

## Strong Central Vacuum Cleaning System



**Extra powerful centralized vacuum cleaning system for building sites**

- Better performance and suction power
- Easy to use – low operating costs
- Various installation opportunities
- Easy to install and maintain
- Energy efficient
- Improves work site conditions and work efficiency

## Central Vacuum Cleaning system benefits in general

Strong has a long experience developing and manufacturing central vacuum systems designed especially for hard building and renovation sites. The wide experience and understanding of how to build an optimally working and optimally dust separating central vacuum system has made the Strong units the superior and most sold systems in Finland. Most used and liked models have been the Strong 11kW and 7,5kW systems, but by the latest developments Strong has brought out the Strong 7,5 FC – frequency changing system giving it extra power and suction pressure still with a 16A power connection.

- Can be used as any other common vacuum cleaner on a building site, with a whole lot more suction power. Suitable for all dry vacuuming work from grinding to common building site cleaning. Only one system to maintain instead of several common work site vacuum cleaners.
- Lowers the maintenance costs by having only 1 filter system to maintain as well as due low filter wearing.
- Can be used simultaneously on different floor levels or working area.
- As the central vacuum units are mostly located in a different space in a building site than the actual work area, the strong suction power forms negative pressure to work area helping avoiding dust to spread to unwanted areas.
- The system has multiple times more suction power when compared to common small vacuum cleaners
- Units located in a separate space lower the noise pollution in working area.

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## Ten reasons why Strong Central Vacuum Systems are the top of the field:

1. Energy efficient – Strong uses always the most advanced and high quality that give great air volumes and negative pressure on each motor category. The Strong 7,5-FC model is the most recent motor development type with lot of power, still with only 16A power connection.
2. Designed especially for hard use in building and renovation sites – The system motor is high quality and long lasting. Also the pre-separator and main filter units are built for rough use. All system parts and units are built especially building site demands in mind.
3. Light weighted units – The pre-separator, main filter and motor has been built as separate units making the moving, installation and transportation easier and lighter. One person can handle and move units. The small sized separate units also give an opportunity to install the system in much smaller space, for example under a stairway, than a common big sized system.
4. Versatile and easy applications – Can be used in both constructing new buildings as well as in renovation sites. Especially in renovation work sites the 7,5-FC engine type gives the best performance and most easy power connection with its 16A electric system. For its easy light moving abilities the suction units can easily be placed for example under 1<sup>st</sup> floor stairway, technical room, basement or in a outdoor application for example inside a small sea container.

5. Automatic filter cleaning - The Strong central vacuum systems use the most advanced and reliable automatic filter cleaning system. The automatic cleaning takes place with a vibration motor located in the main filter unit. The vibrating cleaning has been found out to be the most reliable, and with a specially designed tube main filter also best working filter cleaning mechanism in market. This is an outcome from long experience on the field. The automatic cleaning starts always after every use when the suction lid is closed in any floor level. The vibration lasts 5 minutes as a factory setting, but the time can easily be adjusted from the motor unit to fulfill a work site needs.
6. Optimally working cyclone pre-separation and filtering (F9+Hepa H13) – A well and optimally designed pre-separator is one of the key factors of creating a great central vacuum system. The pre-separator size, angle and suction points need to be designed to work together with a certain type and certain power level motors. The Strong pre-separator is the leading pre-separator for 7,5-11 kW motors on market. With a well working pre-separator design the main filters get much less affected by dust bringing the maintenance costs down, and giving far longer working periods. The main filter is designed for a super effective dust filtering. As in the pre-separator, also the main filter size and shape need to be fitted with the motor to make it work optimally. The main filter has a textile tube filter, class F9, as a main coarse filter, and 3 pieces of HEPA H13 cartridge filters for micro-filtering. The filtering level by DOP testing is approx. 99.997% of all particles. The Strong central vacuum system HEPA filters are part of the Strong Multi-filtering, so the same filters can be used also in the Strong4000 air-cleaner as well as in Strong S14 and Strong S28 vacuum cleaners.



7. Cost efficiency – A central vacuum system gives many cost effective solutions, both as a rented system or as a invested one:
  - 1). Only one vacuum units rental and maintenance (filters etc.) costs instead of several separate vacuum cleaners.
  - 2). Systems own dust controlling feature. The system creates negative pressure to the work area as the suction units are located in another space. This helps avoiding a dust to spread outside work area bringing the cleaning costs down.
  - 3). Centralized suction waste and dust collection in the main units. All suction waste is gathered in one place from all floor levels getting the maintenance dust collection cost effective. Using Longopac system the change of a dust bag is also super-fast and effective as well as dust-free.
  - 4). Exceptionally effective suction power makes the grinding, cleaning and other work phases lot more effective saving costs and making building work more cost effective.

8. Low noise level and noise pollution in building site – The central vacuum system use happens 95% of the time in a separate space than where the main units are located. Due to that there is no vacuum cleaner motor based noise pollution in the work area, as it would be with normal vacuum cleaners, making the worksite much more pleasant. Especially the Strong 7,5-FC system gives a huge amount of raw power with a small noise level. People can here almost normally each other talking even standing next to the motor unit while it is used. The motor units also have a hose connection, where the process air can be guided to outside or other suitable place, guiding also the noise at the same time if needed.
9. Wide working range and easy range adding – The normal working range on a floor level from a 50mm suction lid is approx. 20-30m So in normal use a 20 to 30m antistatic suction hose is recommended. With a light dust even a 40m hose is suitable. If the work range need to be added, a simple adding of a floor level light pre-separator doubles the work range. The diameter 76mm main suction line can be as high as needed in vertical direction, so especially the 7,5kW-FC and 11kW systems can be used as well as in a 3 floor building construction or 30 floor building construction.
10. Most powerful, versatile and optimally working central vacuum system on European market – When noticed all the benefits the Strong central vacuum system offers, high suction performance, low energy consumption, versatile installation and usage opportunities, optimal working design, high quality part and filters, is the Strong central vacuum system the utmost best building site vacuum cleaner in the market. The Strong central vacuum systems give new criteria to a building site dust controlling.

## TECHNICAL DATA

Strong system type:	7,5kW	7,5kW-FC	11kW
Motor weight (kg):	113	118	168
Connection (V):	3-400	3-400	3-400
Power connected (A):	14 (16)	14 (16)	21,2(32)
Air volume (m3/h):	650	780	1100
Negative pressure (mbar):	350	350	325
Coarse filter size (m2):	1,25	1,25	1,25
Filtering (F9 / %DOP)	98,89	98,89	98,89
HEPA filter size (m2):	3x1,1	3x1,1	3x1,1
Filtering (H13 / DOP):	99,9997	99,9997	99,9997
Dust collection:	Longopac	Longopac	Longopac
Standard color:	White	White	White
Custom modified color:	Colours chosen by customer ( <u>negotiated separately</u> )		
Hose connection:	Main line D. 76mm / suction hose D. 50mm		





*The system units can be produced in different colours after customer brand coloring*

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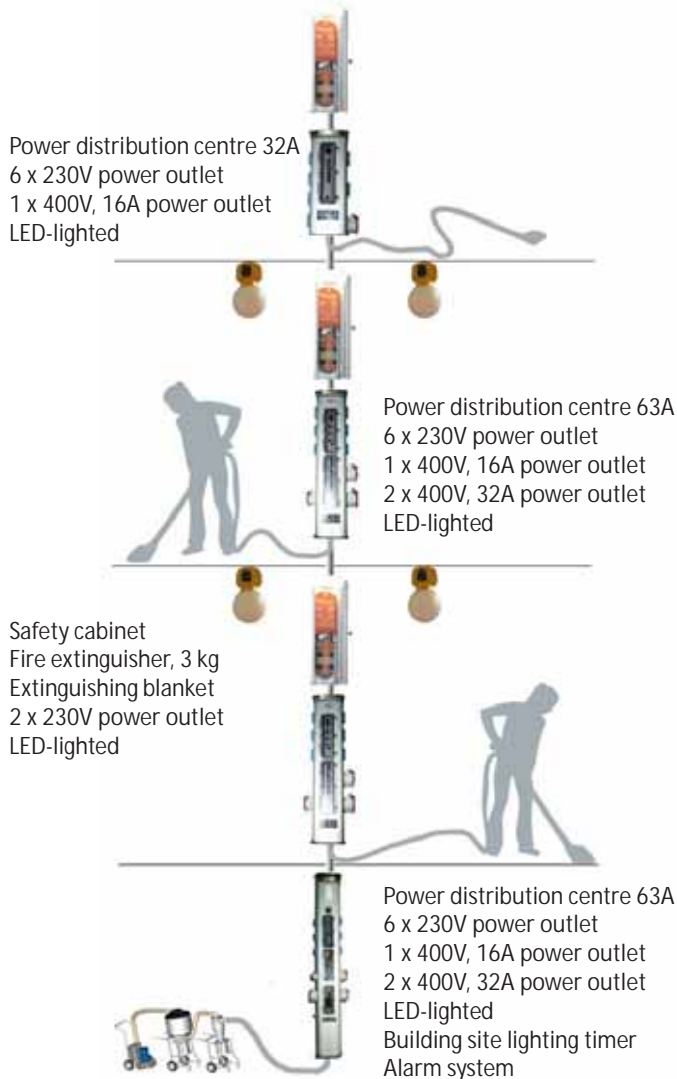
## ACCESSORY

### Powering Your building site with Strong Vacuum Cleaning System

The Strong Vacuum Cleaning System is the most versatile solution for building sites. The system can be added with **Power distribution centres** to each floor level for powering the whole building site. The benefit of ready made system are:

1. Fast and reliable connection
2. Economical purchase and installation - cables are installed together with vacuum cleaner main line hosing
3. Possibility to custom modify the power centres by customer needs.
4. Possibility to custom paint coloring of Power distribution centres.

*See more about the Strong building site powering from next page!*



## Power distribution with Strong central vacuum cleaning system

Most common Power distribution centre installation together with a Strong Central Vacuum Cleaning System includes normally:

- One 63A main power distribution centre in the first (lowest) floor level
- Normally one 32A power distribution centres on each upper floor levels or case by case a 63A upper floor power distribution centre.
- Safety cabinets on each floor level. Normally safety cabinets include equipment for fire extinguishing, but it can be equipped also with a first aid kit.

## Custom coloring with copmany colours

As well as the main units of the central vacuum system, also the Power distribution centres can be equipped and colored by customer needs. The custom painting adds more value for the customer and brings out the customer brand and coloring on each floor level. The customizing of the system is negotiated by separate terms. Please contact Your local sales company or Strong export sales.



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