

## DISAB Industrial Cleaning Machines



### Suction unit DISAB BagVac™

*BagVac is an electrical powered suction unit mounted onto a rigid stand equipped with retractable legs. The unit is designed for both mobile use and fixed installations and also for collection of material into Big-Bag.*

BagVac is an electrical powered suction unit mounted on a rigid stand equipped with retractable legs. With this type of legs its easy to adjust the discharge outlet height, to fit any size of big-bag used. The unit is in most applications used as a free standing suction unit with the connection of a 3" or 4" hose.

However the unit is also suitable for fixed installations, connected to a fixed installed pipe system with multiple suction outlets.

#### WHY BagVac

- Robust unit for temporary mobile use
- Automatically big-bag filling of collected material
- Power alternatives 12,5 or 16,5 kW
- CEE power intake for 32 or 63 A respectively
- Filter system for dry and moist material
- Automatically ATM filter cleaning system, without compressed air
- Complete start/stop and controls system
- Retractable legs for easy adjustment to various big-bags
- Various options of safety filters

#### OPTIMAL SOLUTION

The unit is easily manoeuvred using a standard forklift truck or crane. As the unit is designed and equipped with outlet for big-bag collection, it is also frequently used for material that shall be recycled or needs to be packed into bags. .

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 BagVac unit gets access to most areas where cleaning needs to be carried out without the use of fixed pipe network

#### OPERATION

The vacuumed material is first separated in a special designed fall chamber hopper with inlet wear protection. In this section all heavier or larger material will by gravity fall into the bottom of the hopper. From this section the air stream will continue to the main filter system, where the remaining fine airborne dust will be separated. Collected material from both the above sections is commonly collected in the conical hopper in the unit.

Discharge of material is made via the automatically operated balance valve at the bottom of the hopper. Discharge is executed parallel to each filter cleaning sequence, which normally takes place each 30 minute.

Cleaning of filters is automatically and executed by a filter cleaning valve (ATM) located between the filter and the vacuum pump. When this valve is activated and opens up, a counter flow of air is sucked in backwards trough the filter bags, thus cleaning all filter bags simultaneously in a very short period. There after the valve is closed again. Cleaning intervals are normally each 30 minutes, and lasting for only app. 20 seconds after which full vacuum is restored. This valve also ensures that when the unit is started it starts unloaded, and vacuum load is introduced app. 10 seconds after Star/Delta sequence is ended.

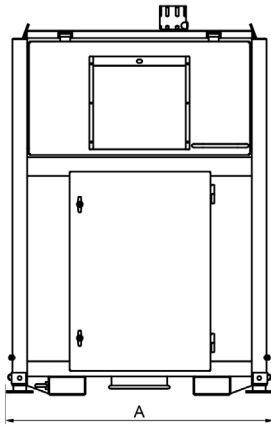
All functions for the operation of the unit is controlled from the built in electrical panel.

#### TYPICAL APPLICATIONS

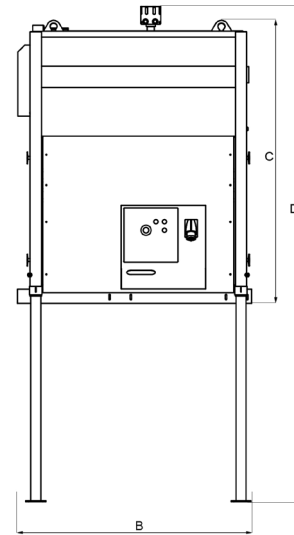
BagVac is in first hand designed for temporary vacuum/ cleaning needs, where the vacuumed material shall be collected in big-bags. At the same time the unit shall be robust, powerful and easy to transport at site. The unit is aimed for general cleaning, collection of spillages, of reuse of for example shot blasting abrasive in conjunction with surface treatment.

#### TYPICAL USERS

Shot blasting- and surface treatment industry, concrete- and cement industry, chemical industry, steel- and aluminium works, paper- and pulp industry, sawmills, wood pellets, plastic industry, bakeries, incineration- and power plants, etc



Transport



Operation

## Suction unit DISAB BagVac™

### VACUUM PUMP

The vacuum producer is a turbo pump of side channel blower type, with direct coupled motor. Pump and motor is mounted on an anti-vibration support and to the steel structure of the unit. Vacuum pump is equipped with a spring loaded safety vacuum valve, preventing the unit not to exceed its maximum operating vacuum level.

Inlet- and outlet silencers secures low noise operation.

### FILTER SYSTEM

The filter compartment contains a cassette filter with flat filter bags. Filters are made from special treated polyester needle felt. Service of filters is easy accessible from the clean gas side and from the outside of the unit.

The unit is equipped with a vacuum assisted ATM (air- repulse) filter cleaning system. When activated, a large air inlet will ensure a fast backwards air direction through all the filter bags simultaneously, thus in an efficient way knocking off collected dust from the filter surfaces.

Filter Surface: 10 m<sup>2</sup>

### DUST BIN

Type: Conical hopper

Hopper volume: 0,5 m<sup>3</sup>

Bottom valve: 250 mm, dust tight balance valve, Big-Bag

Discharge: Automatically, at filter cleaning

### MISCELLANEOUS

Filter class: L.M. IEC EN 60335.2-69

Electrical: IP 65, 3x400V 50Hz. incl. Star/Delta-start, motor overload, vacuum meter

Dust inlet: 108 mm

Steel: S 235 JG2

Painting: Class C 2 , colour RAL 3003 red

### OPTIONS

- DP-Gauge with Ball Valve
- Level Control; Paddle or Vibrating type
- Line (Circuit) Breaker
- Pre Designed for Remote Control 24 V
- Radio Remote Control (CE, Carrier vave interr.)
- Timer Auto Stop
- Control Filter 10 m<sup>2</sup>
- DP-Switch
- ATEX max ST1 Execution

Item/Model		BagVac-125	BagVac-165
Dimensions, mm	A	1430	1430
	B	1650	1650
	C	1990	1990
	D	3480	3480
Weight, kg (empty)		1030	1130
Max Vacuum, mbar		290	400
Max. Air Volume m <sup>3</sup> /h (unloaded)		1100	1100
Electrical Motor, kW		12,5	16,5
Voltage Frequency, V/Hz		400/50	400/50
Filter surface, m <sup>2</sup>		10	10
Noise Level dB(A) (at 1 m/5 m distance)		75/70	75/70
Dimension dustinlet, dia mm		108	108
Layout drawing		SD-10043	SD-10043

We reserve the right to alter any design of the unit without prior notice.

#### Manufacturer:

**DISAB-TELLA AB**  
Cedersdalsvägen 1  
SE-186 40 Vallentuna  
Sweden

Tel: +46 (0) 8 514 505 70  
Fax: +46 (0) 8 511 754 66  
E-mail: industrial@disab.com  
www.disab.com

#### Distributor: