

Exhaust Rail System 920

For stationary vehicles



Easy to handle systems for all types of workshops. Consists of a basic rail system which is completed with an exhaust extraction kit. Very high extraction efficiency. One extraction unit can serve several workbays. Extraction units are easy to move, thanks to light-weight material and ball bearing wheels. Two 400 units serve cars with twin exhaust pipes. Manual disconnection of exhaust nozzles.

For choice of nozzles, see Exhaust nozzles.

- Compact, modern design
- Easy to position and move by hand
- Automatic damper for airflow control
- Quick and simple installation - less ducting work, reduces cost



Exhaust Extraction unit with trolley, hose

Vehicles	Trolley	Hose Ø, mm	Hose type*	Hose length, m	Nozzle storage	Balancer	Damper	Hose suspension	Part no.
Cars and Vans	400	100	NTP	5.0	X		X		20915720
	400	100	NR-CP	5.0	X		X		20915220
	400	100	NTP	7.5	X		X		20915120
	400	100	NTP	5.0		X	X	X	20915620
	400	100	NR-CP	5.0		X	X	X	20915520
	400	100	NTP	7.5		X	X	X	20915020
Trucks and buses	1500	150	NR-CP	5.0		X	X	X	20914020
	1500	150	NR-CP	5.0	X		X		20914320

* Hose type - see separate section

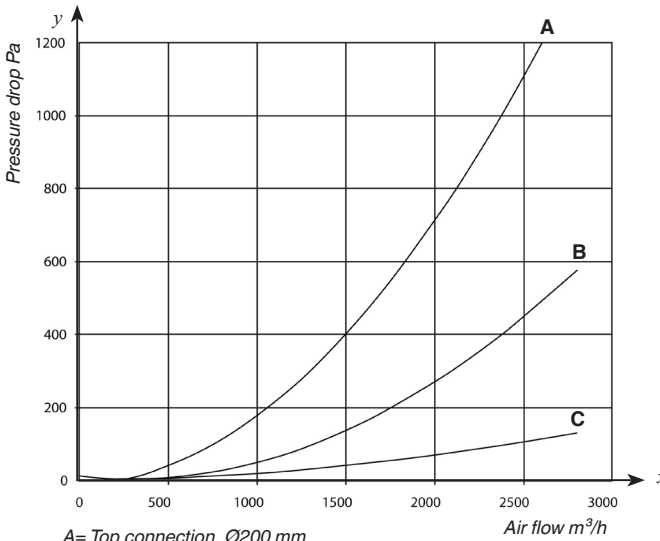
Rail kit 920**

Length, m	Part no.
2.5	20916020
5	20916120
7.5	20916220
10	20916320
12.5	20916420
15	20916520
17.5	20916620
20	20916720

Length, m	Part no.
22.5	20916820
25	20916920
27.5	20917020
30	20917120
35	20917220
40	20917320
45	20917420
50	20917520

** Complete with suspension parts, joint connectors, rubber seals, end covers and end stops.
For rail lengths > 50 m, please contact your local Nederman dealer.

Rail 920 pressure drop

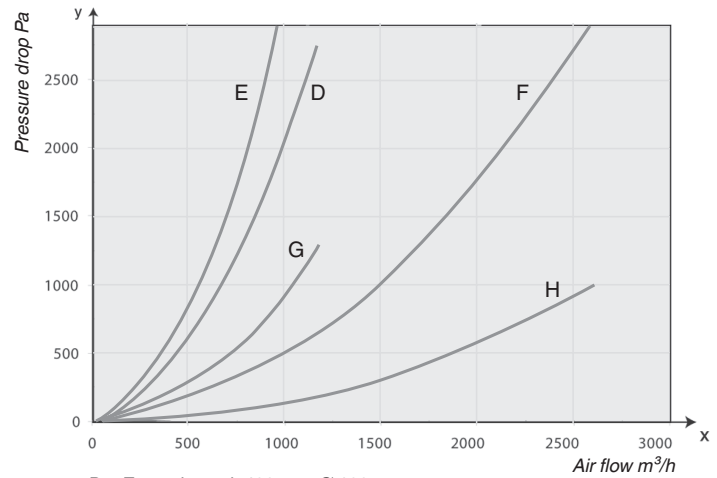


A= Top connection, Ø200 mm
 B= Side connection, Ø160 mm
 C= Rail 920, per metre

Airflow recommendations

Car: 400–600 m³/h (235–350 cfm)
 Truck/bus: 1000–1200 m³/h (590–700 cfm)

Extraction units and trolley pressure drop



D = Extraction unit 400, 5 m Ø 100 mm
 E = Extraction unit 400, 7.5 m Ø 100 mm
 F = Extraction unit 1500, 5 m Ø 150 mm
 G = Trolley 400
 H = Trolley 1500

Max design airflow per trolley

400 trolley: 600 m³/h (350 cfm)
 1500 trolley: 1500 m³/h (885 cfm)

Accessories

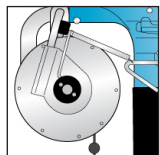
Accessories	Rail kit	For 400-trolley	For 1500-trolley	Part no.
Top connection. Outlet: Ø 200 mm	X			20374246
Damper, Ø100 mm		X		20373752
Damper, Ø160 mm			X	20373796
Balancer kit		X		20373759
Safety coupling, Ø100 mm		X		20373797
Safety coupling, Ø150 mm			X	20373798
Nozzle storage ***				20373753
Balancer trolley 920		x	x	20374652

*** Not used when the trolley is equipped with a balancer

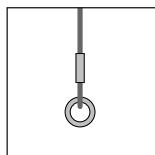


Suction unit 920/1500 together with extra balancer trolley and 831 Balancer

Functional description



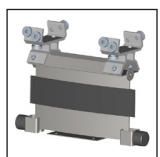
Balancer
 Lifts the hose at all times. Increases the life-time of the hose. Operates the damper (when applicable).



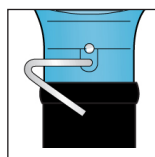
Nozzle storage
 • For storing the nozzle when it is not in use.



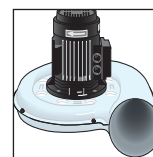
Hose suspension
 Fastening point of balancer cord – to be mounted on the hose.



Balancer trolley
 Facilitates assembly of a balancer for extra long hoses, equal to 10 m/33" NR-CP, Ø150/6". For heavier hoses, use suction trolley with integrated balancer together with balancer trolley 920.



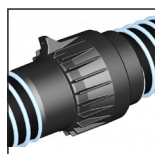
Damper
 Shuts the air flow when the unit is not in use. Automatic function via the balancer or nozzle storage.



Fan
 Choose from Nederman's assortment, according to the application of the system.



Nozzle
 Choose from Nederman's assortment, according to the application of the system



Safety coupling
 Separates the hose if manual/automatic disconnection fails, or if the nozzle catches on to part of the vehicle.

Technical Data

Rail

Material: Aluminum; extruded, hardened, non-corrosive.

Sealing lips: EPDM rubber; profiled, with inner low-friction layer, delivered in coils according to track length.

End cover: Glass-fiber composite; lid of galvanized sheet metal.

Brackets: Sheet metal; galvanized, with 100 mm threaded rods for alignment.

Heat resistance: 150°C (300°F).

Weight: 6.7 kg/m (5 lb/ft), including sealing lips.

Crosssection: 230 cm² (36 in²)

Trolley

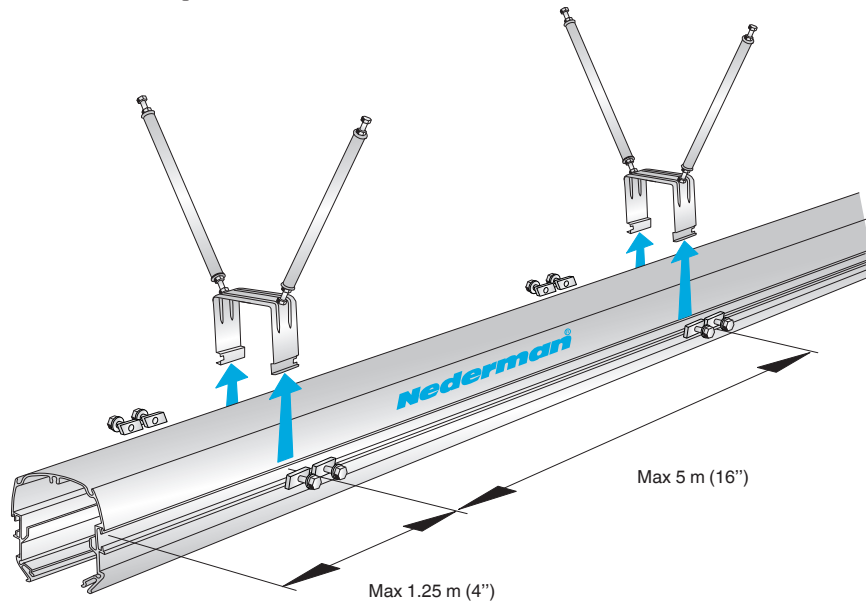
- Glass-fibre composite.
- Eight running wheels, four guide wheels, all with ball bearings (sealed).
- Resistant to all chemicals in diesel and petrol exhaust.

Environmental data

Sound level	The product, excluding fan, does not generate any sound.
Recycling level	100%
Energy consumption	The product, excluding fan, does not consume any energy.

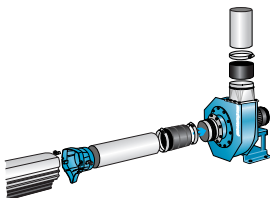
Quick and easy to mount

- Attach brackets to suitable suspension devices.
- Assemble rail sections on the floor.
- Lift rail sections and “click” them on to the brackets.
- Align rail horizontally with included threaded rods.



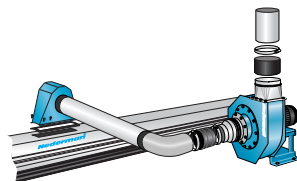
Fan connection alternatives

Depending on length of rail and number of extraction units on the rail, there are different connection alternatives and fans to choose. It is recommended that the fan is placed outdoors to give negative pressure in all indoor ducting.



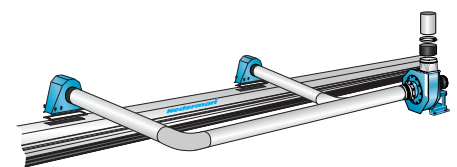
Side connection up to 1200 m³/h

The end cover without lid can be used to connect the ducting to the fan. Connection Ø 160 mm (6,4 ") in sheet metal, is available.



Top connection up to 2400 m³/h

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

Top connection with two or more cones (option). Connection Ø 200 mm (8").