



To increase the pick-up capacity of the SDBF-45 units they can work in conjunction with pre-separators i.e. vacuum skips

## SDBF-45 Diesel

*The SDBF-45 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 SDBF-Series are complete diesel vacuum units that are fitted on a solid metal frame with telescopic adjustable legs. Together with a fixed pipe network this is a perfect central vacuum unit but it can also operate as a single vacuum loader with an up to 5" 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
- Optional discharge system for continuous discharge and enclosed handling
- Telescopic legs adjustable in height to fit most dust receivers
- Low noise execution (-LN)

### WHY SDBF-45

More and more applications require a fast and safe handling of dust that has to be taken care of. The SDBF-45 discharge system can be easily connected to most receiving bins, bags or similar and when using a pre-separator, i.e. vacuum skip, the capacity is increased to handle most jobs due to its flexible handling. The unit is also suited for material that shall be recycled, for vacuum tasks where no pipe network is available due to its access into narrow buildings.

In addition high suction capacity using Roots-type blower and low noise level makes the SDBF-45 the perfect choice.

### 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.

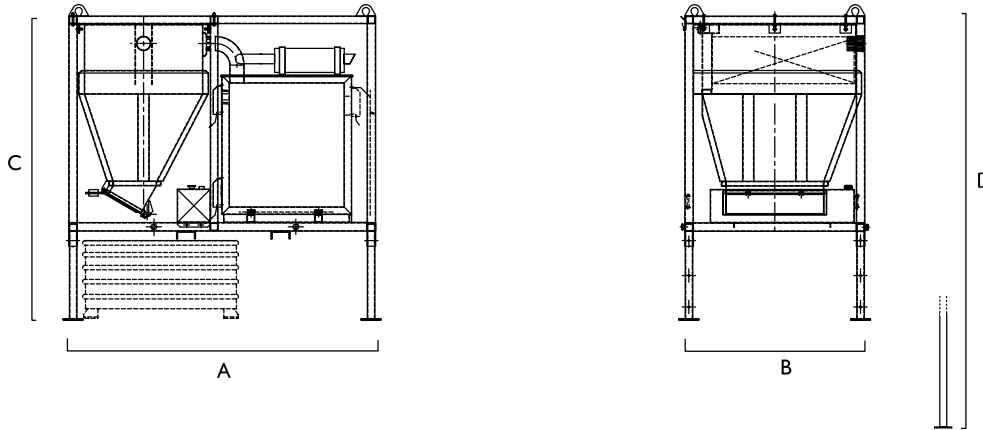
All functions are controlled at the control panel and control LED:s and gauges will indicate the units operational status. The unit is handled by a fork lift, skiplorry or with a crane.

### 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, Mines, Quarries, Contractors, Shipyards...



## VACUUM PUMP

The vacuum producer is of Aerzener Roots pump type, driven via V-belt transmission by a air-cooled Deutz diesel engine. Pump and engine are mounted on same steel structure, which also acts as the exhaust air silencer. The vacuum pump is equipped with a spring-loaded safety valve, regulating the vacuum not to exceed its maximum operating range. For extra protection of the vacuum pump, a high temperature sensor and a safety filter are installed.

For service, the unit is fitted with large access doors on both sides.

## FILTER SYSTEM

The main 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 and from outside of the unit.

The filter system is equipped with a vacuum controlled ATM (air-repulse) filter cleaning system. When activated, a large air inlet 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: 1,8 m<sup>3</sup>

Discharge valve: 250 mm, manual operated flap valve

## CONTROLS - SAFETY FUNCTIONS

All functions are automatically controlled from the control panel, and accessible from outside the unit.

### Engine Automatic Shut-down:

- Oil pressure too low
- Engine temperature too high

### Automatic Vacuum Relief Valves Opens:

- Exhaust air temperature from vacuum pump too high
- At alarm from bin-level control (opt)
- At alarm from DP-switch filters (opt)

## MISCELLANEOUS

Electrical System: 12 V DC, battery and charger.

Diesel Tank Volume: 80 l

Dust emission: < 5 mg/Nm<sup>3</sup>

Material: SIS steel 1312

Painting: System M2, RAL 5007 blue

## OPTIONS

- Hydraulically operated discharge bottom valve
- Hopper bin level control
- Dp-control filters
- Customer painting specification
- Radio Remote Control
- Big-bag discharge
- 800 mbar execution

Item \ Model		SDBF-45 -LN	SDBF-45
Dimensions, mm	A	3270	3270
(all dim. excl. frame)	B	2200	2200
	C	2830	2830
	D	3830	3830
Weight, kg (approx.)		3500	3500
Max. Vacuum, mbar		500	500
Air Volume, m <sup>3</sup> /h (at 100 mbar)		1900	2400
Power Consumption, kW		30	44
Engine Emission EU/EG 9768		Yes	Yes
Main Filter Surface, m <sup>2</sup>		15	15
Safety Filter Surface m <sup>2</sup>		10	10
Noise Level, dB(A) (at 5 m distance)		80	85

We reserve the right to alter any specifications without prior notice

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