



The BEAL filter containers shall be connected to a vacuum unit/power pack to complete a heavy duty vacuum system.

Filter Separator BEAL

The BEAL filter containers meet the high demands from the industry due to its efficiency, reliability, ease of operation and maintenance giving excellent value for money.

BEAL is a series of mobile filter separator units designed to handle large volumes of material, to be handled by ro-/ro vehicles and shall be connected to a vacuum unit to complete the system.

- Rigid design for industrial use
- Designed for high vacuum systems
- Filter system which can handle dry and wet material
- Large dust bins, options from 6 to 12 m³
- Large tail gate door for discharge of material
- Automatic filter cleaning without compressed air
- Several options for filters and other accessories
- No dust valves or other moving parts involved, securing high availability factor and low maintenance costs.

WHY BEAL

One of the most important problems to solve when planning a central cleaning system is the handling of the collected dust and material. In order not to create new problems with dust and heavy lifting work in the premises, the optimal solution is to integrate the handling into the company's existing handling system for waste. Normally this is carried out by the means of a container transport to the deposit place inside or outside of the works.

BEAL offers a totally closed system, also for the filter dust, and can be handled as a demountable body by a ro-/ro-vehicle with the most common container system on the market i.e. Multilift, HIAB or similar.

OPERATION

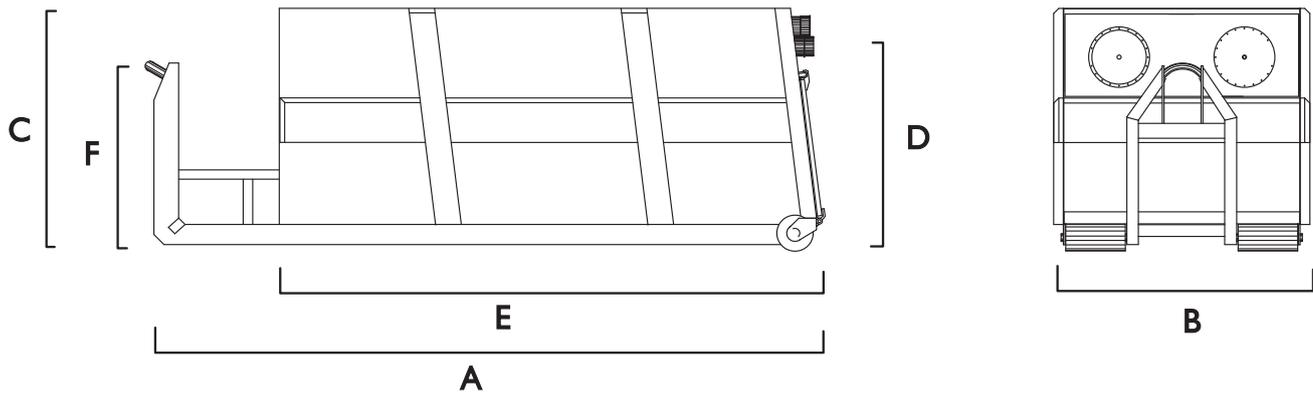
The vacuumed material is first separated in a specially designed fall chamber with a wear proof pre-separator inlet. In this section heavier particles will fall by gravity to the bottom of the container. From this section the air will be transported to the main filter section where any remaining fine dust will be separated. No specific foundation work is required, and the unit is easily moveable if space is required for any other purpose.

APPLICATIONS

For use in any industrial application where collection of dust is required i.e. to clean out; deep pits, trenches, bucket elevators, conveyor spills, overhead cranes and runaways, dust collectors, processing machines etc. The unit is especially suitable where bulky or sticky material shall be collected due to the convenient discharging

TYPICAL USERS

Manufacturers of Cement, Lime, Gypsum, Tiles, Ceramics, Chemicals, Plastics, Fertilizers and Alumina. Foundries, Steel mills, Quarries, Mines, Pulp- and Paper Industry, Incineration Plants, Thermo-electric Power Plants, Painting Contractors/Shipyards, Cleaning Contractors....



Filter Separator BEAL

MAIN FILTER

Filter compartment contains a cassette filter with flat filter bags, made of specially treated polyester needle felt.

Service of filter is easy from the clean air side on the outside of the unit.

CONTAINER

The material container (dust bin) is connected to the filter compartment, and the whole unit is designed for handling with ro-ro-vehicle.

It has a tightly welded construction with external strengthening, and is equipped with an inspection door as well as an extra large rear-emptying door with manual locking as standard. Hydraulic locking is available as optional equipment.

The inlet dust pipe of the container is designed as a gravity fall chamber pre-separator and is equipped with an anti wear device.

AUTOMATIC FILTER CLEANING

The unit is normally equipped with a vacuum controlled ATM (air-repulse) filter cleaning system. When activated, two large air inlets will ensure a fast backwards air direction through the filters, thus in an efficient way, knocking off dust collected on the filter surface. The frequency for this ATM function can be adjusted to suit

the type of dust to be vacuumed. It works also as a vacuum relief valve during start and stop of the vacuum system. The advantage with this system is reliable function at low cost and no need for compressed air.

The filters can also, as an option, be equipped with pneumatic JET-pulse filter cleaning. Controls for the filter is normally installed in the electric cabinet of the separately supplied PES vacuum power unit.

MISCELLANEOUS

| | |
|---------------|---|
| Filter class: | L, M IEC EN 60335-2-69 |
| Material: | Steel S 235 JG2 |
| Painting: | Surface treatment and painting according to system C2. Colour RAL 3003 red |
| Ro-ro frame: | SS 3021 |

OPTIONS

- Bin Level Control Paddle or Vibrator Type
- DP-Gauge incl. Ball Valve
- Extra Noise Insulating ATM
- Filter Cleaning/ATM-Repulse
- Filter Cleaning/JET-Pulse
- Separate Control Box, for ATM-filter cleaning

| Item/Model | | BEAL-15.8 | BEAL-15.10 | BEAL-15.12 | BEAL-23.7 | BEAL-23.9 | BEAL-23.11 |
|--------------------------------|---|-----------|------------|------------|-----------|-----------|------------|
| Dimensions, mm | A | 6270 | 6270 | 6270 | 6270 | 6270 | 6270 |
| | B | 2080 | 2080 | 2080 | 2080 | 2080 | 2080 |
| | C | 1880 | 1880 | 1880 | 1880 | 1880 | 1880 |
| | D | 1740 | 1740 | 1740 | 1740 | 1740 | 1740 |
| | E | 3590 | 4290 | 4990 | 3590 | 4290 | 4990 |
| | F | 1450 | 1450 | 1450 | 1450 | 1450 | 1450 |
| Weight, kg (excl. frame) | | 2390 | 2810 | 3150 | 2390 | 2810 | 3150 |
| Max Vacuum, mbar | | 500 | 500 | 500 | 500 | 500 | 500 |
| Filter Surface, m ² | | 15 | 15 | 15 | 23 | 23 | 23 |
| Dustbin Volume, m ³ | | 8 | 10 | 12 | 7 | 9 | 11 |
| Clean Air Connection, dia. mm | | 152 | 152 | 152 | 2x152 | 2x152 | 2x152 |
| Dust Inlet Connection, dia. mm | | 152 | 152 | 152 | 152 | 152 | 152 |
| Layout | | SD-10037 | SD-10038 | SD-10039 | SD-10037 | SD-10038 | SD-10039 |

We reserve the right to alter any specifications without prior notice

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