

MagnaTrack HS

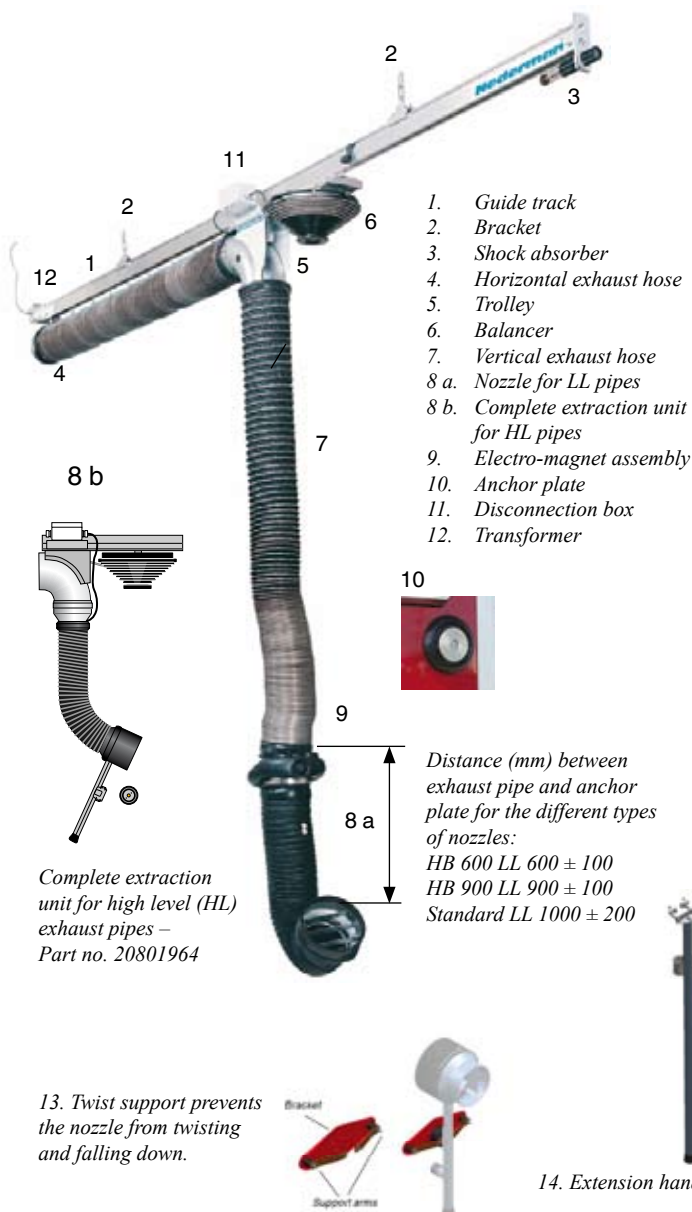
Exhaust extraction system for emergency stations with high frequency /high speed runs



The MagnaTrack HS is designed to serve emergency stations with a high frequency of runs. The track system serves one vehicle at a time. The balancer has a constant lifting power.

MagnaTrack HS is available in lengths from 3.5 m to 18 m; (10 ft to 60 ft) and it fits vehicles with low as well as high mounted exhaust pipes.

- Capacity: 1 vehicle per system
- Exhaust pipes: High level or Low level tail pipes
- High exit speed: up to 25 km/h; 15 mp
- For reverse-in (or drive-through)



1. Guide track
2. Bracket
3. Shock absorber
4. Horizontal exhaust hose
5. Trolley
6. Balancer
7. Vertical exhaust hose
- 8 a. Nozzle for LL pipes
- 8 b. Complete extraction unit for HL pipes
9. Electro-magnet assembly
10. Anchor plate
11. Disconnection box
12. Transformer

Complete extraction unit for high level (HL) exhaust pipes – Part no. 20801964

Distance (mm) between exhaust pipe and anchor plate for the different types of nozzles:
 HB 600 LL 600 ± 100
 HB 900 LL 900 ± 100
 Standard LL 1000 ± 200

13. Twist support prevents the nozzle from twisting and falling down.

14. Extension handle

MagnaTrack HS	
Including: Guide Track (1), Mounting brackets for 2.4 m distance (2), Shock absorber (3), Horizontal hose (4), Transformer (12)	
Track length m / ft	Part no
3.5 / 11.5	20804164
5.9 / 19.4	20804264
7 / 22.9	20806864
9.5 / 31.2	20804364
11.8 / 38.7	20804464
15.3 / 50.2	20804564
17.7 / 58.0	20804664

MagnaTrack HS extraction unit for low level (LL) pipes		
Including: Trolley (5), Balancer (6), Vertical hose (7), Electro-magnet assembly (9), Anchor plate (10), Disconnection box (11)		
Hose Ø vertical mm / inch	Hose length vertical m / ft	Part no
160 / 6.3"	4 / 13.1	20801864
160 / 6.3"	3 / 9.8	20801764
130 / 5.1"	4 / 13.1	20801664
130 / 5.1"	3 / 9.8	20801564

Nozzles for low level (LL) exhaust pipes (8a)				
Type	Distance exhaust pipe – anchor plate	Hose Ø mm / inch	Hose length mm / inch	Part no
HB 600 LL	Fixed	160 / 6.3"	600 ± 100 23.6 ± 4"	20802264
HB 900 LL	Fixed	160 / 6.3"	900 ± 100 35.4 ± 4"	20802464
Standard LL	Variable	160 / 6.3"	1000 ± 100 39.4 ± 4"	20802164
HB 600 LL	Fixed	130 / 5.1"	600 ± 100 23.6 ± 4"	20802364

Complete extraction unit for high level (HL) exhaust pipes including (8b):		
Extraction trolley, balancer, disconnection box, vertical hose, electro magnet assembly, HL nozzle, handle and anchor plate		
Hose Ø mm / inch	Hose length m / ft	Part no
160 / 6.3"	2 / 6,6	20801964

Accessories for high level nozzles		
Type	Description	Part no
Twist support (13)	Prevents nozzle from twisting and falling down	20374364
Extension handle (14)	1.1 m long	20374359

General Accessories: see other page

Technical specification

Track

Material Aluminum

Exhaust hose, horizontal

Compressible, with integrated cables to the electro-magnet assembly.
Temp. resistance -35 to +125°C cont., short term: +150°C
Material Neoprene with steel clip

Trolley

Material Aluminum
Wheels High density polyeten

Balancer

Lifting force 120 N
Material in cord Polyester
Material drum POM

Exhaust hose, vertical

Compressible, with integrated cables to the electro-magnet assembly.
Temp. resistance: -40 to +175°C cont, short term: +190°C
Material Hypalon with aluminum clip

Electro magnet

Voltage 24 V DC
Effect 1.9 VA
Material Nitro carburized treated steel

Anchor plate

Material Nedox treated steel

Disconnection box

Power indicator
Includes a deactivating electro-magnet

Transformer

Prim. voltage 100-230 V 1-phase AC
Sec. voltage 26 V DC
Effect 5 VA

IP Class

Internal Protection IP 67

Total weight

Track incl horizontal hose
(Pos 1, 2, 3, 4, 12) 4.0 kg/m

Complete extraction unit incl LL nozzle
(Pos 5, 6, 7, 8, 9, 10, 11) 17-19 kg

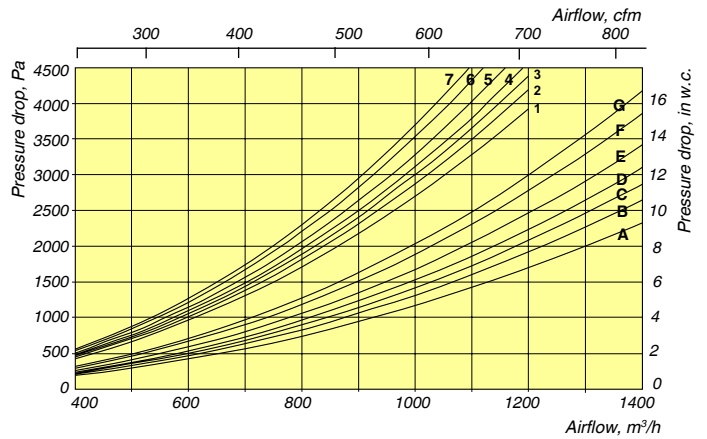
Environmental information

Recycling level 100 %
Energy consumption 4 W per extraction unit

Accessories

General accessories	Part no.
Anchor plate standard	20372003
Anchor plate 2 parts	20371853
Anchor plate 3 parts	20371868
Auto start /stop radio transmitter for vehicle	20801369
Auto start /stop radio receiver	20802669

Pressure drop



System pressure drop according to track length

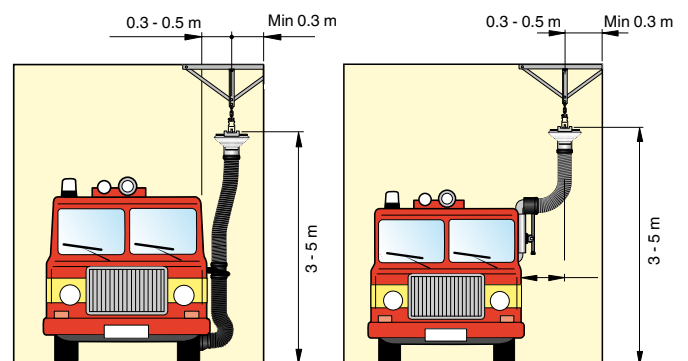
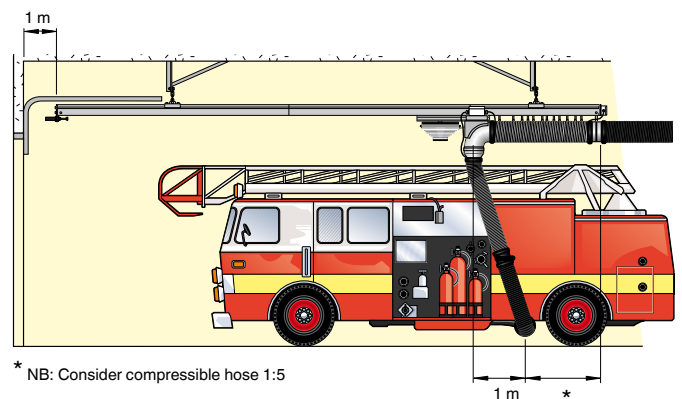
Ø 130	Ø 160	Length m / ft
1	A	3.5 / 11.5
2	B	5.9 / 19.4
3	C	7 / 22.9
4	D	9.5 / 31.2
5	E	11.8 / 38.7
6	F	15.3 / 50.2
7	G	17.7 / 58.0

Airflow recommendation:

Heavy vehicles: 1000 -1200 m³/h
(590 - 705 cfm)

Cars/Suvs: 400-600 m³/h
(235 - 355 cfm)

Installation/mounting



Length of rail, m	No. of brackets
3.5	2
5.9	3
7	4
9.5	4
11.8	5
15.3	7
17.7	9

N.B. The nozzle for high level (HL) exhaust pipes must be installed at a higher level than the exhaust pipe. The nozzle must be pulled downwards at connection, which will activate the balancer.

Nederman

www.nederman.com

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