

DISAB

THE POWER OF VACUUM

CLEAN 130

DISAB
VACUUM TECHNOLOGY

AREA CLEANER
WATERFREE CLEANING



DISA-CLEAN 130

Usage

Dry and dust-free high-vacuum cleaning street & area sweeper. Developed to help meet EU environmental requirements to reduce hazardous PM_{10} and $PM_{2.5}$ particulate matter in cities and industries. Awarded highest 4-star PM-Certificate by EUnited Municipal Equipment.

DISA-CLEAN vacuum sweeper combines sweeping and high-powered vacuuming in a single-operation without the use of water.

Characteristics

DISA-CLEAN operates without water and removes virtually all PM-material, while dispersing no dust into the air. DISA-CLEAN offers superior dust-control. It will not blow particles back out in the air again, as the air is filtered through a unique and efficient 4-step separation and filtering process. Another reason for the superior dust-control when operating a DISA-CLEAN, is the vacuum-evacuated encapsulated brushes in combination with unique vacuum nozzle that removes dirt and even the finest material from the surface.

The high-performance vacuum pump forces the airflow through the container and filters at maximum capacity and efficiency during the entire operation. The result of this provides DISA-CLEAN with the uniquely high capacity and operational speed, even when the surface is dirty and wet.

Benefits

Using DISA-CLEAN to vacuum sweeping without water brings several advantages and improved results:

- Certified and superior when it comes to removing PM_{10} and $PM_{2.5}$ particulates.
- With superior high-vacuum (-0.45 bar) and high suction force (1,600 kg), much less dust and particles are left on ground and in asphalt cavities.
- No hazardous particles are passing through the system and emitted back into the air due to unique 4-step PM_{10} and $PM_{2.5}$ separation system.
- Brushes are virtually dust-free thanks to rubber protection and vacuum evacuation.
- Saves valuable water resources as no water is used for dust suppression.
- No dust and hazardous particles will be flushed into water drains and further.
- Operational below $0^{\circ}C$ as no water is used – sweeping also possible during wintertime.
- Operational in both dry and wet conditions with brushes and high-vacuum suction.
- Operational speed up to 20 km/h with a 2 500 mm wide nozzle provides superior productivity up to 50,000 m^2/h .

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Technical Specifications: DISA-CLEAN 130

Touchscreen CanBus control system provides:

- Ease of operation using a 12" touchscreen (buttons are available too).
- Ease of use and clear graphical images
- Preprogrammed settings
- Control of sweeping gear and vacuum nozzle.
- Displaying auxiliary engine, vacuum pump, filter status etc.
- Control of the hydraulic.



Model

Truck chassis	Volvo FE 250, 4x2 (alt. FM)
Engine	Euro6, 185 kW (246kW)
Wheel base	4.30 m (4.6)
Rear axle	13 ton
Front axle	7.1 ton
Gearbox	Allison automatic (I-shift 12-gear)

Auxiliary engine for high-vacuum pump

Model	Turbo, 4-cylindrig (Stage III B or IV)
Output	160 kW
Vacuum capacity	400 mbar
Vacuum power	up to 1,600 kg
Air flow	upp till 8,000 m³/h

Vacuum nozzle and sweeping gear (brushes)

Main brushes and vacuum nozzles	2,500 mm width
Optional: side brush left and right	+300 mm each when deployed
Total swept width	3,100 mm
Function	Hydraulic & pneumatic
Operational speed	up to 20 km/h (15 km/h with brushes)
Pay-load volume	approx. 5 m³

Air control system

Main filters	Klass PM _{2,5} PE Teflon
Safety filters	Klass PM _{2,5} PE

Specifications may be changed without prior notice..



Due to the fact that the operation takes place completely without water, no contaminants are flushed out into the stormwater system and no contaminated sludge with the fine-grained dust remains on the road surface.

An easy-to-use
touchscreen control
system allows the operator
to focus on the road and
safety.