www.sistemairgroup.com

Sistem Air Group

Since 1993

SISTECO-AIR

ADVANCE
Easy Moving

ATECK

THE COMPANY

IDEAS
becoming REALITY
thanks to PEOPLE

For more than twenty years, Sistem Air has dealt with **central vacuum systems** with passion and competence in every phase: from planning to assembly, testing, support for the installer in system installation, to assistance to the customer for spare parts and accessories.
This is achieved by the 360° vision of the company, being **present on different international markets**, knowing their particularities and gaining experience there, useful in the constant renewal of its own products.

This Sistem Air catalogue presents its range of tailored products for **domestic and industrial installations** offering a **complete panorama** of numerous solutions where the system becomes a precious ally, both to the technician as well as to the private individual:

- To augment well-being in the environment where we live every day, in the case of domestic applications;
- To increase the productivity and the quality of the production in industrial applications

OUR MISSION

The customer above all

TO GENERATE INNOVATION

Sistem Air stands by its company tradition of constant innovation, improving design, refining materials with the aim of **offering a product in permanent amelioration**. From simple updating to real novelty, the items are monitored thereafter by the **Research and Development** Department, which takes inputs from the international markets into consideration, to nurture the **process of permanent revision and perfection**.
All of this is with the strength of a Group organised to meet multiple requirements, but always aimed at having ever more satisfied customers.

TO IMPROVE THE USE

A Sistem Air product must be recognisable at first sight: for **its style**, meaning quality, for **its reliability**, permitting use of the product in different conditions, for its **efficacy** making it possible to satisfy our customers' highest expectations. But first of all, a Sistem Air **product must be easy to install and simple to use**. We believe that these are two features leading to success:

- the confidence that an installer must have with our products, leading him to prefer them over the others;
- the simplicity in understanding and using the system by the final user, in order to generate the demand which should be as spontaneous as possible.

To always be close to all our customers, we can rely on our sales team which numbers more than **100 agents** throughout Italy, more **than 600 sales points** in the electrical distribution market, where one can find our products and a network of **Technical Assistance Centres** covering the whole country.

WITH DYNAMIC COMMUNICATION

To take advantage of all communication channels, from the traditional to the newest ones, to accurately inform the numerous interlocutors dialoging with the company every day. This idea leads Sistem Air's communication, putting the company in place in a growing number of subjects, **the culture of central vacuums**, which must become a **STANDARD OFFER** by installers and a **STANDARD TOOL IN DOMESTIC AND PROFESSIONAL EQUIPMENT**. The reasons to take this path are based on the advantages of the system in every kind of its use: they are to be communicated by all means.

- CD for estimates
- On-line support
- Catalogues
- Company tabloid

www.sistemair.com DOWNLOAD Follow us

HOW TO FIGHT ALLERGIES

WITH SISTEM AIR CENTRAL VACUUM SYSTEM YOU IMPROVE YOUR WELLBEING

The increase of respiratory system allergies raises the necessity to find environments without the elements causing the allergic reactions, on behalf of total hygiene, which is possible to reach in a simply and advantageously, using the **Sistem Air central vacuum**. It represents the best solution to eliminate dirt from rooms and chase away pathogens, which are the main cause of these allergies: **pollens, mites and microdust** which, if vacuumed with the traditional portable vacuum cleaner, come back to circulate in the same environment and can proliferate. On the contrary, with the central vacuum system **they are expelled externally** by the air outflow, **removing the problem**, proved by numerous medical studies. Another advantage is the **power consumption**, **which is lower compared** to other portable vacuum cleaners.

Improve the hygienic conditions in the place where you spend your time, thanks to Sistem Air central vacuum system.

To breath clean air

QUALITY OF

Install a Sistem Air central vacuum system

LIFE

A SISTEM AIR central vacuum unit fights allergies and offers NUMEROUS OTHER ADVANTAGES:

comfort
No traditional portable vacuum to drag around, banging the furniture.
Now you have a light flexible hose, made to last for years, as is the whole system.

quietness
Central vacuum unit can be installed outside the place one lives.

vacuuming power
This system, unlike traditional vacuum cleaners, works by creating the vacuum inside the pipe network, this way the external pressure pushes the air and the dirt into the pipe with the advantage of having the same effect in all the inlets.

low consumption
On the contrary of a traditional vacuum cleaner, a reduction of energy consumption with the same efficiency.

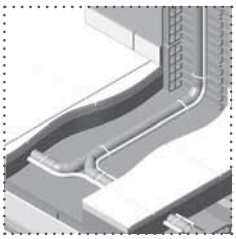
safety
Forget electric cables, which get twisted and risk being damaged over time.
Switching the system on uses a low tension contact, present in the vacuum inlets, it's totally safe for both adults and children.

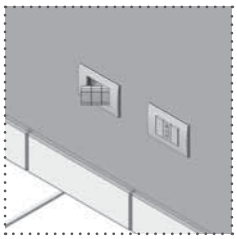
Simplicity of maintenance
No dust bags to buy: the dust falls directly into the bucket. To clean the filter, just wash it with water and dry.

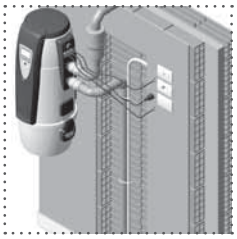
complete range of accessories
To resolve all the types of cleaning tasks

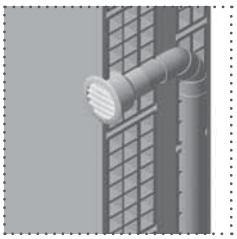
in your house

Central vacuum system:

1 
Pipe network

2 
Vacuum inlet

3 
Central vacuum unit

4 
Filtered air exhaust

General description of the system

Choosing a central vacuum system means adding value to a building. It doesn't matter if it's a house, office or public structure: it's a value which lasts over time, bringing advantages for your health, practical and optimising your time.

A central vacuum system consists of:
A a **pipe network located into chase**, wall or false ceiling and joining the central vacuum unit
B **vacuum inlets**, connected to the pipe network
C **a central vacuum unit**, located in a utility room, or balcony (protected from bad weather conditions)
D a **flexible hose** for cleaning, equipped with the accessories suitable for any requirement.

The dust vacuumed with the flexible hose, connected via the vacuum inlets, passes directly through the pipe network into the central vacuum unit, while micro dusts get expelled outside the vacuumed and filtered air discharge.

The installation of the central vacuum system takes place during construction or restructuring of the building, in conjunction with the laying and arrangement of other installations, when the conduits in the walls are made, before applying the floor screed, attaching fittings with its proper adhesive and arranging the electrical connections of the central vacuum unit.

The correct laying of pipes and fittings, avoiding unnecessary tubing, represents an essential requirement for good functioning and use of the system.

The choice of vacuum inlet positions and flexible hose length is fundamental for optimisation of the installation, because it allows maximum possible surface cover, with correct number of inlets. For example with a 7m flexible hose, it's possible to cover a surface of about 30 m (for more details see page 15).

The central vacuum unit is usually located in a utility room, a laundry, a garage, preferably at a lower level of the building to facilitate dust descent, or on balconies or terraces protected from bad weather. Where this is not possible, installation of an oversized central unit is recommended, to guarantee optimal vacuum power. Choosing the right central vacuum unit is fundamental for good functioning of the entire central vacuum system and it is necessary to find the most suitable model for individual requirements, considering surface area to be cleaned. It's recommended to install central vacuum units in technical or utility rooms (for example box car, basement etc.) soundproofed, to protect other rooms from the vacuum unit noise.

When the installation of the central vacuum system is completed, the **Sistem Air vacuum inlets** offer a wide range of choice, they fit the the most common electric frames on the market, maintaining a single line of design inside the building. Produced taking aesthetics into consideration, they present sturdy and unbreakable construction with low tension electric contacts.

Cleaning kits are available with different accessories, with 7 or 9 metre hoses and with the possibility to switch the central vacuum system on and off directly on the handgrip (see KIT FLISY page 230).

How to plan the installation

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 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).

Dimensioning of the 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.

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)

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. This way, 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.

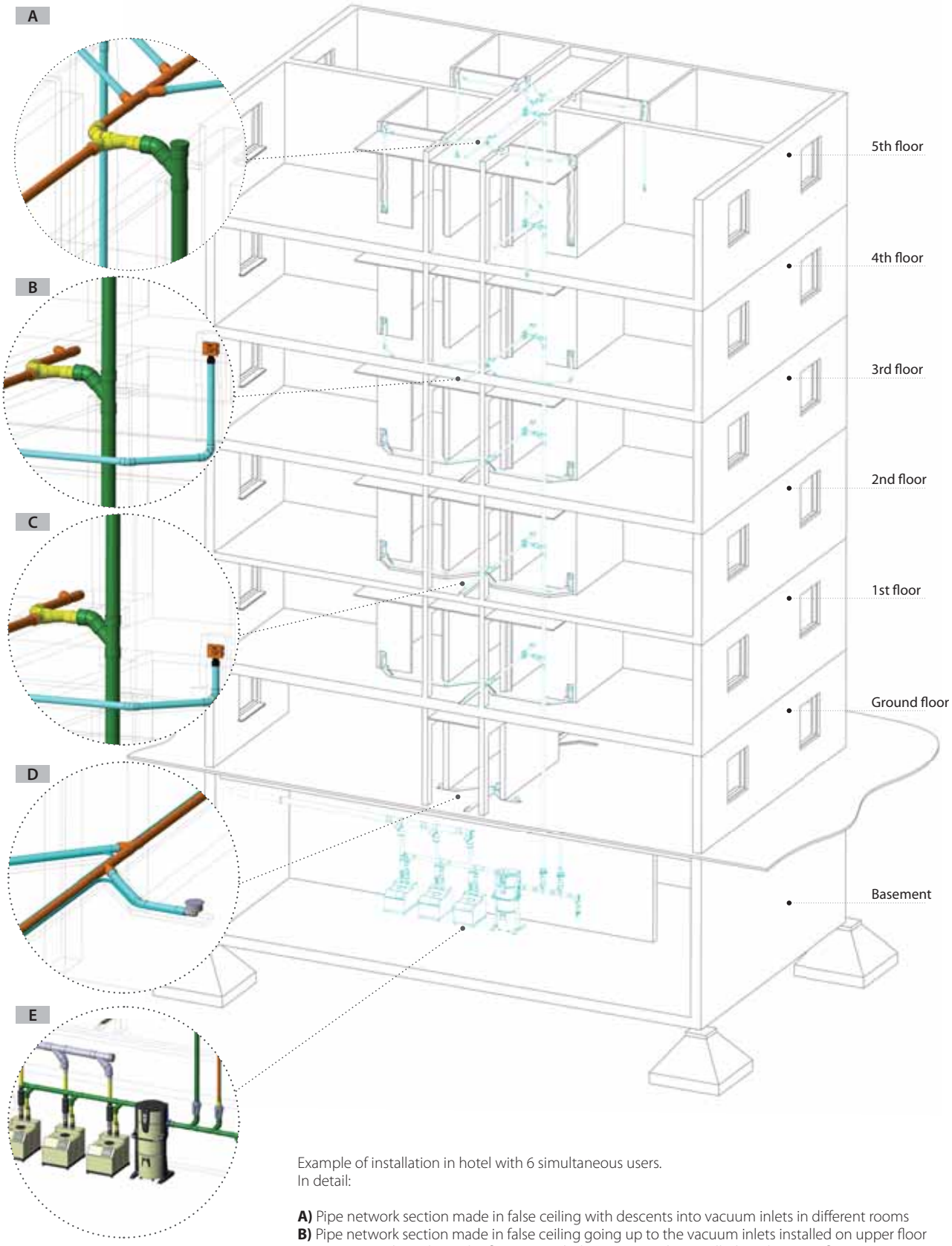
To maintain a good speed of the vacuumed air inside the horizontal pipe network, the length must be minimised, especially when it's made with pipes of 80/100 mm in diameter: in this case, when the number of active simultaneous users is lower than the maximum expected, the slow-down of the air could cause 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.

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.

Example of installation

HOTEL



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.

How to install the system

Vacuum inlet positioning

Vacuum inlet planning
To determine the position of vacuum inlets, it's important to consider the operating range of the flexible hose. With a standard 7m flexible hose, it's possible to cover a surface of about 35 square metres, it can be represented on the drawing as a circle having a range of 7m. By drawing these circles, it is possible to find effective coverage of the total surface.

- this operation has to be done avoiding excessive overlapping of the circles drawn;
- choose to put the inlets on the internal walls preferably, rather than perimeter walls (this takes full advantage of each length of flexible hose). Generally it's not necessary to put an inlet in every room;
- take into consideration the presence of obstacles like walls, furniture, etc., which could reduce range of flexible hose coverage;

- by putting a vacuum inlet close to staircase, it's possible to clean the staircase itself, or any landings in an optimal way;

- the same for a vacuum inlet positioned close to garages, terraces and paved entrances, permitting quick cleaning (pay attention not to vacuum wet materials without an appropriate separator);

- remember that by using appropriate separators, one can vacuum ash or water;

- vacuum inlets can be placed indifferently at the same level of electrical switches or electric inlets.

Special installations

If the planning of the central vacuum system should regard:

- particularly large surfaces (more than 3500 m)
- more than 8 simultaneous users
- vacuuming materials causing accumulation of static charges along the pipe network
- vacuuming of incandescent materials
- vacuuming of explosive materials

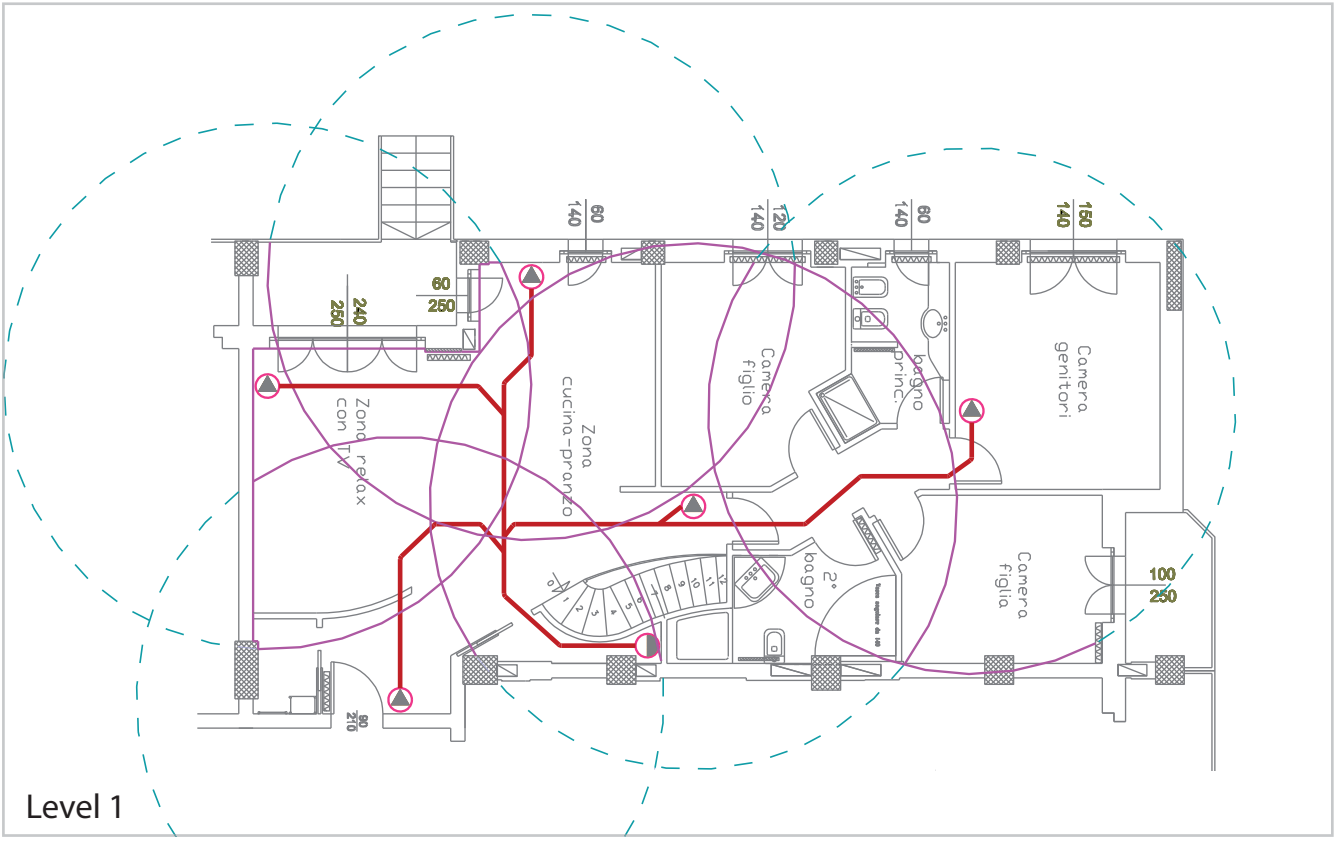
Sistem Air makes all the experience of its Planning Office available: just contact the company using the reference on the back of the cover to be assisted in planning any project.

800-829152

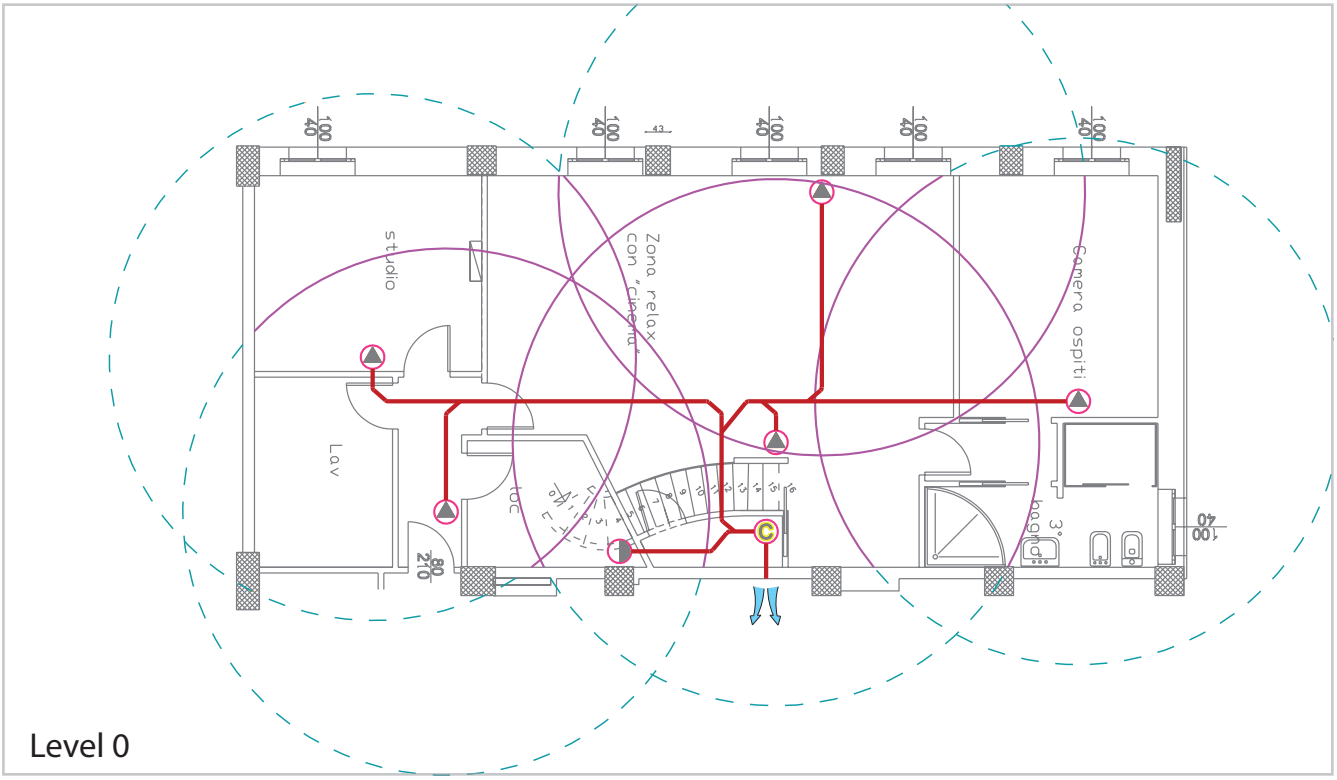
Direct connection with the company.

Example of inlet positioning

KEY	
▲	Vacuum inlet
◑	Vertical rising
C	Central vacuum unit
—	Pipe network 50 mm



Level 1



Level 0

INDEX

Up to 450 m²	DOMESTIC		**TECNO R-evolution** (central vacuum unit with computer for maintenance) Page 22	• Recommended surface up to 450 m² • 1 user • Vacuuming of domestic dusts • Non continuous use	• villas • level apartments
Up to 450 m²	DOMESTIC		**TECNO Style** (standard central vacuum unit) Page 32	• Recommended surface up to 450 m² • 1 user • Vacuuming of domestic dusts • Non continuous use	• villas • level apartments
Up to 450 m²	DOMESTIC		**TECNO STAR Dual Power** (central vacuum unit with computer for maintenance) Page 40	• Recommended surface up to 450 m² • 2 simultaneous users • Vacuuming of domestic dusts • Non continuous use	• villas • level apartments • small laboratories • shops
Up to 300 m²	DOMESTIC		**T BOX** (central vacuum unit with hidden connections) Page 50	• Recommended surface up to 300 m² • 1 user • Vacuuming of domestic dust • Non continuous use	• apartments • houses
Up to 300 m²	VERTICAL BUILDING		**Wolly 2** (built-in version available) Page 62	• Recommended Surface up to 300 m² • 1 user • Vacuuming of domestic dusts • Non continuous use	• apartments • residences
Up to 120 m²	VERTICAL BUILDING		**SISTEM Cube** (central vacuum unit with hidden connections) Page 72	• Recommended surface up to 120 m² • Reduced floor slab thickness • 1 user • Vacuuming of domestic dust • Non continuous use	• small apartments • storage rooms • sink units
Up to 60 m²	VERTICAL BUILDING		**Jolly** (vacuum unit module) Page 80	• 60 m² each module • No need for pipe network • 1 user • Vacuuming of domestic dusts • Non continuous use	• small apartments • hobby locations • garages • finished houses
Up to 1.800 m²	PROFESSIONAL		**REVO JOB** (professional vacuum unit) Page 92	• Recommended surface up to 1.800 m² • Up to 3 simultaneous users • Vacuuming of domestic and not domestic dusts • Prolonged use • Compact central unit	• bed and breakfasts • sports facilities • beauty salons • laboratories
Up to 1800 m²	PROFESSIONAL		**REVO Block Professional** (TOP professional vacuum unit) Page 102	• 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) Page 118	• No surface limits • Unlimited number of simultaneous users	• hotel • factories • museums
	**INDUSTRIAL Motor Matic** Page 124 **INDUSTRIAL Motor** Page 130	• 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) Page 140	• Pneumatic system of filter automatic cleaning (managed by central vacuum unit)	• TECNO STAR Dual Power • Revo Block Professional • Industrial Clean separators
SPECIAL APPLICATIONS 	**Turbix Small/medium** (cyclonic separator) Page 146	• Pre-separators with cyclonic separation • Wall mounted	
SPECIAL APPLICATIONS 	**Turbix Big** (cyclonic separator) Page 150	• Pre-separators with cyclonic separation • To be placed on the floor	
SPECIAL APPLICATIONS 	**Basic separators** Page 156	• Dust separators without electronic control for motors and autocleaning	
APPLICAZIONI SPECIALI 	**Automatic discharge separators** Page 160	• INOX pre-separator with automatic discharge of vacuumed material • Wall mounted	
CHOICE GUIDE TO THE SYSTEM	Page 166		

INDEX

OTHER COMPONENTS OF THE SYSTEM

KEY Products features


Conformity mark CE


Isolation class 1


Isolation class 2

Protection degree IP


Number of simultaneous users MAX

Energy saving vacuum unit


Computer maintenance


Possibility of automatic filter cleaning


Vacuum inlet on board

Soft Start system

Detectable by Metal Detector


Vacuum unit with filtering bag


Vacuum unit without filtering bag

Vacuum unit with complete accessories kit

Suitable for finished houses


Special vertical building