Nederman

MagnaStack

Exhaust extraction system for emergency vehicles with vertical stacks



MagnaStack is a fully automatic exhaust extraction system. The extraction unit designed as a hood enclosure automatically connects with the vertical exhaust stack as the vehicle is backed in to the parking bay. Guide arms position the laterally adjustable hood to the stack. The stack is locked to the hood with an electro-magnet.

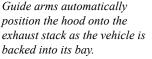
As the vehicle moves towards the exit, the horizontal hose and extraction hood follow smoothly along the guide track. At the doorway the electric power is automatically switched off, instantly releasing the electro-magnet and the exhaust stack from the hood.

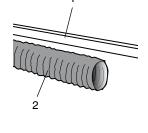
- Capacity: 1 vehicle per system
- Exhaust pipes: vertical stacks
- Normal exit speed: up to 15 km/h, 10 mph
- For reverse-in vehicles



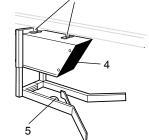
An electro-magnet locks the hood to the exhaust stack.

- 1. Track
- 2. Exhaust hose
- 3. Trolley
- 4. Extraction hood
- 5. Electro-magnet

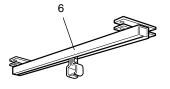




Complete horizontal exhaust	mplete horizontal exhaust unit			
Guide track with horizontal hose Ø	Guide track with horizontal hose Ø160 mm (6") Lenght m / ft Part no			
Lenght m / ft				
3.0 / 10	20804263			
6.0 / 20	20804363			
9.0 / 30	20804463			
10.0 / 33	20812663			
12.0 / 40	20804563			
15.0 / 50	20804663			



Extraction unit (pos 3, 4, and	traction unit (pos 3, 4, and 5)		
Type Part no			
Complete extraction hood	20805163		



Suspension devices (pension devices (pos 6)					
Guide track	20804263 3 m	20804363 6 m	20804463 9 m	20812663 10 m	20804563 12 m	20804663 15 m
Suspension device 20371306	2	2	2	2	2	2
Suspension device 20371307	-	-	1	1	2	2

Technical specification

Pressure drop

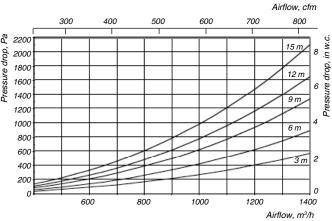
Track Material	Staal with onti companya paint				300
	Steel with anti-corrosive paint		1		1
Operational length	max 13 m (43")	Ра	2200		1
Weight kg/m	4,5 kg/m	Pressure drop,	2000		-
Suspension devices		b e	1800	<u> </u>	-
Material	Steel with anti-corrosive paint	sure	1600		
	Steel with and conosive paint	es	1400		
Horizontal Exhaust hose		đ			
Diameter	Ø 160 mm (6")		1200		
Temp. resistance	- 35 to +125° C cont, short term: +150° C		1000		
Material	Neoprene with steel helix, compressible 1:5		800		-
	•		600		-
Trolley			400		<u> </u>
8 wheels with bearings, attached			200		
Weight	12 kg		200		=
Extraction Hood			0.		
Material	Galvanized sheet metal				
Waterial	Garvanized sheet nictar				
Electro magnet			∆irflc	ow red	-om
Voltage	24 V DC			1200	
Effect	5 VA			- 705	
Effect	5 VA		(470	- 705	CIIII
Disconnection					
Electro-magnetic switch					
Transformer					
Prim. voltage	100-230 V 1-phase AC				
Sec. voltage	24 V DC				
Effect	5 VA				
IP Class					
Internal Protection	IP 67		Ine	talla	ati/
Internal Protection	IP 6/		1113	lanc	
Total weight					
Track incl horizontal hose	4.5 kg/m				
Complete extraction unit	12 kg				_
1	e				_
Environmental information					
Recycling level	100 %				

Accessories

Energy consumption

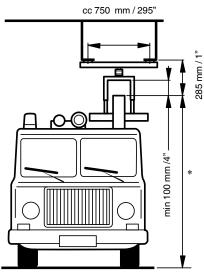
General accessories	Part no.
Auto start /stop radio transmitter for vehicle	20801369
Auto start /stop radio receiver	20802669

4 W per extraction unit.



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ion/mounting



* Determined by height of tail pipe

Mounting height: 3-4 m (10–13["]) Mounting force, vertical: 4500 N Mounting force, horizontal: 4500 N Distance between suspension brackets: 3.0 m (10[°])



www.nederman.com

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