



## Risinājumi darba vides gaisa attīrīšanā – lokālās gaisa nosūces un filtrēšanas sistēmas

**Nederman**

**Alintek**

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# Nederman filtru veidi

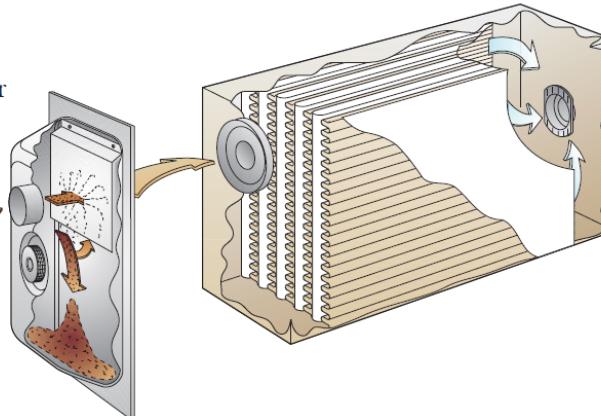
- Mobili / daļēji mobili
- Stacionāri
- Attīrāmi
- Maināmi
- Vidēja spiediena
- Augstspiediena (vakuumiekārtas)



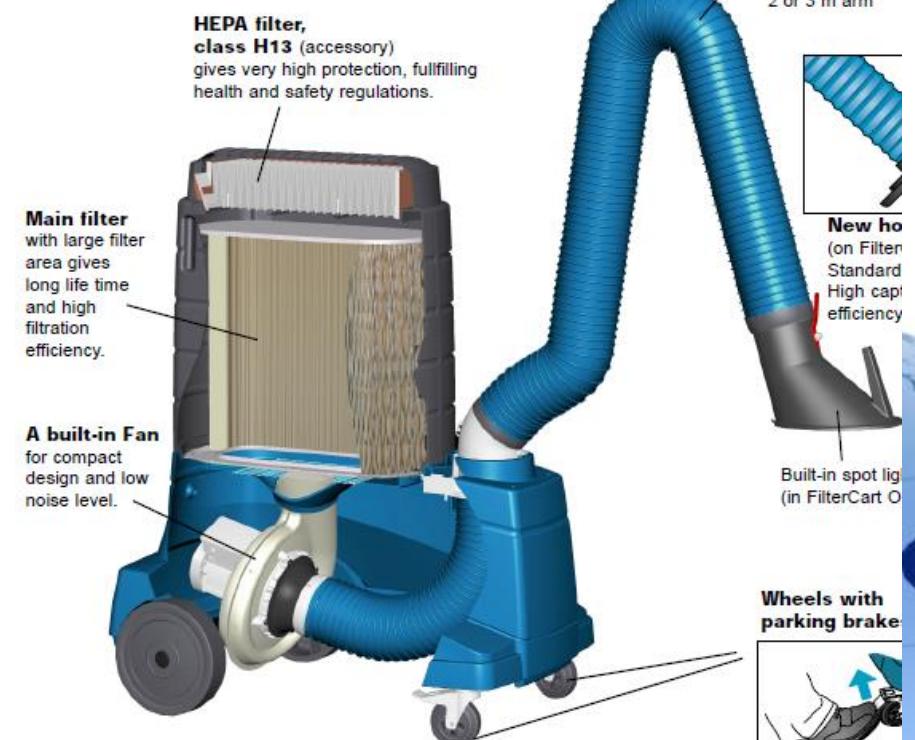
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The coarse separator captures the larger particles in the fumes and prevents sparks from reaching the filter. It is easily dismantled for cleaning.



The disposable filter cartridge is made from cellulose paper with rubber seals. The filtration surface is 5,2m<sup>2</sup> and has a filtration capacity corresponding to 200 kgs of welding wire.



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# Replacement filters

## Filter for FilterCart Original

Part no. 12374023

35 m<sup>2</sup> flame retardant cellulose material. ≥ 99% efficiency for welding fume \*.



## Filter for FilterCart Standard

Part no. 12374024

28 m<sup>2</sup> simple selfcontained particle filter. >97% efficiency for welding fume \*.

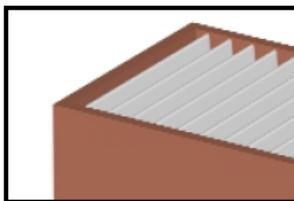


## HEPA filter H13 for

## FilterCart Original

Part no. 12374016

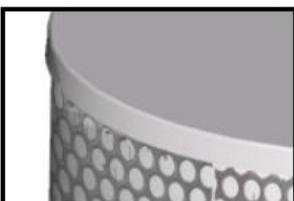
A high efficiency final filter, class H13.



## Filter for FilterCart Carbon

Part no. 12374025

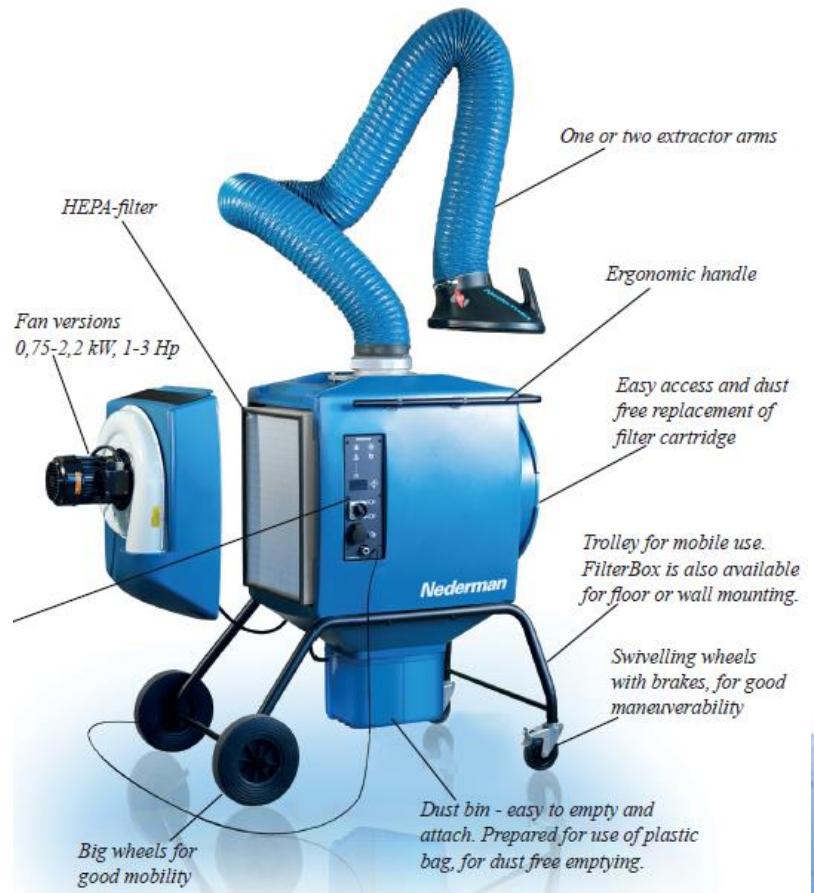
20 kg activated antracile carbon for general use.



*Easy, clean and dust-free replacement of filters*

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	Accessory	Part No
	Outlet with duct connection D=200mm	12376749
	Spotlight original, 24V, 20W	12376616*
	LED light/fan switch Original	10376922
	Spark protection for Original/NEX MD-hood	10551335
	Standard main filter for FilterBox	12332672
	High efficiency main filter for FilterBox, HE15	12371106
	Anti-static high efficiency main filter for FilterBox, HE15	12371412
	High efficiency HEPA secondary filter for FilterBox, HE15	12376615
	Bags for Filterbox dust bin, 10pcs	12376618
	Ultra high efficiency HEPA secondary filter for FilterBox, HE15	12376756
	Sensor clamp to be attached to the earth cable of the welding power source.	14372199

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The optional hood reduces the noise down to:  
62 dB(A) for L-PAK 150 and  
64 dB(A) for L-PAK 250.



All connections positioned in one place simplifies the installation.



The plastic bin liner is easy to change.



A filter indicator signals when service is needed.



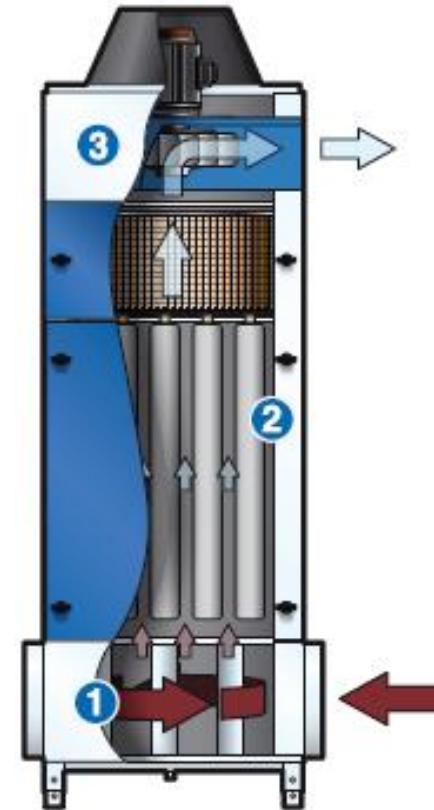
#### Technical Data

Model		L-PAK 150		L-PAK 250	
		50 Hz	60 Hz	50 Hz	60 Hz
Power	kW	3.0	3.5	5.5	6.3
Capacity free blowing	m <sup>3</sup> /h (cfm)	290 (171)	350 (206)	420 (247)	495 (291)
Capacity at -15 kPa / 60 in. W. G.	m <sup>3</sup> /h (cfm)	150 (88)	190 (112)	250 (147)	290 (171)
Maximum vacuum	kPa / in. W. G.	-22 / 88		-21 / 84	
Filter surface	m <sup>2</sup> / sq.ft.	1.1 / 11.8		1.6 / 17.2	
Filter life (expected)	h	5000		5000	
Noise level ISO	dB(A)	72		74	
Noise level ISO with silencer hood	dB(A)	62		64	
Weight	kg / lb	110 / 243		140 / 309	

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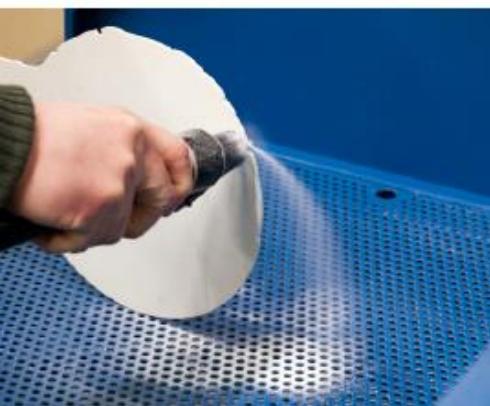


By removing oil mist at source it will be prevented from settling on sensitive electronics or other surfaces in the workshop, disrupting production and creating hazards.



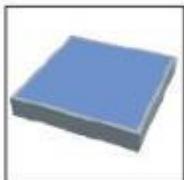
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### Pre-filter

G4 pleated filter for efficient pre/primary filtration.



### HEPA filter H13

To remove submicronic particulate with an efficiency of up to 99.9 %.



### Carbon filters system (8 pcs.)

(instead of HEPA-filter) with Colourcell that changes colour with a change of carbon activity. Odour reduction, removal of solvent fume or VOCs, etc.



### Fan

500 W high power backward curve centrifugal fan (230 V / 50/60 Hz / 1 ph).



### Castors

Swivel and brake.



### Filter Gauges

0-500 Pa gauge (pre-filter) and 0-1000 Pa (HEPA filter) complete with "filter full" indicators.



### On/off push button

With "power on" light.



### Warning light

Motor fault indicator.



### Inverter

Variable frequency drive control to regulate the operating speed of the fan (located behind electrical panel).



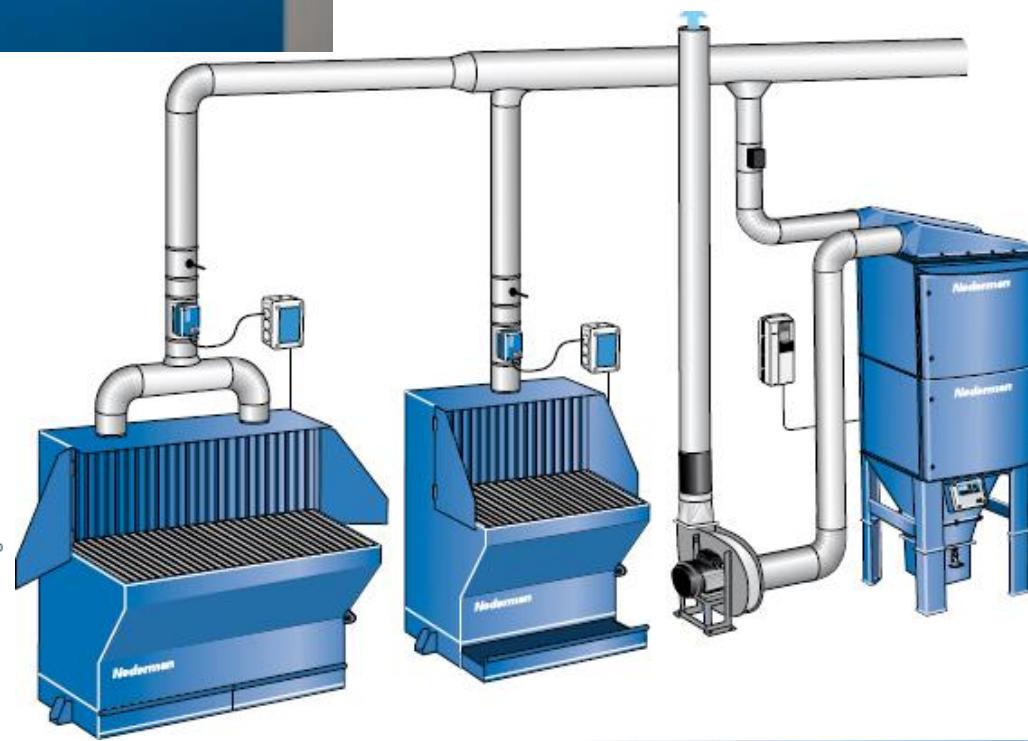
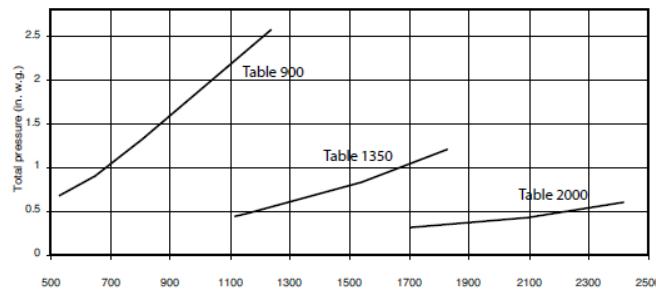
### Filter Clamp Mechanism

Spring loaded roller bearing filter clamp mechanism with tubular handles for securing filter(s).

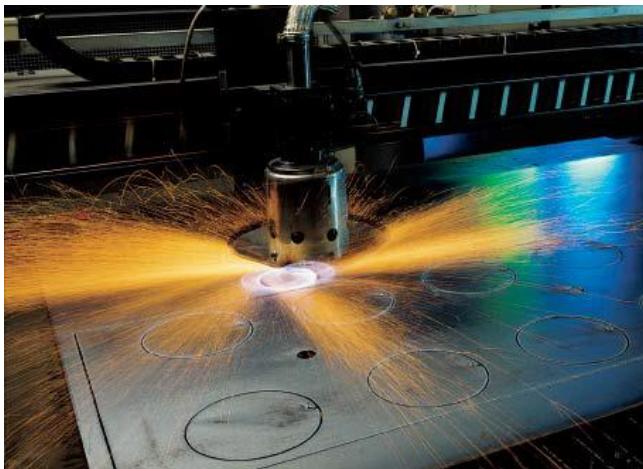
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## Pressure drop



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## EXTRACTOR ARMS

## CAPTURE AT SOURCE



NEX D



NEX DX



NEX S



Original White



5000



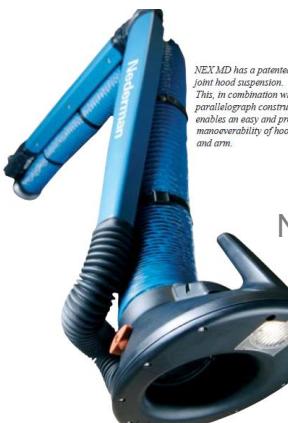
Telescopic



Original



Standard



NEX MD



NEX HD

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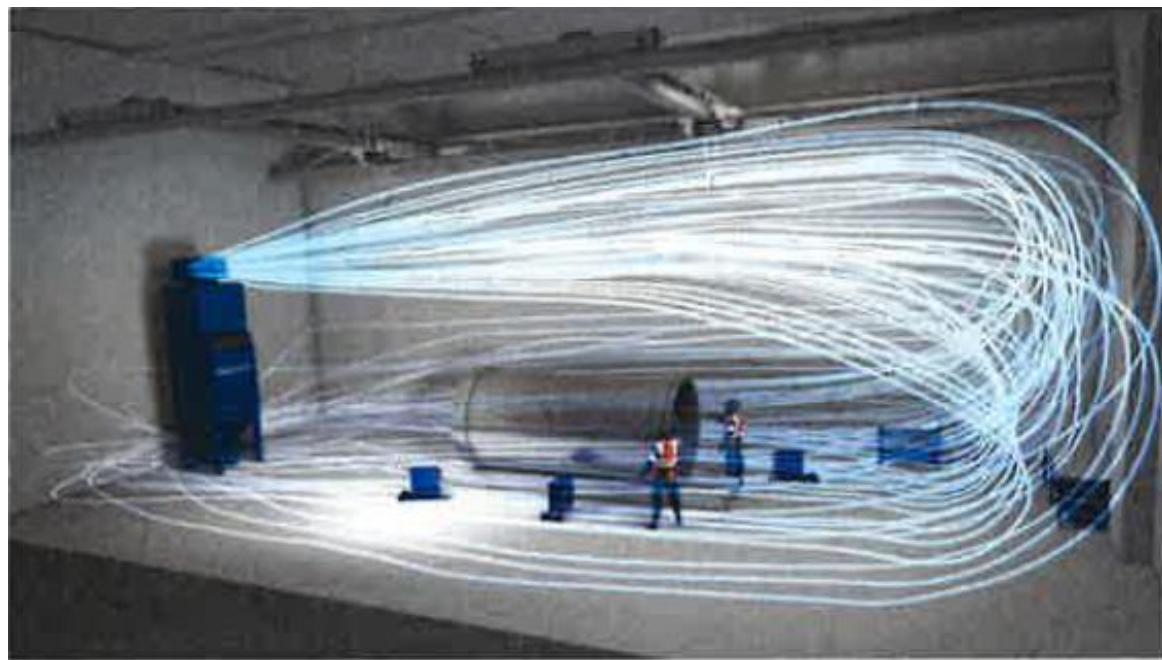
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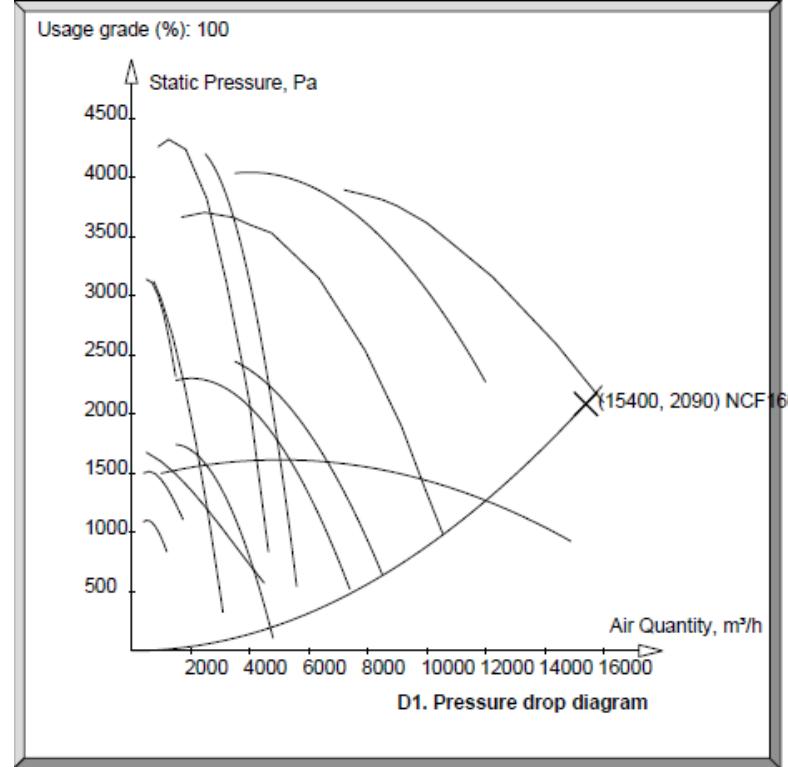
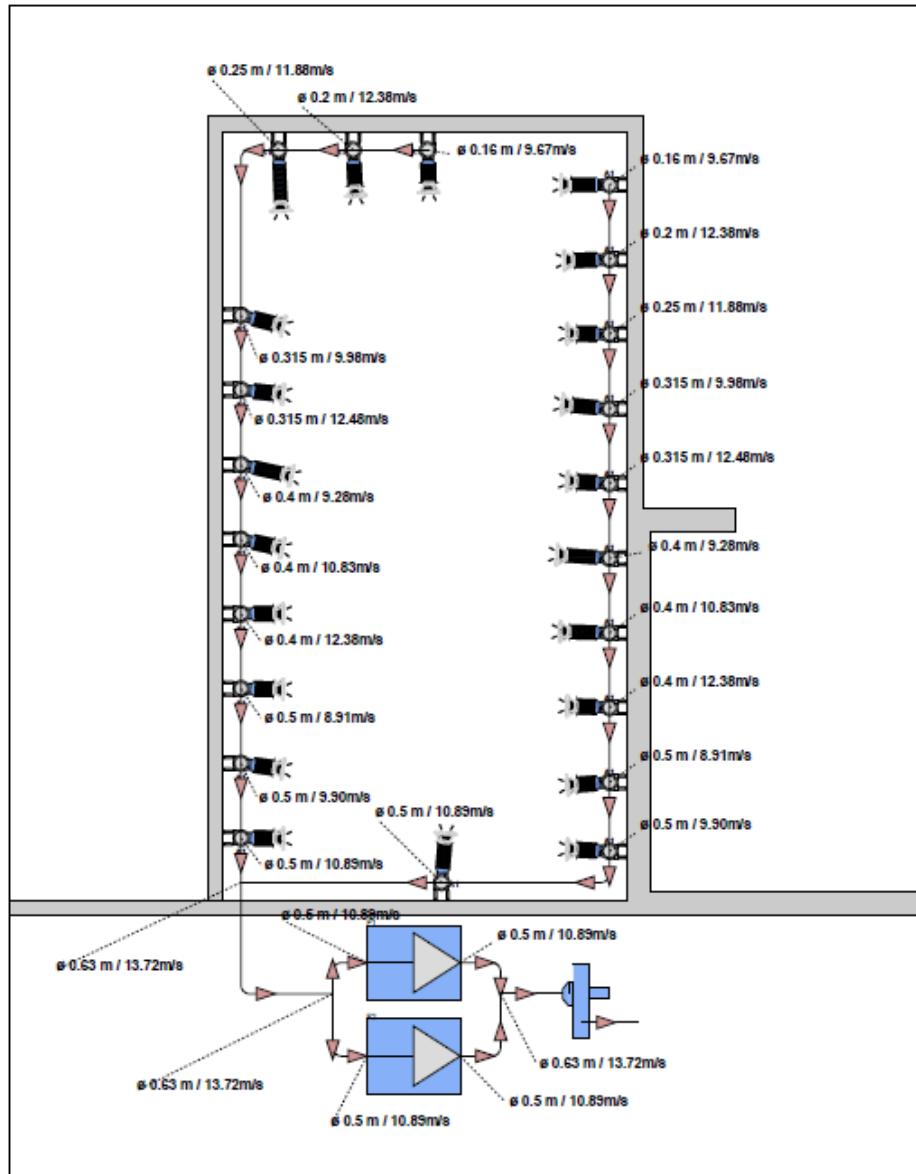


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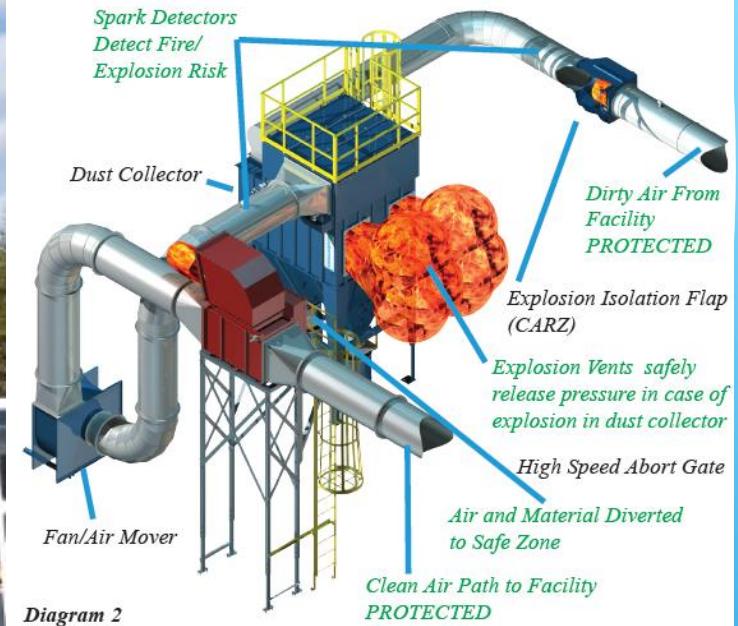
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## Material List

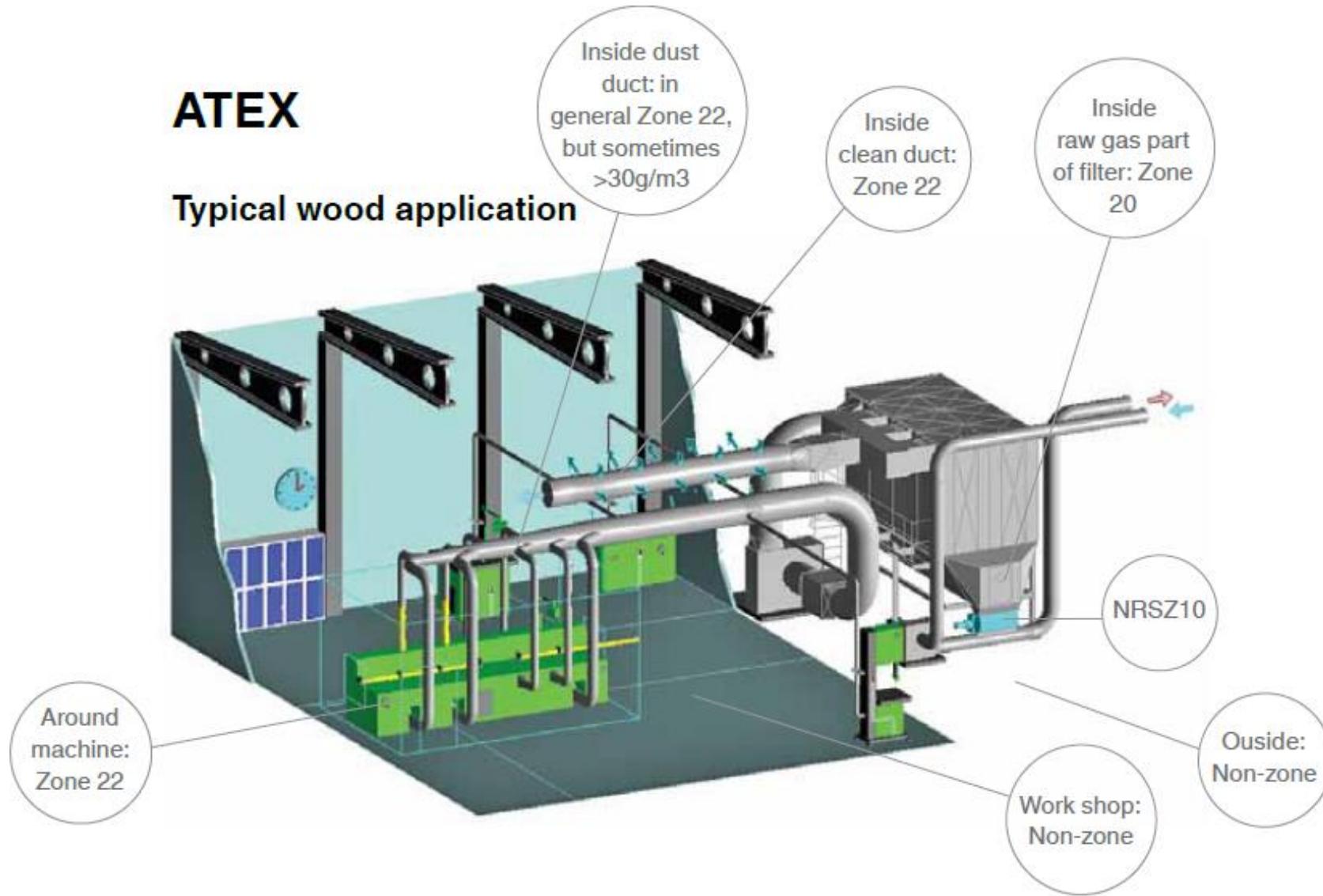
Article	Description	Quantity
Fume Extractors	Fume Extractor arm Telescopic. L=0,87-1,57m. Metal hood without damper.	22 pc
10500531		
Fume Extractor Accessories	Wall Bracket	22 pc
10504035		
10507435	Spot light for Fume Extractor Telescopic. 24V, 20W. With two switches and cable.	22 pc
Fans		
14503228	Fan NCF 160/25, 230/400V, 50Hz, 18,5kW, RD D	1 pc
Fan Accessories		
14371432	Inlet adapter $\varnothing 400$ mm, for fan NCF 80/15, 80/25, 120/25 and 160/25.	1 pc
14371439	Outlet adapter 250/500 - $\varnothing 400$ mm, for fan NCF 120/25 and 160/25.	1 pc
14500591	MDA 160. Motor damper automatic $\varnothing 160$ mm, incl. sensor, 1-phase 50/60Hz, 110-120/220-240V.	22 pc
14502126	Transformer 24V/20W for one light pack.	
	Exhaust Silencer for Original/Telescopic Arms.	
Electrical Accessories		
14372075	Main switch / maintenance switch for Fan Inverter 3 pole, EMC, max 15kW.	2 pc
14372077	Fan timer 24V AC/DC.	1 pc
14515137	Fan Inverter 18,5	1 pc



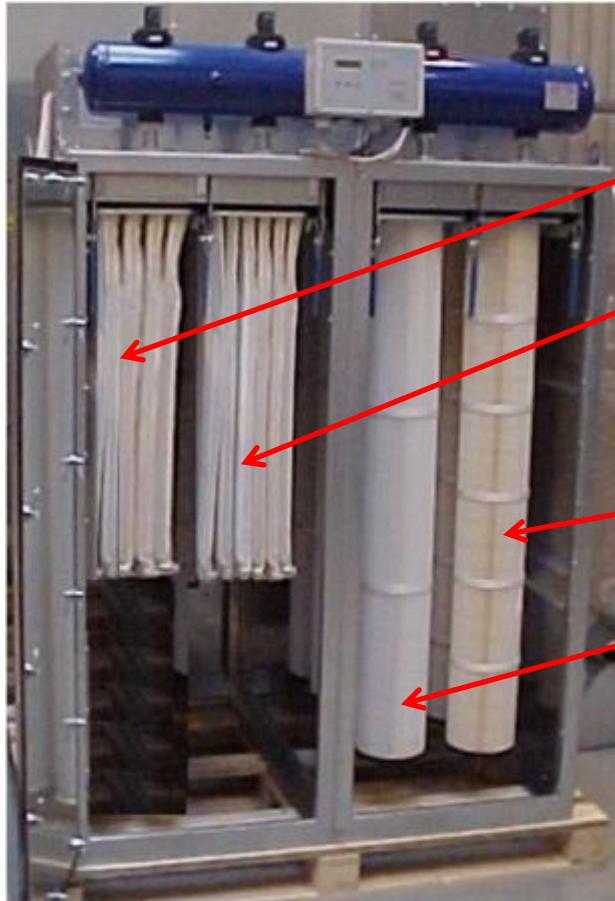
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# ATEX

## Typical wood application



Nederman can supply ATEX compliant components such as filter units and fans; ATEX



FMK25 – 2E/4      15 m<sup>2</sup>  
FMK25 – 2E/6      22 m<sup>2</sup>  
  
FMC200 – 4A  
  
CA175                  232 m<sup>2</sup>  
CA100                  106 m<sup>2</sup>





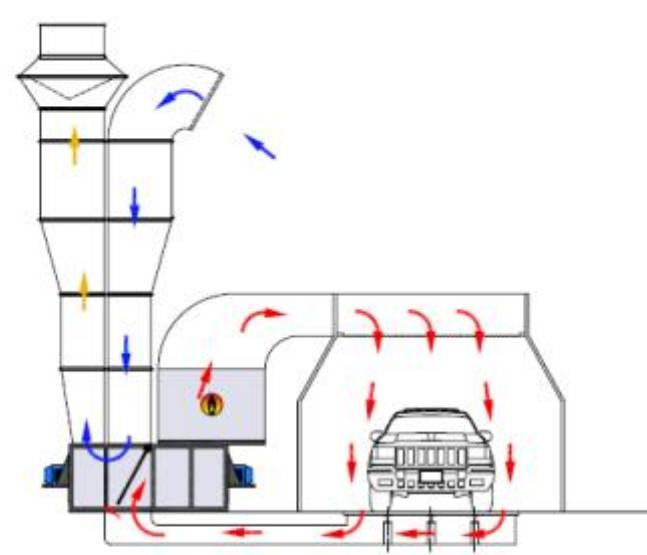
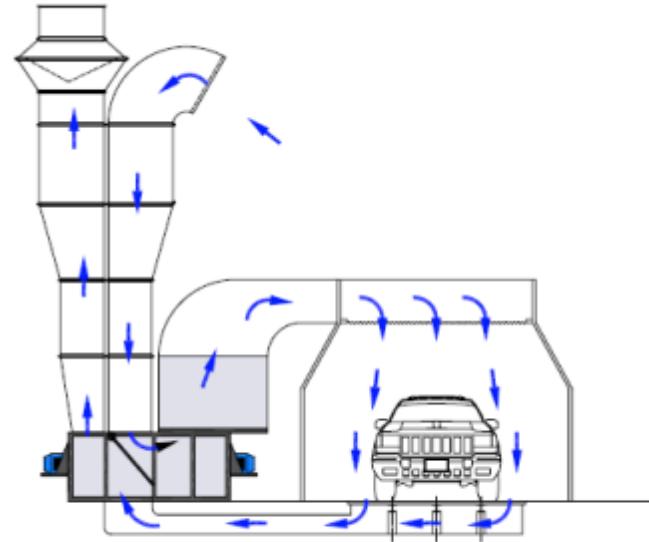
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# Vakumsistēmas



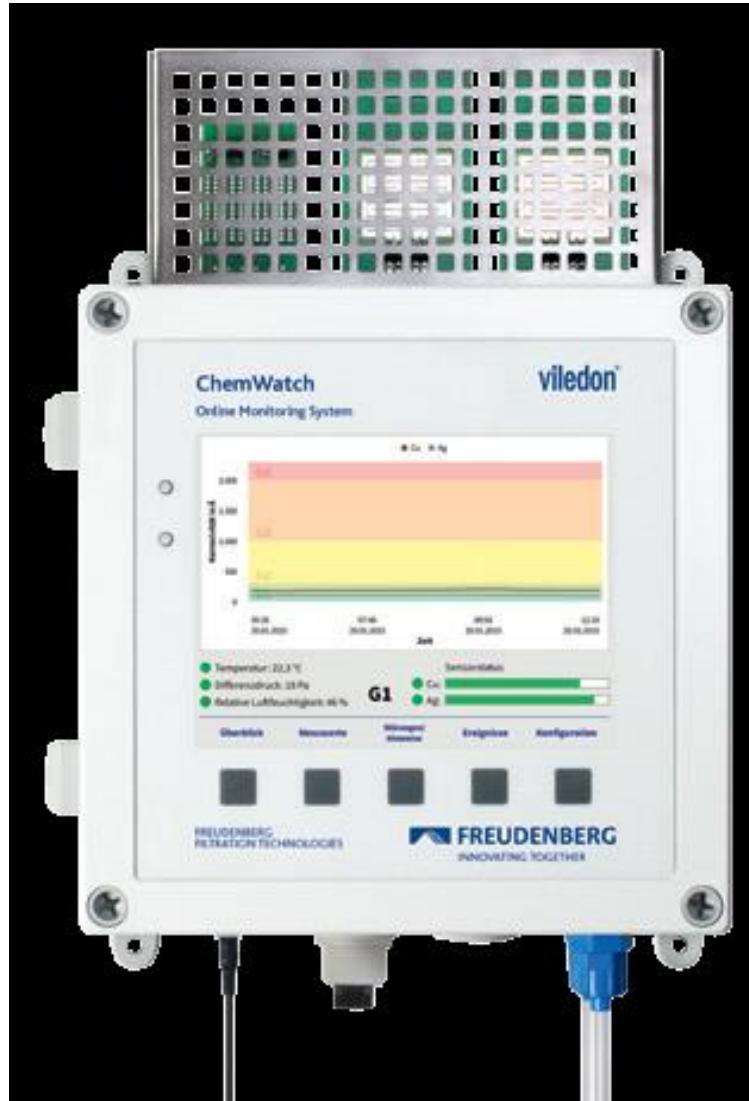
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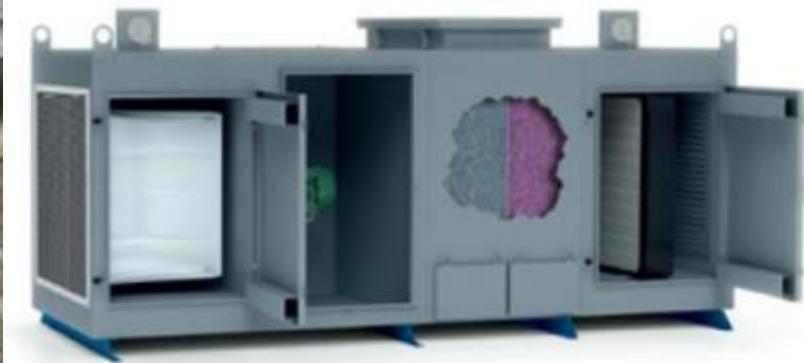


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The Viledon® ChemWatch Online Monitoring System determines the corrosion class of gaseous media in accordance with standard ANSI / ISA-71.04-2013. The system calculates the corrosion rate (copper and silver), temperature, relative air humidity and the positive pressure in the room to allow a targeted analysis.

The system provides constant monitoring and quick results by using innovative sensor technology based on the principle of electrical resistance measurement. It is easy to install, resistant to vibrations, conforms to CE requirements and provides exact corrosion rates in metric and imperial units regardless of temperature fluctuations.



Pellets are especially recommended for all contaminant gases highlighted in lightblue ●

- 1 Hydrogen sulfide ( $H_2S$ )
- 2 Sulfur dioxide ( $SO_2$ )
- 3 Other oxides of sulfur
- 4 Nitrogen oxides ( $NO_x$ )
- 5 Chlorine
- 6 Ammonia
- 7 Formaldehyde
- 8 Hydrocarbons
- 9 Mercaptans
- 10 Low molecular weight organic acids
- 11 Volatile organic compounds (VOCs)

<b>BLEND OF CCP 108 AND CCP 610</b>		 1 2 3 4 7 9 10		 5 8 11	
<b>Bulk density</b>	kg /m <sup>3</sup>	640 (+/-5 %)			
<b>Nominal diameter of spherical pellets</b>	mm	3.8		 1 2 4 8 11	
<b>Nominal diameter of cylindrical pellets</b>	mm	5.0			
<b>Nominal length of cylindrical pellets</b>	mm	8.0		 1 2 3 4 8 11	
<b>Crush strength (minimum)</b>	kg	2		 1 2 5 8 11	
<b>Removal capacity for H<sub>2</sub>S of own weight*</b>	%	7			
<b>Removal capacity for SO<sub>2</sub> of own weight*</b>	%	3			
<b>Removal capacity for NO<sub>2</sub> of own weight*</b>	%	7			
<b>Removal capacity for Cl<sub>2</sub> of own weight</b>	%	4			
<b>Compliance with UL classification</b>	Class	2			
<b>Minimum design efficiency</b>	%	99.5		 1 2 5 8 11	
<b>Typical air velocity</b>	m/s	0.3–2.9			
<b>Suitable for relative air humidities</b>	%	10–95			
<b>Temperature range</b>	°C	-20–+55			
<b>Remaining lifetime analysis</b>	possible	no		 6	
<b>DELIVERY NOTES</b>					
<b>Weight per box</b>	kg	18.4		 6	
<b>Box dimensions (LxWxH)</b>	mm	320 x 320 x 340			

# Bench Top



Kit	Description arm(s)	Max. airflow, m <sup>3</sup> /h (cfm)	Arm Ø, mm (in.)	Arm length, mm (in.)
500	1 x FX32	45 (26)	32 (1 ¼)	850 (33)
1000	2 x FX32	42 (25)	32 (1 ¼)	850 (33)
1500	3 x FX32	38 (22)	32 (1 ¼)	850 (33)
2000	1 x FX50	100 (60)	50 (2)	1100 (43)
2500	2 x FX50	75 (44)	50 (2)	1100 (43)
3000	1 x FX75	150 (88)	75 (3)	1100 (43)



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# Paldies!

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