E-PAK 500 DX

Compact high vacuum unit suitable for combustible dust

E-PAK 500 DX is the ideal solution for the extraction of combustible and non-combustible materials, such as sanding and grinding dust. Also suitable for cleaning of the workplace and the shop floor. The E-PAK 500 DX is a powerful vacuum unit and can serve up to six extraction points, all in use at the same time. It minimizes the risk of explosion, maximizes your production up-time and gives significant cost savings. Power control can be obtained by fitting automatic vacuum valves to the extraction points. The valves provide suction power when an operation starts. When the work stops and all the valves have closed again, the E-PAK 500 DX unit will stop. Automatic vacuum valves offer substantial energy savings and make a small unit manage the job otherwise requiring a large unit. Using automatic valves multiplies the number of working points that can be served, by three to four times.

Low installation costs:
• Unit complete equipped with starter and control unit.
• No setting required at installation.

Low running and maintenance costs:
• Long life filters: up to 6000 hours with dust extraction.
• Efficient automatic filter cleaning method.
• Direct driven fan with lifetime-lubricated bearings.
• Automatic start/stop as option.

Wide range of applications:
• Can be used for grinding dusts, general floor cleaning and machine cleaning.

Low noise level:
• Fan mounted in acoustic enclosure

Built in safety functions:
• Built in Emergency stop switch.
• Monitored control filter to detect main filter failure.
• Monitored relief panel. Vents the explosion to a safe area and stops the unit.

ATEX Directive
E-PAK 500 DX is designed to extract combustible and non combustible dust, but the unit “as a whole” is not to be placed in an area that is classified as a zone according to directive 1999/92/EC. It is only the inside of the filter that meets ATEX requirements.
E-PAK 500 DX may be used with duct systems internally classified as zone 20, 21 or 22.
The product has no EX marking since there is no internal ignition source. The inside is to be considered a simple filter/silo and does not fall under the scope of the directive 2014/34/EC.

Permitted materials
It is of outmost importance to know the properties of the extracted material. The E-PAK DX is intended to be a part of an extraction system collecting material with the following properties:

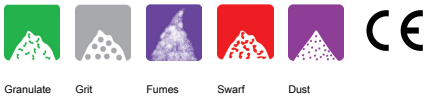
E-PAK 500 DX

- Dust explosion class: St1 and St2
- Pmax: ≤10 bar
- MIE (Minimum Ignition Energy) > 3 mJ
- MIT (Minimum Ignition Temperature) > 205 ºC

Materials with properties not given within the above stated values must be investigated prior to use with the E-PAK 500 DX. Contact Nederman for technical support and Dust application investigation.

- **Easy to install**
- **Low noise level**
- **Low running and maintenance costs**
- **Low noise level**

Product name	E-PAK 500 DX
Compressed air requirement	Dry and clean (Ø6 connection)
Installation	[Indoor]
Filter cleaning method	[ReverseAirPulse]
Application	[dust], [granulate], [grit], [fumes], [swarf]
Working pressure (kPa)	15
Max Airflow (m3/h)	860
Filter Area (m²)	3,4



E-PAK 500 DX

[image]	[model]
	E-PAK 500 DX Hybrid (special)

E-PAK 500 DX

[accessory]		[partno]
	Flanged pipe d100, 1m	40376521*
	Flange pipe d100, 0,5m	40376522**
	Flanged bend 90 degr. d100	40376523*
	Bend spiro BU 100mm 90dgr	40130820
	Grating spiro 100mm	40130220
	Silencer LT100 discharge	40139081
	Replacement plastic Bag 730x900, 20pcs, in conductive material for EX applications	40118800
	Replacement main filter for E-PAK DX with 16 antistatic filter socks.	40376777
	Replacement control filter HEPA E-Pak DX	40377065
	Flanged trans.pipe0,2m DN100 B-Flap	40376972
	Adapter flange/flange DN100 B-Flap	40376975

**Pressure resistant pipes and bends for installation between filter inlet and the isolation valve. An adapter is needed between the pipe ans isolation valve flanges. Fasteners and seals are included.*
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