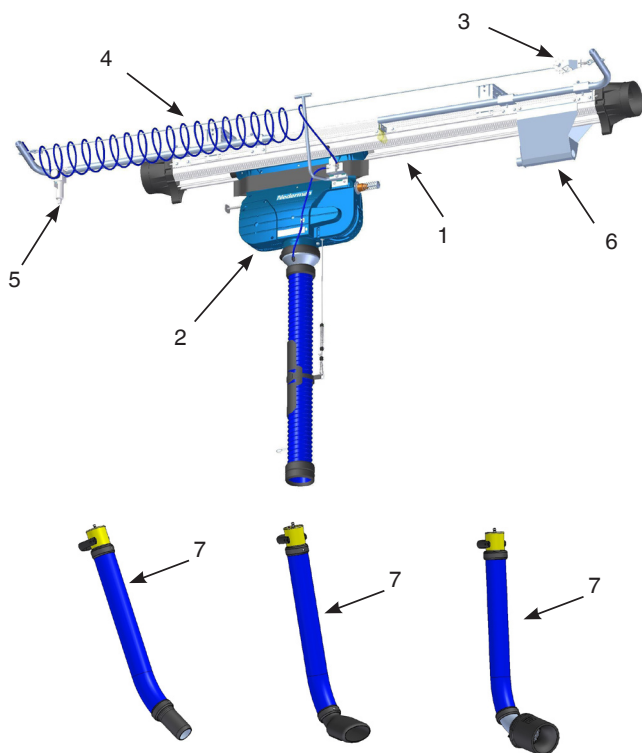


Exhaust Rail System 920

Pneumatic system for vehicles in motion



1. Rail 920
2. Trolley and hose incl internal pneumatic hose and disconnection trigger
3. Wire kit
4. Pneumatic hose
5. Compressed Air filter
6. End Stop Complete
7. Nozzle kit

Pneumatic Rail System – PRS, is a fully automatic, exhaust extraction system for all types of vehicles. The system is based on a nozzle expanded by compressed air, fixing and sealing the nozzle tightly around the tail pipe.

PRS is supplied with a choice of different sized nozzles to fit the most common types of tail pipes. A quick coupler makes it easy to interchange the nozzle kits.

- For one vehicle per system
- Automatic disconnection of nozzle and safety devices
- For drive-through vehicles
- Safety coupling in case of faulty operation
- Nozzles to suit all types of vehicles
- Grip for ergonomic handling

Rail kit 920

Length, m	Part no.	Length, m	Part no.
5.0 / 16,4	916120	20.0 / 65.6	916720
7.5 / 24.6	916220	22.5 / 73.8	916820
10.0 / 32.8	916320	25.0 / 82.0	916920
12.5 / 41.0	916420	27.5 / 90.2	917020
15.0 / 49.2	916520	30.0 / 98.4	917120
17.5 / 57.4	916620	35.0 / 114.8	917220

For other rail lengths, please contact your local Nederman dealer

Main components (position)	Quantity	Part no.
Pneumatic suction unit 920/1500 VIM (2)	1	913820
Wire kit for pneumatic spiral hose (3)	1	912920
Pneumatic 8/6 spiral hose Ø150 L50 m (4)	1	912720
Compressed air filter * (5)	1	375252
End Stop Complete (6)	1	373836

Nozzle kit (7)				
Complete with Nozzle, Lower extraction hose, Lower integrated pneumatic air hose and Safety coupler				
Nozzle type	Nozzle Ø mm /inch	Exhaust pipe Ø mm/inch	Length incl. hose m/ft	Part no.
Circular	160 / 6.3	40-145 / 1.5- 5.9	1.0 / 3.2	867361
Internal	100/4	100-150 /4-6	1.0 / 3.2	867461
Oval	80 * 150	20-100 / 0.8-4	1.0 / 3.2	867561

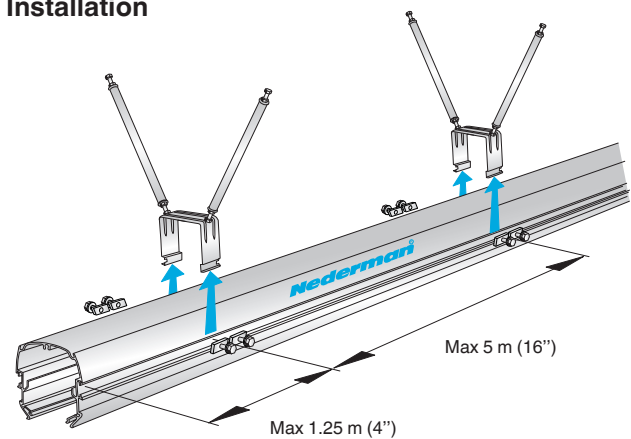
Accessories	Part no
Trolley return unit	801144

NB!

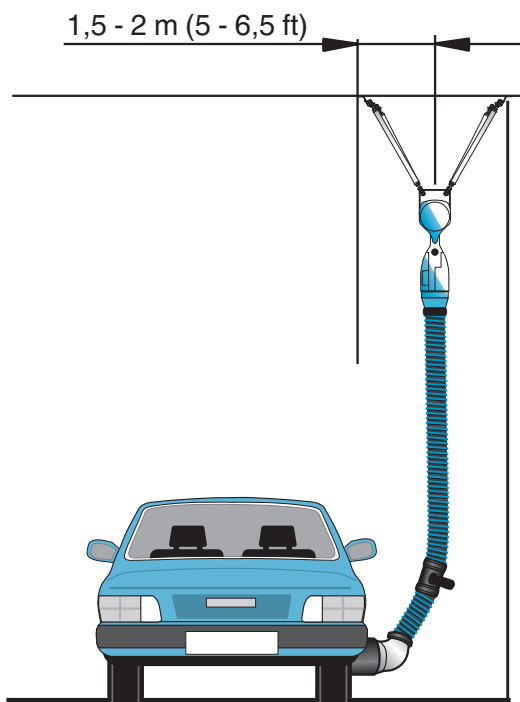
* Compressed air filter must be used acc. to DIN ISO 8573-1, class 5/5/4
For selection of Nederman fan and operational box, see separate brochure.
For North American part no., please contact Nederman Inc.

** Shock absorber is recommended for rail lengths 20 m / 66 ft or longer

Installation



Length of rail, m	ft	Number of brackets
2.5 - 5.0	8.2 - 16,4	2
7.5 - 10.0	24.6 - 32.8	3
12.5 - 15.0	41.0 - 49.2	4
17.5 - 20.0	57.4 - 65.6	5
22.5 - 25.0	73.8 - 82.0	6
27.5 - 30.0	90.2 - 98.4	7
32.5 - 35.0	106.6 - 114.8	8



* from the side of the garage opening

Technical specification

Exhaust rail	International
Material	Aluminium
Sealing lips	EPDM
Weight incl lips	6,8 kg/m, 29.1 lb/ft

Suction trolley with hose	International
Trolley	Glass-fibre composite
Hose	Rubber with steel helix, NR-B
Hose length	5 m, 16 ft 5 in
Hose diameter	100 mm, 4"
Hose suspension	rubber saddle
Temp. resistance	-40 to +150°C, -40 to +300°F
Total weight	17 kg, 33 lbs
Balancer lifting Force	150 N, 33,7 lbf

Suspension wire kit	International
Material	Steel/ PA
Length	35 m, 115 ft

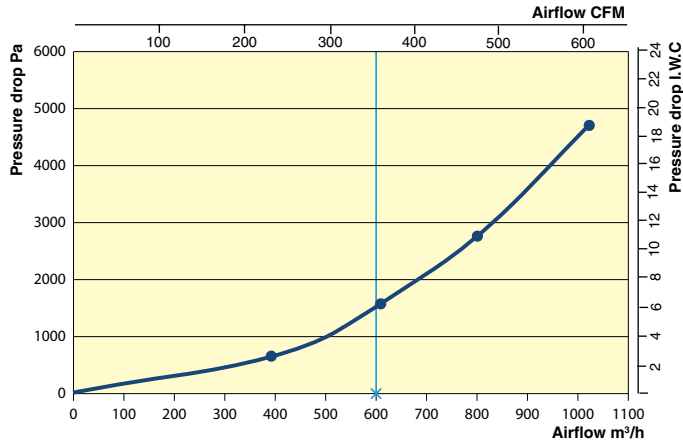
Internal pneumatic air hose	International
Material, upper/lower	Teflon/PTFE
Length	5,6m, 18,4"
Temperature	+260°C, +500°F

Filter regulator	
Supply pressure, max	6-8 bar (max 16 bar), 230 psi
System pressure	1 bar, 14.5 psi

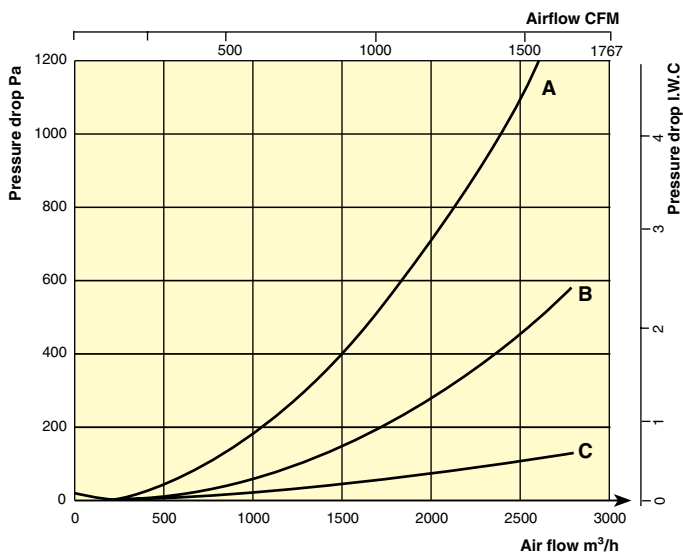
Nozzle kit	Internal	Oval	Circular
Temp. Resistance	-40 to +150°C cont.		
Material Hose	Rubber with polyester helix, NR-CP		
Material Elbow	Chrome plated steel		
Hose Length	0,9 m		
Hose Dimension	Ø 100 mm		
Nozzle hood material	Rubber, internal Kevlar reinforced		
Weight complete nozzle kit	3,2kg/6,8lb	3,2kg/6,8lb	3,5kg/7,2lb

Safety coupler	Disconnection trigger		
Pneumatic valve. Composite handle for easy operation of hose. Manual switch for nozzle. Temperature +200°C / +392°F	Supply pressure	6 – 8 bar	87 – 116 psi
	System pressure	1 bar	14.5 Psi

Pressure drop for complete suction unit



Pressure drop Rail 920

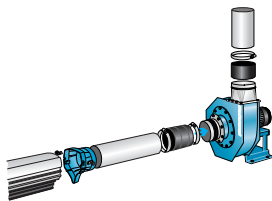


A= Top connection, Ø200 mm
 B= Side connection, Ø160 mm
 C= Rail 920, per metre (10 Pa/m ≈ 0.012 i.w.c/ft)

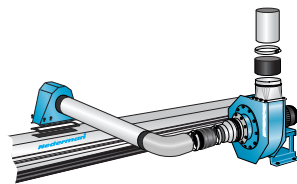
Environmental data

Recycling level	100 %
-----------------	-------

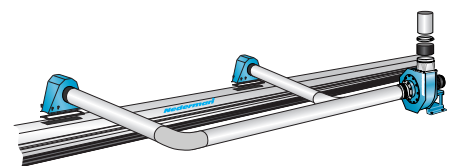
Fan connection alternatives



Side connection up to 1200 m³/h (707 cfm)
 The end cover without lid can be used to connect the ducting to the fan. Connection Ø 160 mm (6,4") in sheet metal.



Top connection up to 2400 m³/h (1414 cfm)
 A connection cone (accessory) is mounted on top of the rail. Connection Ø 200 mm (8"). A hole for the cone, size 85 x 450 mm (3.3" x 17.7"), must be made in the rail.



For more than 2400 m³/h (1414 cfm)
 Top connection with two or more cones (option). Connection Ø 200 mm (8").