

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

## SEBF-III Electrical

*The 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.*

Tella SEBF-Series are complete electrical vacuum units that are fitted on a solid metal frame with telescopic legs and powered by electric supply. Together with a fixed pipe network this is a perfect central vacuum unit but it can also operate as a single vacuum loader.

- 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.
- The control panel is placed in a dust-tight enclosure and controlling the status of the unit.
- 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 pneumatic bottom valve or a mechanical flap 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 time 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.

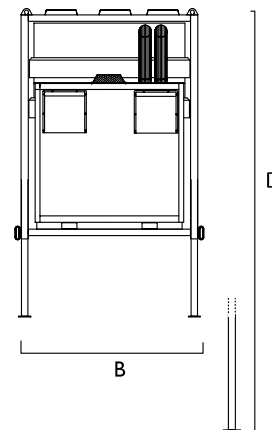
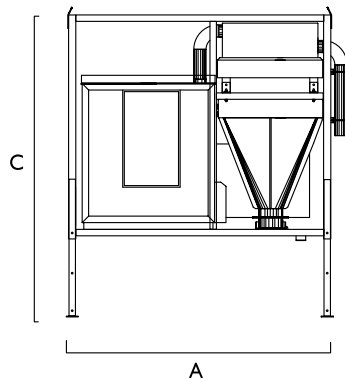
All functions are controlled at the control panel and control LED:s and gauges will indicate the units operational status. The unit is handled by a fork lift, skiplorry or with a crane.

### 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...



## VACUUM PUMP

The vacuum producer is a Roots-type vacuum pump, with its electrical drive motor with V-belt transmission and they are placed on a steel structured machine frame. 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 on 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.

## DUST BIN

Type: Conical hopper  
Bin Volume: 1 m<sup>3</sup> bin volume  
Bottom flange: 250 –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/Nm<sup>3</sup>  
Material: SIS steel 1312  
Painting: System M2, RAL 5007 blue.

## OPTIONS

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

Item \ Model		SEBF -III/55	SEBF -III/75	SEBF -III/90	SEBF -III/110
Dimensions, mm	A	3270	3270	3270	3270
(all dim. excl. frame)	B	2200	2200	2200	2200
	C	2830	2830	2830	2830
	D	3830	3830	3830	3830
Weight, kg (approx.)		4450	4600	4850	5100
Max. Vacuum, mbar		500	500	500	500
Air Volume, m <sup>3</sup> /h (at 100 mbar)		3100	4400	5300	6000
Electrical Motor, kW		55	75	90	110
Voltage Frequency, V/Hz		400 / 50	400 / 50	400 / 50	400 / 50
Main Filter Surface		30	30	30	30
Safety Filter Surface, m <sup>2</sup>			20	20	20
20 Noise Level, dB(A) (at 5 m distance)		70	71	72	74
Hose Pipe Connection, dia. mm		203	203	203	203

We reserve the right to alter any specifications without prior notice

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