Commercial
Central Vacuum Systems

Catalogue
Welcome to the commercial catalogue of the Spanish central vacuum specialist SACH, a company which has been developing, manufacturing and commercializing central vacuum systems since 1992.

The experience and professionalism acquired over more than 18 years combined with the ongoing commitment to seek out the right solution for all types of projects, be they domestic or commercial, has enabled us to put together the most technically advanced and most functional range of central vacuum systems in the market, supported by comprehensive consultation and planning tailored to the customer’s specific requirements and an attention to detail which is vital for any professionally managed project.

Discover the benefits that a SACH central vacuum system can offer you and the cost-savings it brings to businesses, large organisations and all types of buildings where, hygiene clean air quality and the time needed for cleaning are critical factors.

We offer you a broad, innovative range of simple but efficient central vacuum solutions and product combinations, all of which have been tested rigorously to ensure the highest standards of safety and durability.

Our primary goal is customer satisfaction and this we seek to achieve by placing at our customers’ disposal the consultation and planning service of our technical department which will oversee the project at all stages, providing a rapid and efficient response even for the largest of projects.

Thank you for looking at our products!
HOW A COMMERCIAL CENTRAL VACUUM SYSTEM WORKS
CENTRAL VACUUM SYSTEMS

The hose handle, with the appropriate cleaning tool attached, receives a low-voltage signal from the central vacuum unit through the wall or floor valve to which it is connected, enabling the operator to start cleaning. Air and dirt travels through the network of PVC ducting (available in different dimensions) to the central vacuum unit, which will be located away from habitable areas in a room specifically prepared for it (below-level machine room etc.) Dirt and dust are filtered out from the air by the central vacuum unit.

The central vacuum system required to serve the building is determined by the total surface area to be cleaned, the network of pipes required to serve the most distant inlet valves and the number of simultaneous operators which are envisaged; these factors will determine what diameter of PVC pipe will be required for the ducting network.

Intelligent professional planning is critical to ensure that the system operates with maximum effectiveness, thereby guaranteeing ultimate customer satisfaction. Planning of the central vacuum system should follow the plans for the construction / renovation of the building, with its installation commencing during the phase of construction of partition walls. Our technical department is committed to seeking a comprehensive solution to suit your own personal requirements which guarantees the best possible integration of the system into the building, taking into consideration all other service requirements.

NETWORK OF PVC DUCTING AND ACCESSORIES SPECIFIC TO THE INSTALLATION OF CENTRAL VACUUM SYSTEMS: EMBEDDED IN THE WALL, FLOOR OR CEILING

VACUUM INLET VALVES: LOCATED IN THE WALL OR THE FLOOR

HOSE/HANDLE AND CLEANING ACCESSORIES: SACH’S OWN PROFESSIONAL RANGE
2. BENEFITS OF A SACH FOR THE DEVELOPER / THE INVESTOR / THE OPERATOR

In hotels, offices and restaurants the level of cleanliness, hygiene and the time it takes to clean are all critical factors. Much more powerful than a conventional vacuum cleaner, a central vacuum system provides greater vacuuming power as well as a high level of filtration with the result that vacuumed air is not returned to the workplace but rather expelled outside. Another key feature is that it requires minimal maintenance and this is limited to emptying the system’s dust bin. (It is recommended that the bin is emptied every six months).

- **TOTAL HYGIENE AND THE ELIMINATION OF UNCLEAN AIR**: We achieve the highest air quality and the healthiest environment, preventing allergies and respiratory complaints, because vacuumed air is not re-circulated in the workplace but rather filtered and expelled outside.

  The study “The influence of a Central Vacuum System on the Quality of Life in Patients with House Dust-Associated Allergic Rhinitis”, (University of California, USA), established and proved clinically the advantages and benefits of central vacuum systems, demonstrating a general improvement in the parameters of sleep and rest and further improvement in breathing and symptomatic respiratory problems such as asthma, allergies and rhinitis.

- **A BETTER WORKING ENVIRONMENT**: A healthy working environment promotes greater productivity from the workforce. A major contribution to the policy of Healthy Buildings, which champions a healthy ambiance for the interiors of buildings.

- **GREATER POWER**: which translates into really effective and efficient cleaning so you clean less frequently and then in a single pass.

- **QUIET OPERATION**: There is no need to adapt the hours of cleaning staff for fear of disturbing sleeping guests; consequently you are able to achieve a rationalization and optimization of cleaning staff.

- **EASY-TO-USE WITH THE ELIMINATION OF SET-UP TIME**: the hose fits into the inlet valve and the system, operated by an electrical signal, starts to work automatically – no cables, no plugs and no need to handle the vacuum cleaner.

- **EASY MANOEUVRABILITY AND ACCESS TO ALL AREAS**: you don’t need to carry additional items around with you and you have unrestricted access to all surfaces without needing to expend a great deal of effort.

  All these factors mean less time spent cleaning. Because cleaners can use the system simultaneously, they can spend time doing other jobs. Cleaning becomes more efficient and more convenient, requiring less effort with a consequent direct saving in costs (time and effort).

- **MINIMAL DAMAGE TO FURNITURE, WALLS AND CORNERS, ETC.**

- **SAFETY**: you avoid having to handle electrical supply cables. Inlet valves have a maximum voltage of 12/24V and are protected by a safety cover.

- **MAINTENANCE AND RECOUPING YOUR INVESTMENT**: the central vacuum system is practically maintenance-free. All you need to do is empty the bin periodically. At the same time our central vacuums use a system which allows for the filter to cleaned automatically one or more times per day, there by guaranteeing that the system is working optimally at all times.

The working life of a central vacuum system is at least 25 years for the equipment and at least 40 years for the ducting.
3. APPLICATIONS AND BASIC CRITERIA FOR PLANNING AN INSTALLATION

APPLICATIONS

SACH offers a broad range of central vacuum equipment and solutions designed specifically for servicing hotels, other accommodation, restaurants, hospitals, offices, stores, cinemas, hairdressers and beauty salons; in fact any building designed for commercial or industrial use.

BASIC CRITERIA FOR PLANNING AN INSTALLATION

When considering improvements to your building and the benefits that installing a central vacuum system will afford, it is essential to take advice from technical experts who can provide support at all stages (planning, installation, commissioning) in order to guarantee that the system works perfectly. The basic criteria to determine the type of installation and the most appropriate equipment are set out below:

SURFACE AREA TO BE COVERED: square metrage, the number of floors and actual service requirements of the building.

THE NUMBER OF SIMULTANEOUS USERS REQUIRED: as a rule in hotels, hospitals and other similar projects, the number of simultaneous users is proportional to the number of rooms in the ratio of 15-20 rooms per operator. In the case of office blocks the ratio is normally determined by the number of square metres to be cleaned, the number of cleaning staff and the time available to carry out the cleaning. As a reference point one cleaner should be able to cover a surface area of 800-1200m².

THE NUMBER AND LOCATION OF VALVES: in order to determine the number of valves required and their location, we need to consider the area to be covered, the reach of the hose to be used (normally 10 metres) and ensure all areas can be served with it.

SELECTION OF THE CENTRAL VACUUM EQUIPMENT: our technical department will always recommend the most appropriate equipment, taking into account the necessary parameters (area to be covered, number of floors, number of users required, number of valves, relative water-lift in different parts of the building) and a possible need to over-compensate to ensure that you get the maximum possible benefit from your SACH central vacuum system.

THE LOCATION OF THE CENTRAL VACUUM UNIT WITHIN THE BUILDING: it is always advisable to check in advance with the site management that there are no restrictions or preferences. It is preferable to install the central vacuum unit on the lowest floor of the building within a machinery room or a room designed specifically to house it.

SACH offers a wide range of systems specifically designed for buildings whose sheer size require central vacuum equipment, which envisage prolonged usage within a system that permits multi-user operation.
COMMERCIAL EQUIPMENT
COMMERCIAL SYSTEMS

EVODULES
EVODUST DUST SEPARATORS
EVO THREE-PHASE MOTORS
4. EVOBLOCK

Designed for large homes and smaller industrial units, the EVOBLOCK central vacuum unit combines the heavy-duty cleaning power and functionality of a commercial system with the versatility and simplicity of a domestic system, allowing for simultaneous use by two operators at any one time.

EVOBLOCK is available with three different motor sizes, single-phase with mechanical controls, three-phase with mechanical controls and three-phase with electronic controls (incorporating Inverter technology), all models having a “soft-start” starter mechanism: a perfect ensemble of motor, filtration area and bin combined in one autonomous unit.

EVOBLOCK’s motor provides an integrated system for cleaning the cartridge filter by controlling airflow. The dust bin mounted on castors is released by operating a lever to facilitate easy emptying.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>EVOBLOCK SINGLE-PHASE</th>
<th>EVOBLOCK THREE-PHASE</th>
<th>EVOBLOCK THREE-PHASE</th>
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<tbody>
<tr>
<td>PRODUCT CODE</td>
<td>ST3280.0-SC</td>
<td>ST3290.1-SC</td>
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<td>CONTROL TYPE</td>
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<td>MECHANICAL</td>
<td>ELECTRONIC</td>
</tr>
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<td>OPERATORS</td>
<td>Nº 1</td>
<td>Nº 2</td>
<td>Nº 2</td>
</tr>
<tr>
<td>INLET VALVES</td>
<td>Nº 30</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>DUST CONTAINER CAPACITY IN LITRES</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

4.1 DIMENSIONS - ELEVATIONS

All models have the same dimensions.

EVOBLOCK MODELS

- EVOBLOCK SINGLE-PHASE 117 Kg
- EVOBLOCK THREE-PHASE MECHANICAL 117 Kg
- EVOBLOCK THREE-PHASE ELECTRONIC 120 Kg
4.3 FILTRATION SYSTEM AND FILTER CLEANING

The purpose of this feature is to maintain the filter in perfect working condition, thereby prolonging the life both of it and that of the central vacuum system too. By pulling on the airflow inverter lever the direct vacuum connection to the motor is diverted to the escape valve in order to inject air into the inner part of the filter which is protected by a metal frame. By a process of pneumatic agitation the filter cleaning process occurs. The three different models all incorporate this system.

MATERIAL: Polyester.
FILTER SURFACE: 13000 cm².
FILTER CLEANING SYSTEM: Pneumatic agitation activated by air inversion.
OPERATION OF FILTER CLEANING SYSTEM: Manual.
5. EVODUST DUST SEPARATORS

SACH’s EVODUST Separators filter out vacuumed air efficiently, separating out dust and dirt and leaving clean air. Sleek in appearance but robust in construction, they fit perfectly into the environment for which they are designed.

The models DC50, DC80 and DC160 with their Self-Cleaning feature, when used in conjunction with the EVO Motor Groups, provide the complete range necessary for all types of project.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PRODUCT CODE</th>
<th>OPERATORS</th>
<th>CAPACITY</th>
<th>CONTAINER</th>
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<tbody>
<tr>
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<tr>
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<td>1-2</td>
<td>50</td>
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<tr>
<td>EVODUST DC80</td>
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<tr>
<td>EVODUST DC80 SELF-CLEANING</td>
<td>ST3320.0A-SC</td>
<td>2-4</td>
<td>80</td>
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<tr>
<td>EVODUST DC160</td>
<td>ST3340.0-SC</td>
<td>4-6</td>
<td>160</td>
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<td>EVODUST DC160 SELF-CLEANING</td>
<td>ST3340.0A-SC</td>
<td>4-6</td>
<td>160</td>
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</tbody>
</table>

5.1 DIMENSIONS-ELEVATIONS

WITHOUT SELF-CLEANING FEATURE

WITH SELF-CLEANING FEATURE

DC50  35 Kg / DC50 SELF-CLEANING  57 Kg
DC80  55 Kg / DC80 SELF-CLEANING  74 Kg
DC160 80 Kg / DC160 SELF-CLEANING  95 Kg
5.2 DESCRIPTION AND FEATURES

THE EVODUST DC50 AND THE SELF-CLEANING EVODUST DC50

The smallest dust separator in the EVODUST range, the DC50 is designed to attach to a wall. The Self-Cleaning version is provided with a base support and the filter cleaning facility. Both models come with a metal support for the polyethylene bag.


The DC80 and DC160 and their Self-Cleaning equivalents come with an integrated base support for ease of manoeuvring of the dust bin which is mounted on castors to further assist with its removal. The Self-Cleaning versions have the facility for the operator to be able to programme the automatic cleaning function on the integrated electronic panel in accordance with the needs of system users. The Self-Cleaning cycle takes no more than four minutes to run. All versions come with a metal support for the polyethylene bag.
5.3 THE FILTRATION SYSTEM

The EVODUST dust separators are equipped with a double filtration system comprising two stages, enabling filtration of particles as small as 5 microns and guaranteeing maximum efficiency of filtration.

The cyclonic stage takes place inside the lower part of the separator thanks to a metal cyclonic cone located in the upper part of the dust bin, the main function of which is to push dust and residue down into the bottom of the bin.

A second stage of filtration then takes place as the cellulose cartridge filters the air separating out the dust.

<table>
<thead>
<tr>
<th>FILTER Particles up to 5 microns</th>
<th>DCSO + DC50 SELF-CLEAN</th>
<th>DCBO + DC50 SELF-CLEAN</th>
<th>DC160 + DC50 SELF-CLEAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATERIAL</td>
<td>Cellulose</td>
<td>Cellulose</td>
<td>Cellulose</td>
</tr>
<tr>
<td>FILTER OUTSIDE DIAMETRE (mm)</td>
<td>225</td>
<td>225</td>
<td>325</td>
</tr>
<tr>
<td>FILTER INSIDE DIAMETRE (mm)</td>
<td>125</td>
<td>125</td>
<td>215</td>
</tr>
<tr>
<td>FILTER WEIGHT (gr)</td>
<td>650</td>
<td>650</td>
<td>650</td>
</tr>
<tr>
<td>FILTER SURFACE (cm²)</td>
<td>26300</td>
<td>26300</td>
<td>42000</td>
</tr>
</tbody>
</table>

5.4 SELF-CLEANING SYSTEM

The Self-Cleaning versions of the DC50, DC80 and DC160 permit the programming of regular discharges of air in cycles to clean the cartridge filter, resulting in minimal, convenient maintenance of the system. The self-cleaning function is achieved by means of one of 20 possible cycle options.

Visual LCD displays show all stages of the programme, current time, ON/OFF indicator and all the functions necessary to control and optimize the equipment’s features.

The accumulator discharges 11 litres of compressed air per second at 4 bars of pressure, guaranteeing effective cleaning of the cartridge filter.

<table>
<thead>
<tr>
<th>SELF-CLEAN SYSTEM POWER SUPPLY</th>
<th>DC50 SELF-CLEAN</th>
<th>DC80 SELF-CLEAN</th>
<th>DC160 SELF-CLEAN</th>
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</thead>
<tbody>
<tr>
<td>V</td>
<td>ST3310.0A-SC</td>
<td>ST3320.0A-SC</td>
<td>ST3340.0A-SC</td>
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<tr>
<td>COMPRESSOR POWER (kW/Hp)</td>
<td>0,48/0,65</td>
<td>0,48/0,65</td>
<td>0,48/0,65</td>
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<tr>
<td>COMPRESSOR PRESSURE - SELF-CLEAN SYSTEM (Bar)</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>AIR CYLINDER CAPACITY - SELF-CLEAN SYSTEM (L)</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>CONSUMPTION IN OPERATION (A)</td>
<td>4,5</td>
<td>4,5</td>
<td>4,5</td>
</tr>
<tr>
<td>FREQUENCY (Hz)</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>SAFETY VALVE PRESSURE (Bar)</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>
6. EVO THREE-PHASE MOTORS

In conjunction with the EVODUST Dust Separators, SACH offers a wide range of powerful three-phase motor groups either with mechanical or electronic controls, to be used individually or as part of a combined system according to the specific requirements of each project, and providing the option of up to 6 simultaneous operators.

### 6.1 INVERTER TECHNOLOGY

Our inverter technology is based on a device which, working like a high-powered electronic oscillator, balances out relative parameters, causing the system to work smartly, thereby optimizing the energy consumption of the motor.

A pressure monitoring device located within the ducting network obtains real-time information on the airflow within the system at any moment. (The airflow varies as a function of the number of valves in the system which are open.) Advance programming of the required airflow in the system for optimum working provides the indicator by which the frequency adjuster adapts electronically the motor’s speed to ensure that at all times this is directly proportional to that which is required to provide power to the number of operators wishing to use it at that time.

In this way we are able to maintain the perfect balance between power and consumption adapting the former at any time to user demand in installations equipped with the Inverter system. If airflow in the system is very high then the motor speed reduces and vice versa with the result that electricity consumption is always proportional to actual demand.
6.2 DIMENSIONS-ELEVATIONS AND DESCRIPTION

**AIR INLET**
**SWITCH**
**SAFETY LOCK**
**VENTILATION GRILLES**
**DOOR**

**DIGITAL CONTROL PANEL**
- Frequency of absorption
- RPM
- Time in Operation
- Malfunction Indicators

**MOTORS**
- Motors in aluminium
- Quiet operation
- High performance
- Minimal maintenance

**SWITCH**
Allows constant control of the system by selecting the AUTOMATIC or MANUAL option

**MOTOR MODELS**
- EV 2.2 kW MECHANICAL 72 Kg
- EVO 4.0 kW MECHANICAL 90 Kg / EVO 4.0 kW ELECTRONIC 100 Kg
- EVO 5.5 kW MECHANICAL 124 Kg / EVO 5.5 kW ELECTRONIC 130 Kg
- EVO 7.5 kW MECHANICAL 142 Kg / EVO 7.5 kW ELECTRONIC 148 Kg

**AIR OUTLET**
**SOUNDPROOFING**
**CURRENT SELECTOR**
**INVERTER FREQUENCY REGULATOR**

**DIMENSIONS**
- 900MM
- 850MM
- 800MM
- 600MM
- Ø80MM
- Ø63MM
- Ø100MM

**WEIGHTS**
- EVO 2.2 kW MECHANICAL 72 Kg
- EVO 4.0 kW MECHANICAL 90 Kg / EVO 4.0 kW ELECTRONIC 100 Kg
- EVO 5.5 kW MECHANICAL 124 Kg / EVO 5.5 kW ELECTRONIC 130 Kg
- EVO 7.5 kW MECHANICAL 142 Kg / EVO 7.5 kW ELECTRONIC 148 Kg

**EVO MODELS**
- EVO 2.2 kW MECHANICAL
- EVO 4.0 kW MECHANICAL
- EVO 5.5 kW MECHANICAL
- EVO 7.5 kW MECHANICAL

**EVO MECHANICAL**
- EVO 2.2 kW MECHANICAL 72 Kg
- EVO 4.0 kW MECHANICAL 90 Kg
- EVO 5.5 kW MECHANICAL 124 Kg
- EVO 7.5 kW MECHANICAL 142 Kg

**EVO ELECTRONIC**
- EVO 4.0 kW ELECTRONIC 100 Kg
- EVO 5.5 kW ELECTRONIC 130 Kg
- EVO 7.5 kW ELECTRONIC 148 Kg

**MOTOR MODELS**
- EVO 2.2 kW MECHANICAL
- EVO 4.0 kW MECHANICAL
- EVO 5.5 kW MECHANICAL
- EVO 7.5 kW MECHANICAL

**WEIGHTS**
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- EVO 4.0 kW MECHANICAL 90 Kg
- EVO 5.5 kW MECHANICAL 124 Kg
- EVO 7.5 kW MECHANICAL 142 Kg

**EVO MODELS**
- EVO 2.2 kW MECHANICAL
- EVO 4.0 kW MECHANICAL
- EVO 5.5 kW MECHANICAL
- EVO 7.5 kW MECHANICAL

**WEIGHTS**
- EVO 2.2 kW MECHANICAL 72 Kg
- EVO 4.0 kW MECHANICAL 90 Kg
- EVO 5.5 kW MECHANICAL 124 Kg
- EVO 7.5 kW MECHANICAL 142 Kg
6.3 EVO MOTOR GROUPS WITH MECHANICAL CONTROLS -2.2kW/ 4.0kW/ 5.5kW/ 7.5kW

We conceived this range to offer commercial central vacuum equipment with 4 different power ratings at accessible prices for smaller installations.

EVO motors with mechanical controls have been improved by adding an electronic device allowing a progressive start-up – “soft start”, thereby achieving a reduction in the absorption of current during the start-up phase. Thanks to the “soft-start” starter mechanism, the number of revolutions, rpm, of the rotor blades of the turbine increase progressively, thereby reducing the risk of overheating as a result of the stress caused by the immediate start up of the turbine as well as the mechanical stress borne by the main pipe. In this way maximum power demands are accommodated at lower revolutions (between 2,500 and 4,500 rpm) to give the equipment a longer working life.

Mechanical motors can be installed individually or combined with motors with electronic controls to make the most of the technology the latter provide to achieve optimum power and performance.

### POSSIBLE COMBINATIONS MECHANIC CONTROL

<table>
<thead>
<tr>
<th>MODEL</th>
<th>EVO 2.2kW</th>
<th>EVO 4.0kW</th>
<th>EVO 5.5kW</th>
<th>EVO 7.5kW</th>
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<tbody>
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<td>PRODUCT CODE</td>
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<td>OPERATORS Nº</td>
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<td>380/50</td>
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<tr>
<td>MOTOR REVOLUTIONS rpm</td>
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<td>2900</td>
<td>2900</td>
<td>2900</td>
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<tr>
<td>PROGRESSIVE START-UP</td>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
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<td>2500</td>
<td>3500</td>
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<tr>
<td>MAX. AIR CAPACITY M³/H</td>
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<td>400</td>
<td>780</td>
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<tr>
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<td>NO</td>
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<td>NO</td>
</tr>
<tr>
<td>NOISE LEVEL Db</td>
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<td>&lt;75</td>
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### POSSIBLE COMBINATIONS MECHANIC CONTROL

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<thead>
<tr>
<th>SEPARATOR</th>
<th>SELF-CLEANING</th>
<th>MOTOR GROUP</th>
<th>AIR-FLOW</th>
<th>RELIEF VALVE</th>
<th>MOTOR MUFFLER</th>
<th>INLET VALVES</th>
<th>OPERATORS</th>
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<tbody>
<tr>
<td>EVODUST DC50 ST 3310.0-SC</td>
<td>×</td>
<td>EVO 2.2 kW ST 070001-SC</td>
<td>300M/H</td>
<td>——</td>
<td>Ø80 AST5502.0-SC</td>
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<td>EVO 4.0 kW ST 070002-SC</td>
<td>400M/H</td>
<td>Ø63mm. AST 7701.0-SC</td>
<td>Ø80 AST5502.0-SC</td>
<td>30</td>
<td>2</td>
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<tr>
<td>EVODUST DC80 ST 3320.0-SC</td>
<td>×</td>
<td>EVO 5.5 kW ST 070003-SC</td>
<td>780M/H</td>
<td>Ø80mm. AST 7702.0-SC</td>
<td>Ø100 AST5503.0-SC</td>
<td>50</td>
<td>3</td>
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<tr>
<td>EVODUST DC80 ST 3320.0A-SC</td>
<td>✓</td>
<td>EVO 5.5 kW ST 070003-SC</td>
<td>780M/H</td>
<td>Ø80mm. AST 7702.0-SC</td>
<td>Ø100 AST5503.0-SC</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>EVODUST DC80 ST 3320.0-SC</td>
<td>×</td>
<td>EVO 7.5 kW ST 070004-SC</td>
<td>910M/H</td>
<td>Ø100mm. AST 7703.0-SC</td>
<td>Ø100 AST5504.0-SC</td>
<td>60</td>
<td>4</td>
</tr>
<tr>
<td>EVODUST DC80 ST 3320.0A-SC</td>
<td>✓</td>
<td>EVO 7.5 kW ST 070004-SC</td>
<td>910M/H</td>
<td>Ø100mm. AST 7703.0-SC</td>
<td>Ø100 AST5504.0-SC</td>
<td>60</td>
<td>4</td>
</tr>
</tbody>
</table>
6.4 EVO ELECTRONIC MOTOR GROUPS 4.0E, 5.5E AND 7.5E

Provided with Inverter technology and the “soft-start” starter mechanism, the EVO electronic motor groups are designed for large installations with several simultaneous users, offering the possibility of installing one or more units in a battery when combined with mechanical motors.

In combination with the EVODUST Separator and EVO Electronic Motor Groups it is possible to adapt airflow to the demands of users at any time, with the result that electrical consumption is directly proportional to usage needs, bringing about a perfect balance between users, power and consumption. The continuous regulation of the turbine’s revolutions varies the airflow as a function of the number of operators using the system, resulting in optimum automatic functioning through motor speed regulation.

The on-board display permits the programming and visualization of operating parameters such as the frequency of absorption, motor revolutions, the period of time the system has been operating, operating anomalies (overloads, voltage spikes, overheating, etc.)

The central vacuum unit with electronic controls represents the ultimate development in central vacuum technology for industrial and commercial applications.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>EVO 4.0E</th>
<th>EVO 5.5E</th>
<th>EVO 7.5E</th>
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<tbody>
<tr>
<td>PRODUCT CODE</td>
<td>ST0700010E-SC</td>
<td>ST0700011E-SC</td>
<td>ST0700012E-SC</td>
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<tr>
<td>OPERATORS</td>
<td>380/50-60</td>
<td>380/50-60</td>
<td>380/50-60</td>
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<tr>
<td>POWER SUPPLY</td>
<td>V/Hz</td>
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<td>NOMINAL ABSORBED POWER</td>
<td>kW</td>
<td>4(0.5-4.6)</td>
<td>5.5(1.8-6.3)</td>
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<tr>
<td>CONSUMPTION IN OPERATION</td>
<td>A</td>
<td>2-9</td>
<td>13-23</td>
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<tr>
<td>MOTOR REVOLUTIONS</td>
<td>rpm</td>
<td>3500</td>
<td>3500</td>
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<tr>
<td>PROGRESSIVE START-UP</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>MAX. VACUUM</td>
<td>MM H2O</td>
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<td>3500</td>
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<tr>
<td>MAX. AIR CAPACITY</td>
<td>M³/H</td>
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<td>650</td>
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<tr>
<td>INVERTER</td>
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<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>NIVEL SONORO</td>
<td>dB</td>
<td>&lt;75</td>
<td>&lt;75</td>
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</table>

POSSIBLE COMBINATIONS ELECTRONIC CONTROL

<table>
<thead>
<tr>
<th>SEPARATOR</th>
<th>SELF-CLEANING</th>
<th>MOTOR GROUP</th>
<th>AIR-FLOW</th>
<th>MOTOR MUFLER</th>
<th>INLET VALVES</th>
<th>OPERATORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVODUST DC50</td>
<td>ST 3310.0-SC</td>
<td>EVO 4.0E kW</td>
<td>380M³/H+Δ 20%</td>
<td>Ø80 AST5502.0-SC</td>
<td>40</td>
<td>2</td>
</tr>
<tr>
<td>EVODUST DC50</td>
<td>ST 3310.0A-SC</td>
<td>EVO 4.0E kW</td>
<td>380M³/H+Δ 20%</td>
<td>Ø80 AST5502.0-SC</td>
<td>40</td>
<td>2</td>
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<tr>
<td>EVODUST DC80</td>
<td>ST 3320.0-SC</td>
<td>EVO 4.0E kW</td>
<td>380M³/H+Δ 20%</td>
<td>Ø80 AST5502.0-SC</td>
<td>40</td>
<td>2</td>
</tr>
<tr>
<td>EVODUST DC80</td>
<td>ST 3320.0A-SC</td>
<td>EVO 4.0E kW</td>
<td>380M³/H+Δ 20%</td>
<td>Ø80 AST5502.0-SC</td>
<td>40</td>
<td>2</td>
</tr>
<tr>
<td>EVODUST DC80</td>
<td>ST 3320.0A-SC</td>
<td>EVO 5.5E kW</td>
<td>650M³/H+Δ 20%</td>
<td>Ø100 AST5503.0-SC</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>EVODUST DC80</td>
<td>ST 3320.0A-SC</td>
<td>EVO 5.5E kW</td>
<td>650M³/H+Δ 20%</td>
<td>Ø100 AST5503.0-SC</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>EVODUST DC80</td>
<td>ST 3320.0A-SC</td>
<td>EVO 7.5E kW</td>
<td>810M³/H+Δ 20%</td>
<td>Ø160 AST5504.0-SC</td>
<td>70</td>
<td>4</td>
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<tr>
<td>EVODUST DC80</td>
<td>ST 3320.0A-SC</td>
<td>EVO 7.5E kW</td>
<td>810M³/H+Δ 20%</td>
<td>Ø160 AST5504.0-SC</td>
<td>70</td>
<td>4</td>
</tr>
</tbody>
</table>
6.5 MECHANICAL / ELECTRONIC COMBINATIONS OF EVO MOTOR GROUPS

By combining the EVODUST dust separator with one or more EVO motor groups (Mechanical / Electronic) we are able to manage the airflow necessary to allow up to six operators to use the system simultaneously (two motors plus a separator).

The Inverter technology, which the electronic motor provides, adjusts the speed of the two motors in order to constantly regulate the airflow to the vacuum inlet valves, thereby maintaining a perfect balance between the number of users, the level of power and energy consumed.

INSTALLATION LAYOUT

---

### SEPARATOR MOD. | MOTOR GROUP 1 AIR-FLOW | MOTOR GROUP 2 AIR-FLOW | MOTOR GROUP 1 MUFFLER | MOTOR GROUP 2 MUFFLER | INLET VALVES | OPERATORS
---

**EVODUST DC160 ST 3340.0-SC**
- MECHANICAL EVO 2,2 kW ST070001-SC
  - 300M/H Ø80 AST5502.0-SC
- ELECTRONIC EVO 5,5E kW ST0700011E-SC
  - 650M/H+Δ20%
- ø100 AST5503.0-SC
- 90
- 4

**EVODUST DC160 ST 3340.0A-SC**
- MECHANICAL EVO 2,2 kW ST070001-SC
  - 300M/H Ø80 AST5502.0-SC
- ELECTRONIC EVO 5,5E kW ST0700011E-SC
  - 650M/H+Δ20%
- ø100 AST5503.0-SC
- 90
- 4

**EVODUST DC160 ST 3340.0-SC**
- MECHANICAL EVO 4,0 kW ST070002-SC
  - 400M/H Ø80 AST5502.0-SC
- ELECTRONIC EVO 5,5E kW ST0700011E-SC
  - 650M/H+Δ20%
- ø100 AST5503.0-SC
- 80
- 5

**EVODUST DC160 ST 3340.0A-SC**
- MECHANICAL EVO 4,0 kW ST070002-SC
  - 400M/H Ø80 AST5502.0-SC
- ELECTRONIC EVO 5,5E kW ST0700011E-SC
  - 650M/H+Δ20%
- ø100 AST5503.0-SC
- 80
- 5

**EVODUST DC160 ST 3340.0-SC**
- MECHANICAL EVO 2,2 kW ST070001-SC
  - 300M/H Ø80 AST5502.0-SC
- ELECTRONIC EVO 7,5E kW ST0700012E-SC
  - 810M/H+Δ20%
- ø160 AST5504.0-SC
- 100
- 5

**EVODUST DC160 ST 3340.0A-SC**
- MECHANICAL EVO 2,2 kW ST070001-SC
  - 300M/H Ø80 AST5502.0-SC
- ELECTRONIC EVO 7,5E kW ST0700012E-SC
  - 810M/H+Δ20%
- ø160 AST5504.0-SC
- 100
- 5

**EVODUST DC160 ST 3340.0A-SC**
- MECHANICAL EVO 4,0 kW ST070002-SC
  - 400M/H Ø80 AST5502.0-SC
- ELECTRONIC EVO 7,5E kW ST0700012E-SC
  - 810M/H+Δ20%
- ø160 AST5504.0-SC
- 120
- 6

**EVODUST DC160 ST 3340.0A-SC**
- MECHANICAL EVO 5,5 kW ST070003-SC
  - 780M/H Ø100 AST5503.0-SC
- ELECTRONIC EVO 7,5E kW ST0700012E-SC
  - 810M/H+Δ20%
- ø160 AST5504.0-SC
- 140
- 6
7. SAMPLE DESIGN: PROPOSAL FOR A CENTRAL VACUUM INSTALLATION IN A HOTEL

1. General Points:

This plan represents a hotel with 72 rooms and communal areas with access to the central vacuum system. The top four floors comprise guest rooms. The ground floor comprises reception, offices, communal areas and general services. The basement comprises communal rooms and hotel service areas.

2. Specifics:

In accordance with the criteria laid down by the owners we have designed an installation comprising 57 inlets distributed throughout the hotel with a view to providing the possibility of two simultaneous users per floor and a maximum of four simultaneous users throughout the hotel.

The system envisages the usage of hoses 10 metres in length providing coverage from the inlet valves to all parts of the building and leaving no area without service.

The central vacuum equipment we selected for the installation comprises the EVODUST 160 Dust Separator with the Self-Cleaning facility in combination with the EVO7.5E Electronic Motor Group. The EVO7.5E is housed in the machine room or boiler room which is located in the basement.

The installation has been divided into two main vertical runs of ducting which individually provide service to floors split into different zones: vertical run A provides service to Zone A whilst vertical run B provides service to Zone B. All horizontal runs of ducting on each floor (apart from the basement) will be in 50mm diametre, connecting each zone to one of the two vertical runs with the diametre of the latter increasing to accommodate new floors as it descends.

THE CONFIGURATION OF DUCTING IS AS FOLLOWS:

- **FOURTH FLOOR:** Horizontal runs in 50 mm. diametre (one user per zone), vertical run to the Third Floor in 50mm diametre.
- **THIRD FLOOR:** Horizontal runs in 50 mm. diametre (one user per zone), vertical run to the Second Floor in 63mm diametre.
- **SECOND FLOOR:** Horizontal runs in 50 mm. diametre (one user per zone), vertical run to the First Floor in 80mm diametre.
- **FIRST FLOOR:** Horizontal runs in 50 mm. diametre (one user per zone), vertical run to the Ground Floor in 80mm diametre.
- **GROUND FLOOR:** Horizontal runs in 50 mm. diametre (one user per zone), vertical run to the Basement in 80mm diametre.
- **BASEMENT:** Inlets to be located in a vertical line connected by 50mm diametre ducting through the ceiling of this floor to the main vertical run of 80mm pipe and from there to the central vacuum system.
THIRD AND FOURTH FLOORS

SACH CENTRAL VACUUM SYSTEM

Vertical pipe run

* Vertical pipe run

Exhaust Vent

○ EVO Commercial motor group

Vertical pipe run Ø50mm

Vertical pipe run Ø63mm

Vertical pipe run Ø80mm

Vertical pipe run Ø100mm

Vacuum Inlet Valve

Proposed Valve Location

Top Floor

Kitchen Sweep Inlet

Hose length

SACH CENTRAL VACUUM SYSTEM

DC80 SELF-CLEANING SEPARATOR WITH 7.5 KW ELECTRONIC MOTOR

- Fourth floor to third floor Ø50mm
- Third floor to second floor Ø63mm
FIRST AND SECOND FLOORS

ZONE A

Zone A

Zone B

Zone B

Vertical pipe run
- Second floor to first floor Ø80mm
- First floor to ground floor Ø80mm

SACH CENTRAL VACUUM SYSTEM
DC80 SELF-CLEANING SEPARATOR WITH 7.5 KW ELECTRONIC MOTOR
- Exhaust Vent
- Vertical pipe run Ø50mm
- Vertical pipe run Ø63mm
- Vertical pipe run Ø80mm
- Vertical pipe run Ø100mm
- Vacuum Inlet Valve
- Proposed Valve Location
- Wall-mounted Hose Reel 11 meters long
- Hose length 10 linear meters

Proposed Valve Location
- Top Floor
- Kitchen Sweep Inlet
7. PLANTEAMIENTO TÉCNICO: PROYECCION INSTALACION ASPIRACION CENTRALIZADA SOBRE PLANO EJEMPLO

HOJA 1. PLANTA SOTANO
El presente plano corresponde a un hotel de 5 plantas y sótano, con 72 habitaciones y zonas comunes a las que dar servicio de aspiración centralizada. Siguiendo el criterio marcado por la propiedad, se ha diseñado una instalación para una utilización simultánea de 4 usuarios, a razón de 1 usuario máximo por planta.

El equipo de aspiración centralizada, formado por la combinación de separador de polvo EVODUST 160 con Autolimpieza y Motor Electrónico EVO 7,5E, se ubica en la sala de máquinas/cuarto de calderas del nivel sótano.

HOJA 2. PLANTA BAJA
Se han proyectado un total de 54 tomas de aspiración, dando servicio en todo el edificio, repartidas en los diferentes niveles:

- Planta Sótano: 6 Tomas de Aspiración
- Planta Baja: 13 Tomas de Aspiración
- Planta 1/2/3/4/5: 8 Tomas de Aspiración

La manguera prevista tendrá una longitud de 10 ml, dando cobertura desde las tomas a todas las zonas, sin dejar sin servicio ningún área, de uso restringido al personal o no.

HOJA 3. RESTO PLANTAS
Toda la distribución horizontal de la red de canalización en cada planta será en 50 mm de diámetro, sectorizando ésta en ... de las tomas planificadas. Desde la planta segunda hasta la central de aspiración, la canalización discurrirá en 80 mm.

Las dimensiones del proyecto y número de usuarios deseado marcarán el requerimiento de diámetro de 100mm en la ... si es deseado para dar servicio específico en cocinas y garajes en sustitución de la toma de aspiración convencional.

DATOS LEYENDA
- ASPIRACION CENTRALIZADA SACH
- SEPARADOR DC160 AUTOLIMPIEZA + MOTOR ELECTRÓNICO 7,5KW
- Grupo Motor EVO sector terciario
- Escape
- Tubería 50 mm diámetro
- Tubería 63 mm diámetro
- Tubería 80 mm diámetro
- Tubería 100 mm diámetro

Propuesto el proyecto de instalación en la planta sotano se tiene como referencia el diseño del último modelado generado, el cual es una orientación para la distribución y funcionamiento de las habitaciones y áreas comunes del hotel.

Zonas A y B del edificio hotelero son las que requieren la instalación de la aspiración centralizada, con dos equipos de aspiración en cada localización, uno para la zona A y otro para la zona B.

*Vertical pipe run
- Ground floor to basement Ø80mm
- EVO Commercial motor group
- Ø50 mm diameter pipe
- Ø63 mm diameter pipe
- Ø80 mm diameter pipe
- Ø100 mm diameter pipe
- Vacuum Inlet Valve

Propuesto Valve Location
- Top Floor
- Kitchen Sweep Inlet
- Wall-mounted Hose Reel 11 meters long
ZONE A

ZONE B

BASEMENT

SACH CENTRAL VACUUM SYSTEM
DC80 SELF-CLEANING SEPARATOR WITH 7.5 KW ELECTRONIC MOTOR

* Vertical pipe run

Ground floor to basement Ø80mm

Vacuum Inlet Valve
Proposed Valve Location
Top Floor
Kitchen Sweep Inlet

Exhaust Vent
EVO Commercial motor group
Vertical pipe run Ø50mm
Vertical pipe run Ø63mm
Vertical pipe run Ø80mm
Vertical pipe run Ø100mm
Wall-mounted Hose Reel 11 meters long
Hose length 10 linear meters

Hose length 10 linear meters
### 8. RELATED PRODUCTS

**PRODUCT CODE** | **DESCRIPTION**
---|---
AST4401.0-SC | SOUND PROOFING PROTECTION EVO 2.2/4.0/5.5
AST4402.0-SC | SOUND PROOFING PROTECTION EVO 7.5

**PRODUCT CODE** | **DESCRIPTION**
---|---
AST5501.0-SC | METAL MOTOR MUFFLER Ø63MM
AST5502.0-SC | METAL MOTOR MUFFLER Ø80MM
AST5503.0-SC | METAL MOTOR MUFFLER Ø100MM
AST5504.0-SC | METAL MOTOR MUFFLER Ø160MM

**PRODUCT CODE** | **DESCRIPTION**
---|---
AST7701.0-SC | RELIEF VALVE Ø63MM
AST7702.0-SC | RELIEF VALVE Ø80MM
AST7703.0-SC | RELIEF VALVE Ø100MM

**PRODUCT CODE** | **DESCRIPTION**
---|---
AST7704.0-SC | CHECK VALVE Ø63MM
AST7705.0-SC | CHECK VALVE Ø80MM
AST7706.0-SC | CHECK VALVE Ø100MM

**PRODUCT CODE** | **DESCRIPTION**
---|---
RT10010-SC | CELLULOSE CARTRIDGE FILTER FOR SEPARATORS DC50, DC50A, DC80, DC80A
RT10020-SC | CELLULOSE CARTRIDGE FILTER FOR SEPARATORS DC160, DC160A
RT10050-SC | DUST BAG SUPPORT FOR SEPARATORS DC80, DC80A
RT10051-SC | DUST BAG SUPPORT FOR SEPARATORS DC160, DC160A

---

**MATERIAL**

**PRODUCT CODE** | **DESCRIPTION**
---|---
AI7040.2-SC | PVC PIPE Ø40 MM (2.0 MM.x2ML.)
AI7050.2-SC | PVC PIPE Ø50 MM (2.0 MM.x2ML.)
AI7060.2-SC | PVC PIPE Ø63 MM (3 MM.x2ML.)
AI7070.2-SC | PVC PIPE Ø80 MM (3 MM.x2ML.)
AI7080.2-SC | PVC PIPE Ø100 MM (3 MM.x2ML.)

**PRODUCT CODE** | **DESCRIPTION**
---|---
AI7044-SC | 45° M-F Ø40 MM. ELBOW
AI7054-SC | 45° M-F Ø50 MM. ELBOW
AI7064-SC | 45° M-F Ø63 MM. ELBOW
AI7074-SC | 45° M-F Ø80 MM. ELBOW
AI7084-SC | 45° M-F Ø100 MM. ELBOW

**PRODUCT CODE** | **DESCRIPTION**
---|---
AI7045-SC | STOP COUPLING F-F Ø40 MM.
AI7055-SC | STOP COUPLING F-F Ø50 MM.
AI7065-SC | STOP COUPLING F-F Ø63 MM.
AI7075-SC | STOP COUPLING F-F Ø80 MM.
AI7085-SC | STOP COUPLING F-F Ø100 MM.

**PRODUCT CODE** | **DESCRIPTION**
---|---
AI7046-SC | CONICAL REDUCER Ø50-Ø40 MM.
AI7056-SC | CONICAL REDUCER Ø63-Ø50 MM.
AI7057-SC | CONICAL REDUCER Ø80-Ø50 MM.
AI7058-SC | CONICAL REDUCER Ø100-Ø50 MM.
AI7066-SC | CONICAL REDUCER Ø80-Ø63 MM.
AI7067-SC | CONICAL REDUCER Ø100-Ø63 MM.
AI7076-SC | CONICAL REDUCER Ø100-Ø80 MM.
9. INSTRUCTIONS FOR THE PLANNING AND INSTALLATION OF A SACH CENTRAL VACUUM SYSTEM

With a view to providing its customers with the maximum independence in planning and installing a central vacuum system, SACH has provided this simple guide to the steps to follow when planning and designing this type of installation.

1. General Points:
When designing a commercial central vacuum installation consideration needs to be given to the requirements of the customer with regard to the location of inlet valves as well as the number of users that will be required to operate the system simultaneously. Normally these variables will be determined by the usage requirements.

In hotels the normal ratio is one operator for 20 rooms. For example a hotel with approximately 100 rooms will need to be equipped to provide service to 5 simultaneous users. Nonetheless, in the majority of cases it is the company making the investment which will specify its requirements.

For an installation project for offices the ratio is calculated on the basis of the surface area to be cleaned in square metres. Thus, the generally accepted ratio would be 1 user for each 800-1200m².

For this type of project the length of hose to be used is usually 10 linear meters, which will provide a cleaning radius of 70-90m² depending on the position of walls and furniture.

2. Specifics:
A large commercial central vacuum installation will incorporate different diameters of PVC pipe in different stretches of the ducting network, so as to generate the required airflow to serve various simultaneous users. As a guideline we suggest the following ratio between pipe diameter and the number of users:

- **50 mm diameter** = 1 user at a time.
- **63 mm diameter** = 2 simultaneous users.
- **80 mm diameter** = 3-4 simultaneous users.
- **100 mm diameter** = 5-6 simultaneous users.

In a vertical building we divide up the installation by floor. The installation on each floor will run through the ceiling or, alternatively, the slab between it and the ceiling of the floor below. Depending on the number of operators called for this horizontal ducting will be 50mm or 63mm.

Each of the floors is to be considered as an independent installation. Each horizontal line can be connected to one or two vertical lines with the aim of configuring a connection between the different levels and the floor on which the central vacuum unit is located.

As more horizontal lines join the vertical runs of pipe, these will increase in diameter in accordance with the criteria already set out regarding the recommended diameters to use.

On the floor on which the central vacuum unit is located the pipe-work runs through the ceiling of that floor to the point where the central vacuum unit is located.

Depending on the size of the building or the cleaning requirements to be satisfied, we need to consider the possibility of dividing the building into zones, planning completely independent installation lines leading to separate central vacuum unit combinations (dust separator and motor group(s), according to the specific requirements of the project).

Feel free to contact our technical department! A team of designers and technicians are at your disposal to help you in the planning of your project, to provide solutions and to offer their personalized professional support at every stage of the project, from your original vision right through to the installation and commissioning of your high quality SACH central vacuum system.
VACUUM INLET VALVES: LOCATED IN THE WALL OR THE FLOOR

SIMULTANEOUS USERS IN DIFFERENT FLOORS

DUST SEPARATOR
ELECTRONIC MOTOR GROUP
MECHANICAL MOTOR GROUP

Basement

Floor 1
Floor 2
Floor 3
Floor 4
Floor 5
Floor 6
Floor 7
Floor 8
Floor 9
Floor 10
Floor 11
Floor 12

Ducting Ø50 mm
Ducting Ø63 mm
Ducting Ø80 mm
Ducting Ø100 mm
Mirasierra Suites Hotel

Commercial Central Vacuum Units:
2 x EVODUST DC160 Self-Cleaning Dust Separators.
2 x EVO Motor Group with Mechanical Control 5.5 kW.

Central vacuum inlet valves: 210 pieces.
Simultaneous users: 12.
Ducting: Ø 50-63-80-100mm.

Detinsa Offices

Commercial Central Vacuum Units:
1 x EVODUST DC80 Self-Cleaning Dust Separator.
1 x EVO Motor Group with Electronic Control 5.5 kW.

Central vacuum inlet valves: 32 pieces.
Simultaneous users: 3.
Ducting: Ø 50-63-80mm.

Consortium Insurance Offices

Commercial Central Vacuum Units:
1 x EVODUST DC160 Self-Cleaning Dust Separator.
2 x EVO Motor Group with Electronic Control 4.0 kW.

Central vacuum inlet valves: 86 pieces.
Simultaneous users: 6.
Ducting: Ø 50-63-80-100mm.
Hotel Galatea
Commercial Central Vacuum Units:
1 x EVODUST DC80 Self-Cleaning Dust Separator.
1 x EVO Motor Group with Electronic Control 5.5 Kw.
Central vacuum inlet valves: 86 pieces.
Simultaneous users: 3.
Ducting: Ø 50-63-80 mm.

Hotel Pintor El Greco
Commercial Central Vacuum Units:
1 x EVODUST DC80 Self-Cleaning Dust Separator.
1 x EVO Motor Group with Electronic Control 5.5 Kw.
Central vacuum inlet valves: 65 pieces.
Simultaneous users: 3.
Ducting: Ø 50-63-80 mm.

Hotel La Cantueña
Commercial Central Vacuum Units:
1 x EVODUST DC160 Self-Cleaning Dust Separator.
2 x EVO Motor Group with Electronic Control 4.0 kW.
Central vacuum inlet valves: 65 pieces.
Simultaneous users: 4.
Ducting: Ø 50-63-80-100mm.