SISTEM-AIR
SINCE 1993
CENTRAL VACUUM SYSTEMS
By Tecnoplus s.r.l.

sistemair.com

INDUSTRIAL PROFESSIONAL

CATALOGUE 2019

CENTRAL VACUUM SYSTEMS

Sistem Air

since 1993 Group

sistemair.com

AN EASY AND POWERFUL SYSTEM

THE INDUSTRIAL ACCORDING TO SISTEM AIR

PLANNING

tailored to
customer needs

1

PIPE NETWORK

into chase or exposed
in PVC, steel or Atex standard

2

VACUUM UNIT

monobloc or
modular system

3

FLEXIBILE HOSE

up to 20 m with
Rollflex hose reel

4

Only advantages:

- Industrial installations have no limits: the system is **modular** and can be adapted to any specific situation.
- Optimisation of operating **energy consumption**.
- **Reduces maintenance costs**. Allows quiet planning of budget without any unexpected events.
- Flexible use. From cleaning to **reuse of waste materials**.

SAVING

That means time, money
and unexpected costs.
It' s a planned choice
that avoids risks of global
maintenance costs.

EFFICIENCY

Reduces the costs of "non-quality".
Increases the perfection of the
product and, on request, collects
manufacturing waste. Materials
become resources for
the company again.

VISION

Integrate the central vacuum system **during planning process**,
allows to optimise costs and enjoy economic benefits right from the start.

DESIGNED TO LAST OVER TIME

HIGHLIGHTS

HYGIENIC REGULATIONS TO BE RESPECTED

The system doesn't reintroduce vacuumed air. It can be used in environments with hygienic-sanitary conditions to be respected.

FAST CLEANING TIMES

The lightness and convenience of the system reduces time of use.

VACUUM OF HAZARDOUS MATERIALS

It can also be built for the vacuuming of incandescent, abrasive and potentially explosive materials.

LARGE SURFACES AND MORE OPERATORS

Several vacuum units can be connected to obtain the necessary power and simultaneous use by multiple workers.

SMALL SPACES WITH LIMITED ACCESS

Central vacuum system uses only the hose. This is the solution where a wheeled vacuum cleaner or a sweeper cannot reach.

CONTINUOUS USE

Motors are made to work non-stop, with no need for extra maintenance beyond ordinary ones.

AN EASY AND POWERFUL SYSTEM

HOW TO PLAN AN INDUSTRIAL SYSTEM

The information needed for correct planning of installation is essential and easy to take:

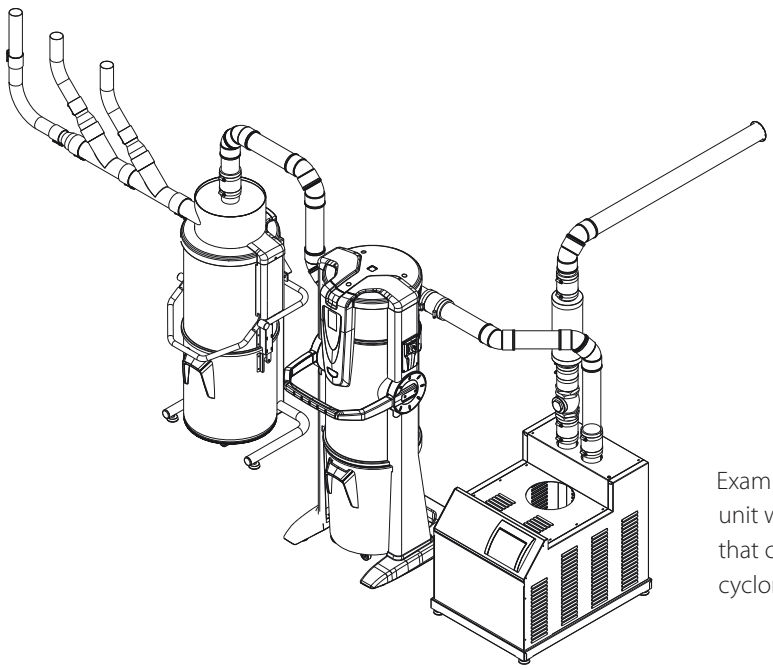
- Surface and destination of the building where the system is to be installed
- Number of users who will have to use the system at the same time
- Number of simultaneous users on every level
- Choice of the length of the flexible hose which will be used for cleaning
- Plan of the building
- Position where the central vacuum unit will be installed

After having collected all this information, it is possible to proceed in pipe network dimensioning, in choosing the position of the vacuum inlets (in accordance with what is indicated in the following chapters).

How to install pipe network

A system is the most efficient when a pipe run is short and as regular as possible (avoiding unnecessary changes of direction). In particular:
- If possible, vertical rising pipe must be made in the central position of the building.
- Pipe network can be indifferently positioned in the floor, wall or false ceiling.

In the predisposition of installations on large surfaces, it's preferable to make different vertical rising pipes, which will be connected by a vacuum collector leading to the central vacuum unit according to different building zones or levels.

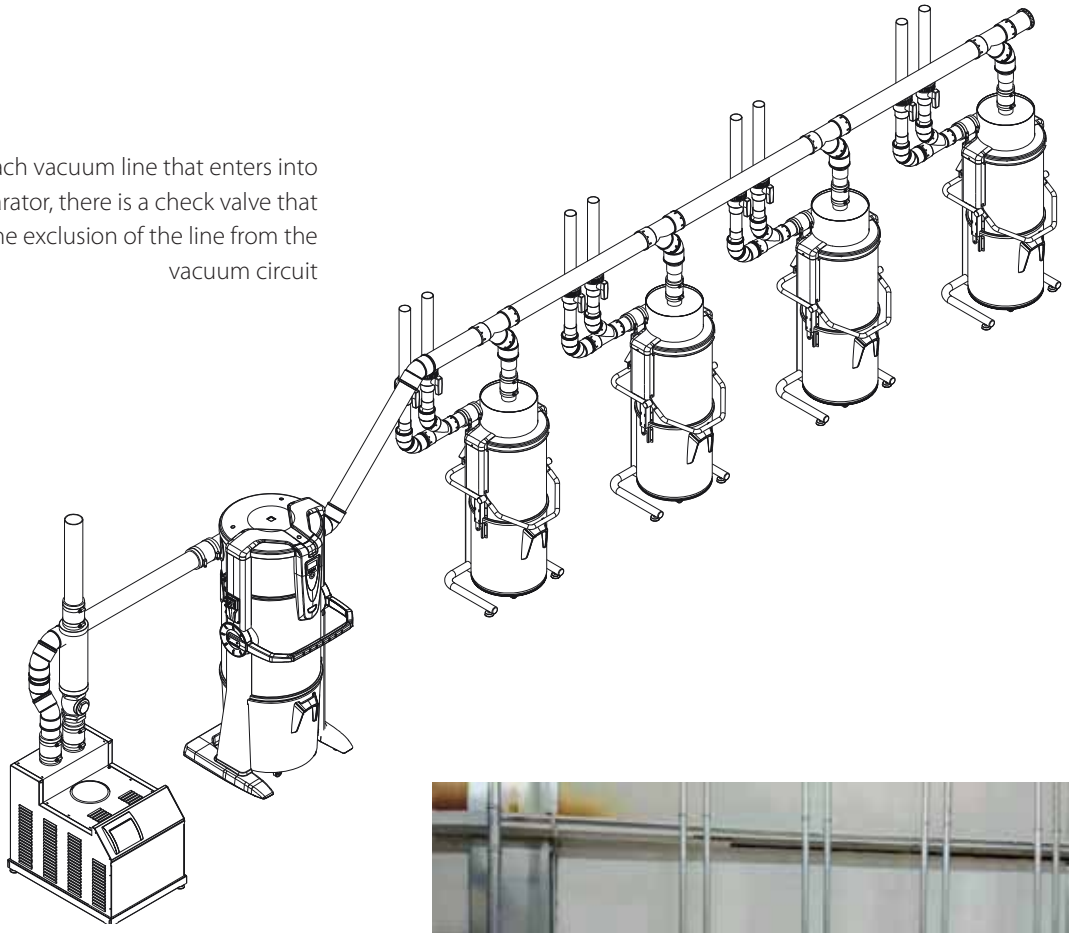


Example of central vacuum unit with three-line collector that converge in a Turbix cyclonic pre-separator

DESIGNED TO LAST OVER TIME

It will be possible to predispose a manual section valve which will separate every vertical rising pipe from the others, simplifying maintenance if that part of the installation is not used.
To maintain a good speed of the vacuumed air inside the horizontal pipe network, the length must be minimised, especially when it's made with pipes of 80/100 mm in diameter: in this case, when the number of active simultaneous users is lower than the maximum expected, the slow-down of the air could cause pipe clogging over time. Such a line must be equipped with an inspection point made by inserting a derivation with a screw cap fixed at the end.

For each vacuum line that enters into pre-separator, there is a check valve that allows the exclusion of the line from the vacuum circuit



From the concept to the system... realized

AN EASY AND POWERFUL SYSTEM

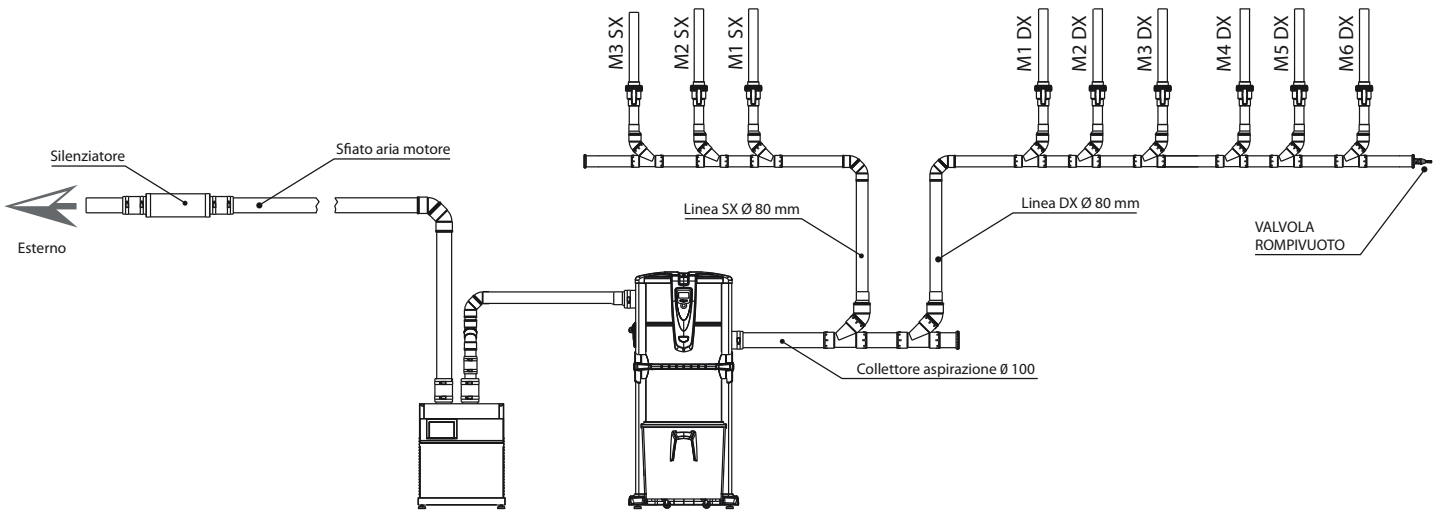
DIMENSIONING OF THE PIPE NETWORK

The diameters of single stretches of pipe network must be dimensioned according to the following scheme:

Ø 50 mm	– 1 user	(light blue)
Ø 63 mm	– 2 users operators	(orange)
Ø 80 mm	– 3 users operators	(yellow)
Ø 100 mm	– 4 users operators	(green)

Special situations

In installations with blowing motors that manage three or more users at the same time, a breaker valve can be installed to facilitate internal cleaning of the pipes, in an inspectional stretch of pipe network. This permits stronger air flow in switching off phase of the installation (the breaker valve installed on board of the separator of must be closed).

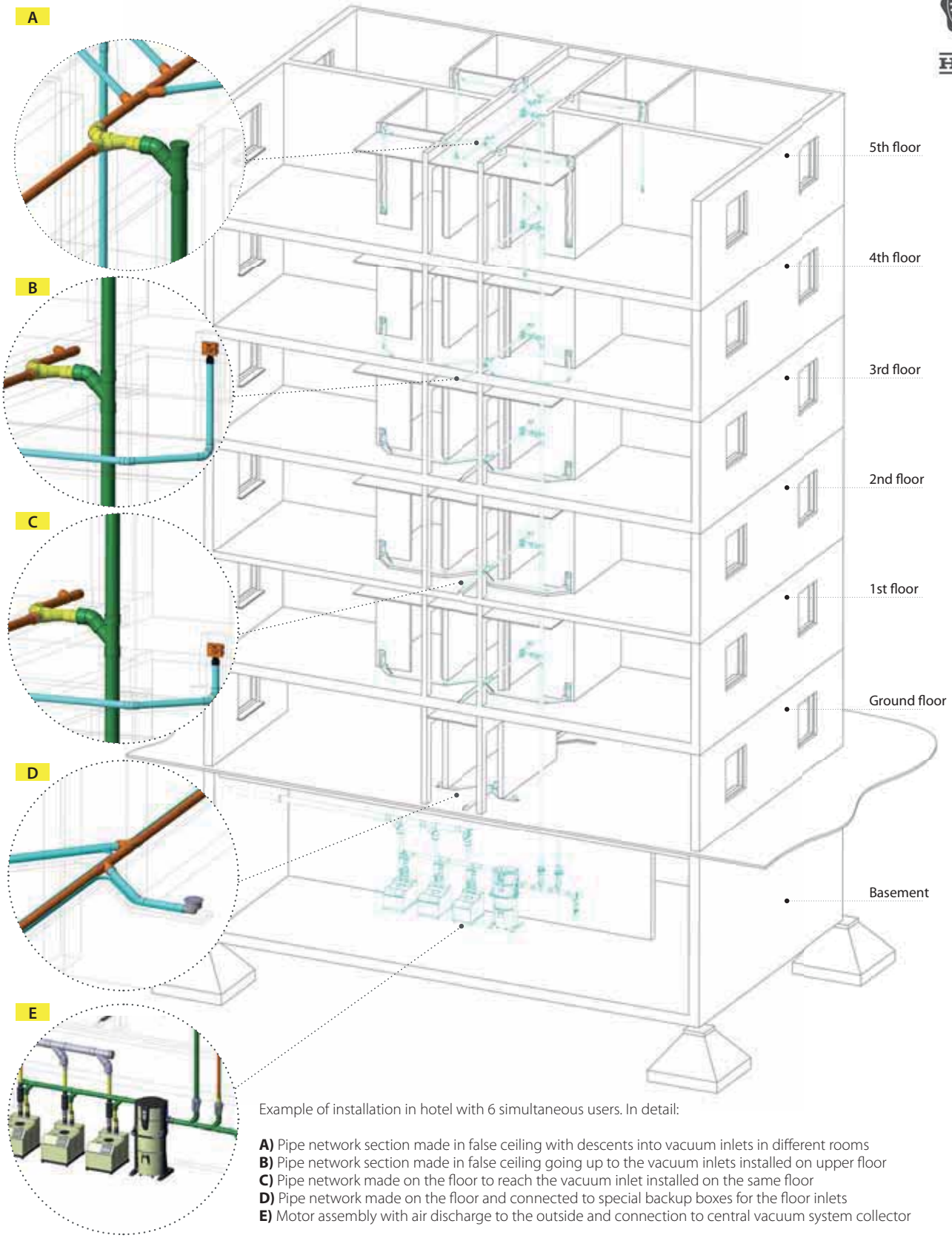


Dimensioning of the discharge pipe

For maximum advantage of the central vacuum system, it's advisable to put the discharge pipe towards outside. This way mites, micro dusts and pollens, not blocked by filter, will be expelled from our living environment. If the discharge pipe is longer than 5m, it must be made with larger diameter pipes compared to the pipe running to the central vacuum unit, to facilitate the outflow of air coming out of the motor.

DESIGNED TO LAST OVER TIME

Example of installation



Example of installation in hotel with 6 simultaneous users. In detail:

A) Pipe network section made in false ceiling with descents into vacuum inlets in different rooms
B) Pipe network section made in false ceiling going up to the vacuum inlets installed on upper floor
C) Pipe network made on the floor to reach the vacuum inlet installed on the same floor
D) Pipe network made on the floor and connected to special backup boxes for the floor inlets
E) Motor assembly with air discharge to the outside and connection to central vacuum system collector

INDUSTRIAL

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Up to 1.800 m²

PROFESSIONAL

REVO JOB
(professional vacuum unit)
Page 13

- Recommended surface up to 1.800 m²
- Up to 3 simultaneous users
- Vacuuming of domestic and not domestic dusts
- Prolonged use
- Compact central unit

- agriturismi
- strutture sportive
- beauty salons
- laboratories

Up to 1800 m²

PROFESSIONAL

REVO Block Professional
(TOP professional vacuum unit)
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- Surface up to 1800 m²
- Up to 3 simultaneous users
- Vacuuming of domestic and not domestic dusts
- Prolonged use
- Compact monobloc vacuum unit

- bed and breakfasts
- offices
- sport structures
- beauty centers

No surface limits

PROFESSIONAL INDUSTRIAL

Industrial Clean
(separator with management computer board)
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- **No surface limits**
- Unlimited number of simultaneous users

- **hotel**
- factories
- museums

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INDUSTRIAL Motor
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- Vacuuming of domestic and non domestic dust
- Prolonged use
- Modular system

- theatres
- healthcare structures
- cinema
- places of worship

PROFESSIONAL INDUSTRIAL

AUTOCLEANER
(self-cleaning filter system)
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- **Pneumatic system of filter automatic cleaning** (managed by central vacuum unit)

- TECNO STAR Dual Power
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SPECIAL APPLICATIONS

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- Pre-separators with cyclonic separation
- Wall mounted

SPECIAL APPLICATIONS

Turbix Big/Big XL
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- Pre-separators with cyclonic separation
- To be placed on the floor

SPECIAL APPLICATIONS

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APPLICATIONS

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- INOX cyclonic pre-separator with automatic discharge of vacuumed material
- Self-supporting structure for floor standing or wall fixing

CHOICE GUIDE TO THE SYSTEM
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PROFESSIONAL
Offices, sports facilities, cottages, workshops and beauty centers.

revo Job

revo block professional

Sistem Air professional vacuum units are essential in all those situations that require professional cleaning: compact and powerful, thanks to the wide range of models, they always offer the ideal solution.

01

PROFESSIONAL

REVO JOB 13

REVO BLOCK PROFESSIONAL 23


revo
Job
4 kW

Revo Job is the new Sistem Air vacuum unit designed for intensive use in tertiary and professional areas.
The main features of this product are simplicity, reliability and a great vacuum power.

INSTALLATION AREA

Revo Job vacuum unit can be used for dust vacuum in buildings with the follow features:

- Surfaces up to 2000 m^2
- Suitable for 3 users
- Pipe network according to the number of users
- 400 V three-phase supply
- Continuous use
- External air exhaust

REVO Job SELECTION TABLE

Model	ARTICLE	Motor power kW	Speed electronic converter	Max. number of users
REVO Job 3	**3201.2J**	**3**	NO	2
REVO Job 4	**3201.6J**	**4**	YES	3

SYNTHETIC CHARACTERISTICS

- **Vibrating filter cleaning system**
- **Energy saving vacuum unit**
- **Soft Start device**
- **CE marking**
- **IP protection degree**
- **Isolation class 1**
- **Max number of users 3**

PROFESSIONAL

REVO JOB

MAIN FEATURES OF THE PRODUCT

1 - Guaranteed reliability

The selection of **highly reliable components and precision assembly make the REVO Job** vacuum unit extremely strong.
Electronics have been restricted to the essential functions of control and energy consumption optimisation, so as to further increase its stability during working.
For these reasons Revo Job is the vacuum unit suitable to be used in all those conditions close to professional sector, when the vacuum unit is particularly stressed by:
· Prolonged working hours
· Different dust categories to vacuum
· Complex pipe networks

Their reliability is certificated in a tangible way by the special warranty that Sistem Air supply with all REVO Job vacuum units, that is **T-Warranty, a 6 years free replacement total warranty** for components damaged during working (excluding wear parts).
This choice confirms the excellent performance of the product, but also the mission of Sistem Air always to be close to its customers, even after installation.
For more information on T-Warranty please visit the web site
sistemair.com

2 - Energy saving

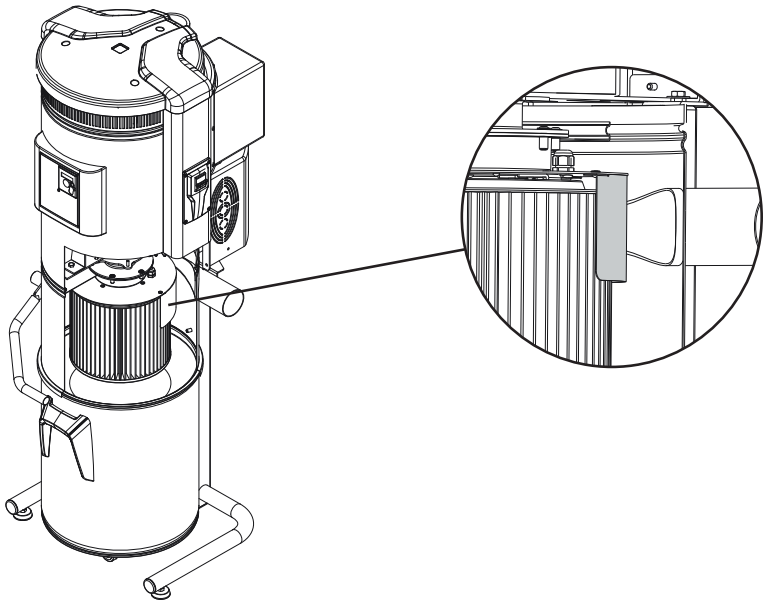
REVO Job vacuum units have **new conception blowing motors** that achieve good vacuum power combined with optimized energy consumption.
This gives a good balance between capacity and depression at all motor speeds: in this way it is always possible to obtain the best vacuum performance, with the lowest power consumption in all possible applications.

In particular, the 4 kW model has a **speed electronic converter** (inverter) that adapts the vacuum performance to the current number of required users, avoiding energy waste and balancing any potential installation problems.

3 - Professional filtering

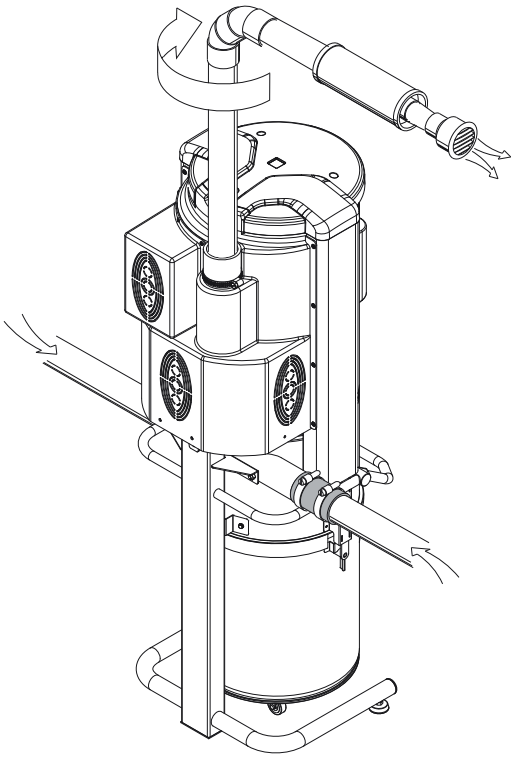
The filtering system on REVO Block vacuum units has two main elements:

- Water washable Polyester filter cartridge, with a **large filtering surface** that allows a higher level of efficiency
- **Metallic protection on dust inlet** that prevents sharp or incandescent materials getting onto the filter surface and damaging it.



4 - Reversible inlet connection

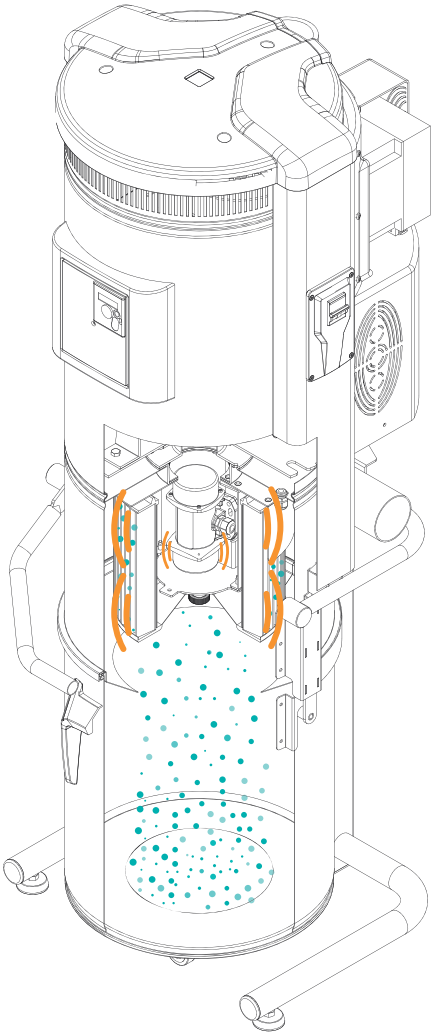
It is possible to connect the unit to the pipe network from the left or from the right, without adaptation, accelerating installation and maintenance.



REVO JOB

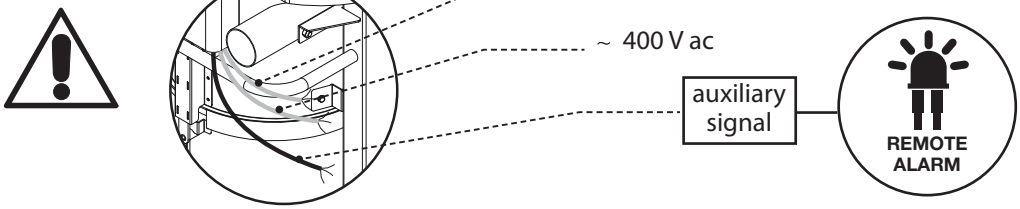
5 - Automatic filter cleaning system

A standard, **vibrating automatic filter cleaning system**, is installed in REVO Block vacuum units.
This device doesn't need programming. When the vacuum stops, a specific electric motor with vibrator automatically shakes the support of the filter: vibrations reach the filter surface causing the detachment of collected dust, which falls into the dust container.
With this system, the efficiency of the filter is restored after each use of the vacuum cleaner, dramatically reducing the maintenance of the unit.
N.B. Vacuum has priority on automatic cleaning: if the vacuum unit starts while the vibrating motor is working, this will stop immediately, in order to allow the correct working of the vacuum unit.

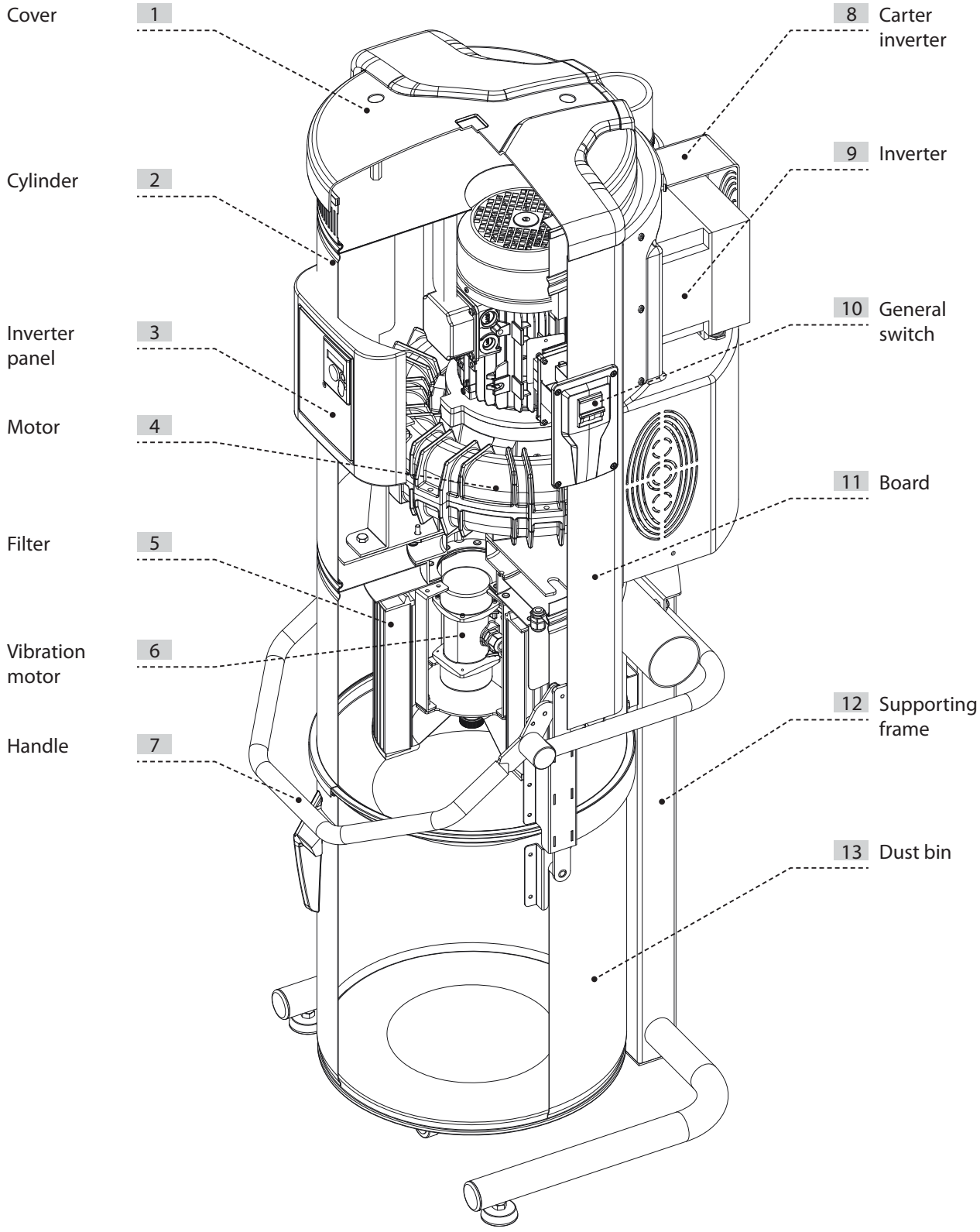


6 -Auxiliary alarm

On REVO Job 4 model (with inverter) it is possible to connect an **auxiliary remote alarm** (not supplied).
Every time that an alarm occurs on the inverter, the alarm circuit closes, activating the alarm.
N.B. To verify the model of supported alarms, you can refer to the instruction manual supplied with the vacuum unit.



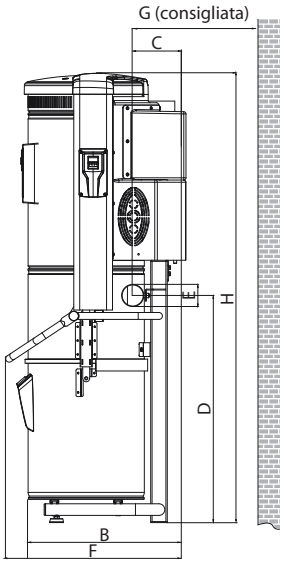
REVO Job vacuum unit section

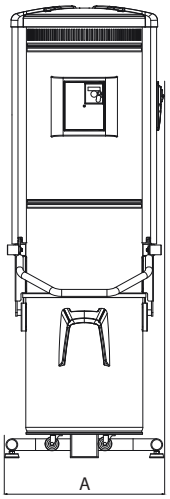


REVO JOB

Measurements and technical data

REVO Job vacuum units can be used for professional uses in large houses, small hotels, offices, laboratories, sports centres and beauty salons, because they have a great vacuum power with a minimum size.
The model can be chosen according to the number of users required (max 3), the need to vary the vacuum power and surfaces to be cleaned.





REVO Job

Model Article		REVO Job 3 **3201.2J**	REVO Job 4 **3201.6J**
Vacuum inlet	Ø mm	80	80
Air discharge	Ø mm	80	80
IP protection degree	IP	20	20
Supply	V ac	400	400
Frequency	Hz	50/60	50/60
Motor power	kW	3	4
Absorption	A	6,3	8,1
Vacuum inlets supply	V dc	12	12
Speed electronic converter		NO	YES
Maximum air flow	m^3/h	414	570
Filtering surface	cm^2	17000	17000
Filter cleaning system		YES	YES
Dust bin capacity	l	70	70
Air discharge		YES	YES
Air discharge silencer		YES	YES
Weight	kg	100	105
Measurements A	mm	570	570
Measurements B	mm	560	560
Measurements C	mm	178	178
Measurements D	mm	821	821
Measurements E	mm	80	80
Measurements F	mm	630	630
Measurements G	mm	500	500
Measurements H	mm	1625	1625
Noise	dB(A)	60÷80	

N. B: Nominal noise values. Values may vary according to environment and manner in which the unit is installed.

APPROVALS

CE marking

IP 20 **IP protection degree**

Electrical insulation
CLASS I

REVO Job line
Device in compliance with the following standards:

EC DIRECTIVES:
- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

APPLIED HARMONISED STANDARDS .
- EN 60335-1 : 2012
- EN 60335-2-2 : 2010
- EN 61000-3-2 : 2006 + A2 : 2009
- EN 61000-3-3 : 2008
- EN 55014-1 : 2006 + A1 : 2009
- EN 55014-2 : 1997 + A2 : 2008
- EN 62233: 2008

ROHS DIRECTIVE 2002/95

COMPLIANCE TO REACH DIRECTIVES.

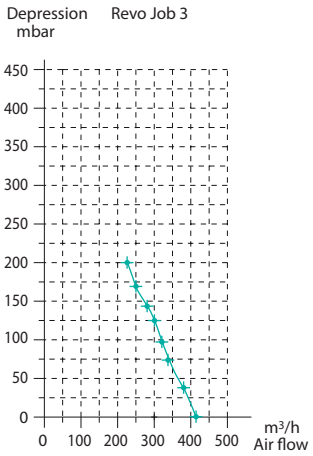
N.B.: installation must be carried out in strict compliance with current regulations.

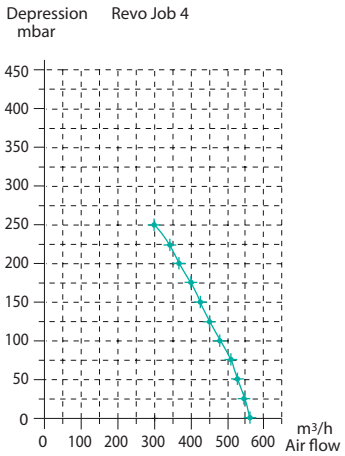
TECHNICAL FEATURES

REVO Job vacuum units are designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and capacity.

Main technical characteristics can be listed as follows:
- Metal cylindrical frame painted with epoxy powder
- Metal dust bin container with wheels (capacity 70 litres)
- Bag with bag stretchers inside the dustbin, to dispose of dust quickly and hygienically.
- Possible connection to the piping from the right or from the left side, independently of each other.
- Three-phase power supply.
- Side-channel motor-pump group with light alloy case, high-performance and maintenance-free; professional motor with CE marking, IP 55 protection degree, F IEC 2 class, with integrated silencer.
- Mechanical breaker valve
- Automatic adjustment of vacuum power (inverter)
- Class M polyester filter, water washable.
- Filter protection for a reduced maintenance.
- Automatic filter cleaning system with vibration
- Vacuum inlets supply: 12 V
- Optional auxiliary alarm for maintenance
- Complete with silencer and sleeves for pipe network connection
- Suitable for all Sistem Air cleaning accessories

Performance graphs





REVO JOB

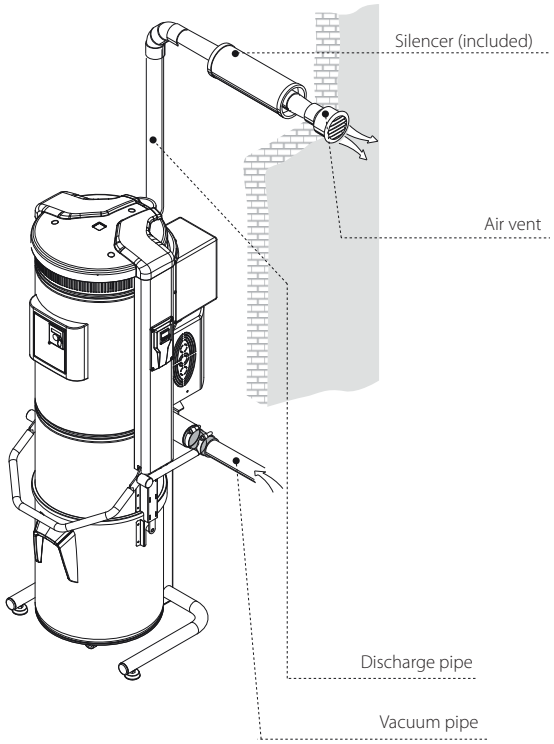
Installation tips

REVO Job vacuum units are equipped with an air discharge connection, in order to expel dust particles that the filter cannot hold.
They can be placed in technical rooms or utility rooms (such as garages, cellars, etc) protected from bad weather, humidity and temperature extremes.
Keep away from heat sources, such as stoves or radiators. (N.B. IP protection degree 20).
In the design stage, we recommend identification of the best location for the central unit with respect to the system, leaving a reasonable space for installation, use, maintenance and air exchange.
Its technical features allow the connection to the pipe network from the left or from the right.
If the system is installed in a building with several floors, we suggest placing the vacuum unit on the bottom floor.

INSTALLING THE CENTRAL UNIT

The vacuum unit does not require special anchoring. However, it is important to check that the area for installation has the following minimum requirements, in order to be correctly and securely positioned.
- a perfectly flat, horizontal and solid surface, without cracks.
- a vibration free surface

Furthermore it is essential that there are no disconnections such as to make the central unit instable.



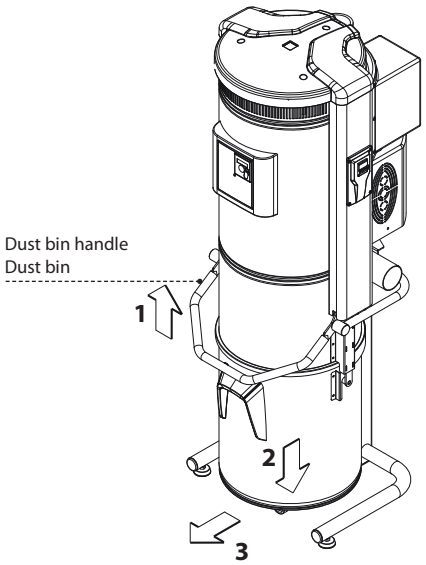
PIPE CONNECTION

Connections to pipe network and to air expulsion can be made on the left or on the right side of the vacuum unit.

WARNING: if the discharge pipe is longer than 5 meters it is necessary to install a bigger diameter in order to reach the optimal conditions for air expulsion.

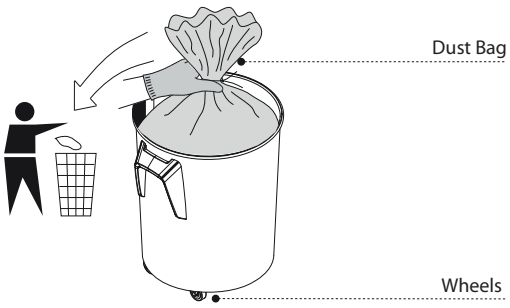
EASY BIN EMPTYING

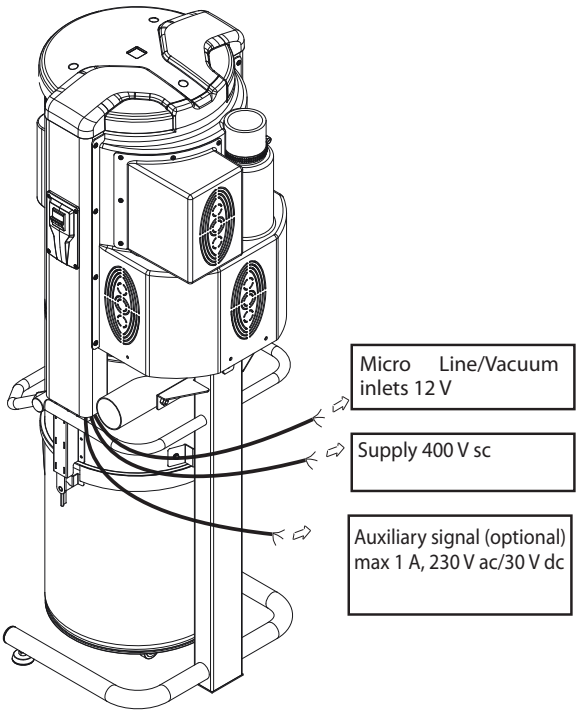
REVO Job vacuum unit has a metal dust container with an easy opening system and a comfortable handle.



DUST CONTAINER WITH WHEELS

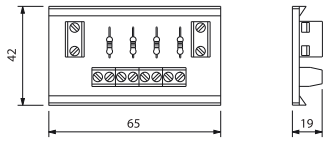
Thanks to its wheels, the dust container can be moved easily.





ARTICLE	DESCRIPTION	PACKAGING Pc
3301.4	4 entrance resistive divider	1

Resistive divider is indispensable to change the vacuum power of REVO Job 4 vacuum unit.
Each resistive divider can receive up to four inlets, they can be connected each other without limits.
For more details about connection see page. 129.



MAINTENANCE AND ASSISTANCE

Programmed routine maintenance of central vacuum units must be done according to the instructions in the technical manual and on the display.
These routine maintenance cycles specifically concern filter cleaning, emptying of the dust-bin, bag substitution, checking that the electric motor is working correctly, possible air discharge and obstruction checking.
All extraordinary maintenance operations must be carried out by qualified, authorised staff.
For more details, technical information and assistance please visit our web site **sistemair.com**

revo Job

Essential performance is the main virtue of this vacuum unit. These images describe its constructive strength and the quality of its components.

revo block
professional
revo block
professional

revo block professional

REVO Block Professional vacuum units are the best vacuum cleaners for professional use on central vacuum unit sector. Their high quality construction is combined with a performance electronic management of latest generation, used to simplify installation and use: everything can be managed by the new touch screen display.

INSTALLATION AREA

Revo Block Professional vacuum units can be used in buildings with the following features:

- Surfaces up to 1800 m²
- Suitable for 3 users maximum
- Pipe network according to the number of users
- Supply: from 220/240 Vac single-phase to 400 V three-phase
- Continuous use
- External air exhaust

Revo Block Professional SELECTION TABLE

MODEL	Recommended surface	ARTICLE	Supply V ac	Max. number of users
Revo Block Professional 700 Plus	**700 m²**	**3213.2B**	400	2
Revo Block Professional 1000	**1000 m²**	**3203.3B**	220/240	2
Revo Block Professional 1200	**1200 m²**	**3203.4B**	400	2
Revo Block Professional 1500	**1500 m²**	**3203.5B**	400	2
Revo Block Professional 1800	**1800 m²**	**3203.6B**	400	3

SYNTHETIC CHARACTERISTICS

- **Maintenance computer**
- **Optional automatic filter cleaning**
- **Energy saving vacuum unit**
- **CE marking**
- **IP protection degree**
- **Isolation class 1**
- **Max number of users: 3**

REVO BLOCK PROFESSIONAL

MAIN FEATURES OF THE PRODUCT

1 - New touchscreen interface

The Revo Block Professional vacuum units of latest generation have a new touchscreen display that makes their use easier.
The touchscreen display is an easy interface for all users:

- For the installer, that can find all set-ups to manage the working of the vacuum unit;
- For the final user, that can check the system conditions in every moment, with real time messages about required maintenance and instructions to execute them.

Thanks to the graphic display, **all maintenance operations are supported by images for immediate understanding**, supporting the service staff without the need of the instruction manual.
For the installer, the graphic display means an extra value in these circumstances:

- During the first installation, because a special training is not required, but just follow the wizard;
- During the next maintenance operations it is possible to control all the working parameters on the display, in order to find immediately the correct operation.

The display is nothing but the interface of a real computer set up that rules the vacuum unit and optimizes its performances, stating:

- The depression on the system, with the possibility to modify the vacuum power directly from the display
- The level of the dust container
- The filter efficiency
- The need for scheduled maintenance, showing the phone number that the installer has entered during first installation

Additional functions can be managed from the touch screen:

- **Autocleaner maintenance (if present);**
- **Set up of vacuum interruption, in case of warning and/or alarm.**
- **Test function**
- **Alarms list archieve**
- **Electrical consumptions of the vacuum unit**
- **Extraordinary maintenance activities list**

Screen examples:

Main screen

It is possible to verify if the vacuum unit is On, the central system depression, all the others control screens.

Filter control

Filter efficiency, thanks to the colored status bar, easy to understand.

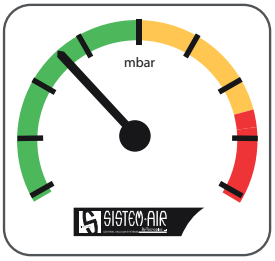
Dust bin emptying

Instructions for dust bin emptying: when the vacuum unit advises that the bin must be emptied,
an animation sequence shows how to perform the operation, helping even the inexpert user.

Vacuum unit info

Screen with info about the unit, with all working parameters.

2 -Consumption optimization control



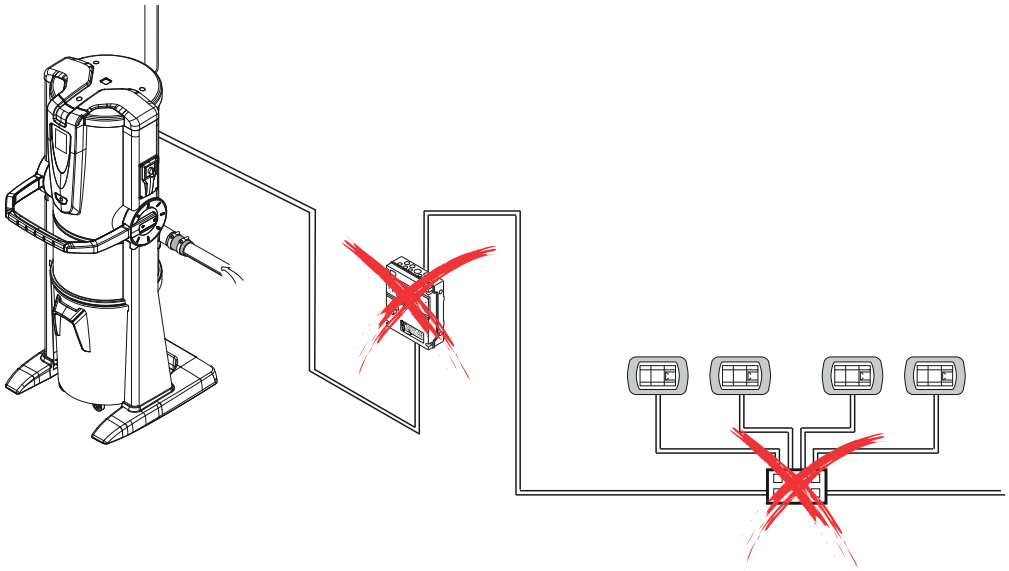
The commitment of Sistem Air to reduce consumption of its central vacuum units continues with the new Revo Block Professional line: compared to the previous models, **new blowing motors** have been adopted and they have a better energy efficiency class (IE2 class), able to offer the same vacuum power, with lower consumptions.
The electronic motor maintenance, that optimizes performances and prevents any absorption peaks, can process the data that have been transmitted from a **temperature sensor** installed on the motor, to act promptly on the operating parameters and avoid possible malfunctions.
These features grant a **greater reliability.**

REVO Block Professional units **have a continuous control system of vacuum power**, that allows to maintain it constant even with different use conditions (for example an additional user that starts working or a brush change).

Then it is possible to set up the depression required: set up is made with the touchscreen display in a quick and easy way.

3 - Simplification

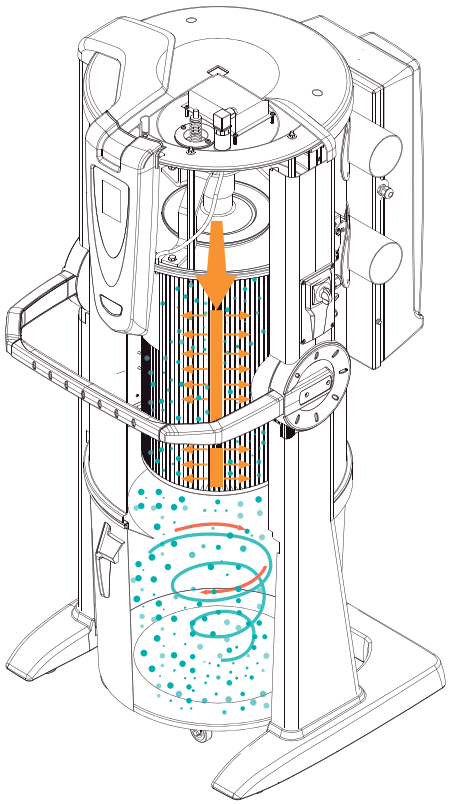
Revo Block vacuum units installation is really easy, thanks to the new electronic components, with easy connections and without the possibility of making mistakes. Even the management of more users at the same time doesn't need additional panels or resistive dividers connected to the vacuum inlets: the automatic control system of performances
detects the change and acts on the motor so as to compensate the vacuum power and ensure its proper dispensing.



REVO BLOCK PROFESSIONAL

4 - Automatic filter cleaning

All Revo Block vacuum units are designed for the installation of the **Autocleaner system**: a reversed **compressed air spray** crosses the filter and the dust on the filter surface or between its folds, can drop inside the dustbin.
Autocleaner can be programmed on one's choice and this device can be installed after the vacuum unit installation. All Revo Block vacuum units have the Autocleaner arrangement, that consist of pneumatic connections, electrical connections and software for maintenance managing, that offers standard or personalized set up.

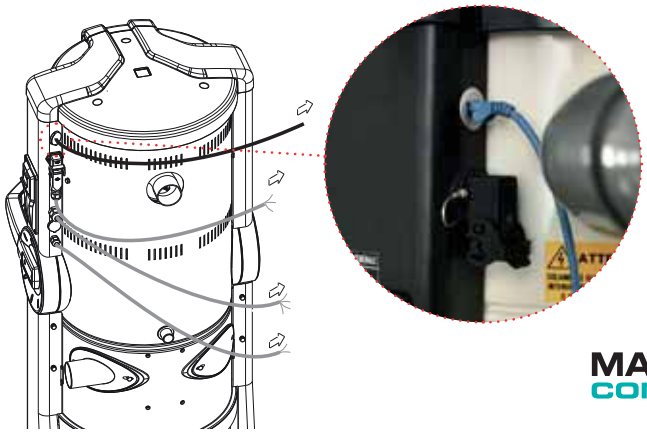


5 - Possibility of remote viewing of the status of the suction unit through the MASTER CONTROL system (optional - see page 62)

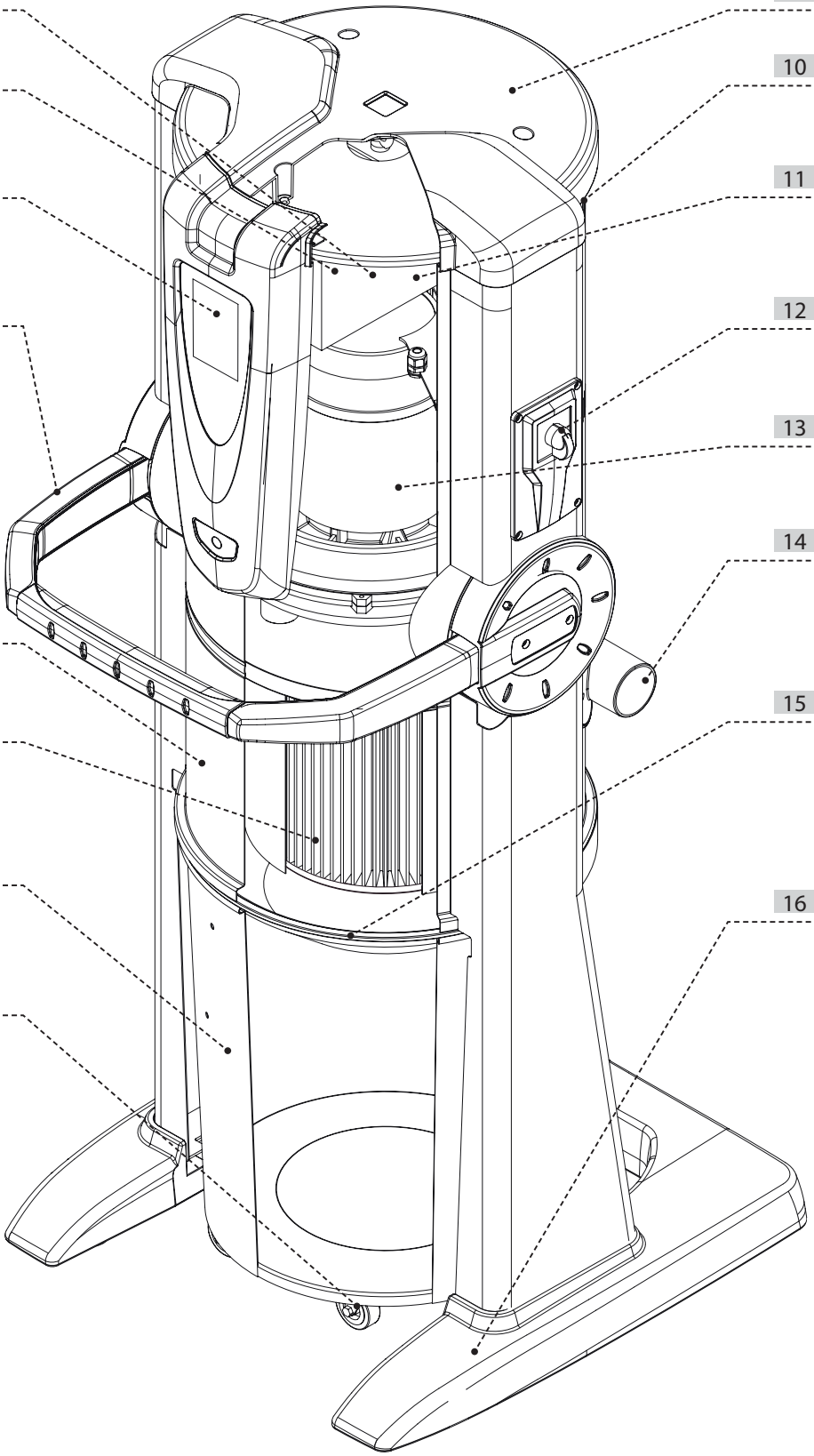
Master control is the innovative communication system designed by Sistem Air for remote monitoring of industrial and professional vacuum units.
The system consists of two elements:

- **Communication interface**, to be installed on each vacuum unit (compact machine or dust separator) and to be connected to the local network local using a seria cable;
- **Control software**, to be installed on a PC connected to the same local network to which the vacuum units are connected. With the same PC it is possible to check all the machines connected to the network.

The software allows immediate control of them, displaying the status of each machine and the necessary maintenance, with the possibility to consult the procedure on how to carry out maintenance both in PDF and video format.



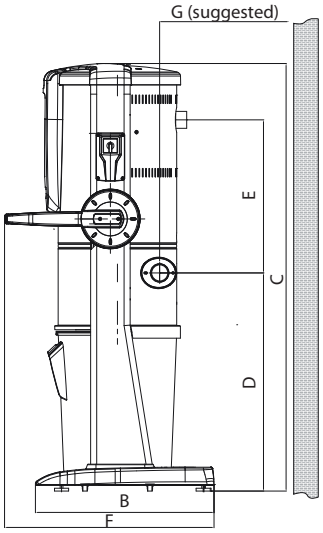
Revo Block Professional section

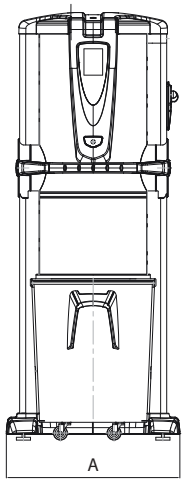


REVO BLOCK PROFESSIONAL

Measurements and technical data

REVO Block Professional line can be installed for professional and semi-professional uses, with a maximum of three users at the same time.
The model can be chosen according to the total surface to clean and the number of users required, in order to grant the vacuum power needed.





Revo Block Professional						
Model		Revo Block 700 Plus	Revo Block 1000	Revo Block 1200	Revo Block 1500	Revo Block 1800
Article		**3213.2B**	**3203.3B**	**3203.4B**	**3203.5B**	**3203.6B**
Maintenance computer		YES	YES	YES	YES	YES
Vacuum inlet	Ø mm	63(*)	63(*)	63(*)	63(*)	80
Air discharge	Ø mm	63	63	63	63	80
IP protection degree	IP	20	20	20	20	20
Supply	V ac	400	220/240	400	400	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Motor power	kW	3	2,2	2,2	4	4
Absorption	A	6,3	7,9	4,6	8,1	8,1
Vacuum inlets supply	V dc	12	12	12	12	12
Speed electronic converter		NO	YES	YES	YES	YES
Maximum air flow	m^3/h	400	366	366	471	570
Filtering surface	cm^2	17800	17800	17800	17800	17800
Dust bin capacity	l	106	106	106	106	106
Air discharge		YES	YES	YES	YES	YES
Air discharge silencer		YES	YES	YES	YES	YES
Weight	kg	95	95	95	105	115
Measurements A	mm	750	750	750	750	750
Measurements B	mm	633	633	633	633	633
Measurements C	mm	1616	1616	1616	1616	1616
Measurements D	mm	773	773	773	773	773
Measurements E	mm	642	642	642	642	642
Measurements F	mm	750	750	750	750	750
Measurements G	mm	600	600	600	600	600
Noise	dB(A)	60÷80				

N. B: Nominal noise values. Values may vary according to environment and manner in which the unit is installed.

*these models are supplied with a sleeve 63/80 to connect the vacuum unit to the pipe network.

APPROVALS

CE marking

IP protection degree

IP 20

Electrical insulation

CLASS I

Revo Block Professional Line

Device in compliance with the following standards:

EC DIRECTIVES
- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

APPLIED HARMONISED STANDARDS
- EN 60335-1 : 2012
- EN 60335-2-2 : 2010
- EN 61000-3-2 : 2006 + A2 : 2009
- EN 61000-3-3 : 2008
- EN 55014-1 : 2006 + A1 : 2009
- EN 55014-2 : 1997 + A2 : 2008
- EN 62233: 2008

ROHS DIRECTIVE 2002/95

COMPLIANCE TO REACH DIRECTIVES.

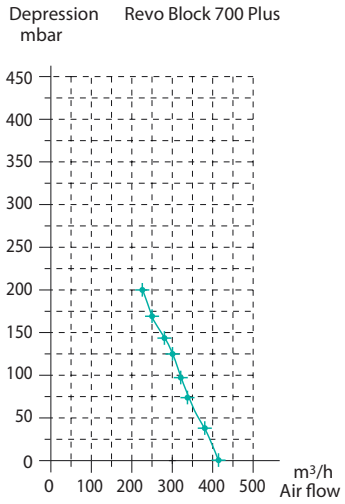
N.B. installation must be carried out in strict compliance with current regulations

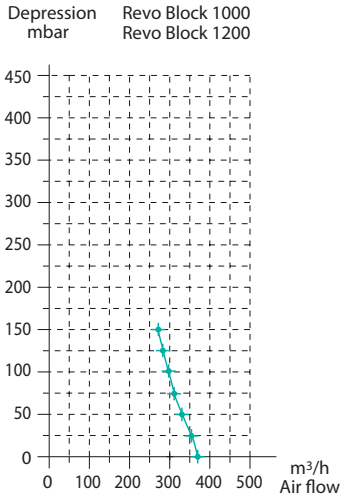
TECHNICAL FEATURES

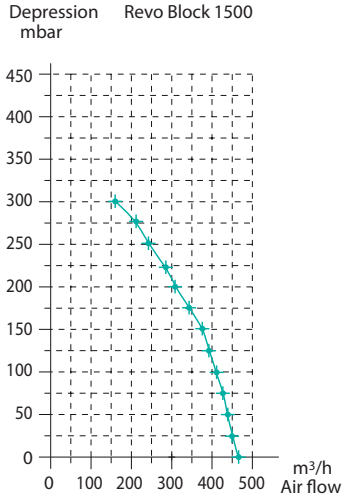
REVO Block Professional vacuum units are designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and capacity.
Main technical characteristics can be listed as follows:

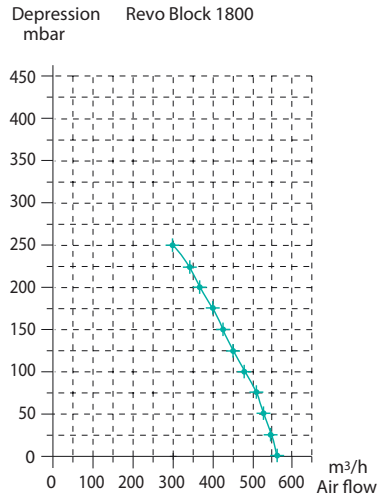
- Metal cylindrical frame painted with epoxy powder
- Base coated with anti-shock material to protect the vacuum unit.
- Metal dustbin with wheels (capacity 106 litres)
- Bag with bag stretchers inside the dustbin, to dispose of dust quickly and hygienically.
- Possible connection to the piping from the right or from the left side, independently of each other.
- Single-phase and three-phase power supply
- Side-channel motor-pump group with light alloy case, high-performance and maintenance-free; professional motor with CE marking, IP 55 protection degree, F IEC 2 class, with integrated silencer.
- Thermal protectorPTO
- Mechanical breaker valve
- Automatic adjustment of vacuum power (inverter)
- Vacuum power customizable set up
- Maintenance computer with touchscreen interface
- Pressure transducer for vacuum performance reading
- Class M polyester filter, water washable.
- Filter protection for a reduced maintenance.
- Vacuum inlets supply: 12 V.
- Complete with silencer and sleeves for pipe network connection
- Suitable for all Sistem Air cleaning accessories
- Possibility to combine, even after installation, the automatic filter cleaning system Autocleaner

PERFORMANCE GRAPHS









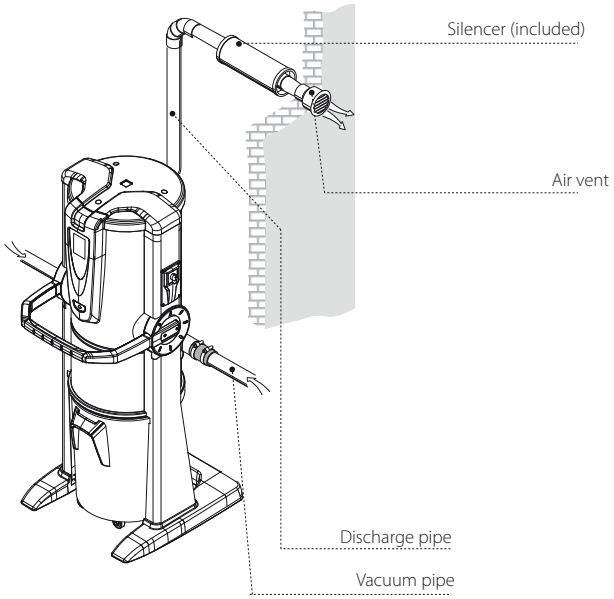
REVO BLOCK PROFESSIONAL

INSTALLATION HINTS

Vacuum units are equipped with an air discharge connection, in order to expel dust particles that the filter cannot hold outside.
They can be placed in soundproofed technical rooms or utility rooms (for example garages, basements, etc…) to protect the other rooms from noise and to keep them protected from bad weather, humidity and temperature leaps. Keep away from heat sources, such as stoves or radiators. (N.B.: IP protection degree 20).
In the design stage, we recommend identification of the best location for the central unit with respect to the system, leaving a reasonable space for installation, use, maintenance, a proper air exchange around the unit and passive acoustic requirements of the building.
If the system is installed in a building with several floors, we suggest placing the vacuum unit on the bottom floor.
In case of exposed pipes, to avoid the sediment of dusts on the walls close to the pipes caused by static charges, we recommend to make the pipe network with metal pipes, connected to the ground.

INSTALLING THE CENTRAL UNIT

The vacuum unit does not require special anchoring. However, it is important to check that the area for installation has the following minimum requirements, in order to be correctly and securely positioned.
- a perfectly flat, horizontal and solid surface, without cracks.
- a vibration free surface. Furthermore it is essential that there are no disconnections that could make the central unit instable .



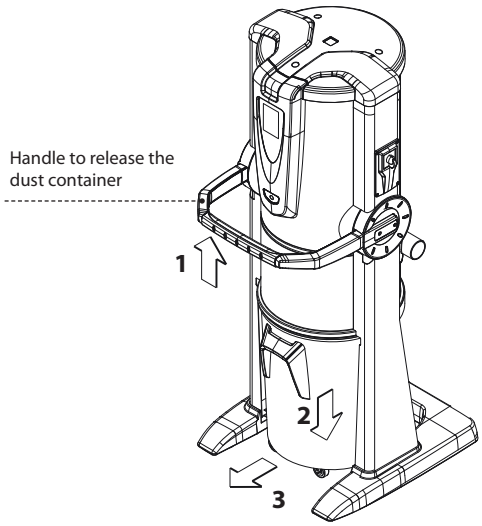
PIPE CONNECTION

Connections to pipe network and to air expulsion can be made on the left or on the right side of the vacuum unit.

WARNING: if the discharge pipe is longer than 5 meters it is necessary to install a bigger diameter in order to reach the optimal conditions for air expulsion.

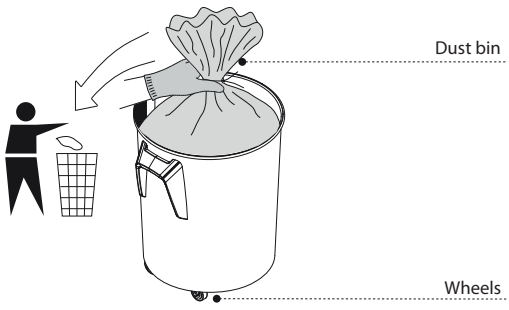
EASY BIN EMPTYING

Revo Block Professional vacuum units have a dust container with an easy opening system and a soft touch handle coated in shockproof material.

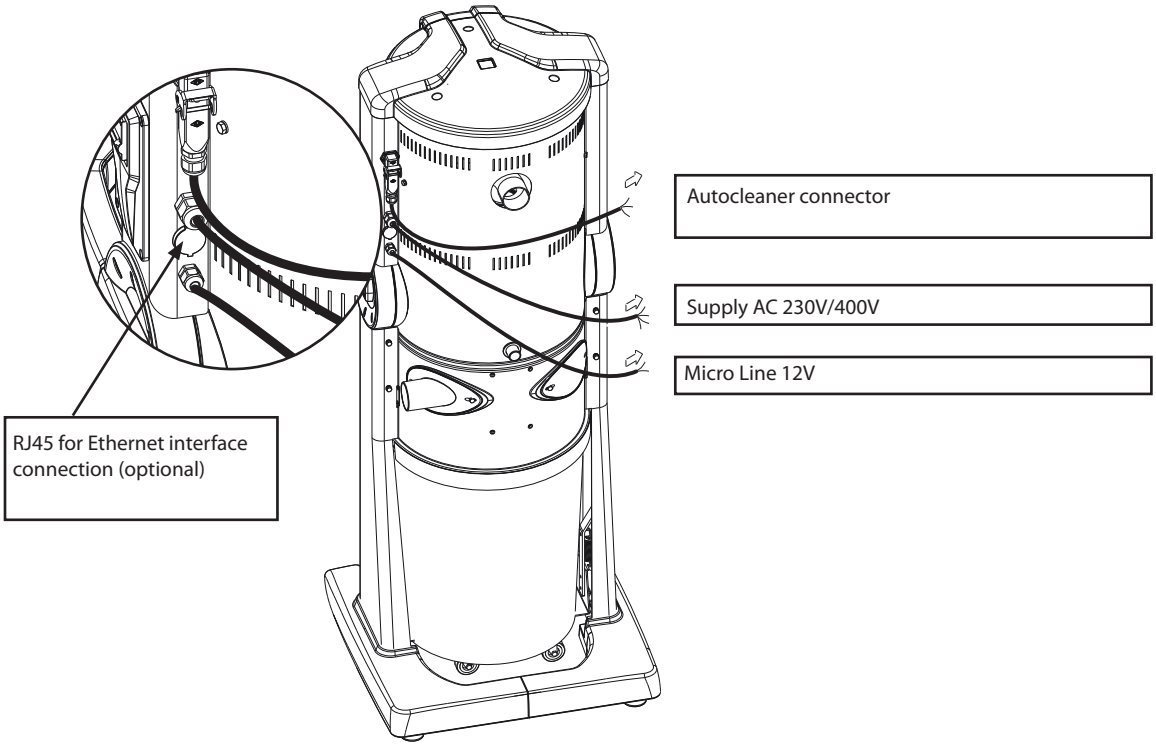


DUST CONTAINER WITH WHEELS

Thanks to its wheels, the dust container can be moved easily.



ELECTRICAL CONNECTION



MAINTENANCE AND ASSISTANCE

Programmed routine maintenance of central vacuum units must be done according to the instructions in the technical manual and on the display.
In particular, these routine maintenance cycles concern filter cleaning, emptying of the dust-bin, bag substitution, checking that the electric motor is working correctly, possible air discharge and obstruction checking.
All extraordinary maintenance operations must be carried out by qualified and/or authorised staff.
For more details, technical information and assistance please visit our web site **sistemair.com**

revo block
professional

The Revo Block line represents the most advanced expression of central vacuum units for professional use, with an advanced energy saving system which, thanks to the touch screen interface, results extremely simple to manage even for the end user.

PROFESSIONAL

INDUSTRIAL
Factories, cinemas/museums/theatres, hotels/residences, rest homes/hospitals

Industrial Clean
big/small

Industrial Motor

Autocleaner
universal system

SPECIAL APPLICATIONS

m-TURBIX

B-TURBIX

Wall-hanged dust separator

Basic
big/small

AUTO Jet TURBIX

Sistem Air vacuum modular systems represent the most technological expression of the central vacuum system for industrial applications, when the power supplied must always be appropriate, even in varying conditions of use.

master Line
Professional

PROFESSIONAL INDUSTRIAL

INDUSTRIAL CLEAN 39

INDUSTRIAL MOTOR MATIC 45

INDUSTRIAL MOTOR 51

INSTALLATION ELEMENTS 58

AUTOCLEANER 65

SPECIAL APPLICATIONS 71

CHOICE GUIDE 96

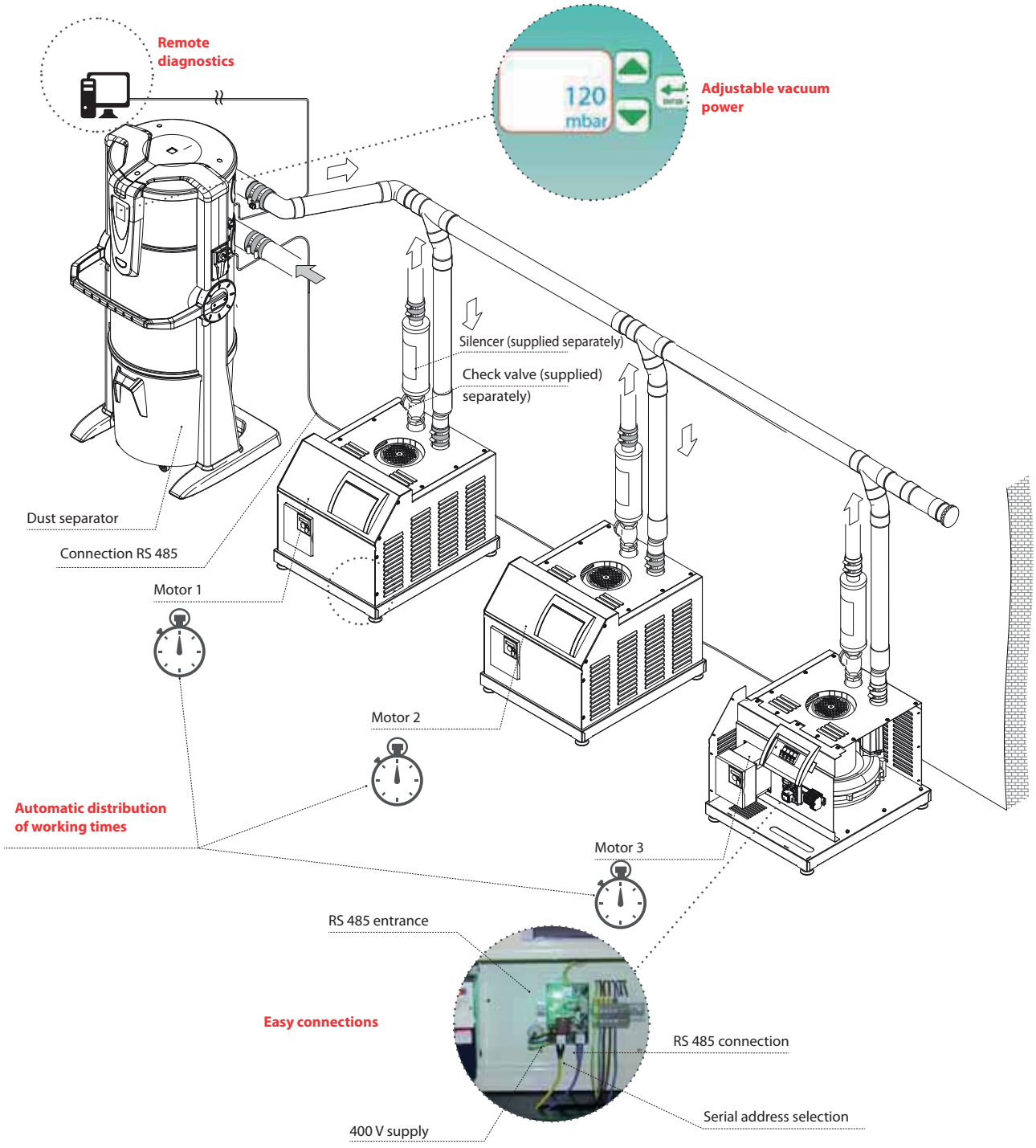
MASTER LINE PROFESSIONAL

INSTALLATION AREA

Master Line professional modular systems are composed of Industrial Clean and Industrial Motor (dust separators and blowing motors) and can be used in all professional/industrial applications, without limits regarding surfaces to be cleaned or number of users.

- Suitable for systems used by many operators simultaneously
- Pipe network made with piping suitable for handling the required number of simultaneous users
- Three phase 400 V supply
- Continuous use
- Air discharge to the outside

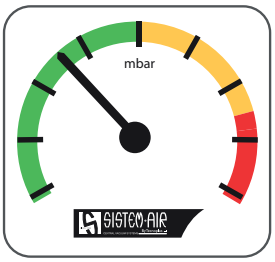
ADVANTAGES IN BRIEF



MAIN FEATURES OF THE PRODUCT

1 -Consumption optimisation

The commitment undertaken by Sistem Air to reduce consumption by its vacuum units affects the entire industrial line: compared to the previous models, the **new blowing motors** that have been introduced offer a greater energy efficiency class (IEC 2 Class) and they are able to grant the same performance with a lower consumption.
The electronic management of the motor, apart from improving performance and preventing absorption peaks, is able to process the data transmitted from a **temperature sensor** mounted on the motor, so as to act promptly on operating parameters and avoid possible malfunctions. **This means a greater reliability of use**.

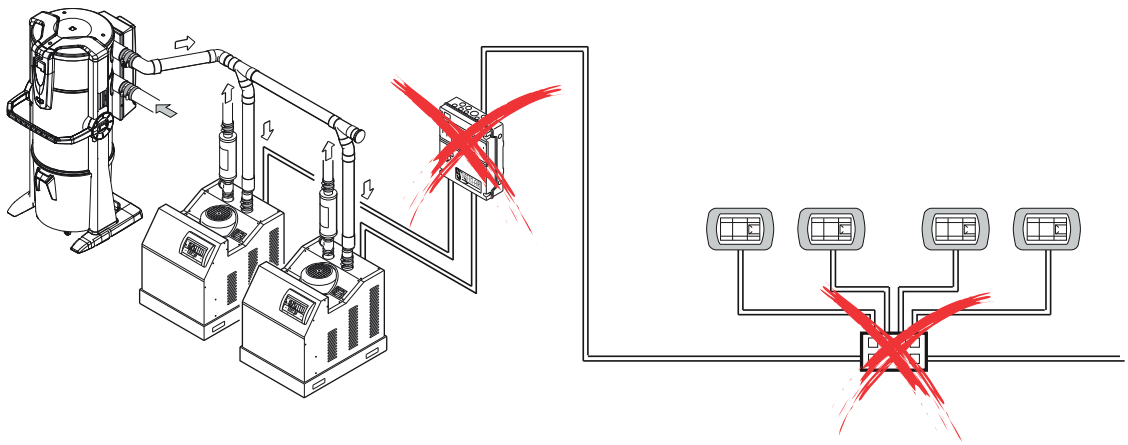


Industrial Clean dust separators have a **system of continuous control of vacuum power**, keeping it constant under varying conditions of use (e.g. an additional user that intervenes simultaneously or different type of brush used).
You can also set the desired operating depression: the adjustment is made simply and intuitively with the touch screen.

The dust separator is able **to share the workload between all the connected blowing** motors, changing the starting priority every time, in order to balance the motor wear.

2 - Simplification

Thanks to their evolved electronics, **the installation of industrial systems is also extremely simple**, with quick and easy connections and no possibility of mistakes.
Even the management of multiple simultaneous operators doesn't require additional frameworks or resistive dividers to be connected to the vacuum inlets: the automatic control system monitors the change in performance and acts on the motor, compensating for the vacuum power and ensuring proper distribution.



MASTER LINE PROFESSIONAL

3 - New User Interface with Touch Screen

The new generation modular systems by Sistem Air have a new touch screen display that simplifies the use of the vacuum unit.
The touch screen display is an easy interface for all users:

- For the installer, who can manage all the set-ups to control the correct working of the vacuum unit;
- For the final user, who can check the system conditions, with real time messages about required maintenance and how to perform it.

Thanks to the graphic display, all the **maintenance operations are guided by pictures of immediate comprehension**, without the need to learn the procedure on the technical manual, especially in case of alternated service personnel.
For the installer, the display means an added value:

- During the initial installation, when specific training is not required but just follow the wizard;
- During subsequent maintenance operations, on the display it is possible to control all the working parameters and the archived alarms, in order to identify required maintenance quickly.

The display is simply the interface of a real computer set up to govern the vacuum unit and optimize performance, stating:

- The depression on the system, with the possibility to modify the vacuum power directly from the display
- The level of the dust container
- The filter efficiency
- The need for scheduled maintenance, showing the phone number that the installer has entered during installation

Additional functions can be managed from the touch screen:

- **Autocleaner maintenance (if present)**
- **Set up of vacuum interruption, in case of warning and/or alarm**
- **Test function**
- **Alarms list archive**
- **Electrical consumption of the vacuum unit**
- **Extraordinary maintenance activities list**

Screen examples:

Main screen

In the main screen it is possible to verify if the vacuum unit is On, the central system depression, and all the other control screens.

Filter control

Filter efficiency, easy to understand thanks to the coloured status bar.

Dust bin emptying

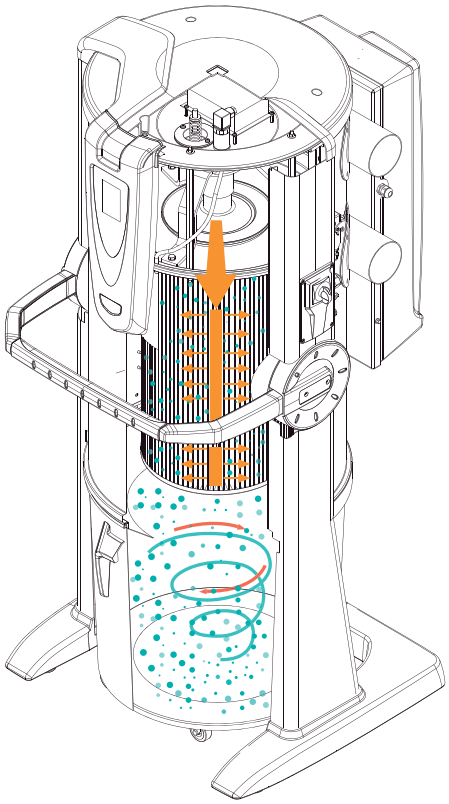
Instructions for dust bin emptying: when the vacuum unit advises that the bin must be emptied,
an animation sequence shows how to perform the operation, helping even the inexpert user.

Individual Motor information

Unit information screen,
with all working parameters shown.

4 - Automatic filter cleaning

All industrial vacuum units are designed for the installation of the **Autocleaner system that frees the filter walls from dust**, using a reversed compressed air spray that crosses the filter. The dust on the filter surface or between its folds, can drop inside the dustbin.
Autocleaner can be **programmed as required** and this device can be installed after the vacuum unit installation. All Industrial Clean separators have the Autocleaner arrangement, that consist of pneumatic connections, electrical connections and software for maintenance managing, offering standard or personalised set up.



5 - Possibility of remote viewing of the status of the suction unit through the MASTER CONTROL system (optional - see page 62)

Master control is the innovative communication system designed by Sistem Air for remote monitoring of industrial and professional vacuum units.
The system consists of two elements:

- **Communication interface**, to be installed on each vacuum unit (compact machine or dust separator) and to be connected to the local network local using a seria cable;
- **Control software**, to be installed on a PC connected to the same local network to which the vacuum units are connected. With the same PC it is possible to check all the machines connected to the network.

The software allows immediate control of them, displaying the status of each machine and the necessary maintenance, with the possibility to consult the procedure on how to carry out maintenance both in PDF and video format.


Industrial Clean
big
Industrial Clean
small

Industrial Clean
big/small

Industrial Clean dust separators are equipped with the computer that can manage the whole industrial vacuum system:
- They manage up to 8 simultaneous motors, all connected to the same separator;
- They can measure the depression of the installation and automatically adapt the motor speed
- They are equipped with the software that manages the Autocleaner system, in order to use it immediately.

The technology has the aim of simplifying use and offering maximum reliability: this, together with design are ongoing commitments from Sistem Air.
The result is a product without equal.

SELECTION TABLE Industrial Clean

Motor air flow	MODEL	ARTICLE	Recommended number of users with Ø 32 pipe	Recommended number of users with Ø 40 pipe	Maintenance computer	Dust container capacity (l)	Filtering surface (cm^2)	Supply V ac
Up to 700 m^3/h	Industrial Clean Small	**3403.0**	4	3	YES	62	24000	220/240
Up to 1200 m^3/h	Industrial Clean Big	**3403.1**	8	4	YES	106	43400	220/240

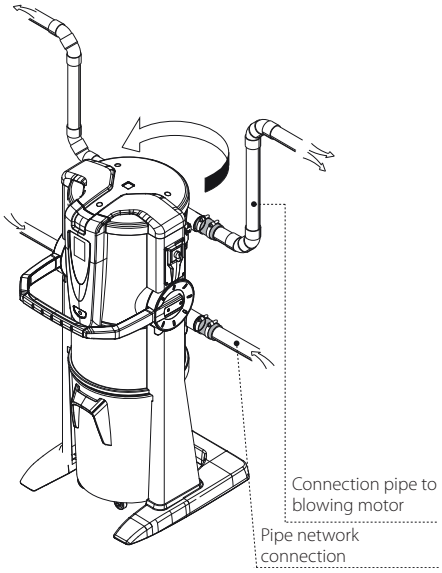
SYNTHETIC CHARACTERISTICS

- **Maintenance computer**
- **Optional automatic filter cleaning**
- **CE marking**
- **IP protection degree**
- **Isolation class 1**
- **Modular system with no limits**

INDUSTRIAL CLEAN

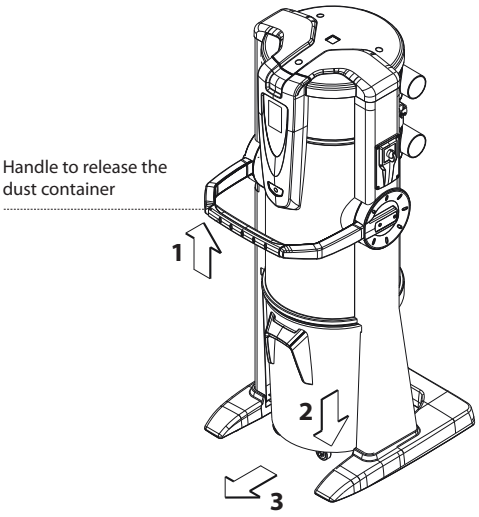
PIPE CONNECTION

Connections to pipe network and to air exhaust can be made on the left or the right side of the vacuum unit.



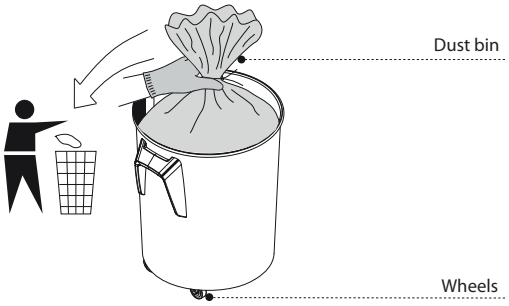
EASY BIN EMPTYING

Industrial Clean dust separators have a dust container with an easy opening system and a soft touch, easy to open handle coated in shockproof material.



DUST CONTAINER WITH WHEELS

Thanks to its wheels, the dust container can be moved easily.

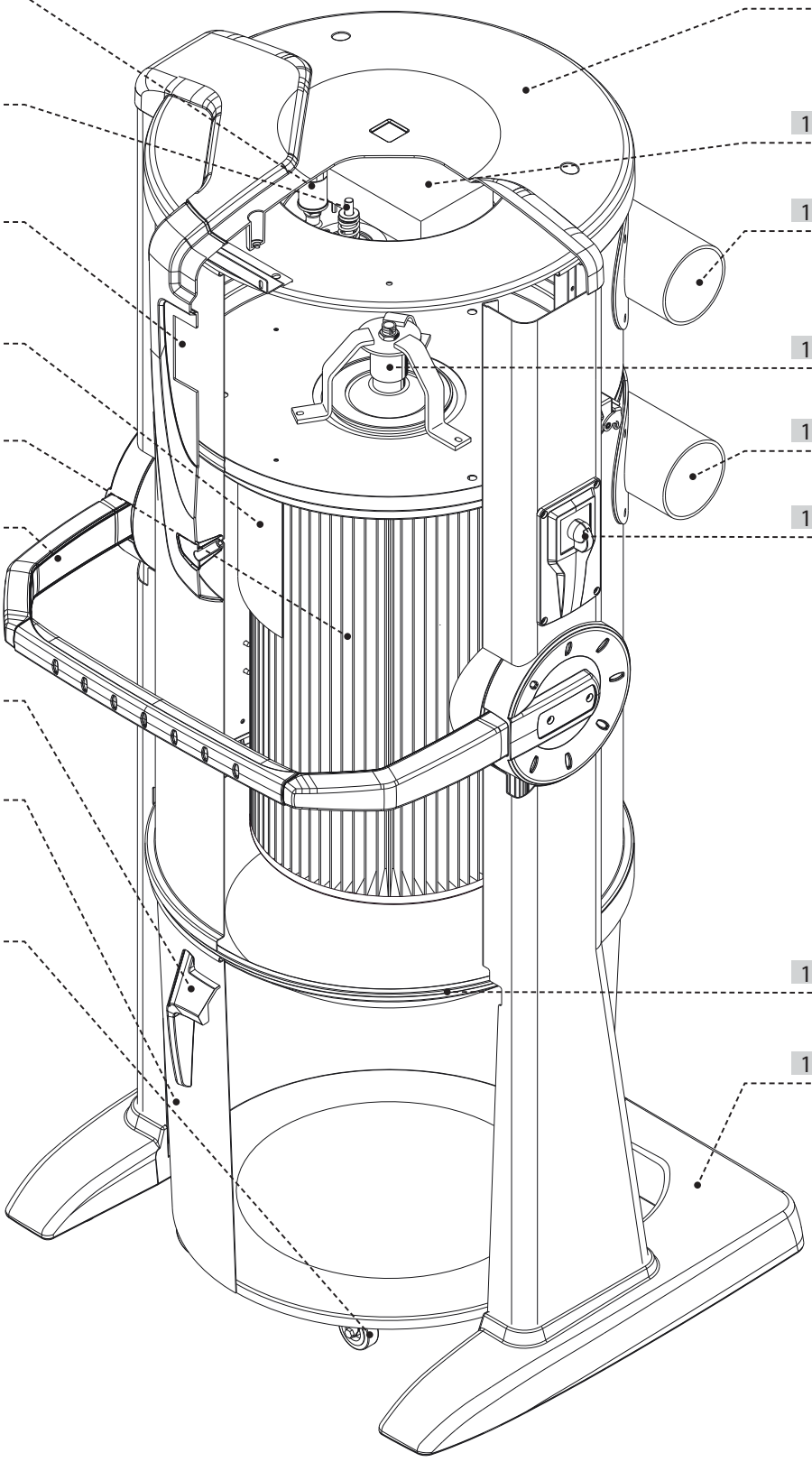


TECHNICAL FEATURES

Industrial Clean dust separators are designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and capacity.
Main technical characteristics can be listed as follows:

- Single-phase power supply
- Mechanical breaker valve that manages the vacuum flow
- Possible piping connection from the right, or from the left side, independently of each other, for the connection to the vacuum pipes and the blowing motors
- Maintenance computer with touchscreen interface
- Pressure transducer
- Automatic adjustment of vacuum power (Sistem Air exclusive)
- Manual selection of the maximum vacuum power
- Metal cylindrical frame painted with epoxy powder
- Base coated with anti-shock material to protect the vacuum unit
- Metal dustbin with wheels (capacity 62/106 litres)
- Bag with bag stretchers inside the dustbin, to dispose of dust quickly and hygienically
- Class M polyester filter, water washable (filtering surface 24.000/43.400 cm^2).
- Vacuum inlets supply 12V
- Connection RS485 between Industrial Clean separators and blowing motors (Matic models)
- Possibility to combine, even after installation, the automatic filter cleaning system Autocleaner (see page. 65).

Industrial Clean SECTION

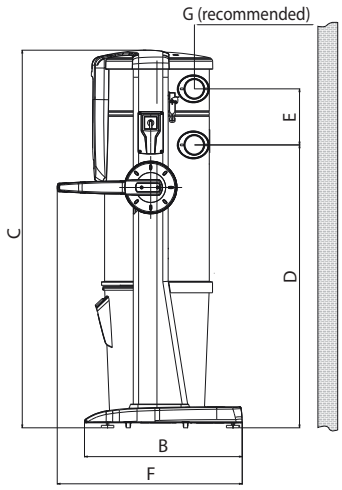


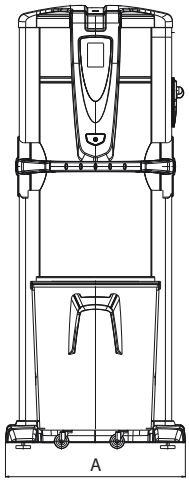
INDUSTRIAL CLEAN

MEASUREMENT AND TECHNICAL DATA

Industrial Clean Small and Industrial Clean Big dust separators are suitable for innumerable solutions of use, thanks to their versatility and ability to be matched with the other components of an industrial central vacuum system. Dust containers are available in two high-capacity sizes and can be used in small, or big industrial applications.
The choice must be made according to the total air flow of the motors to which they are matched, the number of users and the updating of the Autocleaner system.

As dust separators are a component of the system, we recommend making a choice after careful global assessments, taking into account the needs and the features of the system, but also the other components required to get a complete vacuum system.





		Industrial Clean	
Model		Industrial Clean Small	Industrial Clean Big
Article		**3403.0**	**3403.1**
Maintenance computer		YES	YES
Breaker valve		YES	YES
Protection degree	IP	20	20
Supply	V ac	220/240	220/240
Frequency	Hz	50/60	50/60
Filtering surface	cm^2	24000	43400
Dust bin capacity	l	62	106
Weight	kg	53	67
Measure A	mm	615	750
Measure B	mm	633	633
Measure C	mm	1515	1616
Measure D	mm	1135	1148
Measure E	mm	281	281
Measure F	mm	745	745
Measure G	mm	600	600
Measure M (air entrance)	mm	80	100
Measure N (air exhaust)	mm	80	100

APPROVALS

CE marking

IP protection degree

IP 20

Electrical insulation

CLASS I:

Industrial Clean Line

Device in compliance with the following standards:

EC DIRECTIVES:
- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

APPLIED HARMONISED STANDARDS :
- EN 60335-1 : 2012
- EN 60335-2-2 : 2010
- EN 61000-3-2 : 2006 + A2 : 2009
- EN 61000-3-3 : 2008
- EN 55014-1 : 2006 + A1 : 2009
- EN 55014-2 : 1997 + A2 : 2008
- EN 62233: 2008

ROHS DIRECTIVE 2002/95

COMPLIANCE TO REACH DIRECTIVES

N.B. installation must be carried out in strict compliance with current regulations.

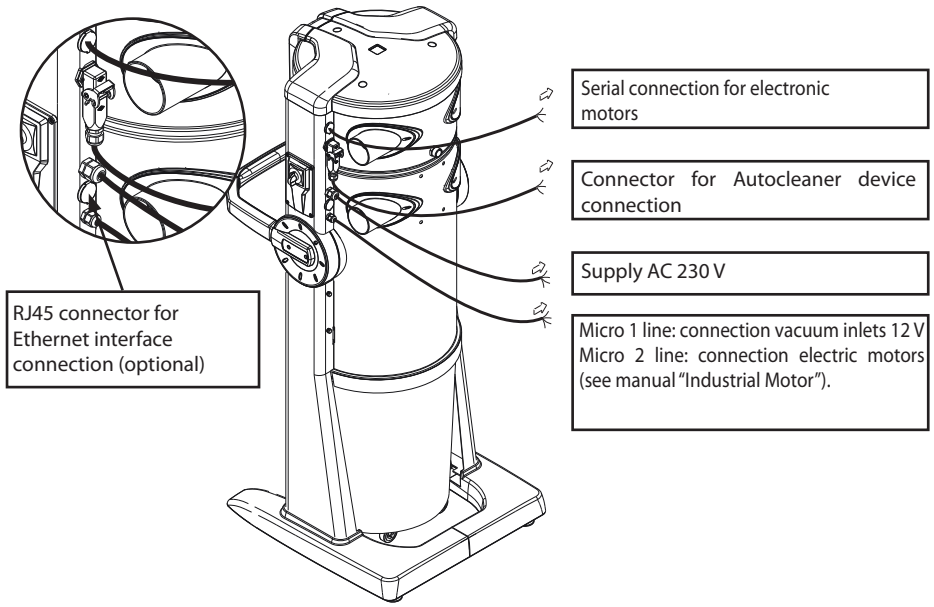
INSTALLATION HINTS

Dust separators are equipped with an air discharge connection, in order to expel dust particles that the filter cannot hold.
They can be placed in soundproofed technical rooms or utility rooms (for example garages, basements, etc…) to protect the other rooms from noise and to keep them protected from bad weather, humidity and temperature extremes. Keep away from heat sources, such as stoves or radiators. (N.B. IP protection degree 20).
In the design stage, we recommend identification of the best location for the central unit with respect to the system, leaving a reasonable space for installation, use, maintenance, a proper air exchange around the unit and passive acoustic requirements of the building.
If the system is installed in a building with several floors, we suggest placing the vacuum unit on the bottom floor.
In case of exposed pipes, to avoid the sediment of dusts on the walls close to the pipes caused by static charges, we recommend making the pipe network with metal pipes, connected to the ground.

INSTALLING THE CENTRAL UNIT

The separator does not require special anchoring. However, it is important to check that the area for installation has the following minimum requirements, in order to be correctly and securely positioned.
- a perfectly flat, horizontal and solid surface, without cracks.
- a vibration free surface. Furthermore it is essential that there are no disconnections that could make the central unit instable.

ELECTRIC CONNECTION



MAINTENANCE AND ASSISTANCE

Programmed routine maintenance of central vacuum units must be done according to the instructions in the technical manual and on the display.
In particular, these routine maintenance cycles concern filter cleaning, emptying of the dust-bin, checking that the electric motor is working correctly, possible air discharge and obstruction checking.
All extraordinary maintenance operations must be carried out by qualified and/or authorised staff.

For more details, technical information and assistance please visit our web site **sistemair.com**

WITH INVERTER

MOTORS

matic

"Matic" models are equipped with an electronic speed converter for the continuous vacuum power regulation.

Industrial Motor
matic

Industrial Motors of Matic line offer an extraordinary vacuum power in all situations, intelligently supplied thanks to the electronic management of an updated inverter, especially with respect to stability in extreme working conditions.
The new generation blowing motors ensure greater efficiency and safety.

Selection table Industrial Motor Matic

MODEL	ARTICLE	Max number of users Ø 32 mm
Industrial Motor Matic 2,2 kW	**3503.2M**	1
Industrial Motor Matic 4 kW	**3513.4M**	2
Industrial Motor Matic 5,5 kW	**3503.6M**	3
Industrial Motor Matic 7,5 kW	**3503.7M**	4
Industrial Motor Matic 11 kW	**3503.11M**	6

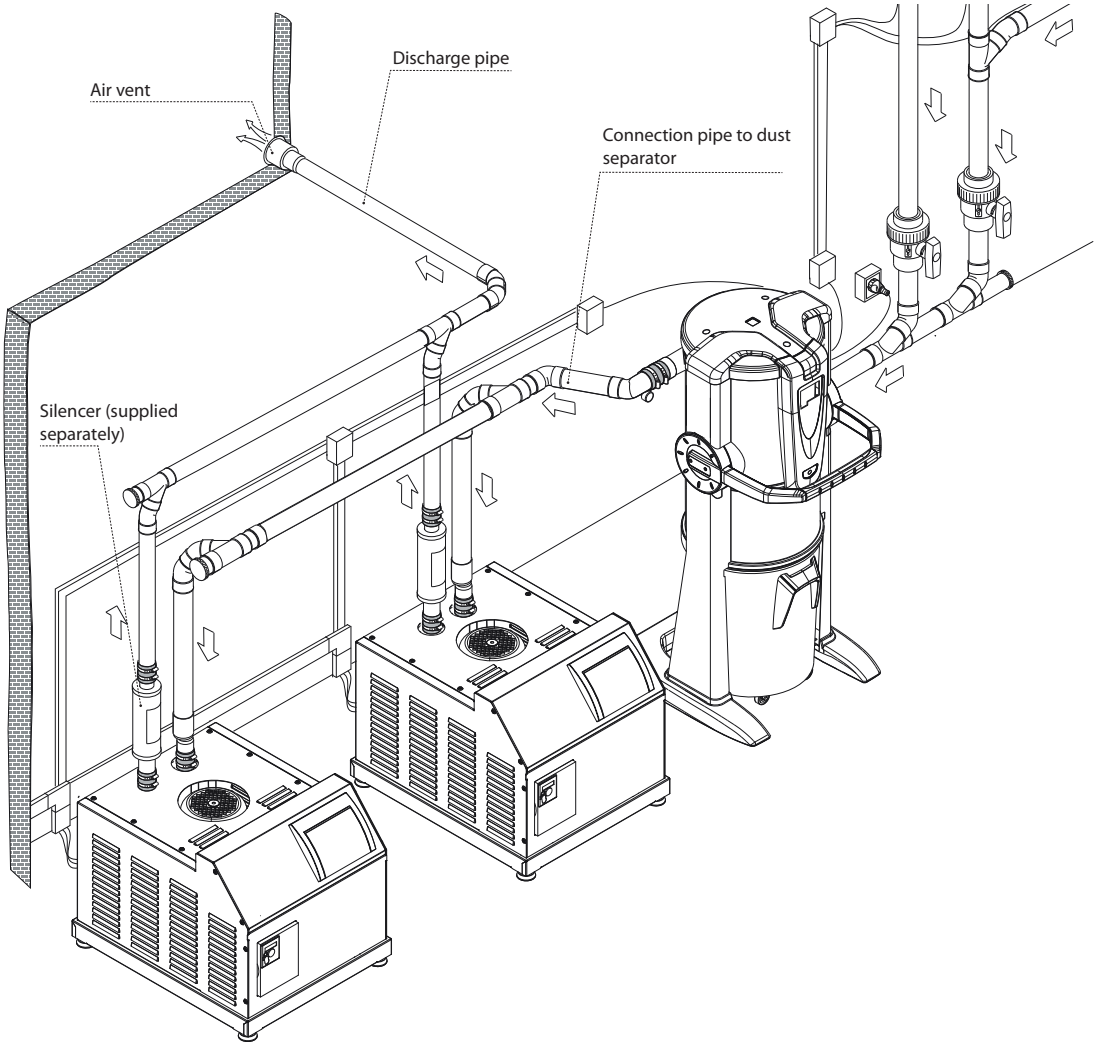
SYNTHETIC CHARACTERISTICS

- **CE marking**
- **IP protection degree**
- **Isolation Class 1**
- **Max number of simultaneous users - multiple users**

INDUSTRIAL MOTOR

Pipe network connection

WARNING: if the discharge pipe exceeds 5 m, it is necessary to install a larger diameter in order to reach the optimal conditions for air expulsion.



TECHNICAL FEATURES

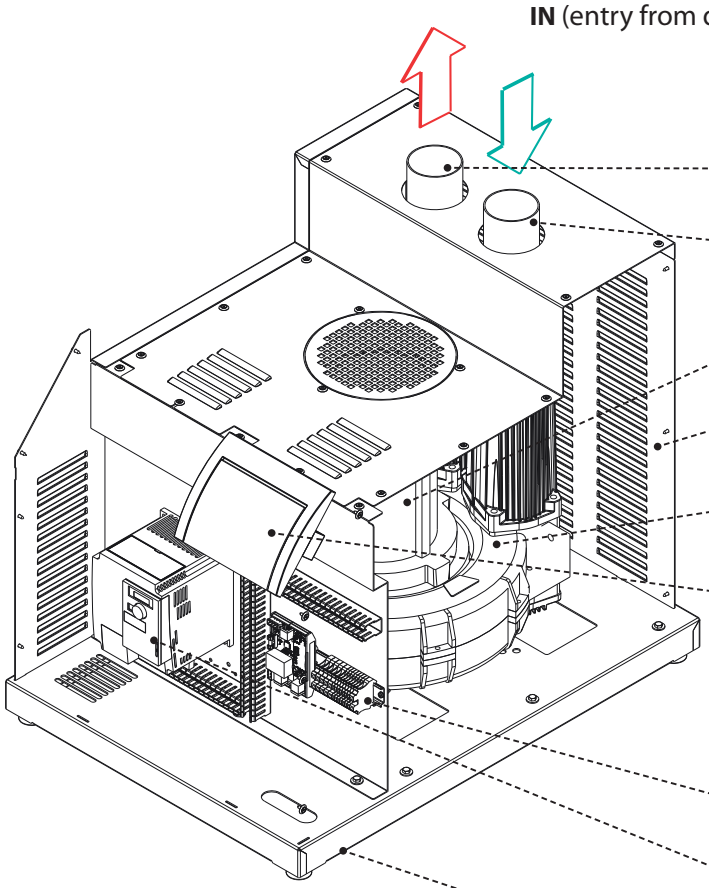
Industrial Motors Matic are designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and capacity. Main technical characteristics can be listed as follows:

- Metal cylindrical frame painted with epoxy powder
- Professional motor with CE marking, IP 55 protection degree, F IEC 2 class, with integrated silencers
- Side-channel motor-pump assembly with light alloy case, high-performance and maintenance-free
- PTO thermal protector
- Motor noise level dB(A): from 60 to 80, according to the models and performances
- Electronic speed converter with self-ventilation and safety system to protect the unit. In abnormal operating conditions, the converter switches the vacuum unit off automatically
- General supply 400 V
- Circuit breaker protection on-board of control panel
- Multiple motor installations, with several motors connected to each other
- RS 485 connection between dust separator and blowing motor
- Automatic management of priority starting in case of multiple motors

Industrial Motor Matic BLOWING MOTOR SECTION

OUT (external discharge)

IN (entry from dust separator)



1 Expulsion connection (with integrated silencer)

2 Vacuum connection (with integrated silencer)

3 Electric motor

4 Protection crankcase

5 Vacuum pump

6 Protection switch

7 Electrical connections/RS 458 (Matic models)

8 Electronic speed converter (Matic models)

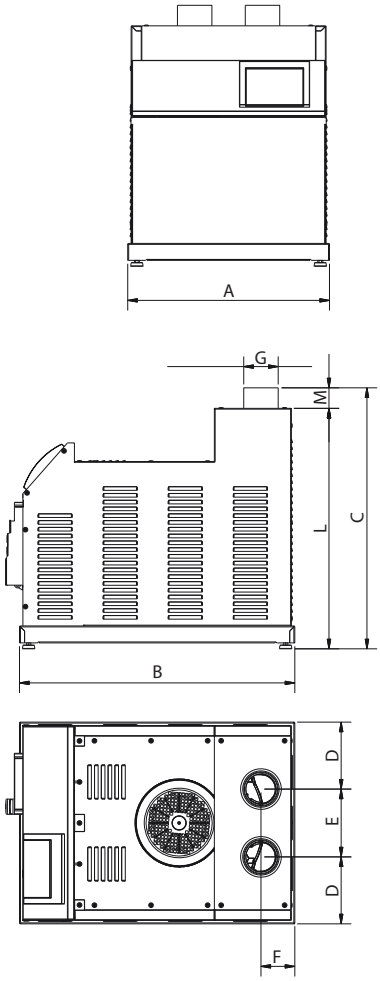
9 Base

INDUSTRIAL MOTOR MATIC - (with inverter)

MEASUREMENTS AND TECHNICAL DATA

Universally appreciated for their power and reliability, the Sistem Air blowing motors can satisfy many vacuum requirements in different fields of application. The modularity of the system allows connection of several motors in order to obtain the right balance between performance and fuel consumption. The blowing motor must be combined with the special dust separator (Industrial Clean line). The composition of the installation is completely customisable, we recommend consulting the chapter "Getting to the choice of industrial equipment" on page 166 .
The choice of the motors should be made by paying attention to the following parameters:
- Number of simultaneous users
- Dimension of the area to clean/pipe network development
- Specific vacuum requirements (particular materials, structural and/or operational constraints, etc.), in order to grant maximum durability and performance over time.

In case of doubt, our agents in charge will be able to recommend the best solution for your plant.



Linea Industrial Motor Matic						
Modello Articolo		**Ind. Motor Matic 2,2 kW**	**Ind. Motor Matic 4 kW**	**Ind. Motor Matic 5,5 kW**	**Ind. Motor Matic 7,5 kW**	**Ind. Motor Matic 11 kW**
		3503.2M	**3513.4M**	**3503.6M**	**3503.7M**	**3503.11M**
Electronic speed converter		YES	YES	YES	YES	YES
Protection degree	IP	20	20	20	20	20
Supply	fasi / V ac	3/400	3/400	3/400	3/400	3/400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Motor power	kW	2,2	4	5,5	7,5	11
Absorption	A	4,6	8,1	11,1	15,7	21,7
Inlets supply	V dc	12	12	12	12	12
Maximum air flow	m^3/h	366	570	740	914	1300
Air discharge		YES	YES	YES	YES	YES
Weight kg		68	89	120	125	150
Measurement A	mm	540	595	595	595	595
Measurement B	mm	660	812	812	812	812
Measurement C	mm	505	765	760	760	765
Measurement D	mm	207,5	220	220	206,5	197,5
Measurement E	mm	125	155	155	182	200
Measurement F	mm	112	162,5	162	130	100
Measurement G (air in/out)	mm	60	80	80	101	101
Measurement L	mm	455	715	710	710	715
Measurement M	mm	50	50	50	50	50
Noise level under	dB(A)	60 ÷ 80				

N. B: Nominal noise values. Values may vary according to environment and manner in which the unit is installed

APPROVALS

CE marking

IP protection degree

IP 20

Electrical insulation

CLASS I

Industrial Motor Matic – Blowing motors
Device in compliance with the following standards

EC DIRECTIVES:
- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

APPLIED HARMONISED STANDARDS :
- EN 60335-1 : 2012
- EN 60335-2-2 : 2010
- EN 61000-3-2 : 2006 + A2 : 2009
- EN 61000-3-3 : 2008
- EN 55014-1 : 2006 + A1 : 2009
- EN 55014-2 : 1997 + A2 : 2008
- EN 62233: 2008

ROHS DIRECTIVE 2002/95

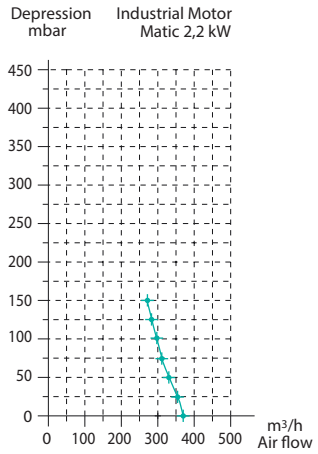
COMPLIANCE TO REACH DIRECTIVES.

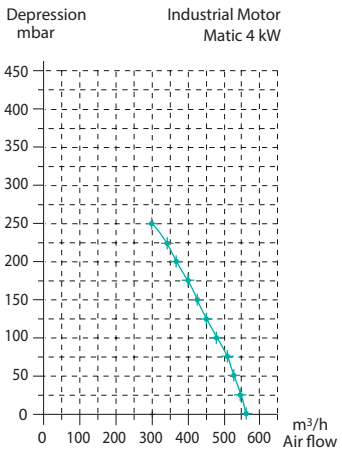
N.B.: installation must be carried out in strict compliance with current regulations.

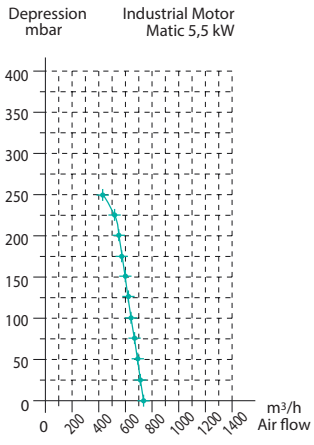
INSTALLATION HINTS

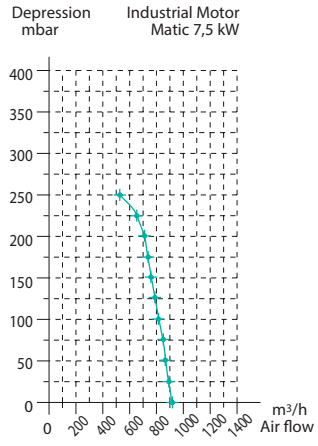
Blowing motors are equipped with an air discharge connection, in order to expel dust particles that the filter cannot hold.
They can be placed in soundproofed technical rooms or utility rooms (for example garages, basements, etc.) to protect the other rooms from noise and to keep them protected from bad weather, humidity and temperature extremes. Keep away from heat sources, such as stoves or radiators. (N.B.: IP protection degree 20).
In the design stage, we recommend identification of the best location for the central unit with respect to the system, leaving a reasonable space for installation, use, maintenance, a proper air exchange around the unit and passive acoustic requirements of the building.
If the system is installed in a building with several floors, we suggest placing the vacuum unit on the bottom floor.
In case of exposed pipes, to avoid dust deposits on the walls close to the pipes caused by static charges, we recommend making the pipe network with metal pipes, connected to the ground.

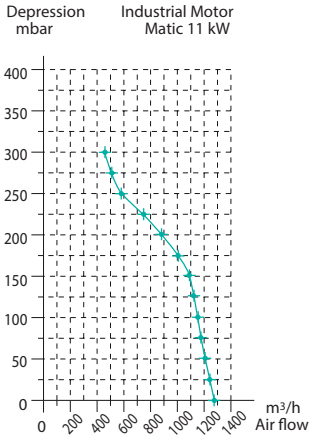
PERFORMANCE GRAPHS











MAINTENANCE AND ASSISTANCE

Programmed routine maintenance of central vacuum units must be done according to the instructions in the technical manual and on the display.
Checking that the electric motor is working correctly and possible air discharge obstructions must be carried out by qualified and/or authorised staff.
For more details, technical information and assistance please visit our web site **sistemair.com**


Industrial Motor
Industrial SISTEM AIR
Industrial Motor
Industrial SISTEM AIR

Industrial Motor

The motors of the Industrial Motor line are specific for all those applications where the vacuum power modulation is not required, but must remain constant throughout the cycle of use.
In case of several operators at the same time, the change of power will be managed by a special switchboard.
The absence of the inverter should not be seen as a penalty, but as a requirement to make them able to operate in extreme conditions of load or particularly heavy load.
These blowing motors are also new generation, characterised by increased energy efficiency.

SELECTION TABLE Industrial Motor

MODEL	ARTICLE	Max number of users
Industrial Motor 4 kW	**3500.3M**	2
Industrial Motor 5,5 kW	**3500.5M**	3

SYNTHETIC CHARACTERISTICS

CE marking

IP protection degree

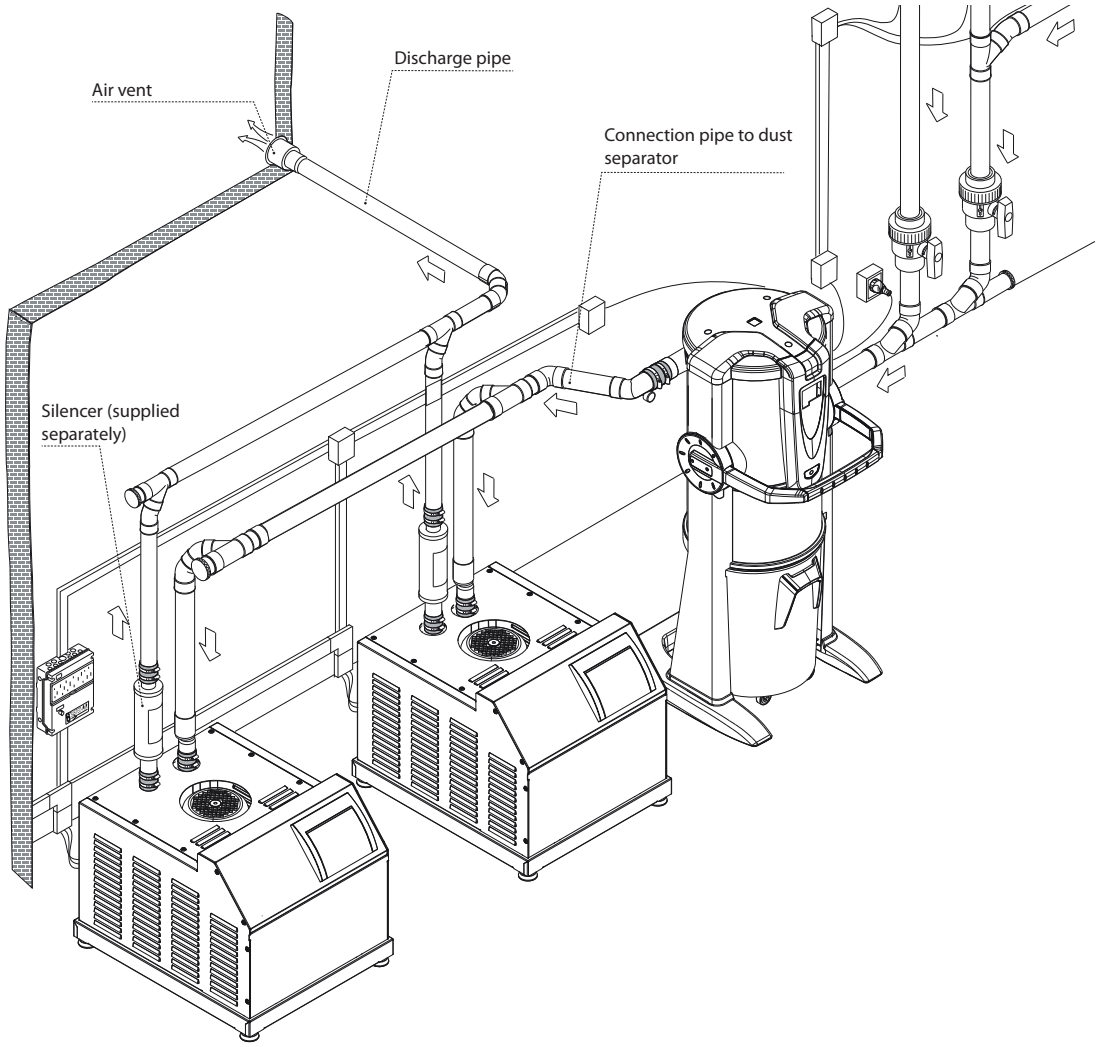
Isolation Class 1

Max number of simultaneous users - multiple users

INDUSTRIAL MOTOR

PIPE NETWORK CONNECTION

WARNING: if the discharge pipe exceeds 5 m, it is necessary to install a larger diameter in order to reach the optimal conditions for air expulsion.

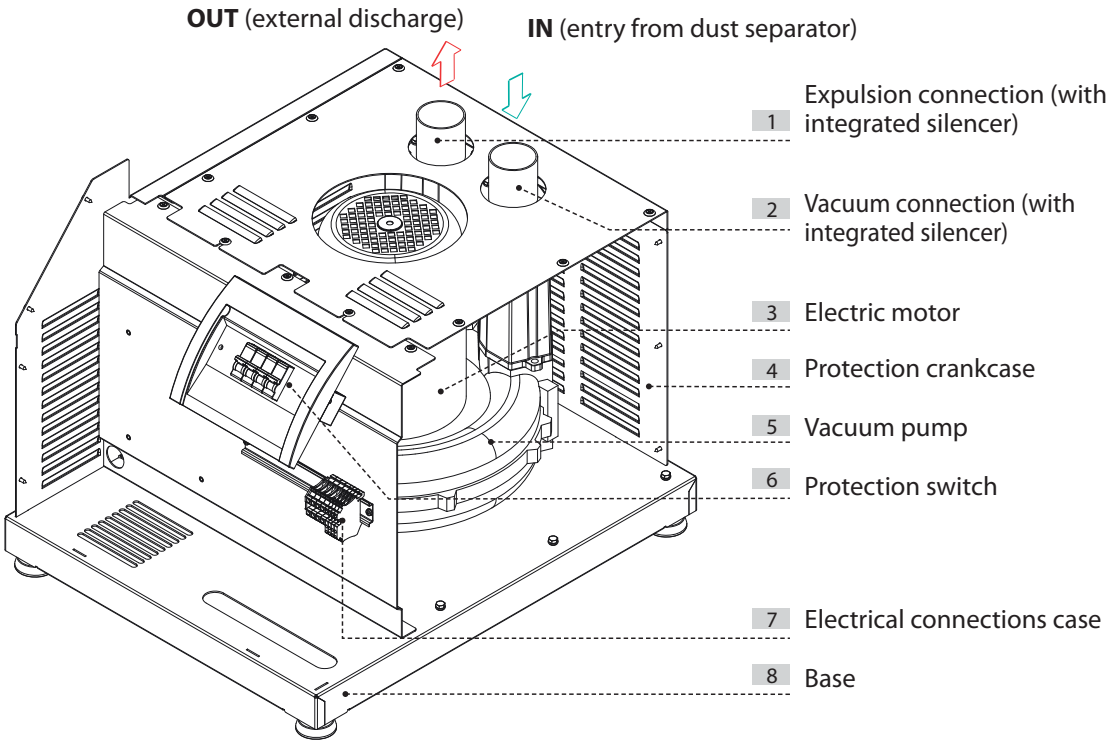


TECHNICAL FEATURES

Industrial Motors are designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and capacity. Main technical characteristics can be listed as follows:

- Metal cylindrical frame painted with epoxy powder
- Professional motor with CE marking, IP 55 protection degree, F IEC 2 class, with integrated silencers
- Side-channel motor-pump group with light, high-performance and maintenance-free alloy case
- Motors noise level dB(A): from 60 to 80, according to the models and performance
- General supply 400 V
- Circuit breaker protection on-board of control panel
- Multiple installations, with electronic panel

INDUSTRIAL MOTOR BLOWING MOTOR SECTION

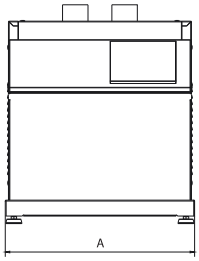


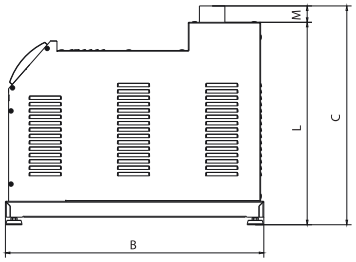
INDUSTRIAL MOTOR

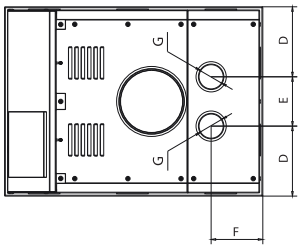
MEASUREMENTS AND TECHNICAL DATA

The Industrial motors are not equipped with the electronic speed converter and are used in all applications that don't require continuous vacuum power regulation. They represent the basic version of their category. They need control panels and resistive dividers connected to the individual outlets for connection.
The choice of the motors should be made by paying attention to the following parameters:
- Number of simultaneous users
- Dimension of the area to clean/pipe network extent
- Specific vacuum requirements (particular materials, structural and / or operational constraints, etc.), in order to grant maximum durability and performance over time.

In case of doubts, our agents in charge will be able to recommend the best solution for your plant.







Linea Industrial Motor			
Model		**4 kW**	**5,5 kW**
Article		**3500.3M**	**3500.5M**
Electronic speed converter		NO	NO
Protection degree	IP	20	20
Supply	fasi / V ac	3/400	3/400
Frequency	Hz	50/60	50/60
Motor power	kW	4	5,5
Absorption	A	8,1	11,1
Inlets supply	V dc	12	12
Maximum air flow	m^3/h	414	536
Air discharge		SI	SI
Weight kg		79	110
Measurement A	mm	540	595
Measurement B	mm	685	812
Measurement C	mm	560	765
Measurement D	mm	192,5	220
Measurement E	mm	155	155
Measurement F	mm	100	162,5
Measurement G (air in/out)	mm	80	80
Measurement L	mm	510	713
Measurement M	mm	50	52
Noise level under	dB(A)	60 ÷ 80	

N. B: Nominal noise values. Values may vary according to environment and manner in which the unit is installed.

APPROVALS

CE marking

IP protection degree

IP 20

Electrical insulation

CLASS I

Industrial Motor line
Device in compliance with the following standards:

EC DIRECTIVES:
- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

APPLIED HARMONISED STANDARDS :
- EN 60335-1 : 2012
- EN 60335-2-2 : 2010
- EN 61000-3-2 : 2006 + A2 : 2009
- EN 61000-3-3 : 2008
- EN 55014-1 : 2006 + A1 : 2009
- EN 55014-2 : 1997 + A2 : 2008
- EN 62233: 2008

ROHS DIRECTIVE 2002/95

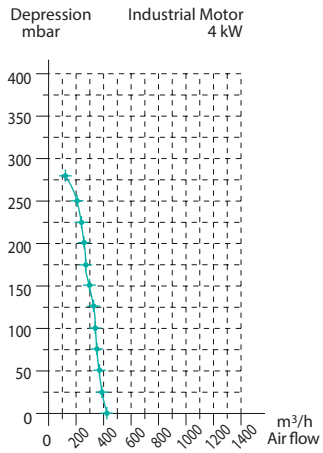
COMPLIANCE TO REACH DIRECTIVES.

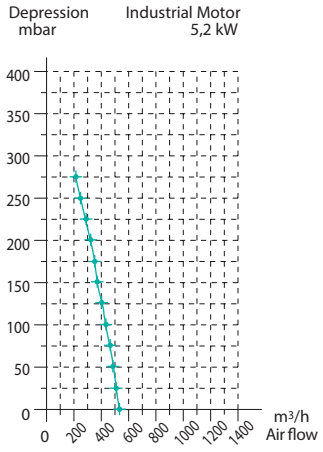
N.B. installation must be carried out in strict compliance with current regulations.

INSTALLATION HINTS

Blowing motors are equipped with an air discharge connection, in order to expel dust particles that the filter cannot hold.
They can be placed in soundproofed technical rooms or utility rooms (for example garages, basements, etc.) to protect the other rooms from noise and to keep them protected from bad weather, humidity and temperature extremes. Keep away from heat sources, such as stoves or radiators. (N.B. IP protection degree 20).
In the design stage, we recommend identification of the best location for the central unit with respect to the system, leaving a reasonable space for installation, use, maintenance, a proper air exchange around the unit and passive acoustic requirements of the building.
If the system is installed in a building with several floors, we suggest placing the vacuum unit on the bottom floor.
In case of exposed pipes, to avoid the deposit of dust on the walls close to the pipes caused by static charges, we recommend making the pipe network with metal pipes, connected to the ground.

PERFORMANCE GRAPHS





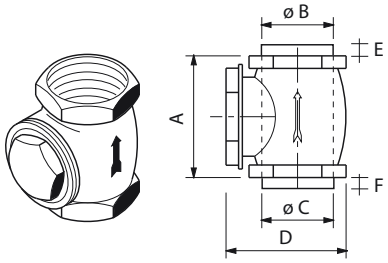
MAINTENANCE AND ASSISTANCE

Programmed routine maintenance of central vacuum units must be made according to the instructions in the technical manual and on the display.
Checking that the electric motor is working correctly and possible air discharge obstructions must be carried out by qualified and/or authorised staff.
For more details, technical information and assistance please visit our web site **sistemair.com**

INSTALLATION ELEMENTS

CHECK VALVES FOR MOTOR MATCHING

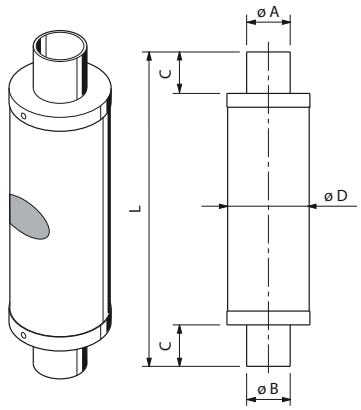
The check valve must be installed on each single motor, if in the same system more vacuum groups are matched. It must be installed directly on the air connection of the motor, to ensure the maintenance of the vacuum air when one motor is in use and the other is off.



ARTICLE	MEASUREMENT	PIPE DIAMETER	A mm	B mm	C mm	D mm	E mm	F mm	PACKAGING PC	EACH MOTOR ARTICLE
0110001	2"	63	97	63	63	92	52	52	1	3500.1M 3503.2M
0110003	3"	80	136	80	80	132	70	70	1	3500.3M 3500.5M 3503.6M 3513.4M
0110002	4"	100	165	4"F	4"M	170	-	55	1	3503.7M 3503.11M

SILENCER

Silencer must be installed directly on the motor in order to reduce the noise, for additional silence it is possible to add more silencers.

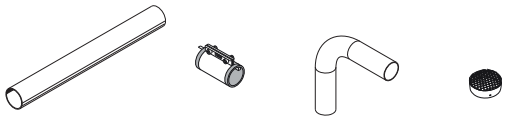


ARTICLE	MEASUREMENT	PIPE DIAMETER	A mm	B mm	L mm	C mm	D mm	PACKAGING PC	EACH MOTOR ARTICLE
11001	2"	63	60	60	455	60	120	1	3500.1M 3503.2M
11002	3"	80	80	80	455	60	140	1	3500.3M 3500.5M 3503.6M 3513.4M
11003	4"	100	100	4"M	595	80	160	1	3503.7M 3503.11M

METAL EXHAUST KIT

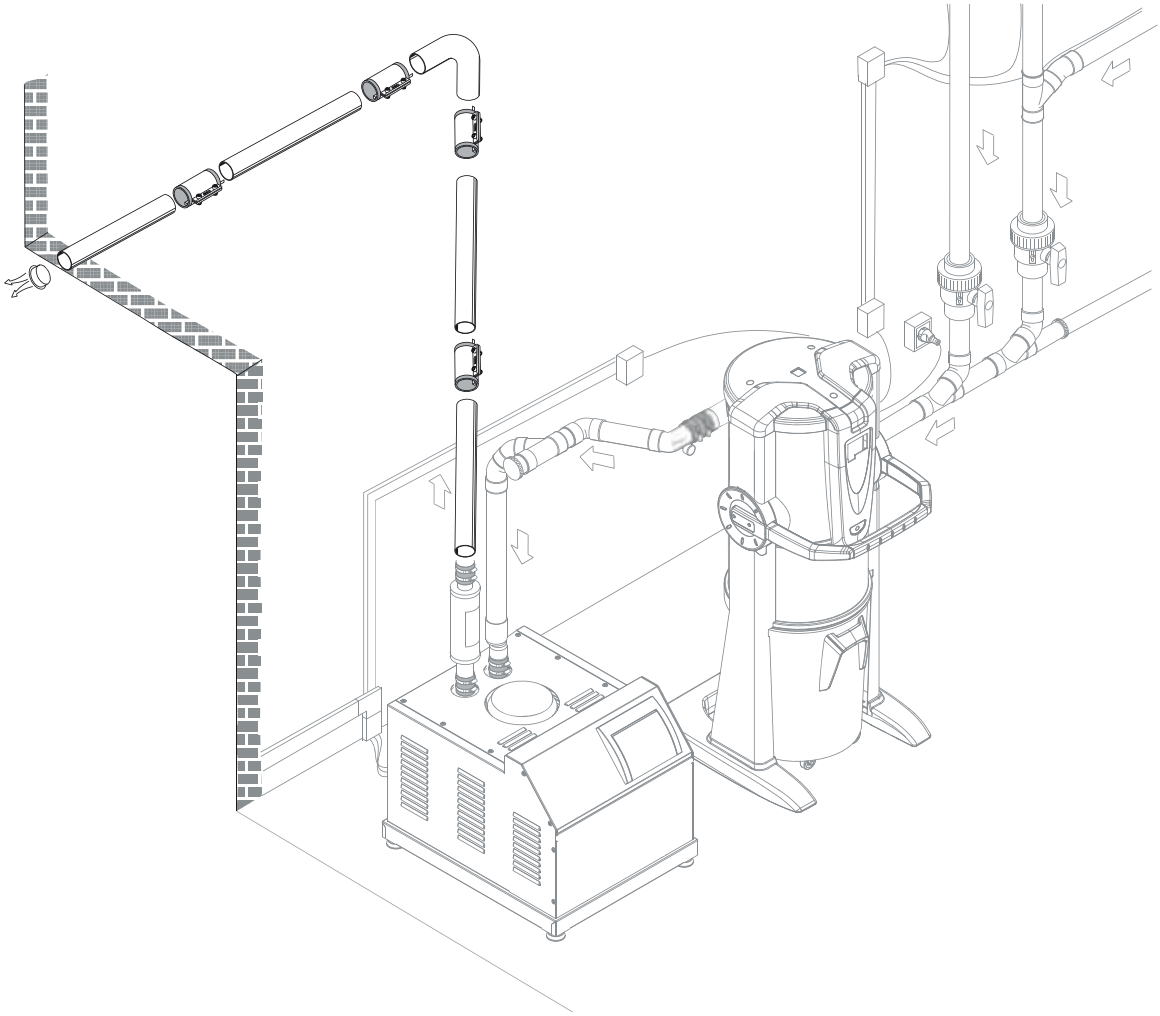
The metal exhaust kits allow you to create the firstpart of the air exhaust in the industrial motors and suction units for professional applications.
In particular conditions of use, the exhausted air could reach high temperatures, such as to compromise the PVC pipes,
causing their melting: in these cases it is advisable to make the exhaust line with metal pipes, dimensioning it according to the diameter of the motor exhaust and the total length of this line. The exhaust kits can be added together, in order to create the exhaust line desired.
For correct sizing of the exhaust line, we recommend to contact the Sistem Air technical office.

METAL EXHAUST KIT



Article	Description	1 m pipe bar pcs	Junction sleeve pcs	90° elebow pcs	Vent grid pcs
7020.63	Ø 60 steel air exhaust kit	4	4	1	1
7020.80	Ø 80 steel air exhaust kit	4	4	1	1
7020.10	Ø 100 steel air exhaust kit	4	4	1	1

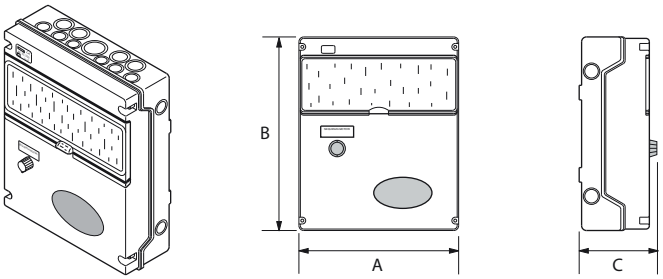
METAL EXHAUST KITS CONNECTION



INSTALLATION ELEMENTS

MOTOR SELECTION PANEL (electric motors only)

The electric panel for motors selection call is used when many motors have been installed on a single system, without electronic speed converter.
The internal electronic system allows, through a resistive divider (art. 3301.4) installed on the micro switch line, to manage the switching on and off of one or more motors of the system, according to the number of vacuum inlets used, and to manage the working hours of each single motor.
In fact, it is possible to reverse the priority of the motors by a cyclical switch, in order to balance the motor use.



ARTICLE	MAX MOTORS	SUPPLY Volt ac	PACKAGING Pc	Size A	Size B	Size C	FOR MOTOR Article
3301.6	2	220/240	1	330	400	140	**3500.3M** **3500.5M**
3301.0	3	220/240	1	330	400	140	

CONTROL PANEL FOR MOTOR SPEED MODULATION

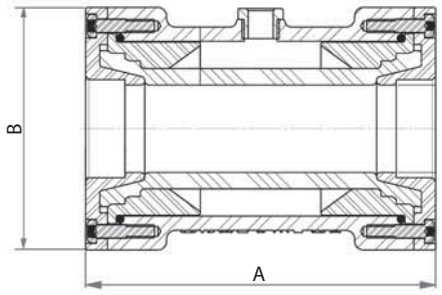
The control panel for motor speed modulation is used in case of electronic motor installation.
The internal electronic system allows, through a resistive divider (art. 3301.4) installed on the micro switch line, to manage the speed of the motor, according to the number of vacuum inlets used, obtaining the best performances with lowest consumption.
The system provides up to four switching levels (4 speeds) and it is suitable for all electronic units, even with different power

ARTICLE	MOTORS MAX	SUPPLY Volt ac	PACKAGING Pcs	Size A	Size B	Size C	FOR MOTOR Article:
3301.5	1 x max 4 velocità	220/240	1	330	400	140	**3503.2M** **3513.4M** **3503.6M** **3503.7M** **3503.11M**

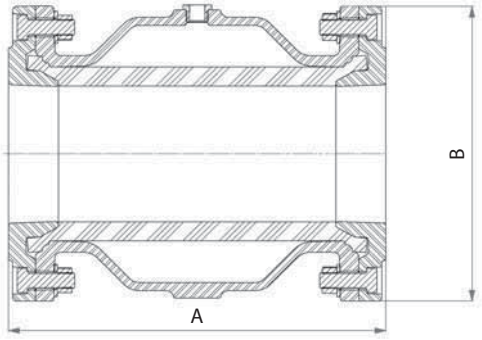
PNEUMATIC SLEEVE VALVES 230 V AC

Sleeve valves are used in all those situations where it is necessary to open and close automatically, even with a great frequency, a pipe section. Inside there is a rubber membrane, resistant to abrasion and chemical agents, which is inflated with compressed air controlled by a solenoid valve. The command can be manual (coming from an operator) or automatic (control unit or PLC), and causes the opening or hermetic closure of the pipe to which the valve is connected.

ARTICLE	DESCRIPTION	Inlet diameter D mm	Solenoid valve power supply V ac	Power VA	Working pressure bar	Degree of protection	Measurement A mm	Measurement B mm	PACKAGING PC
1456.5MA	Ø 50 mm 230 V ac pneumatic sleeve valve	50	230	3,5	4,5	IP65	170	130	1
1456.4MA	Ø 60 mm 230 V ac pneumatic sleeve valve	60	230	3,5	6	IP65	183	185	1
1456.6MA	Ø 80 mm 230 V ac pneumatic sleeve valve	80	230	3,5	6	IP65	228	200	1



Section art 1456.5MA - 1456.4MA



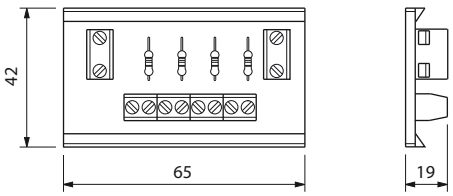
Section art 1456.6MA

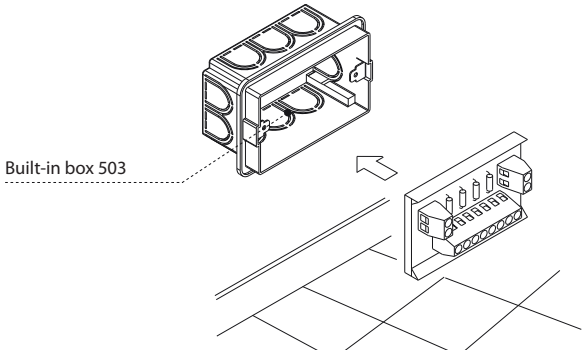
RESISTIVE DIVIDER (for electric motors only)

The resistive divider is essential for the vacuum power change in case of many electric motors.
Each resistive divider can hold up to four vacuum inlets that can be connected one to each other without limits.

IMPORTANT

- The selection between electric motors or electronic motors must be set up during installation on the dust separator computer.



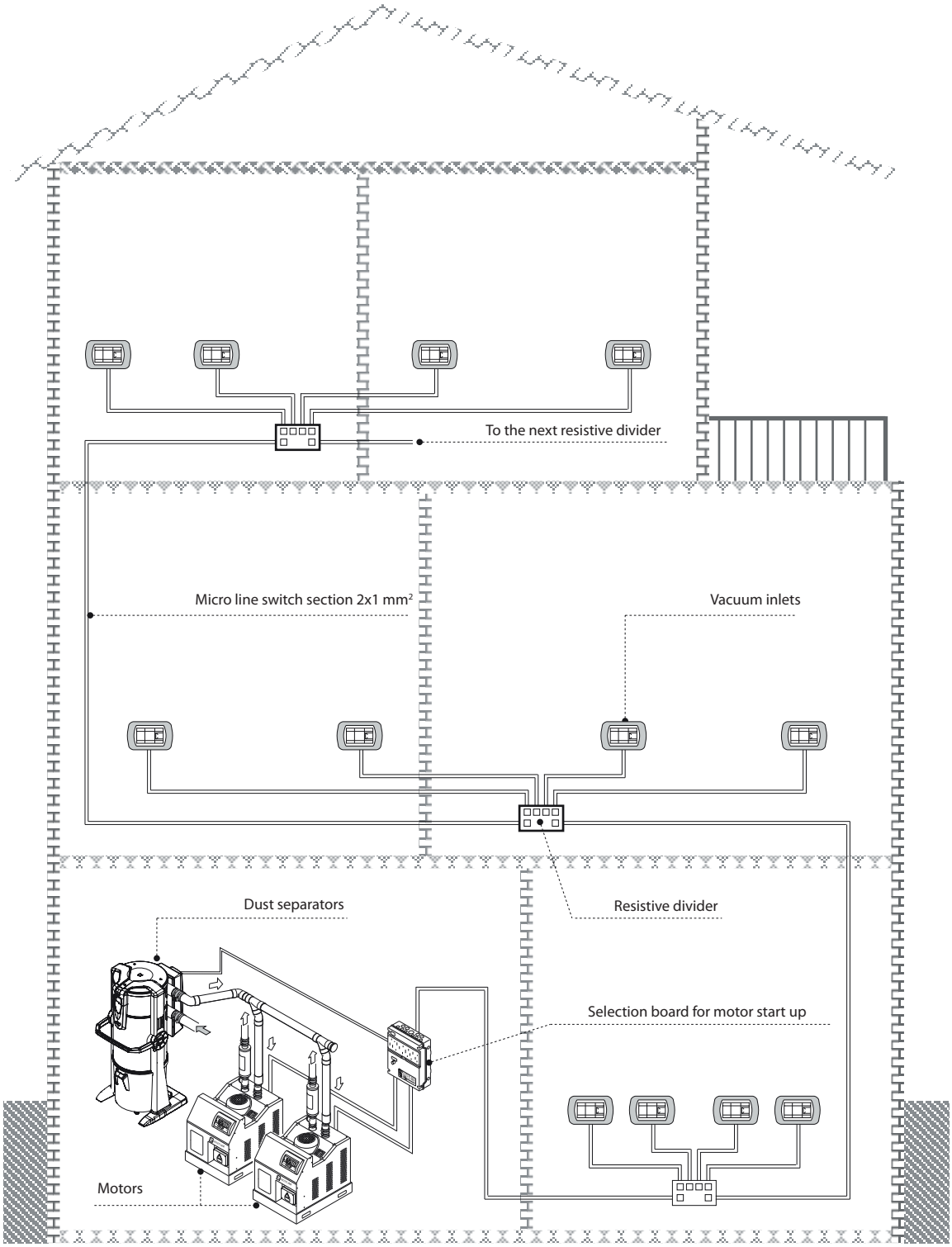


ARTICLE	PRODUCT DESCRIPTION	Packaging Pc
3301.4	Resistive divider with 4 entries	1

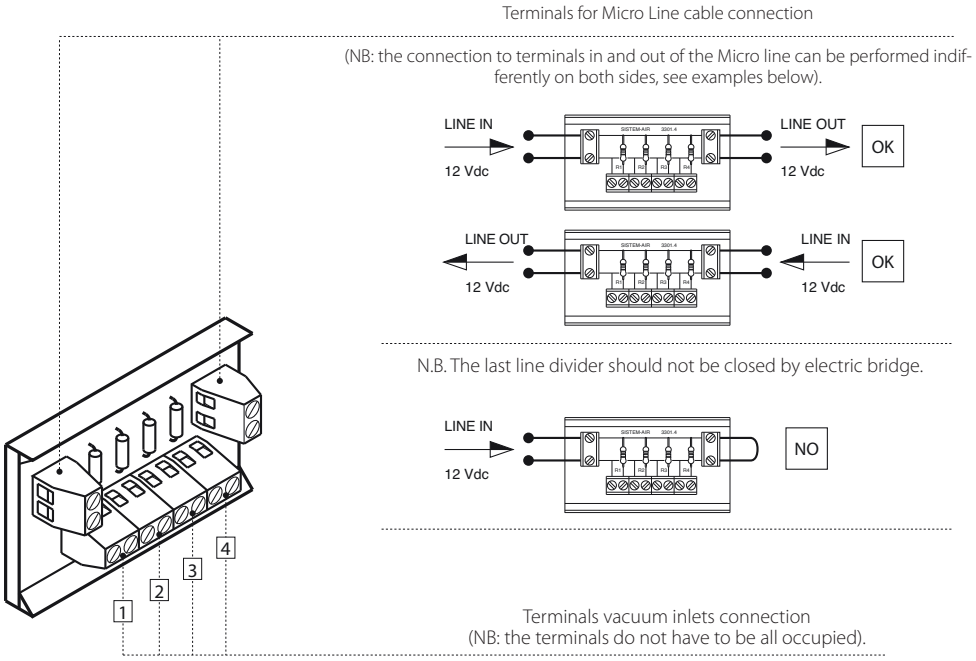
INSTALLATION ELEMENTS

INSTALLATION EXAMPLES OF RESISTIVE DIVIDERS

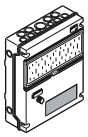
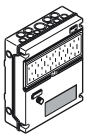
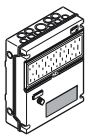
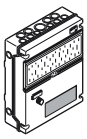
The resistive divider is essential when you want several users on the vacuum system simultaneously with the motors **without electronic speed converter.**
Each divider can hold up to four inlet valves, connected to each other with no maximum limit.
The following shows schematically an example of installation of micro line with resistive dividers.



INSTALLATION ELEMENTS CONNECTION EXAMPLES



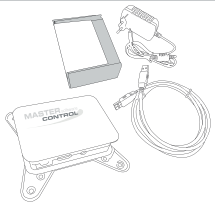
ACCESSORY TABLE

MODEL	ARTICLE	Selection table for max 2 users Q.ty= 1 pc.	Selection table for max 3 users Q.ty= 1 pc.	Selection table for max 8 users Q.ty= 1 pc.		Control panel for motor speed modulation Q.ty= 1 pc.
						
		Art.	Art.	Art.		Art.
Industrial Motor Matic 2,2 kW	**3503.2M**	-	-	-		3301.5
Industrial Motor 4 kW	**3500.3M**	3301.6	3301.0	3301.10		-
Industrial Motor Matic 4 kW	**3513.4M**	-	-	-		3301.5
Industrial Motor 5,5 kW	**3500.5M**	3301.6	3301.0	3301.10		-
Industrial Motor Matic 5,5 kW	**3503.6M**	-	-	-		3301.5
Industrial Motor Matic 7,5 kW	**3503.7M**	-	-	-		3301.5
Industrial Motor Matic 11 kW	**3503.11M**	-	-	-		3301.5

MASTER CONTROL REMOTE CONTROL SYSTEM

Master Control is the innovative communication system designed by Sistem Air for the remote monitoring of industrial and professional vacuum units.
The system consists of two elements:

LAN BOARD



LAN BOARD MASTER CONTROL		
Article	Description	Packaging Pcs
4202.1	Scheda LAN Master Control Sistem Air	1

The Master control connection board represents **the interface that allows the transmission of the information shown on the display** on a local network, to which both the vacuum unit and the control PC are connected.
It can be used on the vacuum units model:
• Revo Block Professional line (all models)
• Industrial Clean dust separator (both Small and Big - Basic models, which haven't the computer, are excluded).
Each control unit, to be connected to the network, needs a connection boar

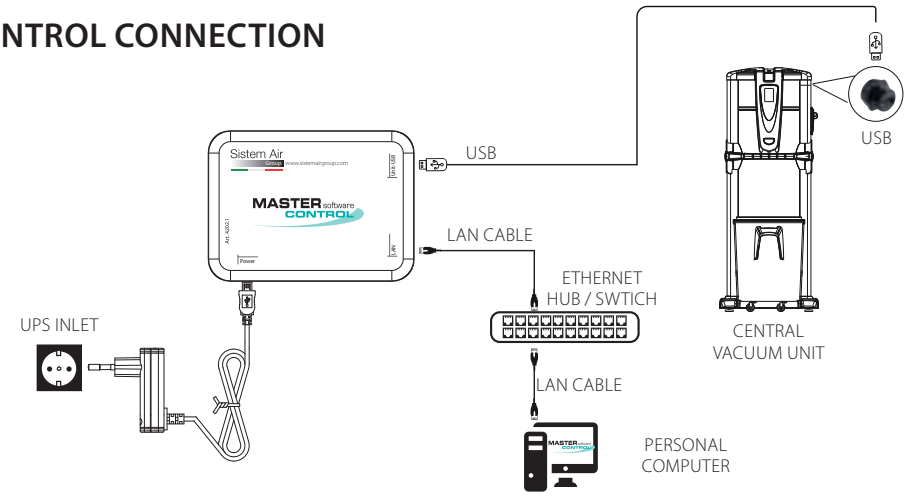
MASTER CONTROL SOFTYWARE

MASTER CONTROL SOFTYWARE		
Article	Description	Packaging Pcs
4202.0	MASTER CONTROL SOFTYWARESistem Air	1

The Master control software must be installed on a PC and allows the **control of all the vacuum units connected to the network** of the building.
When a maintenance warning appears on the machine display, the corresponding icon on the PC turns red, attracting the attention of the operator, which will show what it is. At this point it is possible to open the instruction sheet linked to this warning: if it is
an operation that can be carried out by the internal staff, it is possible to print an **intervention form** to be given to the maintenance technician, or view a **video tutoria**l (previously made on site and saved on the PC) that explains how to operate. In this way anyone can carry out the maintenance (mainly emptying the dust bin and cleaning the filter cartridge).
If the maintenance requires the intervention of a specialized technician, the telephone number to contact, previously saved in the unit memory during the first installation, will appear.

If on the PC where the Master Control software is installed there is any remote desktop viewing program (there are are different on the market), it is possible to carry out a **remote diagnostic** analysis, where the specialized technician consults the customer's display e
can establish in advance what the problem could be, shortening the intervention times.
NOTE: the **Master Control system does not replace human intervention** in carrying out maintenance and does not allow the remote reset of the various
alarms: this is a safety feature deliberately setted to avoid that machine warnings being ignored to the detriment of its integrity of operation

MASTER CONTROL CONNECTION

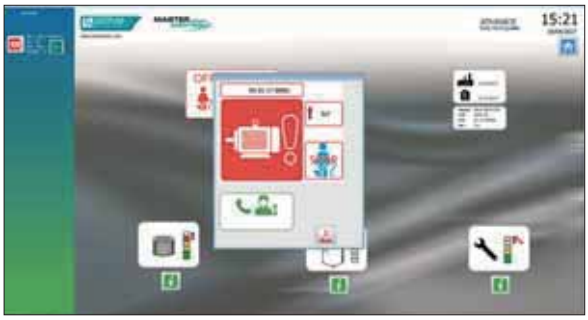


EXAMPLE OF MASTER CONTROL SCREENS

Synthetic screen where to each vacuum unit connected is associated an icon that identifies it. In this case there are three units without any maintenance notice (green icon).

By clicking on the icon of each unit, the operating data and maintenance information are displayed

When a warning appears on the unit display, the relative icon turns red, visually signaling the anomaly to the operator.



By opening the icon it is possible to see the error message that appears on the display.

For the required maintenance, it is possible to print a form, to give to the maintenance technician, with an explanation of the intervention to be performed.

It is also possible to recall a video tutorial of the required maintenance, which was previously created and saved on the PC, in order to further simplify this operation.

Autocleaner
universal system
SISTEMA AIR

Autocleaner
universal system

Autocleaner is the innovative system of automatic filter cleaning, independent from the body of the vacuum unit, so as to make it installable later or, more simply, more manageable in case of maintenance operation.

SELECTION TABLE

ARTICLE	DESCRIPTION	PACKAGING Pc.
3600.0U	Autocleaner Universal system	1

SYNTHETIC CHARACTERISTICS

CE mark

IP protection degree

Isolation Class 1

DISTINCTIVE FEATURES OF THE PRODUCT

1 - Universal system

Designed to simplify and standardise its installation as much as possible, Autocleaner can be applied to the models listed below, both during system installation and later.

☑ Tecnostar Dual Power

☑ Revo Block Professional (full range)

☑ Industrial Clean (both models)

2 - Maintenance free

Thanks to its components, Autocleaner doesn't need maintenance.

3 - Immediate use

The connection to the vacuum unit is made just connecting the compressed air pipe to the vacuum unit and inserting the multipolar electrical connector into the input provided on the vacuum unit. At this point the self-cleaning system can be activated by the computer of the unit.

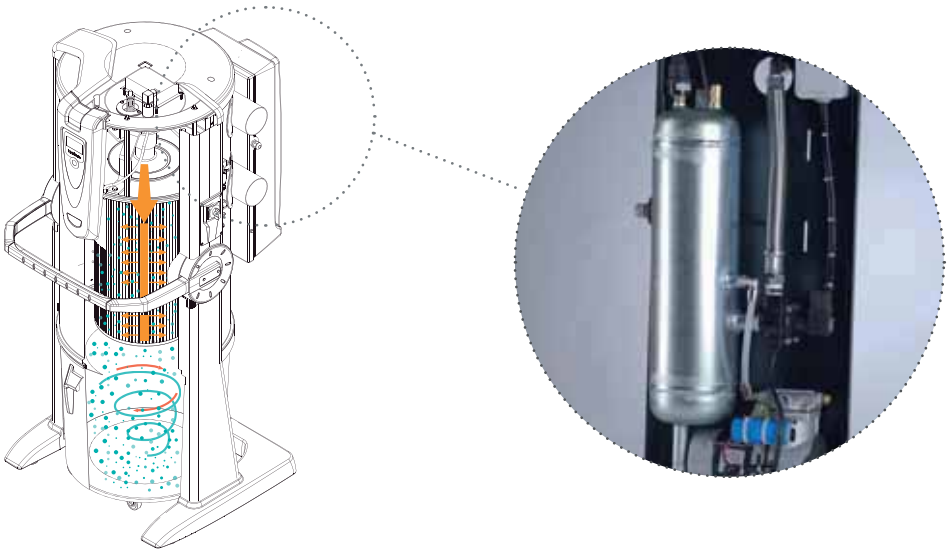
AUTOCLEANER

4 - Management software present on the unit , that manages:

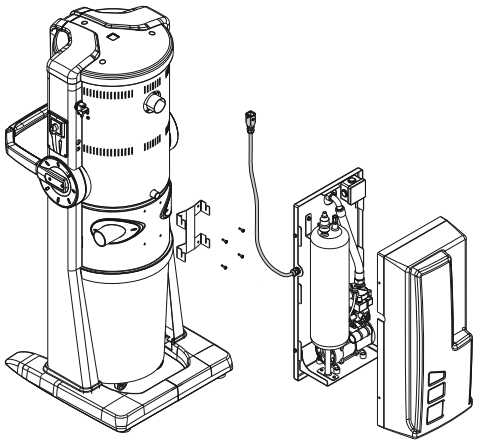
- Selection of Autocleaner series
- Change Autocleaner working times
- Eliminate the Autocleaner cycles in the night hours

5 - Great efficiency

The use of a jet of compressed air is the most effective method to rid the filter of the vacuum cleaner by the dust: Autocleaner combines this efficiency with ease of installation, packaged in an extremely professional product.

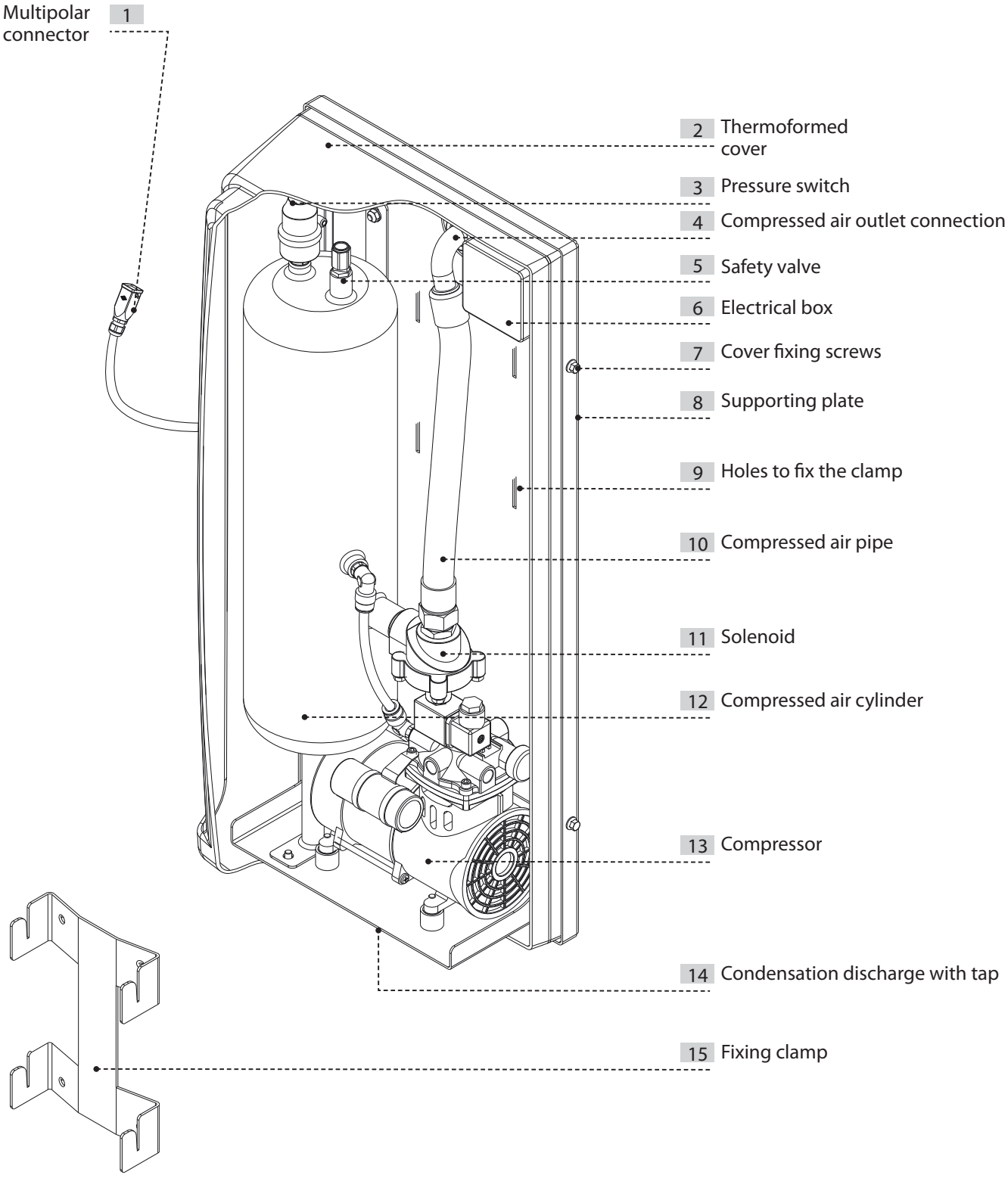


INSTALLATION



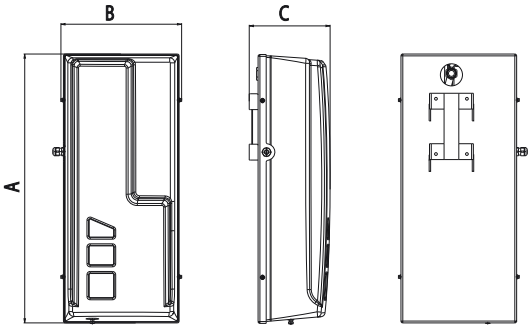
1 - Remove the four screws on the back part of the cylinder and use them to fix the support clamp supplied with Autocleaner.
2 - Hook the Autocleaner device to the support and make electric and pneumatic connection.

AUTOCLEANER SECTION



AUTOCLEANER

MEASUREMENT AND TECHNICAL DATA



Autocleaner		
Model **Article**		Autocleaner **3600.0U**
Air exit	Ø"	3/4
Protection degree	IP	40
Power supply	V ac	220/240
Frequency	Hz	50/60
Power	W	250
Absorption	A	1,3
Air pressure	bar	3,5
Cylinder capacity	l	6
Measurements A	mm	730
Measurements B	mm	328
Measurements C	mm	220

APPROVALS

IP protection degree

IP 40

Electrical insulation

CLASS 1

EC DIRECTIVES:
- 2006/42/CE
- 2014/35/UE (VLD)
- 2014/30/UE (EMC)

ROHS DIRECTIVE 2002/95

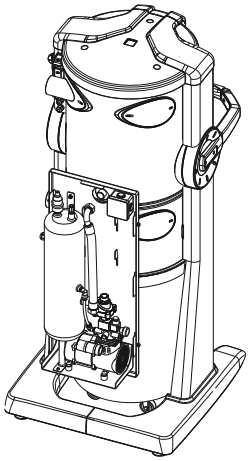
COMPLIANCE TO REACH DIRECTIVES.

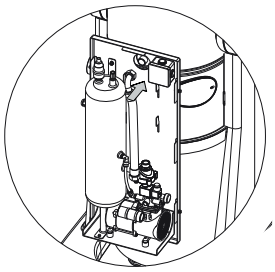
Device in compliance with the following directives:

Autocleaner - automatic cleaning filter system

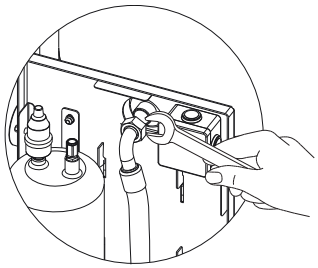
N.B. installation must be carried out in strict compliance with current regulations.

PNEUMATIC CONNECTION



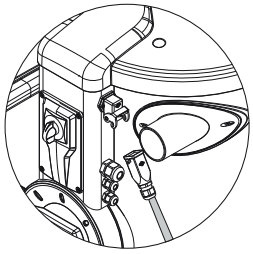


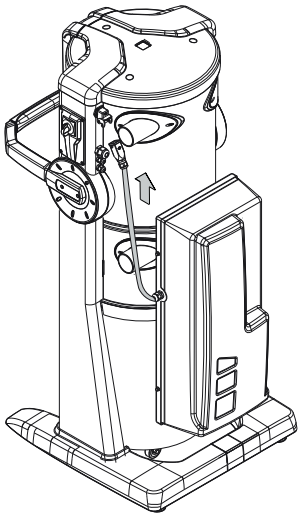
1 - After connecting the Autocleaner on the fixing bracket, position the compressed air hose fitting at the entrance at the rear on the back part of the vacuum unit.



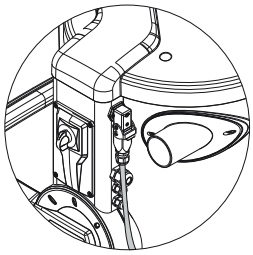
2 - Screw the connection (female) on the entrance (male) using the supplied gasket, keeping it tight.

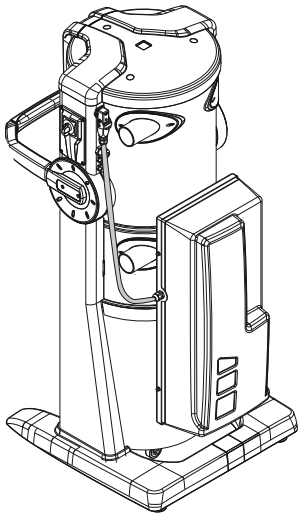
ELECTRIC CONNECTION





1 - Remove the connector cap on the vacuum unit.





2 - Connect the plug on the Autocleaner and close the safety catch.

Autocleaner

universal system

Great flexibility in scheduling the execution of pneumatic cleaning of the filter, to always have the maximum effectiveness of the system.


TURBIX
M-TURBIX
B-TURBIX
B-TURBIX

The cyclonic separators of the Turbix line are used for vacuuming large quantities of dust, especially fine dusts, in order to intercept and drop them down, avoiding excess deposits on the walls of the filter, that would cause its obstruction, with the consequent reduction in vacuum power and the need for frequent maintenance.
They are available in three different sizes, depending on the diameter of the line to which they are connected and of the vacuum unit.

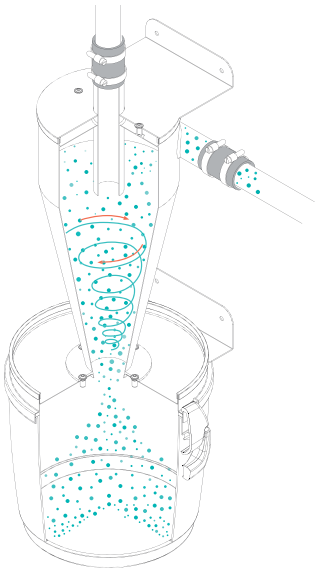
SELECTION TABLE TURBIX MODEL

MODEL	ARTICLE	Connections IN/ OUT Ø mm	Dust container capacity l
Turbix Small	**3400.10**	50	21
Turbix Medium	**3400.11**	60	40
Turbix Big	**3400.12**	80	70
Turbix Big XL	**3400.13**	100	106

MAIN FEATURES OF THE PRODUCT

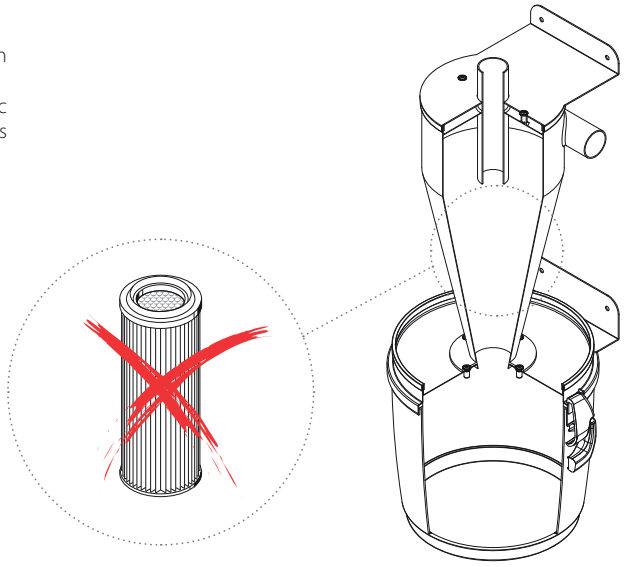
1 - Great efficiency

The ability to separate dust is exceptional: in some cases its **effectiveness is more than 98% of the total quantity of vacuumed dust**. The secret is due to the particular shape of the cone, which creates a cyclonic movement of the dust with increasing speed. At the end of the cone, when the air flows into the dust bin, it slows down and allows the powder to fall to the bottom of the bin, while the clean air will continue its path towards the top of the cone, where, through the upper inlet, it will reach the vacuum unit, free of dust particles, without dirtying the filter or filling the dust bin.



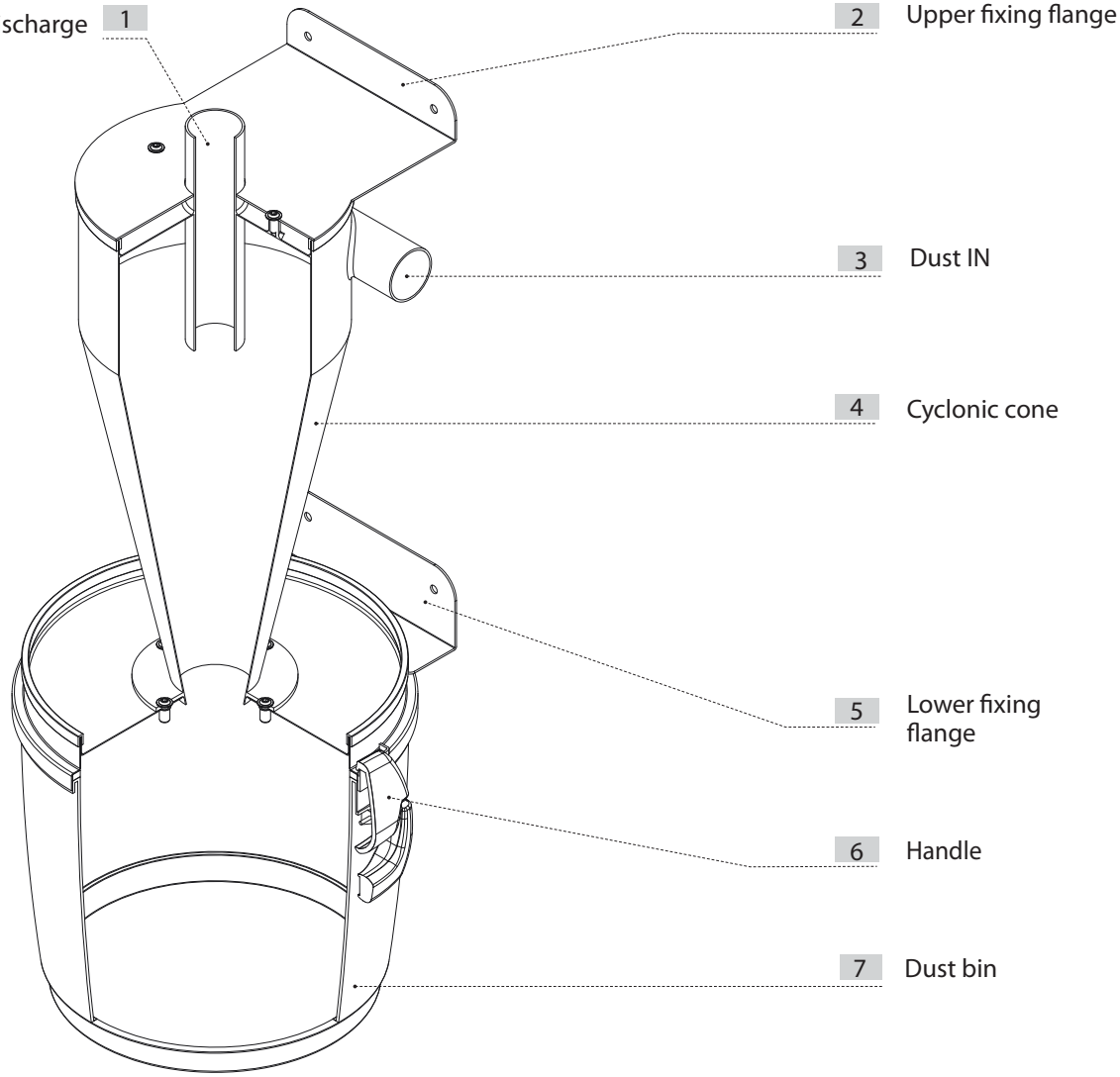
2 - Absence of filter

Turbix special separators don't contain a filter, for this reason maintenance means the dust bin emptying only.
Inside the cone of the separators the air filtration is made by cyclonic separation, without any other filtration system. It is a warranty of effectiveness and above all a considerable simplification in maintenance.



TURBIX

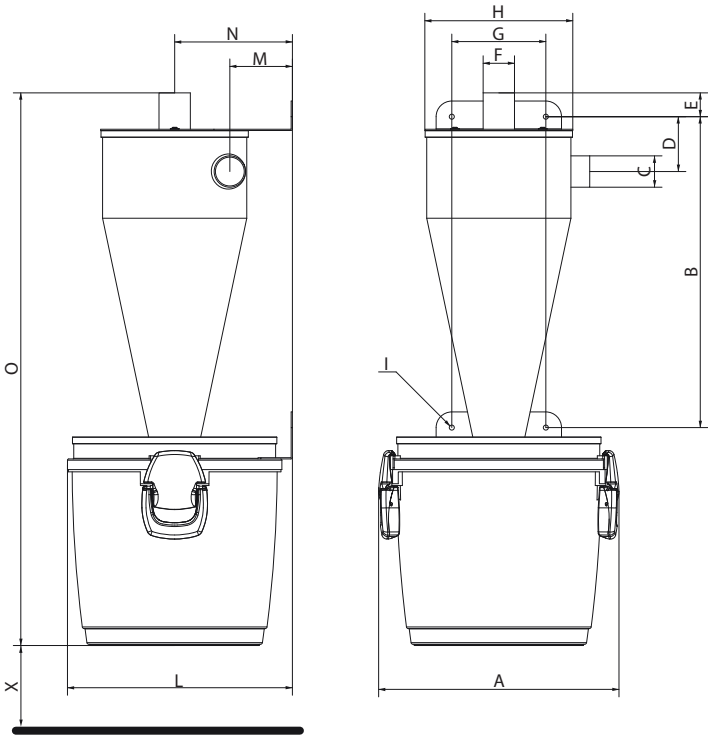
Turbix Small/Medium SECTION



Turbix separators, with their effectiveness and simplicity, are set to revolutionise the use of central vacuum systems.

MEASUREMENT AND TECHNICAL DATA

The model should be chosen according to the number of simultaneous users connected to Turbix, the diameter of connecting pipes, the number of simultaneous users connected to the vacuum unit and the dust bin capacity of Turbix separator.



		Turbix	
Model		Turbix Small	Turbix Medium
Article		**3400.10**	**3400.11**
Dust IN/OUT	Ø mm	50	60
Dust bin capacity	l	21	40
Weight	kg	15	25
Measurement A	mm	385	452
Measurement B	mm	489	590
Measurement C	Ø mm	50	63
Measurement D	mm	98	103
Measurement E	mm	14	52
Measurement F	Ø mm	50	63
Measurement G	Ø mm	150	190
Measurement H	Ø mm	236	286
Measurement I	R mm	4	4
Measurement L	mm	360	436
Measurement M	mm	100	122
Measurement N	mm	188	228
Measurement O	mm	855	1105
Measurement X	mm	100	100

TECHNICAL FEATURES

Turbix Small and Medium dust separators are designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and capacity.
Main technical characteristics can be listed as follows:

- Metal cylindrical frame painted with epoxy powder
- Polypropylene dustbin (model Turbix Small capacity 21 litres)
- Metal dust bin painted with epoxy powder (model Turbix Medium capacity 40 litres)
- Possible connection from the right or from the left
- Sleeves for connection to the pipe network supplied

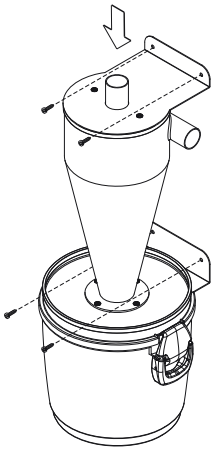
TURBIX

INSTALLATION TIPS

The cyclonic separators Turbix Small and Medium are connected at the end of the line that comes from the vacuum inlets before the vacuum unit (or main dust separator). The connection can be made at the end of a group of inlets, in order to make cyclonic separation only for a certain group of inlets, or it can take place just before the vacuum unit (or main dust separator), so as to collect all the vacuumed material.

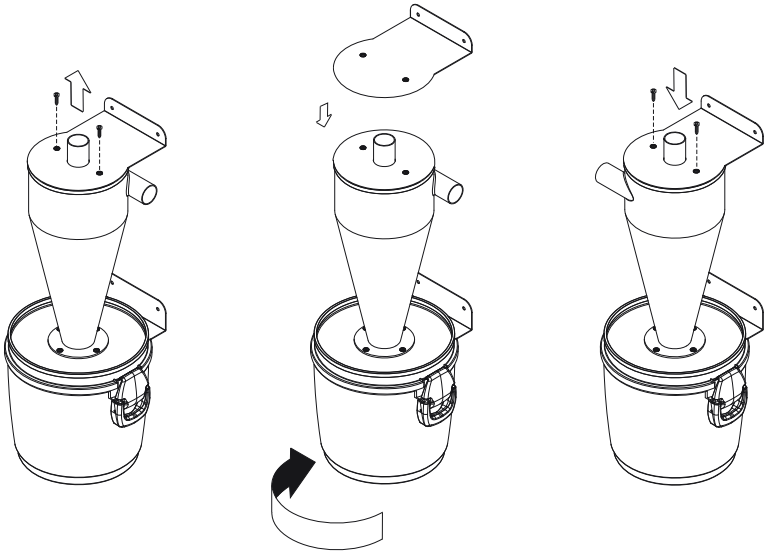
FIXING THE SEPARATOR

Turbix Small and Medium cyclonic separators must be hung on the wall using the supplied bracket, which must be fixed permanently to the wall by the use of appropriate plugs, considering that the total supported weight can be considerably higher than the weight of the separator itself.
N.B. The separator must be set so that the bucket sits at a height of more than 10 cm from the ground.



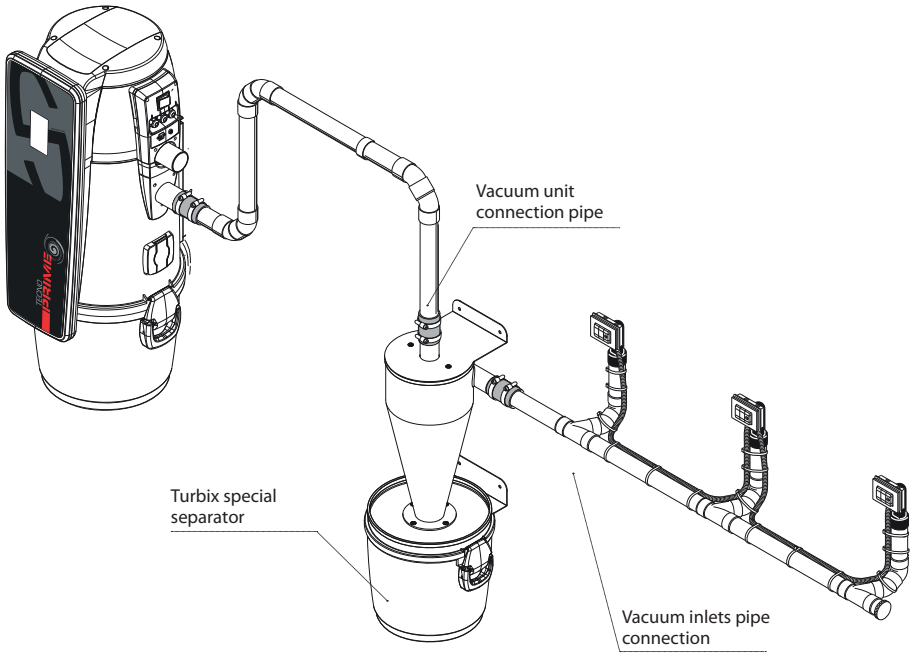
REVERSIBLE CONNECTIONS

All Turbix separators can **be connected to the pipe network from the right or from the left**.
Transformation is easy and quick.



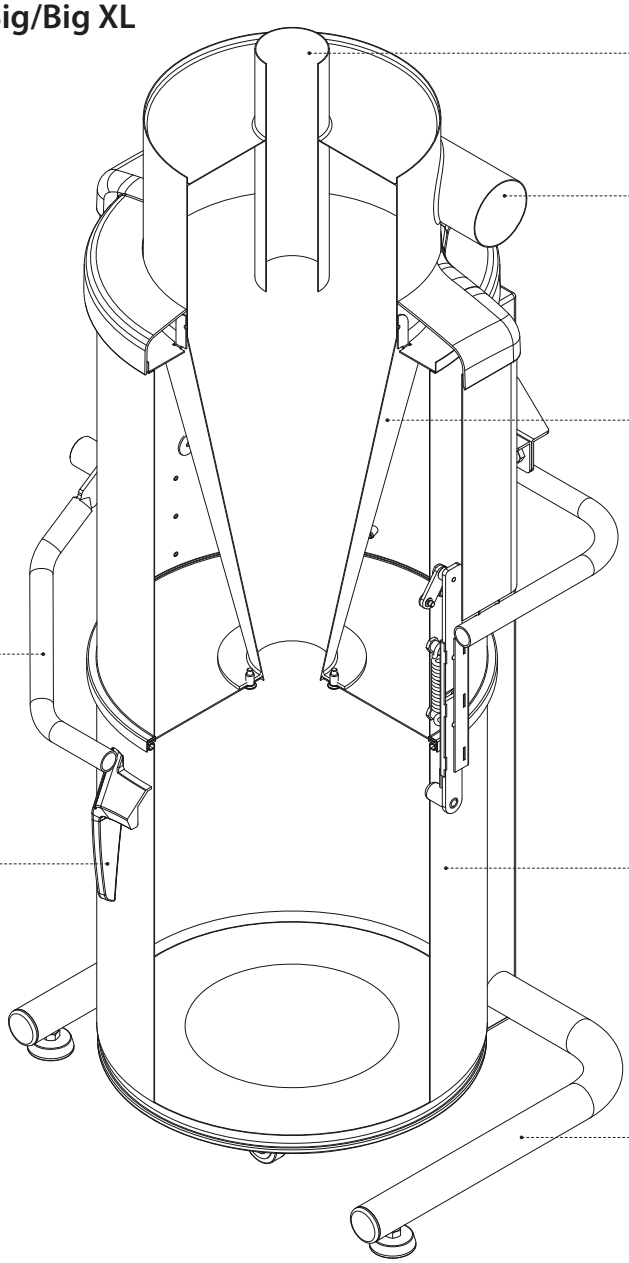
PIPE NETWORK CONNECTION

Turbix separators are supplied with connecting anti-vibration sleeves and clamps for the pipe network connection.
The separator must be connected to the pipe network before the vacuum unit, so that it can intercept the dust that arrives from the vacuum inlets, before it reaches the vacuum unit.



B-TURBIX

SECTION Turbix Big/Big XL



3 Air discharge

4 Air entrance

5 Cyclonic cone

Lifting bin handle 1

Extraction bin handle 2

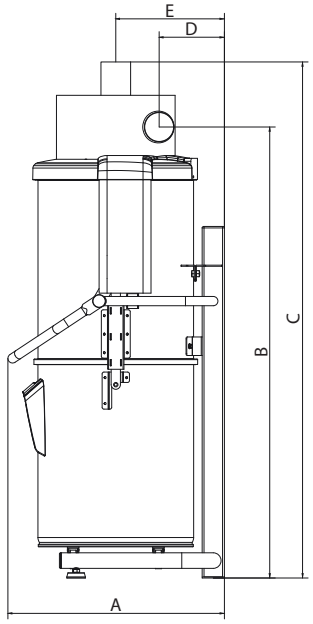
6 Removable dust bin

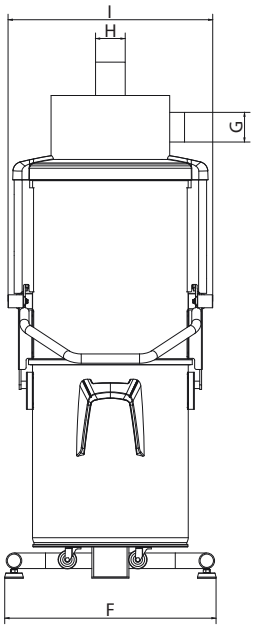
7 Frame

Turbix Big separator has a large capacity dust bin.

TURBIX

MEASUREMENTS AND TECHNICAL DATA





		Turbix	
Model		Big Turbix	Big XL Turbix
Article		**3400.12**	**3400.13**
Dust IN/OUT	Ø mm	80	100
Dust bin capacity	l	70	106
Weight	kg	53	70
Measurement A	mm	590	700
Measurement B	mm	1217	1415
Measurement C	mm	1395	1600
Measurement D	mm	176	200
Measurement E	mm	293	360
Measurement F	mm	570	700
Measurement G	Ø mm	80	100
Measurement H	Ø mm	80	100
Measurement I	mm	552	680

TECHNICAL FEATURES

Turbix Big dust separators are designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and capacity.

Main technical characteristics can be listed as follows:
- Metal cylindrical frame painted with epoxy powder
- Metal dust bin painted with epoxy powder (model Turbix Big/XI capacity 70/106 litres)
- Possible connection from the right or from the left
- Sleeves for connection to the pipe network supplied

INSTALLATION HINTS

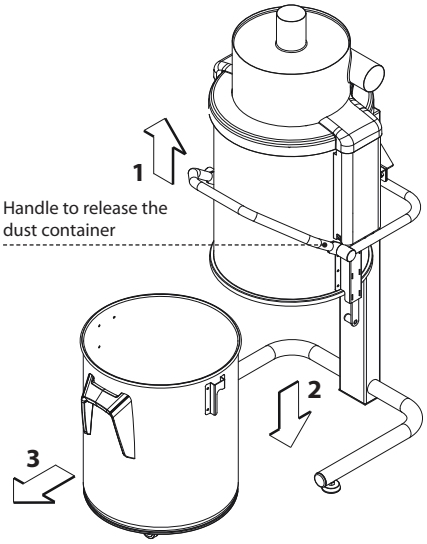
Turbix Big cyclonic separators are connected at the end of the line that comes from the vacuum inlets before the vacuum unit (or main dust separator). The connection can be made at the end of a group of inlets, in order to make cyclonic separation only for a certain group of inlets, or it can take place just before the vacuum unit (or main dust separator), to collect all the vacuumed material.

FIXING THE SEPARATOR

Turbix Big cyclonic separator does not require special anchoring. However, it is important to check that the area for installation has the following minimum requirements, in order to be correctly and securely positioned.
- a perfectly flat, horizontal and solid surface, without cracks.
- a vibration free surface. Furthermore it is essential that there are no disconnections that could make the central unit instable

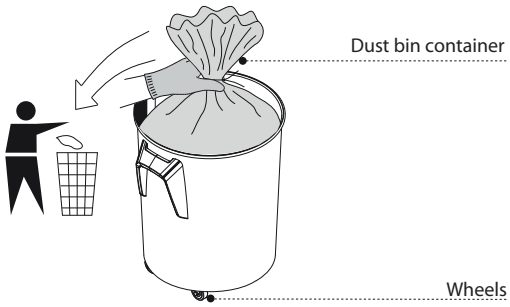
EASY BIN EMPTYING

Turbix Big cyclonic separator has a dust container with an easy opening system.



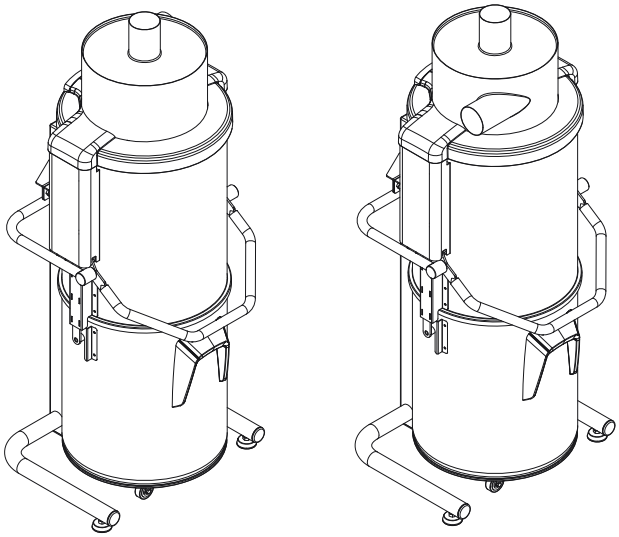
DUST CONTAINER WITH WHEELS

Thanks to its wheels, the dust container can be moved easily



REVERSIBLE CONNECTIONS

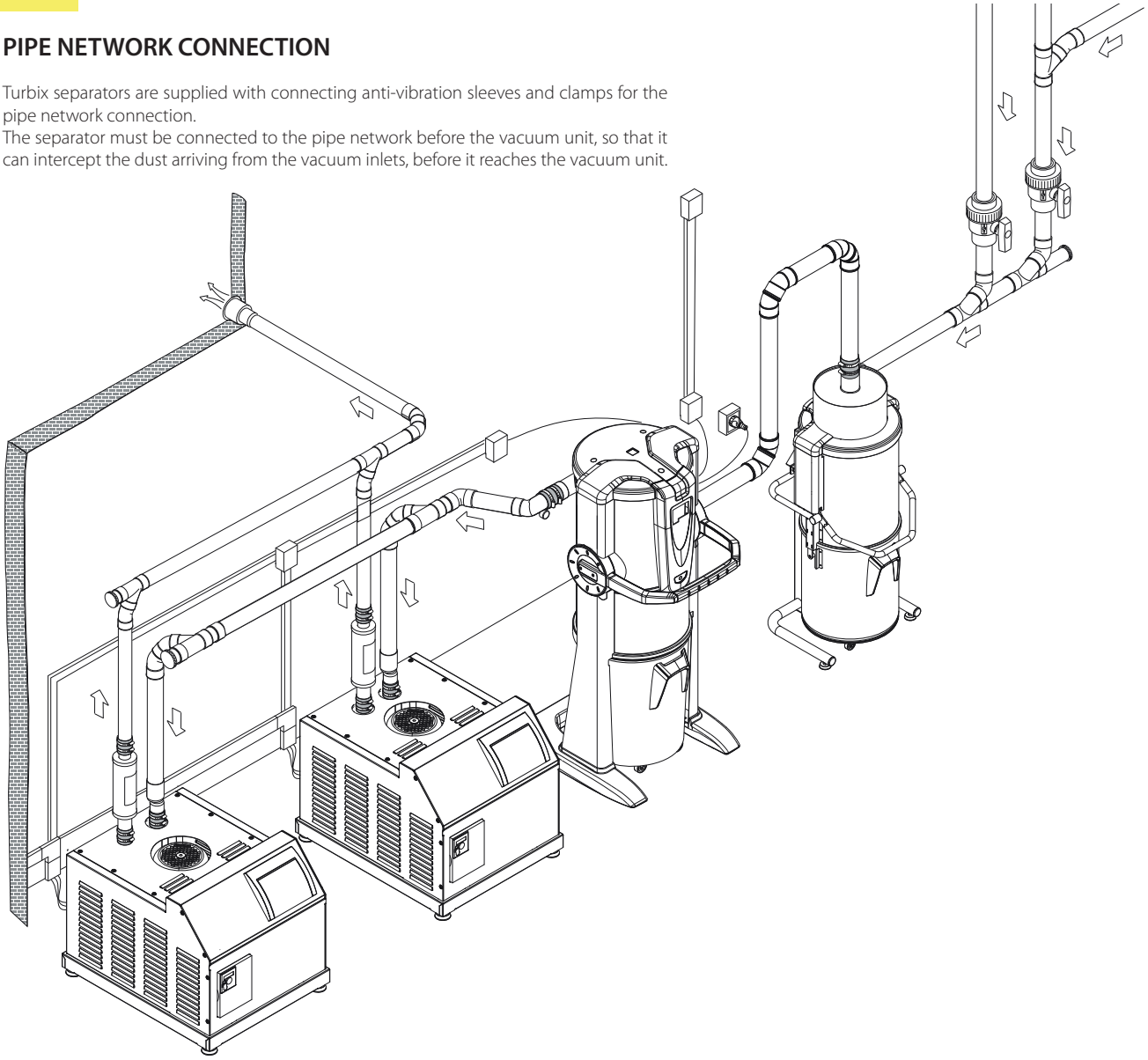
All Turbix separators can **be connected to the pipe network from the right or from the left**.
Transformation is easy and quick.



TURBIX

PIPE NETWORK CONNECTION

Turbix separators are supplied with connecting anti-vibration sleeves and clamps for the pipe network connection.
The separator must be connected to the pipe network before the vacuum unit, so that it can intercept the dust arriving from the vacuum inlets, before it reaches the vacuum unit.



TURBIX

The TURBIX cyclonic separators solve many problems related to filter clogging: from aspiration of fine dust in a factory, to that of the ashes of a home fireplace.

TURBIX

The cyclonic separation makes it possible to drastically reduce the maintenance of the filter, increasing the autonomy of suction and improving the efficiency of the entire system.

Basic
big
Basic
small

Basic line dust separators have been designed as a basic filtration device, without any electronic control on motors or depression of the system.
It is a product dedicated to special applications, with a vacuum unit with separate inverter power adjustment (as in the case of motors without) and the main filtering is delegated to another separator (e.g. a cyclonic separator of the TURBIX line).

NB: Basic line separators are not equipped with Autocleaner self-cleaning system.

SELECTION TABLE

Motor air flow	MODEL	ARTICLE	Recommended number of users with Ø 32 pipe	Recommended number of users with Ø 40 pipe	Dust container capacity (l)	Filtering surface (cm^2)
Up to 350 m^3/h	Wall-hanged Basic separators	**3400.40**	2	1	40	19600
Up to 700 m^3/h	Basic Small	**3400.20**	4	3	62	24000
Up to 1200 m^3/h	Basic Big	**3400.21**	8	4	106	43400

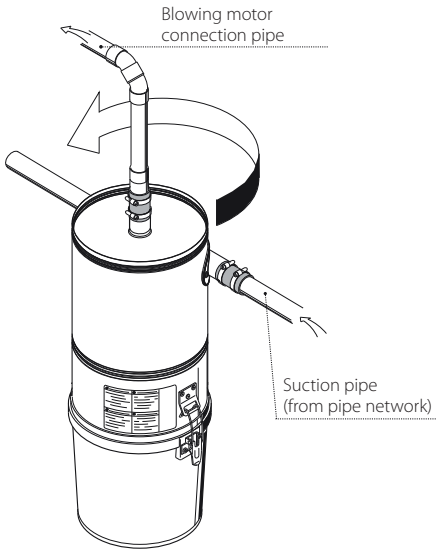
SYNTHETIC CHARACTERISTICS

CE marking

Modular system with no limits

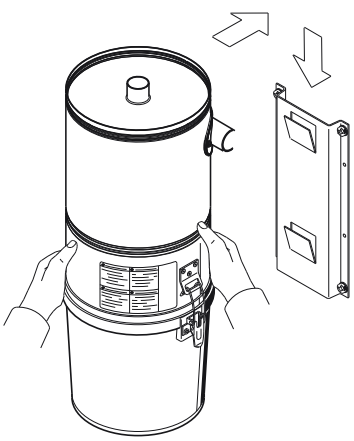
PIPE CONNECTION

The attachment for the connection to the pipe network arriving from the suction inlets can be on both the right and left side, while the air exhaust pipe can be directed both to the right and to the left.



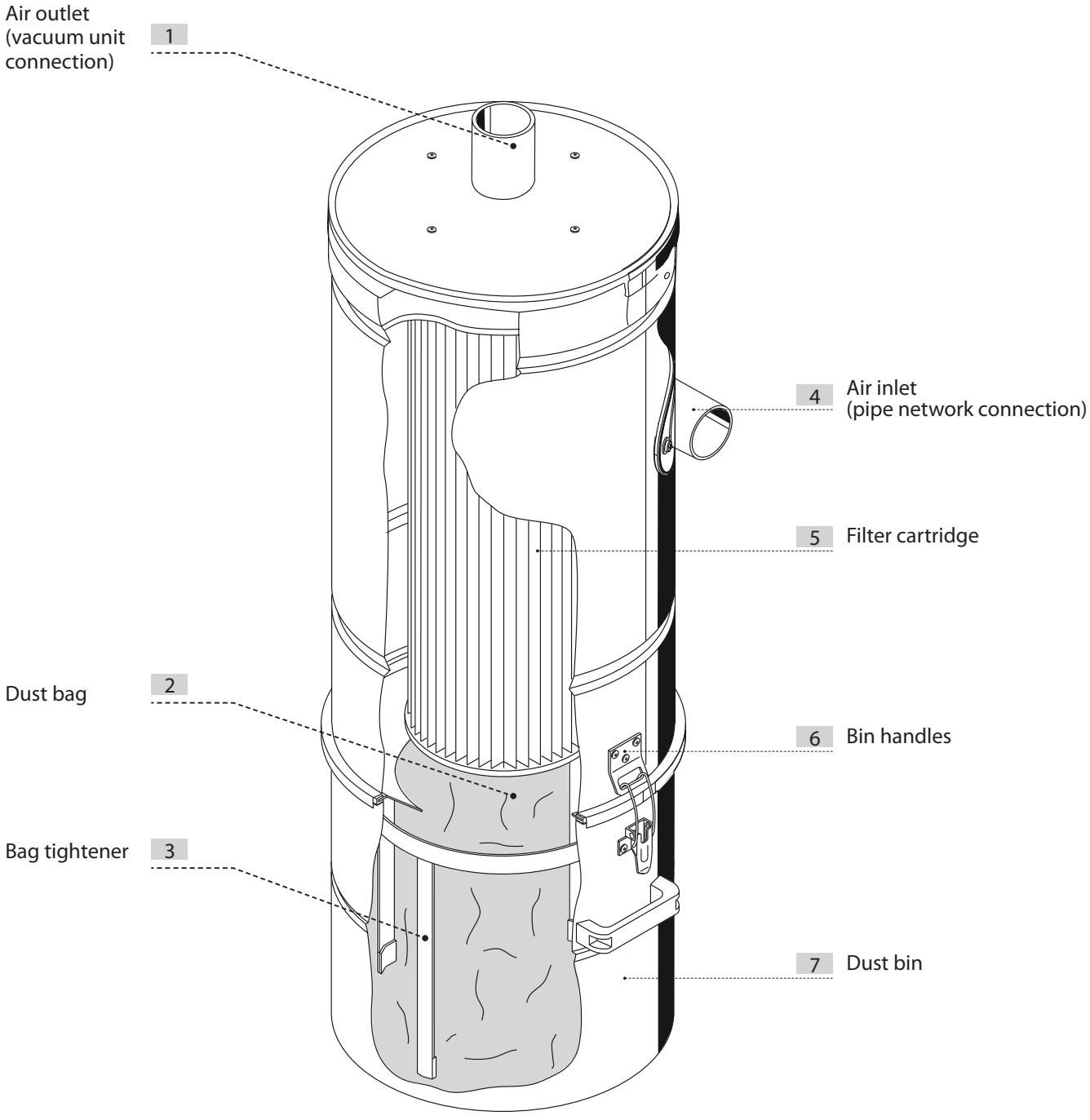
FIXING THE SEPARATOR

The separator can be hung on a support bracket included with the separator itself. It must be fixed in a stable and permanent way to the wall by using appropriate dowels, considering that the total weight to be supported can be considerably greater than the weight of the separator itself.



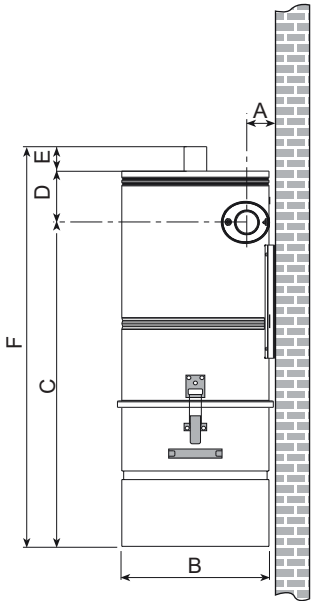
WALL-HANGED BASIC SEPARATORS

Wall-hanged Basic separators SECTION



MEASUREMENT AND TECHNICAL DATA

The dust separators for industrial use are suitable for innumerable solutions of use, thanks to their versatility and ability to be matched with the other components of an industrial central vacuum system.
The choice must be made according to the total air flow of the motors to which they are matched and the number of users.
As dust separators are a component of the system, we recommend making a choice after careful global assessments, taking into account the needs and the features of the system, but also the other components required to get a complete vacuum system.



		Wall-hanged Basic separators
Model		Wall-hanged Basic separators
Article		**3400.40**
Filter protection grid		YES
Bag tightener		YES
Filtering surface	cm^2	19600
Dust bin capacity	l	40
Air inlet	mm	60
Air outlet	mm	60
Weight	kg	18
Measure A	mm	75
Measure B	mm	390
Measure C	mm	870
Measure D	mm	135
Measure E	mm	50
Measure F	mm	1055

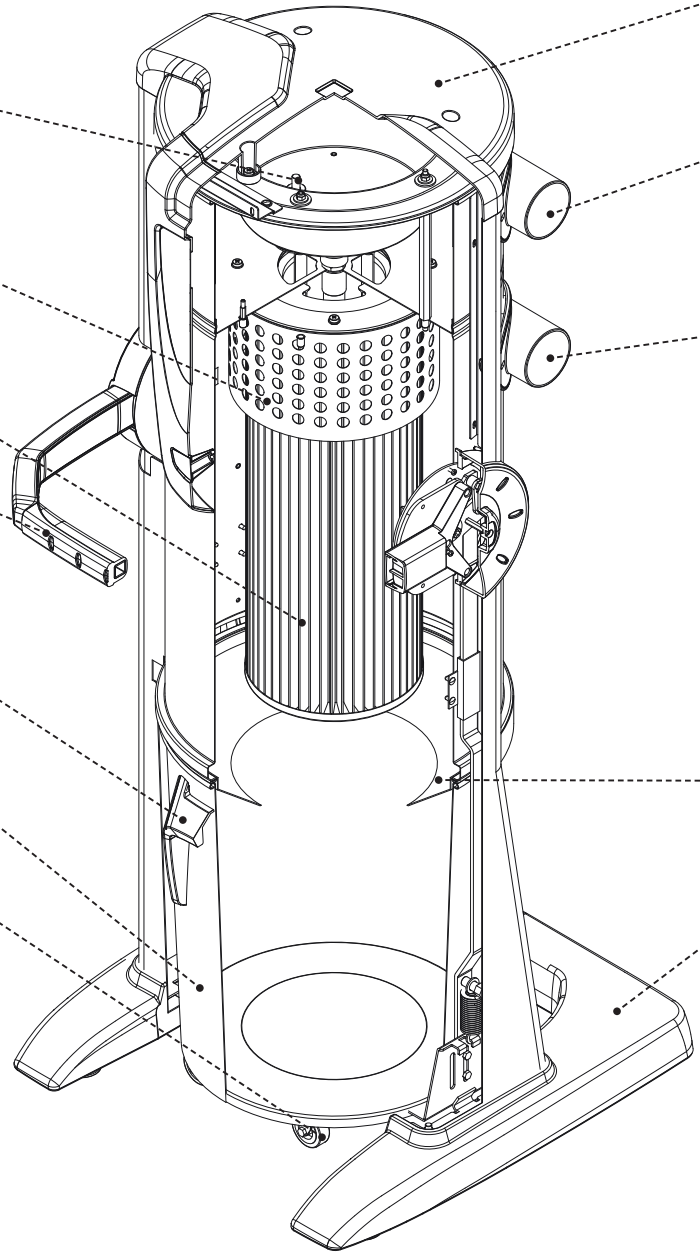
TECHNICAL FEATURES

Basic Line dust separators are designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and capacity.
Main technical characteristics can be listed as follows:

- Possible piping connection from the right, or from the left side, independently of each other, for the connection to the vacuum pipes and the blowing motors
- Mechanical breaker valve that manages the vacuum flow
- Metal cylindrical frame painted with epoxy powder
- Base coated with anti-shock material to protect the vacuum unit
- Metal dust bin with wheels (capacity 62/106 litres)
- Bag with bag stretchers inside the dust bin, to dispose of dust quickly and hygienically
- Class M polyester filter, water washable
- filter protection grid

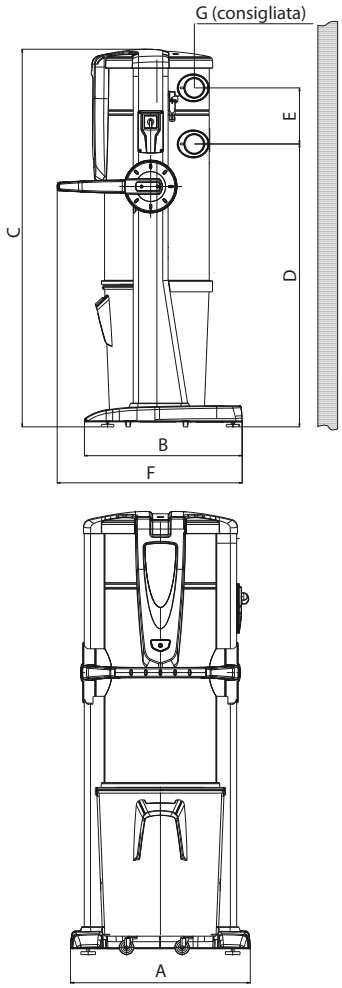
WALL-HANGED AND BASIC SEPARATORS

Basic SEPARATOR SECTION



MEASUREMENT AND TECHNICAL DATA

Dust separators for industrial use Basic Small and Big are suitable for innumerable uses, thanks to their versatility and ability to be matched with the other components of an industrial central vacuum system. Dust containers are available in two high-capacity sizes and can be used in small or big industrial applications.
The choice must be made according to the total air flow of the motors to which they are matched and the number of simultaneous users. As dust separators are a component of the system, we recommend making a choice after careful global assessments, which take into account the needs and the features of the system, but also the other components required to get a complete vacuum system.



		Separatori Basic	
Model		Basic Small	Basic Big
Article		**3400.20**	**3400.21**
Maintenance computer		NO	NO
Breaker valve	Ø mm	YES	YES
Filtering surface	cm^2	24000	43400
Dust bin capacity	l	62	106
Weight	kg	53	67
Measure A	mm	615	750
Measure B	mm	633	633
Measure C	mm	1515	1616
Measure D	mm	1135	1148
Measure E	mm	281	281
Measure F	mm	745	745
Measure G	mm	600	600
Measure M (air entrance)	mm	80	100
Measure N (air exhaust)	mm	80	100

TECHNICAL FEATURES

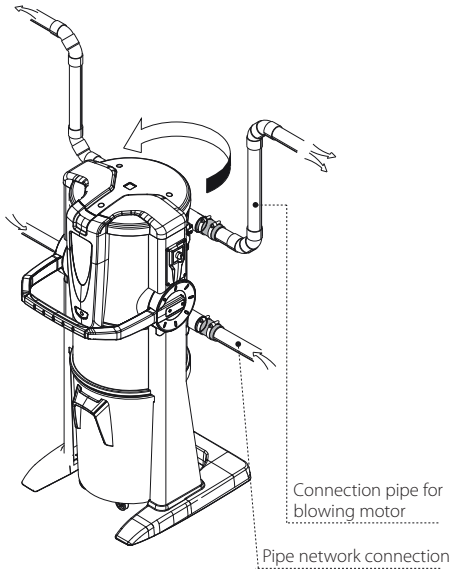
Basic Line dust separators are designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and capacity.
Main technical characteristics can be listed as follows:

- Mechanical breaker valve that manages the vacuum flow
- Possible connection to the piping from the right or from the left side, independently of each other, for the connection to the vacuum pipes and the blowing motors
- Metal cylindrical frame painted with epoxy powder
- Base coated with anti-shock material to protect the vacuum unit
- Metal dustbin with wheels (capacity 62/106 litres)
- Bag with bag stretchers inside the dustbin, to dispose of dust quickly and hygienically
- Class M polyester filter, water washable (filtering surface 24000/43400 cm^2)

WALL-HANGED BASIC SEPARATORS

PIPE CONNECTION

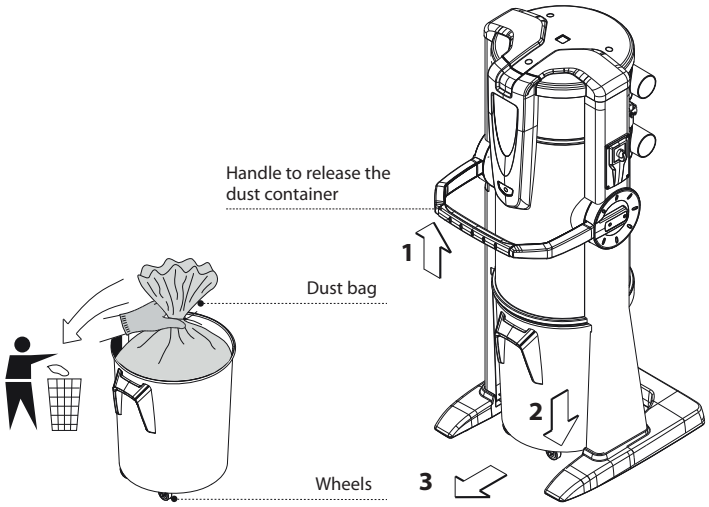
MOD SMALL/BIG - Connections to pipe network and to air expulsion can be made on the left or on the right side of the vacuum unit.



EASY BIN EMPTYING

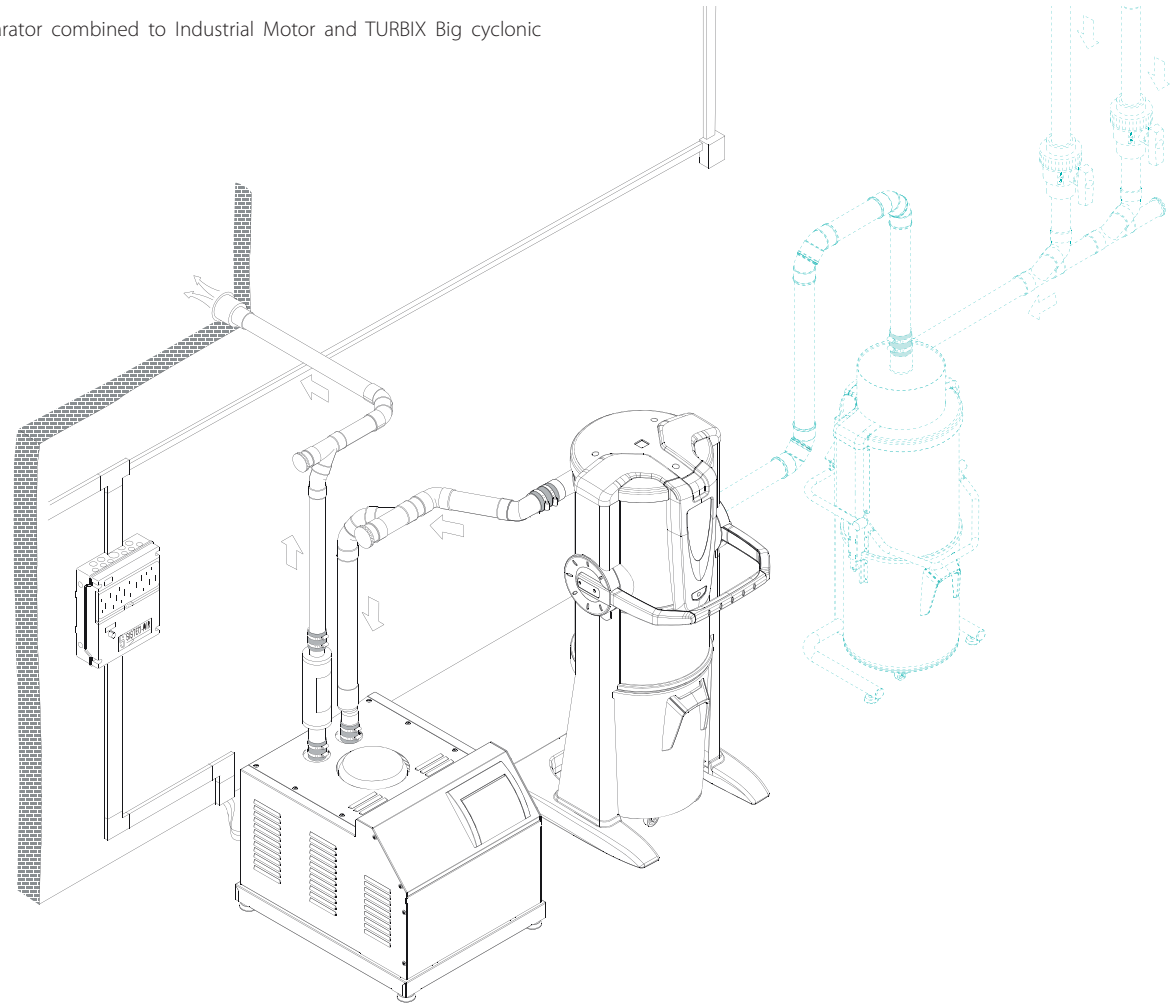
Basic dust separators have a dust container with an easy opening system and a soft touch handle coated in shockproof material, easy to open.

Thanks to its wheels, the dust container can be moved easily



CONNECTION EXAMPLE

Basic separator combined to Industrial Motor and TURBIX Big cyclonic separator.



Basic separators are the ideal solution for create essential but highly reliable systems.

AUTO Jet TURBIX

The special Auto Jet Turbix separator is a unique product: the presence of the cyclonic cone allows it to have an extraordinary capacity for dust separation, preventing the vacuum units' filter clogging, while the automatic discharge device makes it suitable for the suction of large volumes of material without the con-tinuous emptying of the dust container. The presence of nozzles that discharge compressed air into the collection cylinder represent a further advantage in the automation of the discharge, making the separa-tor suitable for use even in the case of suction of very light and bulky materials.

SELECTION TABLE

MODEL	ARTICLE	Connections IN/ OUT Ø mm	Discharge Ø mm	Dust container capacity (l)
Automatic discharge separatorS	**7010.3**	80	153	76

SYNTHETIC CHARACTERISTICS

CE marking

IP protection degree

Isolation Class 1

TECHNICAL FEATURES

Automatic discharge separator is designed and produced in conformity with all current regulations and European directives, whilst taking into account functionality, power and ease of use . Main technical characteristics can be listed as follows:
Metal frame painted with epoxy powder

- cylindrical body in AISI 304 stainless steel
- pneumatic linear actuator adjustable with the control panel
- possibility of connecting 8 nozzles that can be fed with compressed air
- adjustable operation

AUTOMATIC DISCHARGE SEPARATORS

Main features of the product

1 - Opening guaranteed

The pneumatic actuator allows the **opening of the discharge door even in the presence of strong depressions** inside the separator, in order to allow the discharge of the material in any situation.

2 - Easy unloading with the 8 compressed air jets

To facilitate the discharge of any type of sucked material, even the lightest and most voluminous, the separator is equipped with **8 nozzles** that allow the discharge of compressed air when the lower door is opened.

Great air flow

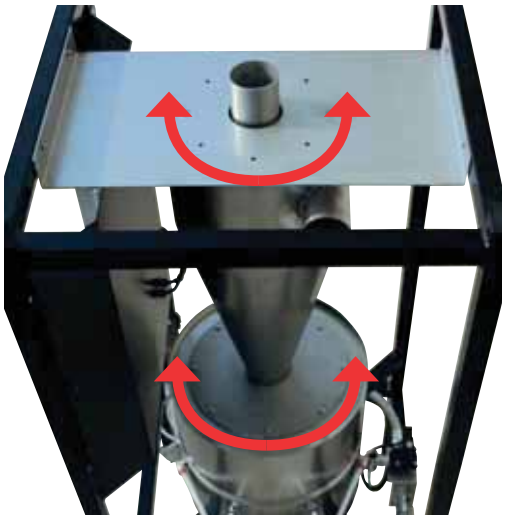
The compressed air flow is guaranteed by the 3/4" connection, where an external pneumatic supply line will be connected.

3 - CYCLONIC SEPARATION without filter

The shape of the cone allows the cyclonic separation of the sucked material to be carried out, ensuring a **great reduction of dust**, even the fine ones, without the use of any filter. **Maintenance of the filter inside the suction unit will also be considerably reduced.**

4 - Easy to connect

Just unscrewing the fixing screws of the cone **the inlet of the sucked material can rotate 360 °**, with predefined progressive angles of 45 ° each. The air outlet can also be oriented at 360 °.



5 - Entirely made of stainless steel

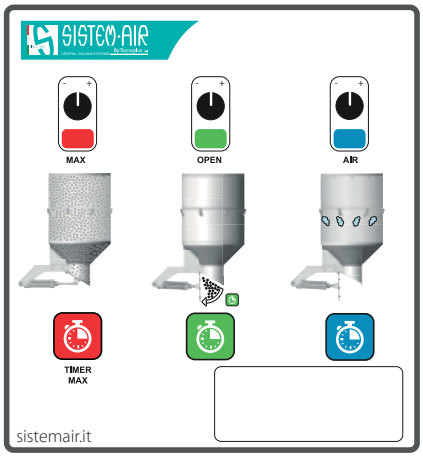
The separator with automatic discharge is made of **stainless steel**: this material makes it suitable for the suction of liquids, but also of hot particles. By appropriately adjusting the timing of the discharge, in case of suction of liquid and solid materials during the same suction cycle, it is possible to avoid the formation of wet sediments which can solidify, making the disposal difficult.

AUTOMATIC DISCHARGE SEPARATORS

6 - Easily programmable

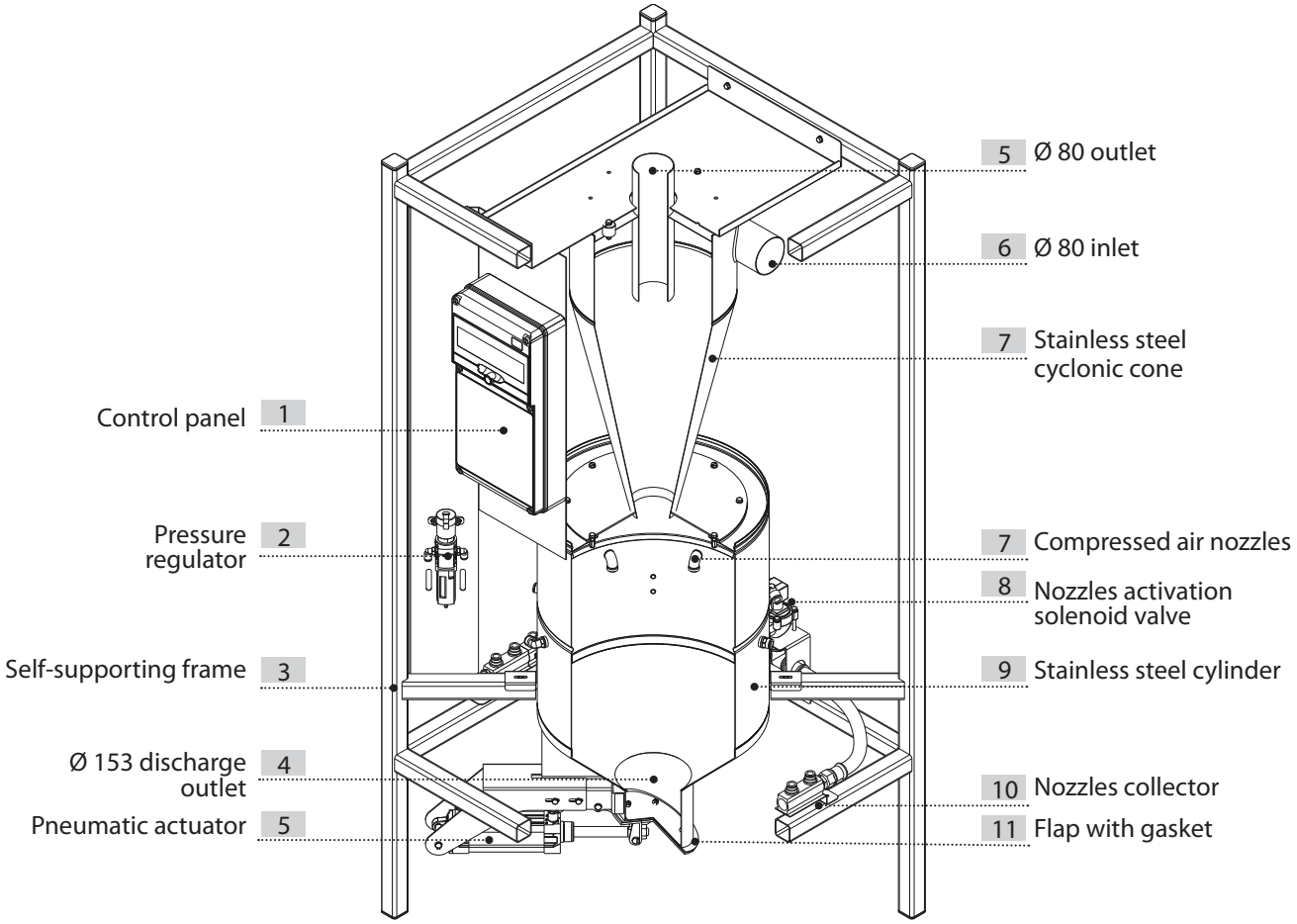
Thanks to the **three potentiometers** on the control panel it is possible to adjust the following operating parameters:
- **suction time** (to avoid overfilling of the container);
- **door opening time** (to be set according to the specific weight and consistency of the vacuumed material);
- **repetition of the jets of compressed air** which act in the discharge phase.

Using the TEST button you can immediately test each of these three settings, in order to find the optimal setting, depending on the quantity and type of material sucked.



Attention
In cases where the discharge of the material must occur simultaneously with the suction (because there are other sections of the system that must be used while the separator is discharging) or to avoid the stop the engine during the discharge, the Turbix Autojet separator must be combined with a sleeve valve with pneumatic supply, which must be placed on the upper air outlet, so that the command from the user or from the separator itself will close the suction line, preventing that the material coming out of the lower door will be partially sucked back into the separator.

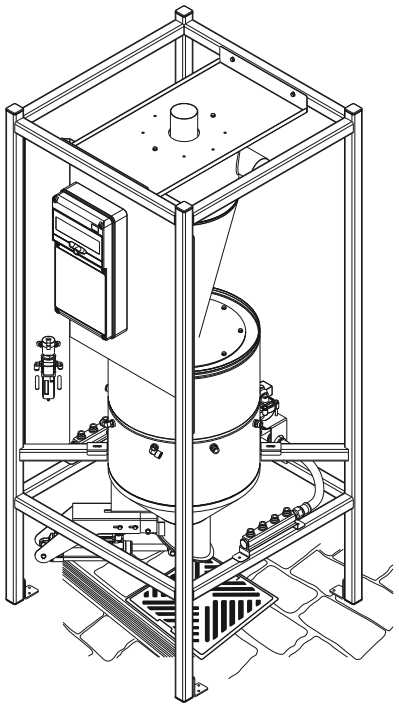
Auto Jet Turbix SECTION



ADAPTABLE TO ALL SITUATIONS OF USE

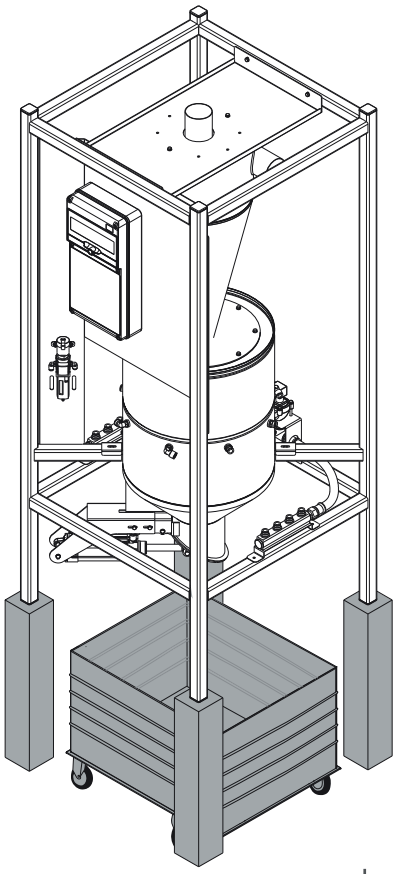
Liquids

The Auto Jet Turbix separator can be installed to allow the discharge of the vacuumed liquids where it is best suited to the production cycles:
- in drainage wells
- in special tanks
- in cisterns.



Solid residues / powders

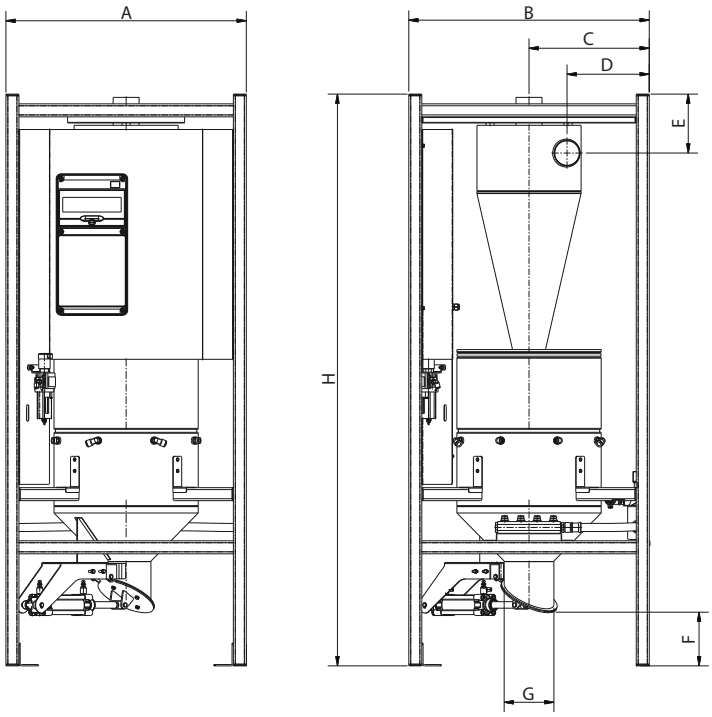
The self-supporting frame can be raised or fixed to other structures to allow the positioning of the separator above trolleys, Big Bags or other collection systems. In this way, the handling and eventual recovery of the vacuumed materials is facilitated



AUTOMATIC DISCHARGE SEPARATORS

MEASUREMENTS AND TECHNICAL DATA

The choice of the model must be made according to the number of simultaneous users which will use the line connected to the separator, the diameter of the connection pipe, the number of simultaneous users supported by the suction unit.



Automatic discharge separator		
Model		Auto Jet TURBIX
Article		**7010.3**
Suction management board		YES
Protection degree	IP	44
Power supply	V ac	230
Absorption	A	1,5
Dust container capacity	l	76
Pneumatic actuator pression	Bar	6
Air inlet	G	3/4
Nozzles pression		*
Weight	kg	105
Measurement A	mm	740
Measurement B	mm	740
Measurement C	mm	370
Measurement D	mm	253
Measurement E	mm	182
Measurement F	mm	165
Measurement G	mm	153
Measurement H	mm	1760

* Same maximum operating pressure of the system

APPROVALS

CE marking

IP 44 **IP protection degree**

Electrical insulation
CLASS I

Automatic discharge separator - in compliance with the following regulations:

EC DIRECTIVES:
- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

ROHS DIRECTIVE 2002/95

Compliance to REACH Directives.

N.B. installation must be carried out in strict compliance with current regulations.

INSTALLATION HINTS

The separator with automatic discharge must be connected at the end of the line coming from the inlets, before the suction unit (or the main dust separator). The connection can be made either at the end of a group of inlets, to dispose the vacuumed material only for a specific group of inlets, or just before the suction unit (or main separator), in order to discharge all the vacuued material.

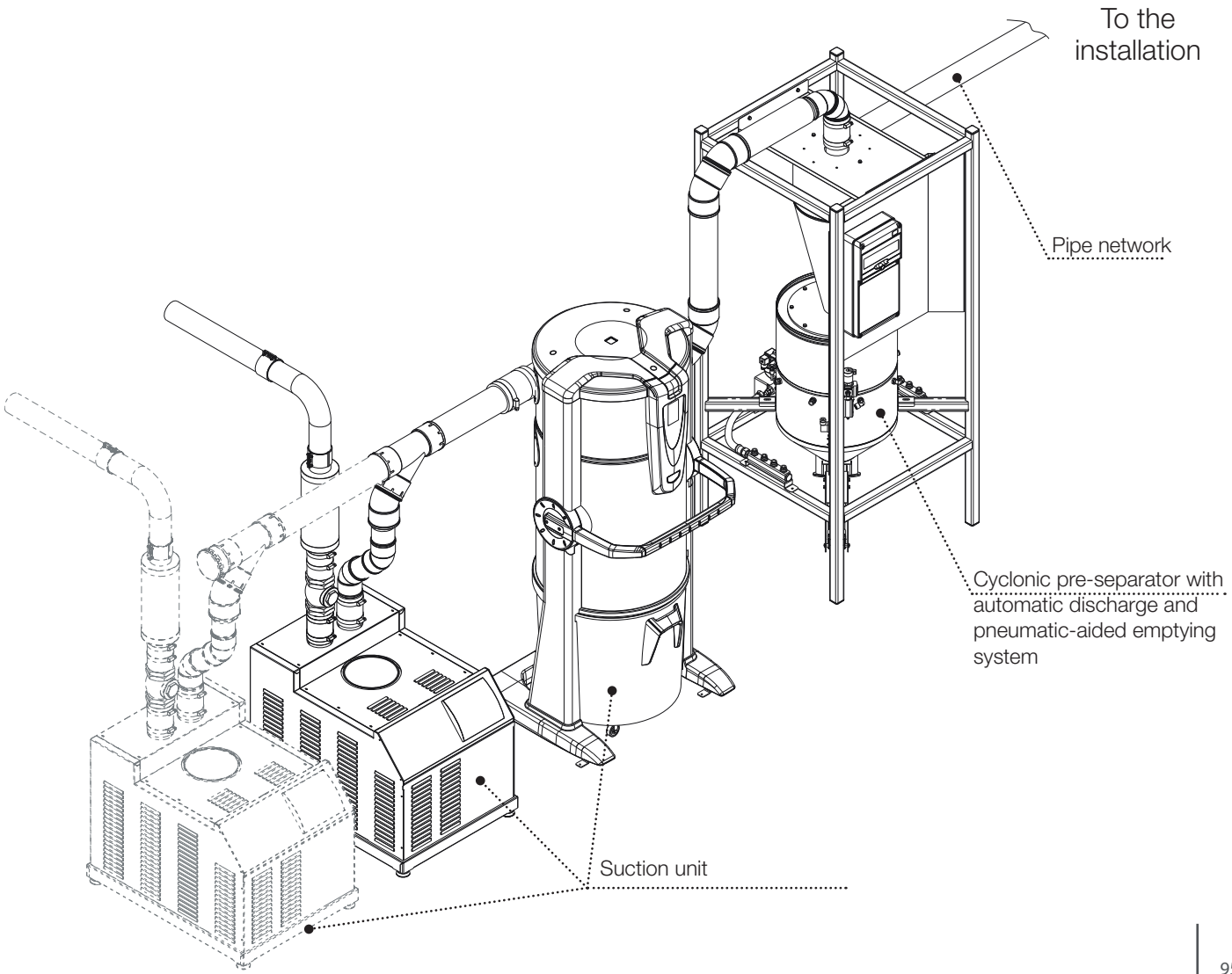
REVERSIBLE CONNECTIONS

The separtor does not require special anchoring. However, it is important to check that the area for installation has the following minimum requirements, in order to be correctly and securely positioned:
- a perfectly flat, horizontal and solid surface, without cracks.
- a vibration free surface.

Furthermore it is essential that there are no disconnections that could make the unit instable.
Connections to pipe network and to air exhaust can be made on the left or on the right side of the vacuum unit.
N.B. The separator must be fixed at a height from the ground that allows the material to be discharged into the prepared container, considering the size of the open door.

PIPE NETWORK CONNECTION

Autojet Turbix separators are supplied with connecting anti-vibration sleeves and clamps for the pipe network connection.
The separator must be connected to the pipe network before the vacuum unit, so that it can intercept the dust arriving from the vacuum inlets, before it reaches the vacuum unit.



CHOICE GUIDE TO PRODUCTS

CHOICE GUIDE TO INDUSTRIAL VACUUM UNITS

Master Line Professional vacuum units are equipped with the latest-generation electronics that **simplify system installation and testing**.
The great modularity of these systems allowsa range of options, with the same number of operators working simultaneously, with different product combinations.
In the tables below, it is possible to find all the articles and quantities required for the correct choice of the professional vacuum unit.
The identification of the product can be carried out on the basis of number of operators, and is essentially divided into three different options:

BASIC SOLUTION

This solution is the basic configuration to ensure a good vacuum performance in the system, without optionals: motors are not supplied with devices for energy saving and dust separators are not fitted with the automatic cleaning system (can be installed later).

IDEAL SOLUTION

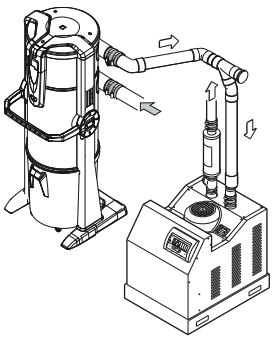
With this central vacuum system option, motors can vary consumption according to the vacuum power actually requested, allowing a real energy saving.
Dust separators are measured in order to reduce the emptying frequency and all are equipped with an automatic cleaning system.

TOP OF THE RANGE SOLUTION

In this configuration, the system expresses its full potential: energy saving thanks to modular consumption, vacuum power split over multiple motors, so as to avoid interruption of service in case of faults in a single motor, dust separators of maximum size, lowering the emptying frequency of the bin, always equipped with the automatic cleaning of the filter.

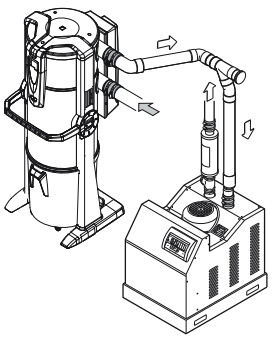
MAXIMUM NUMBER OF USERS 1 – MAXIMUM NUMBER OF VACUUM INLETS 40

BASIC Solution



ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.0	Industrial Clean Small dust separator	1
3500.1M	Industrial Motor U1 electric blowing motor	1
11001	Metal silencer Ø 2"	1

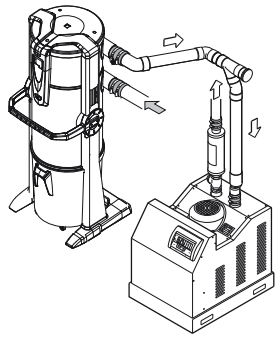
IDEAL Solution



ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.0	Industrial Clean Small dust separator	1
3600.0U	Autocleaner (universal autocleaning system)	1
3503.2M	Industrial Motor U1 Matic electric blowing motor	1
11001	Metal silencer Ø 2"	1

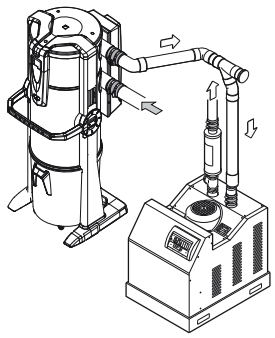
MAXIMUM NUMBER OF USERS 2 – MAXIMUM NUMBER OF VACUUM INLETS 60

BASIC Solution



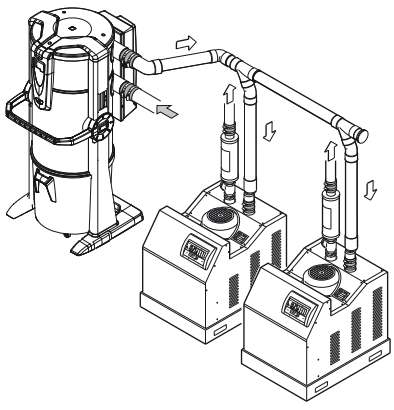
ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.0	Industrial Clean Small dust separator	1
3500.3M	Industrial Motor U2 electric blowing motor	1
11002	Metal silencer Ø 3"	1

IDEAL Solution



ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.0	Industrial Clean Small dust separator	1
3600.0U	Autocleaner (universal autocleaning system)	1
3513.4M	Industrial Motor U2 Matic electric blowing motor	1
11002	Metal silencer Ø 3"	1

TOP Solution

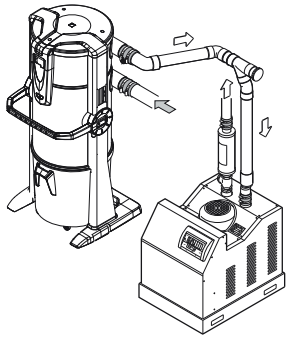


ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3600.0U	Autocleaner (universal autocleaning system)	1
3503.2M	Industrial Motor U1 Matic electric blowing motor	2
11001	Metal silencer Ø 2"	2
0110001	Check valve for connecting motors Ø 2"	2

CHOICE GUIDE TO PRODUCTS

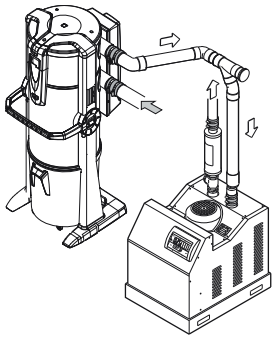
MAXIMUM NUMBER OF USERS 3 – MAXIMUM NUMBER OF VACUUM INLETS 80

BASIC Solution



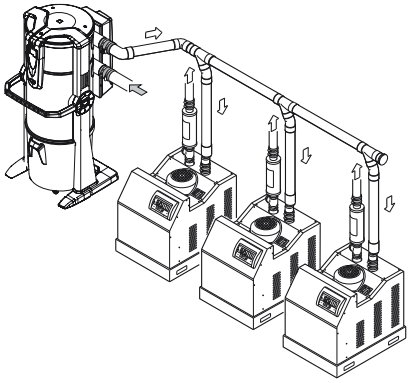
ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3500.5M	Industrial Motor U3 electric blowing motor	1
11002	Metal silencer Ø 3″	1

IDEAL Solution



ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3600.0U	Autocleaner (universal autocleaning system)	1
3503.6M	Industrial Motor U3 Matic electric blowing motor	1
11002	Metal silencer Ø 3″	1

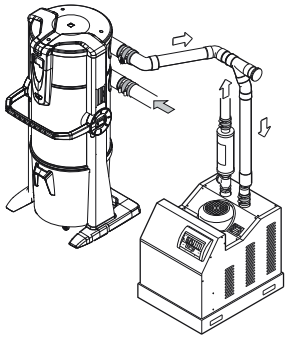
TOP Solution



ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3600.0U	Autocleaner (universal autocleaning system)	1
3503.2M	Industrial Motor U1 Matic electric blowing motor	3
11001	Metal silencer Ø 2″	3
0110001	Check valve for connecting motors Ø 2″	3

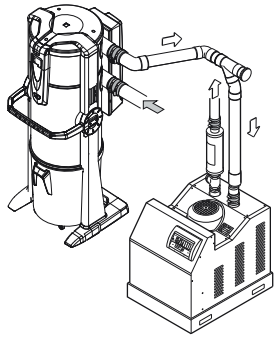
MAXIMUM NUMBER OF USERS 4 – MAXIMUM NUMBER OF VACUUM INLETS 100

BASIC Solution



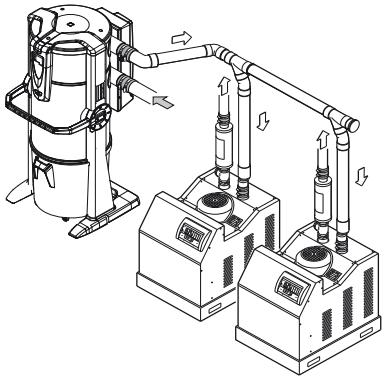
ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3503.7M	Industrial Motor U4 Matic electric blowing motor	1
11003	Metal silencer Ø 4"	1

IDEAL Solution



ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3600.0U	Autocleaner (universal autocleaning system)	1
3503.7M	Industrial Motor U4 Matic electric blowing motor	1
11003	Metal silencer Ø 4"	1

TOP Solution

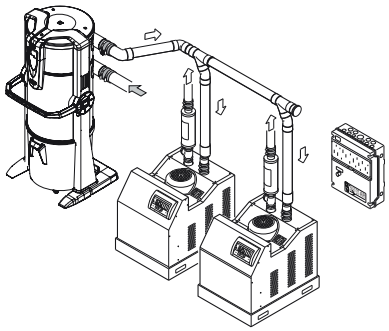


ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3600.0U	Autocleaner (universal autocleaning system)	1
3513.4M	Industrial Motor U2 Matic electric blowing motor	2
11002	Metal silencer Ø 3"	2
0110003	Check valve for connecting motors Ø 3"	2

CHOICE GUIDE TO PRODUCTS

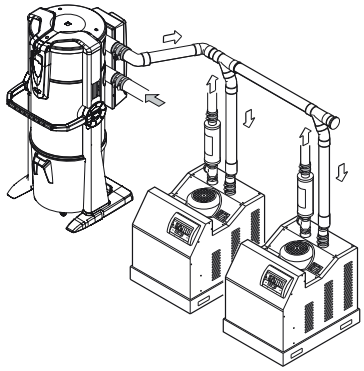
MAXIMUM NUMBER OF USERS 6 – MAXIMUM NUMBER OF VACUUM INLETS 120

BASIC Solution



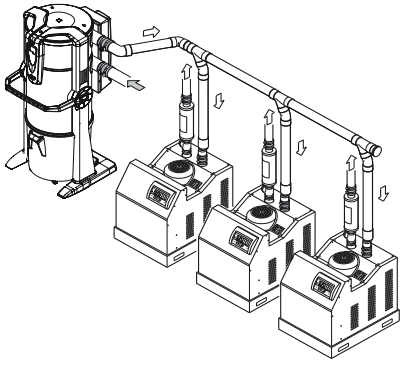
ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3500.5M	Industrial Motor U3 electric blowing motor	2
11002	Metal silencer Ø 3"	2
0110003	Check valve for connecting motors Ø 3"	2
3301.6	Electronic panel for 2 motors	1

IDEAL Solution



ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3600.0U	Autocleaner (universal autocleaning system)	1
3503.6M	Industrial Motor U3 Matic electric blowing motor	2
11002	Metal silencer Ø 3"	2
0110003	Check valve for connecting motors Ø 3"	2

TOP Solution



ARTICLE	PRODUCT DESCRIPTION	Quantity
3403.1	Industrial Clean Big dust separator	1
3600.0U	Autocleaner (universal autocleaning system)	1
3513.4M	Industrial Motor U2 Matic electric blowing motor	3
11002	Metal silencer Ø 3"	3
0110003	Check valve for connecting motors Ø 3"	3

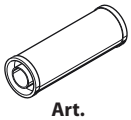
Multiple applications

Installations of Sistem Air industrial line allow great flexibility regarding design and production.
The possibility of matching several motors and the division of the pipe network into more lines removes limits with respect to the number of simultaneous users and with respect to the number of vacuum inlets.
The whole system is always seeking the perfect balance between performance and system features.

GENERATION 2019 SPARE PARTS

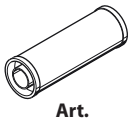
SPARE PARTS FOR REVO BLOCK PROFESSIONAL

revo block professional

MODEL	ARTICLE	Filter cartridge Revo Block professional Quantity = 1 pc.  Art.	Ø 63/80 air vent silencer Quantity = 1 pc.  Art.	Bags Quantity = 20 pcs.  Art.
Revo Block 500	**3201.1B/3203.1B**	1610.7	110002	1614.2
Revo Block 700	**3201.2B/3203.2B 3213.2B**	1610.7R	110002	1614.3
Revo Block 1000	**3201.3B/3203.3B**	1610.7R	110002	1614.3
Revo Block 1200	**3201.4B/3203.4B**	1610.7R	110002	1614.3
Revo Block 1500	**3201.5B/3203.5B**	1610.7R	110002	1614.3
Revo Block 1800	**3201.6B/3203.6B**	1610.7R	11002	1614.3

SPARE PARTS FOR REVO JOB

revo Job

MODEL	ARTICLE	Filter cartridge Revo JOB Quantity = 1 pc.  Art.	Ø 63/80 air vent silencer Quantity = 1 pc.  Art.	Bags Quantity = 20 pcs.  Art.
Revo Job 3	**3201.2J**	1610.7	11002	1614.2
Revo Job 4	**3201.6B**	1610.7	11002	1614.2

SPARE PARTS FOR INDUSTRIAL CLEAN

Industrial Clean big/small

MODEL	ARTICLE	Filter cartridge Industrial Clean Quantity = 1 pc.  Art.	Bags Quantity = 20 pcs.  Art.
Industrial Clean Small	**3403.0**	1610.2	1614.2
Industrial Clean Big	**3403.1**	1610.4	1614.3

SPARE PARTS FOR SEPARATORS

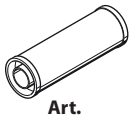
Basic

MODEL	ARTICLE	Filter cartridge Basic Quantity = 1 piece  Art.	Bags Quantity = 20 pieces Art.
Wall-hanged dust separator	**3400.40**	1610.1	1614.0
Basic Small	**3400.20**	1610.2	1614.2
Basic Big	**3400.21**	1610.4	1614.3

PREVIOUS GENERATIONS SPARE PARTS

SPARE PARTS FOR TECNO BLOCK

Spare parts for central vacuum units produced before May 2011 class

MODEL	ARTICLE	Filter cartridge Tecno Block Maxi Quantity = 1 pc.  Art.	Bags Quantity = 20 pcs.  Art.	Air vent silencer Quantity = 1 pc.  Art.
TECNO Block MINI	**3115.1MB**	1610.1	1614.2	110002
TECNO Block MINI	**3115.2MB**	1610.1	1614.2	110002
TECNO Block Maxi	**3200.0MB**	1610.1	1614.2	110002
TECNO Block Maxi	**3200.1MB**	1610.2	1614.2	110002
TECNO Block Maxi	**3200.4MB**	1610.2	1614.2	110002
TECNO Block Maxi	**3200.6MB**	1610.2	1614.2	110002
TECNO Block Maxi	**3200.8MB**	1610.2	1614.2	11002
TECNO Block Maxi	**3200.3MB**	1610.2	1614.2	110002
TECNO Block Maxi	**3200.2MB**	1610.2	1614.2	110002
TECNO Block Maxi	**3200.5MB**	1610.2	1614.2	110002
TECNO Block Maxi	**3200.7MB**	1610.2	1614.2	110002
TECNO Block Maxi	**3200.9MB**	1610.2	1614.2	11002

SPARE PARTS FOR SEPARATORS

Spare parts for central vacuum units produced before May 2011 class

MODEL	ARTICLE	Filter cartridge SeparatorS Quantity = 1 pc.  Art.	Bags Quantity = 20 pcs.  Art.
LT 80	**3200.0**	1610.2	1614.2
LT 160	**3202.1**	1610.4	1614.3
LT 80 C/A	**3200.0A**	1610.2	1614.2
LT 160 C/A	**3202.1A**	1610.4	1614.3

APPROVALS

IP insulation level
Insulation level of the apparatus against solid parts and liquid from outside..

IP 20

IP 20: Apparatus protected against solid parts larger than 12 mm but not protected against the infi ltration of water.

IP 44

IP 44: Apparatus protected against solid parts larger than 1mm and protected against water sprays (water sprayed on the covering from any direction should not cause damage).

IP X4

IP X4: Apparatus protected against water sprays (water sprayed on the covering from any direction should not cause damage).
Level of electric insulation

IP 40

IP 40 : Device with protection against solid objects larger than 1 mm and not protected against water penetration.

Electrical insulation

CLASS I: Apparatus with fundamental electric insulation. It should be connected to the earth circuit on the main electric power.

CLASS II: Apparatus with dual electric insulation. It does not need to be connected to the earth circuit of the main electric power.

Filtration classes:
According to the IEC 60335-2-69 standard, the various filtration classes must meet these maximum permeability characteristics (maximum percentage of dust let through):
- **class I**: max 5% of particles of 2 µm
- **class M**: max 0,5% of particles of 2 µm
- **class H**: max 0,005% of particles of 0,3 µm

Atex 22: (Area in which during normal activities the formation of an explosive atmosphere in the form of a cloud of combustible dust is not likely and, if it occurs, it is only of short

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