

AirBlast Vacuum Recovery System



SEBF-III

The Airblast SEBF-III suction units meet the high demands from the industry due to its efficiency, reliability, ease of operation and maintenance giving excellent value for money.

The SEBF units are a series of electrical powered vacuum units that are mounted in a solid metal frame with telescopic legs. Together with a fixed pipe network this is a perfect central vacuum unit for smaller industrial installations, but can also operate as a single suction unit using a 5" or 6" hose.

- Rigid design for industrial use
- Filter system which can handle dry and wet material
- Automatic filter cleaning without compressed air
- Several options for filters and other accessories
- Engine power ranging from 55 to 110 kW.
- Control panel placed in dust-tight enclosure.
- Optional discharge system for continuous discharge and enclosed handling.
- Telescopic legs adjustable in height to fit most dust receivers.

WHY SEBF-III

A fork lift is usually available in all industrial companies and there are often bins available for dust and waste inside or outside the works. The SEBF-III discharge system can easily be connected to most bins, legs or similar, which makes the SEBF-III the most suitable choice. The high suction capacity together with its flexible discharge system makes the unit very useful in most vacuum cleaning situations. Due to its flexibility the unit gets access to most areas where cleaning needs to be carried out without the use of a fixed pipe network, and is also suited for material that shall be recycled or enclosed in bags and similar.

OPERATION

Collected material in the filter unit compartment is emptied through either a mechanical bottom balance valve, or an optional pneumatic valve. A bin-level control can also be fitted. For discharging into a bag, hopper or other receiver, the legs of the unit are adjustable in height 1 m to allow placing a receiving bin under the discharge valve. The units are equipped with a safety valve that through spring release opens at the max. vacuum. Unloading valves are mounted between the main filter system and the vacuum unit. The vacuum will immediately be equalised when the valves are opened and at the same the main filters will be cleaned. This will also prevent counter-rotation of the engine. The unloading valves will always automatically open at stop and start. They will also be activated by safety control functions. All functions are controlled from the control panel and control LED:s and gauges will indicate the units operational status. The unit is handled by a fork lift, skip lorry or with a crane.

APPLICATIONS

For general cleaning and bulk suction in any industrial application where high capacity is required together with flexibility, mobility, reliability and low noise level.

TYPICAL USERS

Manufacturers of Cement, Lime, Gypsum, Tiles, Concrete, Chemicals, Plastics, Fertilizer and Alumina. Foundries, Steel mills, Pulp-and Paper Industry, Quarries, Bakeries, Work Shops, Contractors, Shipyards...



To increase the pick-up capacity of the SEBF-III units they can work in conjunction with pre-separators i.e. vacuum skips.

DUST BIN

Type: Conical hopper
Bin Volume: 1 m³ bin volume
Bottom flange: 200 -350 mm
Discharge valve: Balanced flap valve as standard other upon request

MISCELLANEOUS

Electrical Controls: 3-phase 400 V, 50Hz,
D-O-L starter with motor protective
switch, steel enclosure IP 65 with gauge.
Dust emission: < 10 mg/Nm³
Material: SIS steel 1312
Hose connection: Ø203 mm
Painting: System M 2, RAL 5007, blue

OPTIONS

- Other voltage upon request
- Jet-pulse filtercleaning
- Aut.Star-/Delta-Starter
- Binlevel alarm
- Sluice discharging systems
- Big-bag adaption
- DP-alarm
- 800 mbar execution

VACUUM PUMP

The vacuum producer is a Roots-type vacuum pump, powered by an electrical motor and V-belt transmission. Pump and motor is mounted on a common steel structure machine frame which also is the exhaust silencer.

The vacuum pump is equipped with a spring loaded safety valve regulating the vacuum not to exceed its maximum operating range. Further there is a temperature switch for extra protection of the pump.

The drive motor is equipped with a motor protective switch.

The drive part is built into an insulated steel enclosure with silencers and safety filters to reduce noise level and fitted with service doors for access purposes.

FILTER SYSTEM

Filter compartment contains a cassette filter with flat filter bags, made of specially treated polyester needle felt. Service of filters is easy from the clean gas side from the outside of the unit.

The filter system is equipped with a vacuum controlled ATM (air-repulse) filter cleaning system. When activated, large air inlets will ensure a fast backwards air direction through the filters, thus in an efficient way knocking off collected dust from the filter surface.



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