

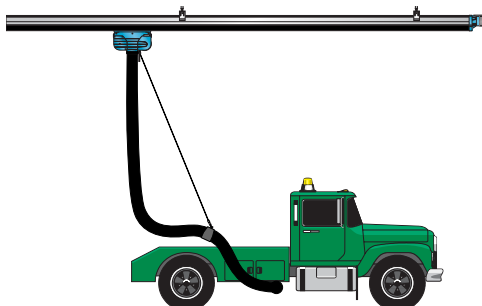
EXHAUST RAIL SYSTEM 920/1500

- High extraction efficiency
- Easy handling
- Modern design

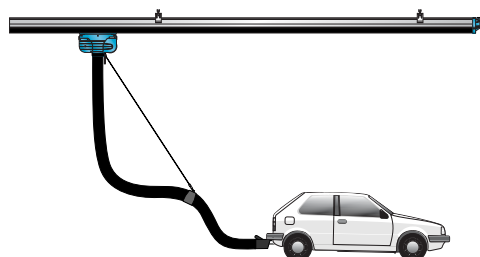
*Cost efficient
workforce protection.*



Exhaust extraction for stationary trucks



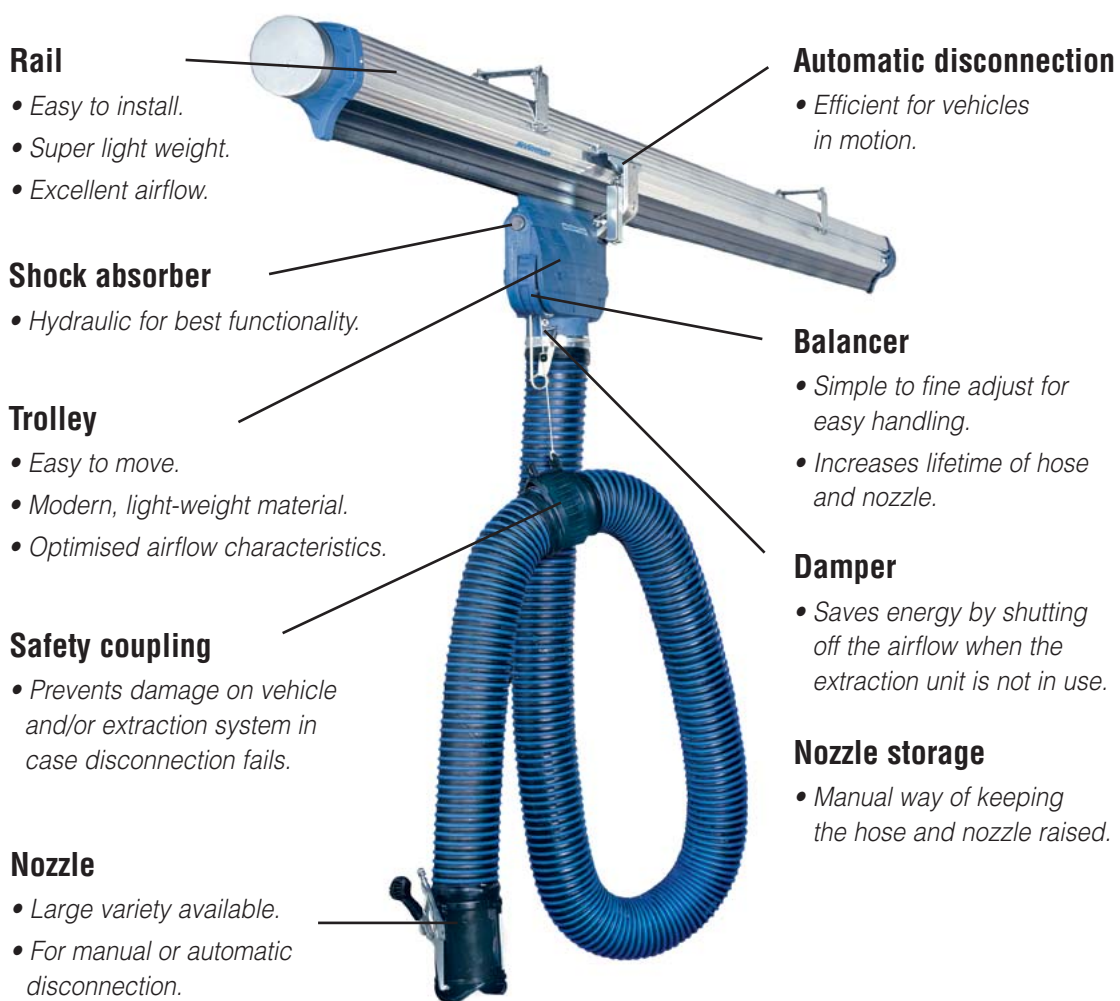
Exhaust extraction for moving trucks, cars and vans



Improving your workspace

System features

- **Modern appearance**
 - formed glass-fibre composite
- **Unique design**
 - excellent airflow characteristics
- **Low sound level**
 - thanks to the unique design
- **Easy to operate**
 - low trolley weight
- **Easy to install**
 - clip-in mechanism
- **Ergonomical**
 - trolleys move easily
- **Economical**
 - low fan power consumption
- **Safe**
 - design prevents trolley from falling off



For stationary trucks

The extraction unit is moved by hand along the rail. Units are available with balancer for keeping the hose raised, and damper for airflow shut-off.

For moving trucks, cars and vans

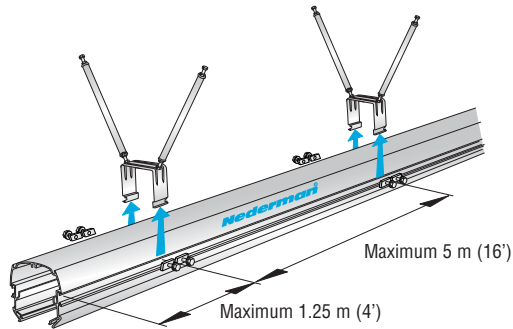
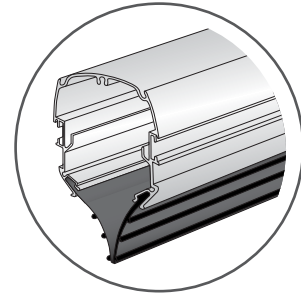
The extraction unit is pulled along the rail by the vehicle. Automatic disconnection as an option. Hose with safety coupling.

Rail 920

One-piece aluminium rail profile – quick and easy to mount

Installation of Rail 920, in brief:

- 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.



The distance between the mounting brackets should not exceed 5 m (16').

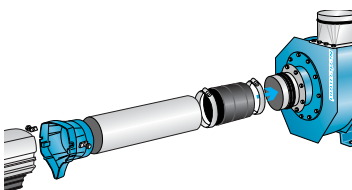
Length of track:	2.5–100 m (8'–320'), delivered in 5.0 m (16') and/or 2.5 m (8') sections
Rail material:	Aluminium; extruded, hardened, non-corrosive
Sealing lips:	EPDM rubber; profiled, with inner low-friction layer, delivered in coils according to track length
End cover:	Glass-fibre composite; lid of galvanised sheet metal
Brackets:	Sheet metal; galvanised, with 100 mm threaded rods for alignment
Heat resistance:	150°C (300°F)
Weight:	6.7 kg/m, including sealing lips

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.

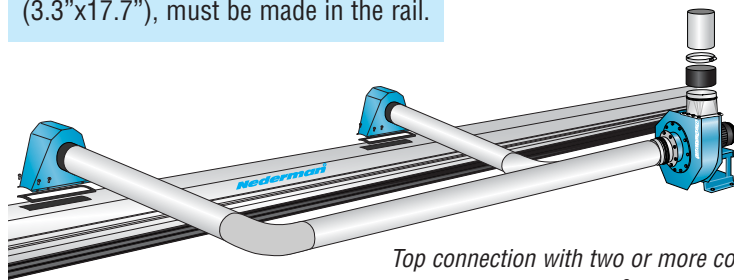
Side connection – for maximum 1200 m³/h

The end cover without lid can be used to connect the ducting to the fan. Connection Ø160 mm (6.4"). Reducer to Ø150 mm (6"), in sheet metal, is available.



Top connection

A connection cone (accessory) is mounted on top of the rail. Connection Ø200 mm (8"). A hole for the cone, size 85 x 450 mm (3.3"x17.7"), must be made in the rail.



Top connection with one connection cone – for a maximum of 2400 m³/h

Top connection with two or more connection cones – for more than 2400 m³/h

Functional modules



Balancer

- Lifts hose and nozzle at all times.
- Integrated in trolley.
- Operates the damper.
- With or without ratchet.
- Fine adjustment of lifting force.
- Lifting power: 15 kg
- Nylon cord, 5 m
- Drum made of composite (30% glass fibre).



Safety coupling

- Separates the hose if manual/ automatic disconnection fails, or if the nozzle catches on to part of the vehicle.
- Is quick to reassemble after separation.
- Functions as fastening point for balancer cord.
- Consists of two steel rings with female and male connection.
- Both rings under EPDM rubber cover to prevent scratching on vehicle.
- Initiation force: 45 kg (100 mm; 4")
60 kg (150 mm; 6")



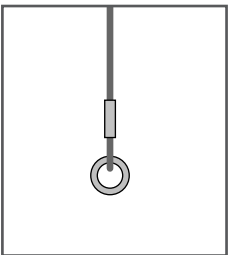
Damper

- Shuts off the airflow when extraction unit is not in use.
- Automatically operated by balancer or nozzle storage.
- Integrated in trolley, with outside operating lever.
- Made of galvanised steel.



Hose suspension

- Fastening point of balancer cord – to be mounted on the hose.
- Vacuum formed.



Nozzle storage

- For storing the nozzle when not in use.
- Not used when trolley is equipped with balancer.
- Nylon cord, 5 m



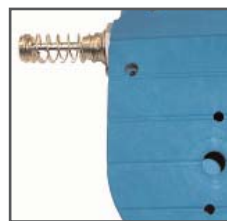
Automatic disconnection

- Disconnection trigger, incl. fixing components, to be installed on rail.
- Disconnection device – integrated in the trolley – operates the release mechanism on nozzle via a bowden wire.
- Bowden wire with safety coupling part; connected to trolley, safety coupling, and nozzle.



Nozzle

On systems with manual disconnection, choose a nozzle from the Nederman assortment. Nozzle is included in systems for automatic disconnection. (See separate brochure)



Shock absorber

- Hydraulic for best efficiency
- Integrated in trolley body
- Transfer of energy when secondary unit is used.



Fan

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



Trolley stop

- Mounted on the rail
- Made of galvanised steel

Extraction units

An extraction unit always includes

- trolley
- hose

Trolley

- Glass-fibre composite V 0 (self-extinguishing).
- Temperature resistance: +150°C continuous
- Four running wheels, four guide wheels, all with ball bearing (sealed); rollers made of polyurethan.
- Weight: 4.4 kg
- Resistant to all chemicals in diesel and petrol exhaust.
- Hose connection Ø150 mm.



Hose (two options)

NR-B

- With steel helix.
- Temperature resistance: +150°C continuous
- Resistant to all chemicals in diesel and petrol exhaust.

NR-CP

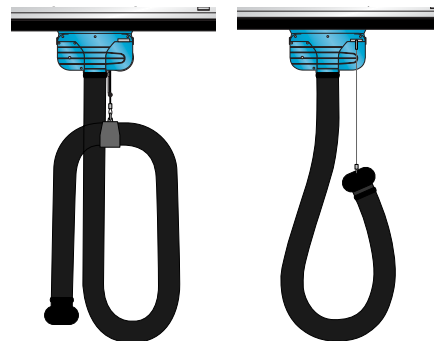
- Crush-proof; with nylon helix.
- Temperature resistance: +150°C continuous
+175°C intermittent
- Resistant to all chemicals in diesel and petrol exhaust.
- With safety coupling for vehicle in motion.

Complete extraction units

For stationary vehicles

Unit consists of:

- Extraction trolley
- Hose 5 m long, Ø150 mm
- Balancer or Nozzle storage
- With or without damper



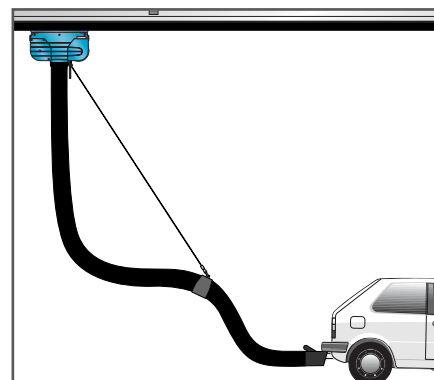
Accessories

- Damper
- Hose suspension Ø150 mm

For vehicles in motion

Unit consists of:

- Extraction trolley
- Hose 6 m long, Ø100 mm (cars) or Ø150 mm (trucks)
- Balancer
- Damper
- Safety coupling
- Shock absorber
- With or without automatic disconnection



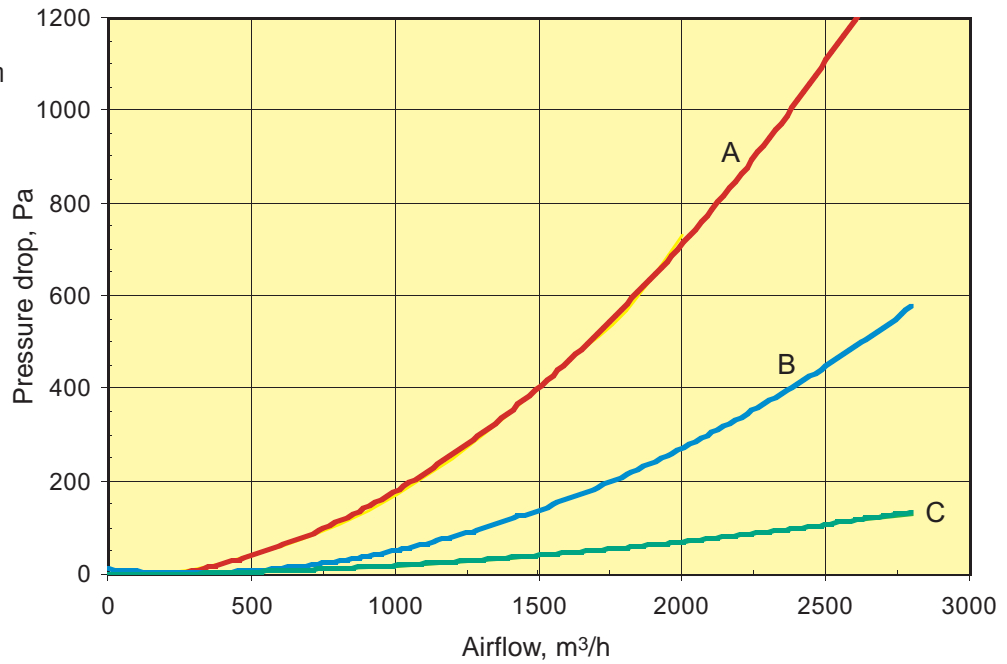
Accessory

- Trolley stop

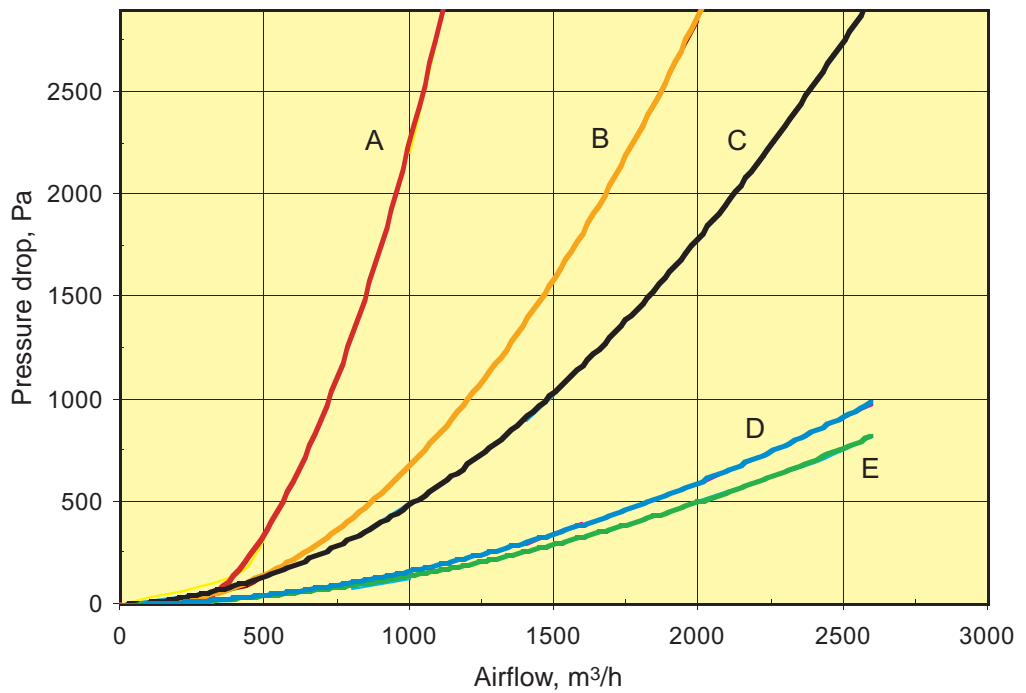
Pressure drop

Rail 920

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



Extraction units and trolleys



Airflow recommendation:

Car: 400–600 m³/h (235–350 CFM)

Truck/bus: 1000–1200 m³/h (590–700 CFM)

A= Extraction unit – hose 6 m, Ø100 mm, with damper

B= Extraction unit – hose 6 m, Ø150 mm, with damper

C= Extraction unit – hose 5 m, Ø150 mm, with or without damper

D= Trolley with damper

E= Trolley without damper

Part numbers

Choose horizontal unit

Rail 920 comes in 21 lengths and is delivered in 5 m and/or 2.5 m sections. Each delivery includes rubber lips, adjustable brackets, limit stops, end covers and fan side connection.

20900120	2.5 m (8')	20900820	20.0 m (66')	20901520	45 m (148')
20900220	5.0 m (17')	20900920	22.5 m (74')	20901620	50 m (165')
20900320	7.5 m (25')	20901020	25.0 m (82')	20901720	60 m (198')
20900420	10.0 m (33')	20901120	27.5 m (90')	20901820	70 m (231')
20900520	12.5 m (41')	20901220	30 m (99')	20901920	80 m (264')
20900620	15 m (50')	20901320	35 m (115')	20902020	90 m (297')
20900720	17.5 m (57')	20901420	40 m (132')	20902120	100 m (330')

Choose the extraction unit that suits your application

System	Hose type	Hose length, m	Hose Ø, mm	Balancer	Nozzle storage	Damper	Hose suspension	Shock absorber	Safety coupling	Automatic disconn.	Nozzle included	Part number
Stationary	NR-B	5 (17')	150 (6")		●							20910720
Stationary	NR-CP	5 (17')	150 (6")		●							20911220
Stationary	NR-B	5 (17')	150 (6")		●	●						20911920
Stationary	NR-CP	5 (17')	150 (6")		●	●						20912020
Stationary	NR-B	5 (17')	150 (6")	●			●					20910620
Stationary	NR-CP	5 (17')	150 (6")	●			●					20911320
Stationary	NR-B	5 (17')	150 (6")	●		●	●					20910520
Stationary	NR-CP	5 (17')	150 (6")	●		●	●					20911420
In motion	NR-CP	6 (20')	100 (4")	●				●	●			20912120
In motion	NR-CP	6 (20')	100 (4")	●		●		●	●			20910820
In motion	NR-CP	6 (20')	150 (6")	●				●	●			20912220
In motion	NR-CP	6 (20')	150 (6")	●		●		●	●			20910920
In motion	NR-CP	6 (20')	100 (4")	●				●	●	●	20806161	20912320
In motion	NR-CP	6 (20')	100 (4")	●		●		●	●	●	20806161	20911520
In motion	NR-CP	6 (20')	150 (6")	●				●	●	●	20806561	20912420
In motion	NR-CP	6 (20')	150 (6")	●		●		●	●	●	20806561	20911620

Part numbers

Accessories

Damper 920/1500

20373796

Nozzle storage

20373753

Hose suspension, Ø150 mm (6")

20373804

Connection cone

20373751

For top connection of rail to fan.

Connection Ø200 mm (8").

Reducer for side connection

20373760

Reducer from connection Ø160 mm (6.4") to Ø150 mm (6")

Trolley stop

20373836

Sound level

The product, excluding fan, does not generate any sound.

Recycling level (without hose)

100 %

Energy consumption

The product, excluding fan, does not consume any energy.



This product is designed to meet the requirements of the relevant EC directives, and is labelled accordingly.

The majority of Nederman's products are manufactured within ISO 9001 and ISO 14001-certified system.

Rights reserved for modification of design and measurements.

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