

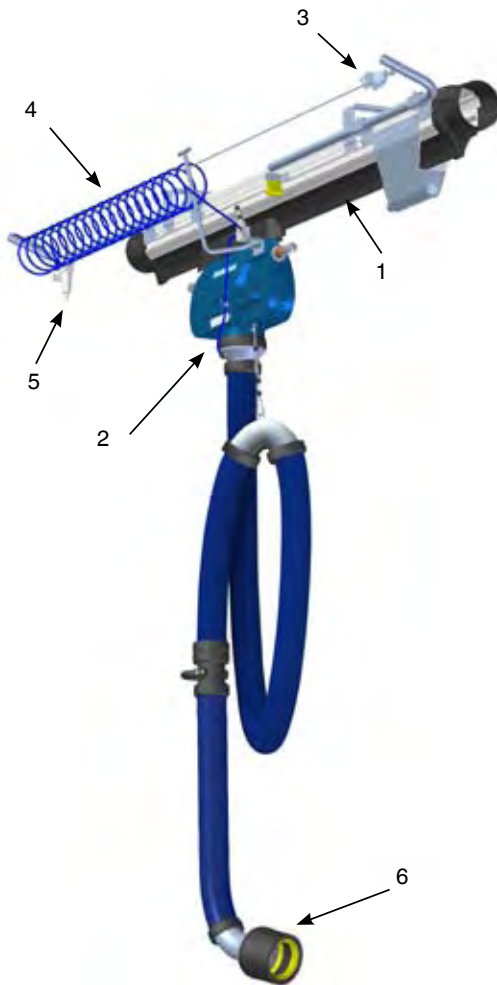
## Pneumatic Rail System – PRS Exhaust extraction system for emergency stations



Pneumatic Rail System – PRS, is a fully automatic, high capacity exhaust extraction system for up to 4 emergency vehicles per bay. 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 nozzles.

- Capacity up to 4 vehicles per system
- Normal exit speed up to 25 km/h, 15 mph
- For existing or new built fire houses
- For back-in or drive-through vehicles
- Air vent for quick and safe getaways
- Safety coupling in case of faulty operation
- Nozzles to suit all types of vehicles
- Grip for ergonomic handling
- Exhaust hose with internal compressed air hose



1. Blindotubo 920
2. Trolley and hose incl internal pneumatic hose and disconnection trigger
3. Wire kit
4. Pneumatic hose
5. Filter regulator kit
6. Nozzle kit



Tail Pipe Stop

### Kit Blindotubo 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 KOMSA ITALIA S.R.L.

Main components (position)	Quantity	Part no.
Pneumatic suction unit 920/1500 VIM (2)	1 - 4	913820
Pneumatic suction unit 920/1500 VIM US (2)	1 - 4	913920
Wire kit for pneumatic spiral hose (3)	1 - 2	912920
Pneumatic 8/6 spiral hose Ø150 L50 m (4)	1 - 4	912720
Compressed air filter * (5)	1	375252

### Nozzle kit for PTS (6)

Complete with Nozzle, Lower extraction hose, Lower integrated pneumatic air hose and Safety coupler

Nozzle Ø mm /inch	Exhaust pipe Ø mm/inch	Length incl. lower 4" hose m/ft	Grip length mm/inch	Part no. International	Part no. North America
160 / 6.3	70-125 / 2.8-5.0	1.0 / 3.2	120 / 4.7	867161	868161
125 / 5.0	50-85 / 2.0- 3.3	1.0 / 3.2	100 / 4	867061	868061

### Accessories

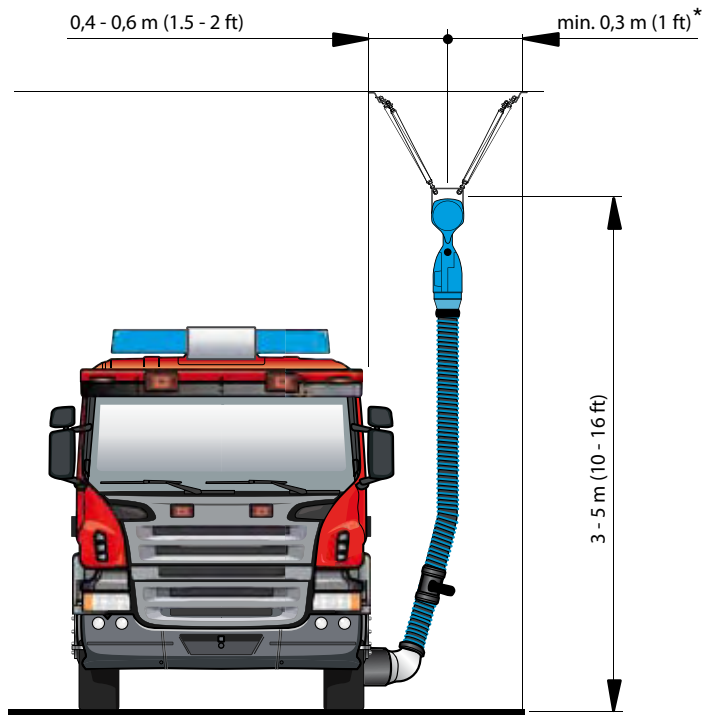
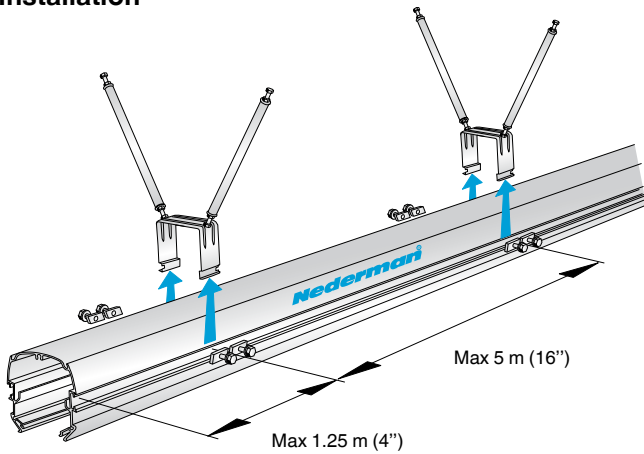
Accessories	Part no
Radio transmitter, auto start / stop	801369
Radio receiver, auto start / stop	802669
Shock absorber **	371698
Tail Pipe Stop 50-90 / 2" - 3.6"	375139
Tail Pipe Stop 90-130 / 3.6" - 5.1"	375140

### NB!

\* Compressed air filter must be used acc. to DIN ISO 8573-1, class 5/5/4  
For selection of KOMSA fan and operational box, see separate brochure.

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

## Installation



\* from the side of the garage opening

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

## Technical specification

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

Suction trolley with hose	International	North America
Trolley	Glass-fibre composite	Glass-fibre composite
Hose	Rubber with steel helix, NR-B	polyester acrylic urethane blend with steel helix
Hose length	5 m	16 ft 5 in
Hose diameter	100 mm	4"
Hose suspension	rubber saddle	elbow galvanized steel
Temp. resistance	-40 to +150°C	-40 to +400°F
Total weight	17 kg	33 lbs

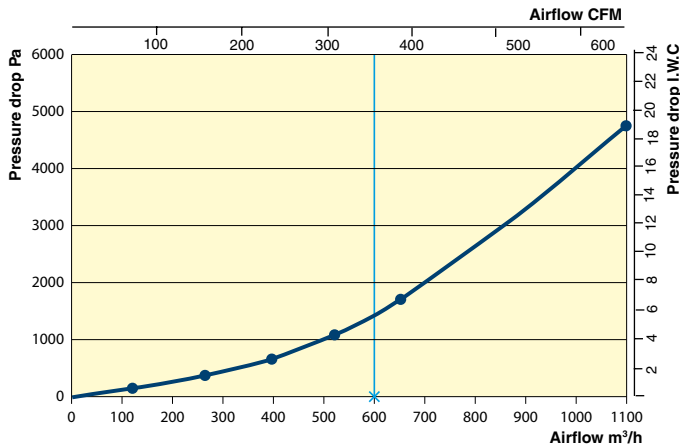
Suspension wire kit	International	North America
Material	Steel/ PA	Steel/ PA
Length	35 m	115 ft

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

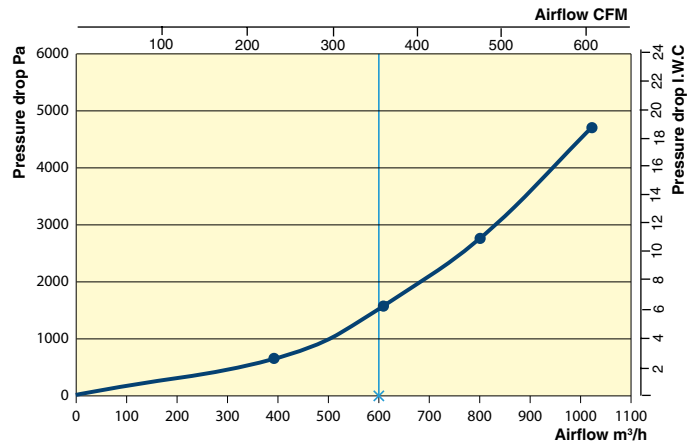
Filter regulator	International	North America
Supply pressure, max	6-8 bar (max 16 bar)	230 psi
System pressure	1 bar	14.5 psi

Nozzle kit	International	North America
Temp. Resistance	-40 to +150°C cont.	-40 to +400 °F cont.
Material	Rubber with polyester helix, NR-CP	polyester acrylic urethane blend with steel helix
Length	0,9 m	3 ft
Dimension	Ø 100 mm	4 in.
Nozzle hood material	Rubber, internal Nomex reinforced	Rubber, internal Nomex reinforced
Weight complete nozzle kit	3,9 kg (Ø 160 mm), 3,5 kg (Ø 125 mm)	8.6 lb (Ø 6.3 in.), 7.8 lb (Ø 5 in.)

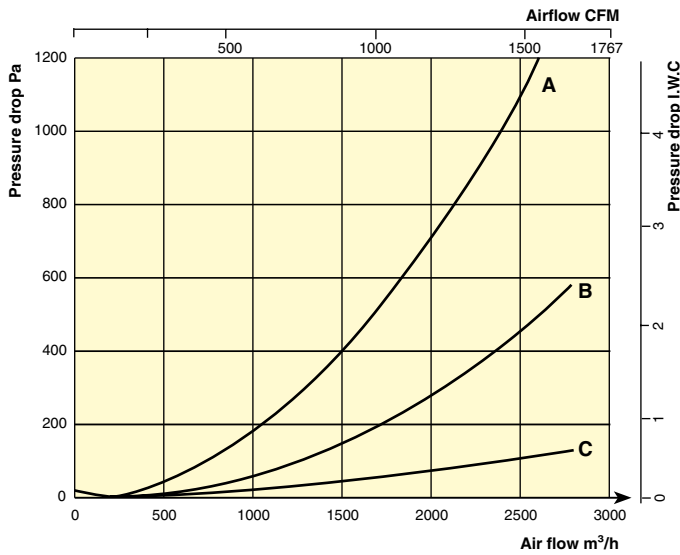
### Pressure drop for complete suction unit North American version



### Pressure drop for complete suction unit International version



### Pressure drop Blindotubo 920

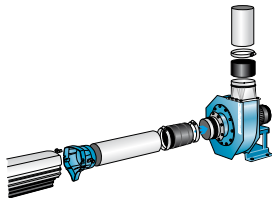


A= Top connection, Ø200 mm  
 B= Side connection, Ø160 mm  
 C= Blindotubo 920, per metre (10 Pa/m ≈ 0.012 i.w.c./ft)

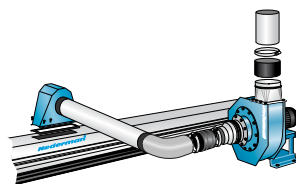
### Environmental data

Recycling level	100 %
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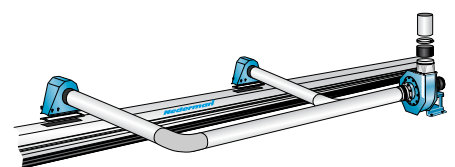
### Fan connection alternatives



**Side connection up to 1200 m<sup>3</sup>/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 m<sup>3</sup>/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 m<sup>3</sup>/h (1414 cfm)**  
 Top connection with two or more cones (option). Connection Ø 200 mm (8").