is properly installed, with its red cone with gasket<br>➢ Perform an autosensing test with all sockets closed and contact technical support telling the value<br>➢ Carry out a plant vacuum test<br>➢ Contact technical support |
| The unit doesn't start | • No power<br>• Faulty sockets or sockets wires faulty<br>• Brava Wireless batteries dead<br>• Brava wireless handle damage<br>• Presence of faults that make no possible the unit operation | ➢ Make sure the unit is in Stand-by<br>➢ Try to turn it on via the APP (only for Smart series)<br>➢ Replace the AA batteries in the handle and, of the transmitter card if defectives.<br>➢ Contact technical support |

## 9. Repairs

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 Flow Models

# EU DECLARATION OF CONFORMITY

THE MANUFACTURER

## GENERAL D'ASPIRAZIONE di Bianchi Claudia & C. sas

Del Lavoro Street 9/11 - 47030 San Mauro Pascoli FC- Italia
Tel.+39 0541 931012

**DECLARES THAT THE DEVICE**

| | |
|---|---|
| NAME COMMERCIAL | **RESIDENTIAL VACUUM CONTROL UNIT** |
| TYPE | **Flow** |
| MODEL | **Flow Pro** |
| VARIANTS | **Flow Mini – Flow Plus** |
| SERIAL NUMBER | **-** |
| GENERIC NAME | **RESIDENTIAL VACUUM UNITS** |
| INTENDED USE/FUNCTION | **Central vacuum system for residential use** |
| YEAR OF MANUFACTURE | **2025** |

Provided that it is installed "properly", maintained regularly, used in accordance with its intended use and the instruction manual provided by the manufacturer, it complies with the relevant European Union harmonisation legislation and, in particular:

| | |
|---|---|
| 2014/30/EU | EMC - ELECTROMAGNETIC COMPATIBILITY DIRECTIVE |
| 2014/35/EU | LVD - LOW VOLTAGE DIRECTIVE |
| 2011/65/EU | RoHS DIRECTIVE DIRECTIVE ON THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT |

Main requirements and/or reference standards used

| | | |
|---|---|---|
| 2014/30/EU | EN IEC 55014-1:2021 | EN 61000-3-2:2013 + A1:2021 |
| | EN IEC 55014-2:2021 | EN 61000-3-3:2013 + A1:2020 + A2:2022 |
| | EN 62233:2008 | |
| 2014/35/EU | EN 60335-1:2012 + A11:2014 + A13:2017 + A1/A2/A14:2019 + A15:2021 | |
| | EN 60335-2-2:2010 + A11:2012 + A1:2013 | |
| 2011/65/EU | EN IEC 63000:2018 | |

This declaration of conformity is issued under the sole responsibility of the manufacturer.

**General D'Aspirazione di Bianchi Claudia & C. sas**

*Legal representative*

San Mauro Pascoli, May 22, 2025

## 12. Declaration of EC conformity Smart Models

# EU DECLARATION OF CONFORMITY

THE MANUFACTURER

## GENERAL D'ASPIRAZIONE di Bianchi Claudia & C. sas

Del Lavoro Street 9/11 - 47030 San Mauro Pascoli FC- Italia
Tel.+39 0541 931012

**DECLARES THAT THE DEVICE**

| | |
|---|---|
| NAME COMMERCIAL | **RESIDENTIAL VACUUM CONTROL UNIT** |
| TYPE | **Smart** |
| MODEL | **Smart Pro** |
| VARIANTS | **Smart Mini – Smart Plus** |
| SERIAL NUMBER | **-** |
| GENERIC NAME | **RESIDENTIAL VACUUM UNITS** |
| INTENDED USE/FUNCTION | **Central vacuum system for residential use** |
| YEAR OF MANUFACTURE | **2025** |

Provided that it is installed "properly", maintained regularly, used in accordance with its intended use and the instruction manual provided by the manufacturer, it complies with the relevant European Union harmonisation legislation and, in particular:

| | |
|---|---|
| 2014/53/EU | RED - RADIO EQUIPMENT DIRECTIVE |
| 2014/30/EU | EMC - ELECTROMAGNETIC COMPATIBILITY DIRECTIVE |
| 2014/35/EU | LVD - LOW VOLTAGE DIRECTIVE |
| 2011/65/EU | RoHS DIRECTIVE DIRECTIVE ON THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT |

Main requirements and/or reference standards used

| | | |
|---|---|---|
| 2014/53/EU | ETSI EN 300 220-2 V3.1.1 | |
| 2014/30/EU | EN IEC 55014-1:2021 | EN 61000-3-2:2013 + A1:2021 |
| | EN IEC 55014-2:2021 | EN 61000-3-3:2013 + A1:2020 + A2:2022 |
| 2014/35/EU | EN 62233:2008 | |
| | EN 60335-1:2012 + A11:2014 + A13:2017 + A1/A2/A14:2019 + A15:2021 | |
| | EN 60335-2-2:2010 + A11:2012 + A1:2013 | |
| 2011/65/EU | EN IEC 63000:2018 | |

This declaration of conformity is issued under the sole responsibility of the manufacturer.

**General D'Aspirazione di Bianchi Claudia & C. sas**

*Legal representative*

San Mauro Pascoli, May 22, 2025

**General D’Aspirazione s.a.s.**

generaldaspirazione.com
+ 39 0541 931012

Del Lavoro Street, 9/11 - San Mauro Pascoli - 47030 (FC) Italy