

PTS - Pneumatic Track System

**Exhaust extraction system for emergency stations
with need for full interchangeability between vehicles**

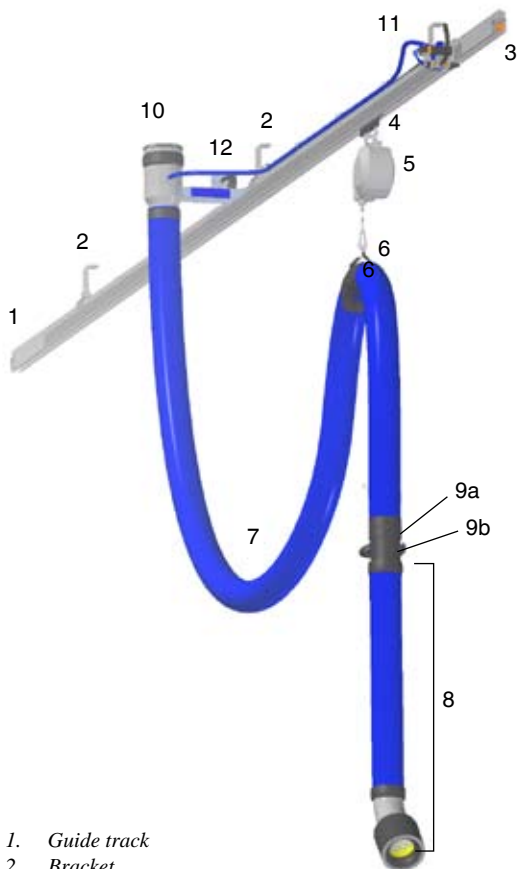


PTS, the Pneumatic Track system, is suitable for stations where vehicles vary from time to time. The system is based on a nozzle expanded by compressed air, fixing and sealing the nozzle tightly round the tail pipe. PTS is supplied with a choice of two different sized nozzles to fit the most common types of tail pipes. A quick coupler makes it easy to interchange the nozzles.

PTS offers:

- Air vent for quick and safe getaways
- Safety coupling in case of faulty operation
- Nozzles to suit all types of vehicles
- Grip for ergonomical handling
- Exhaust hose with integrated compressed air hose
- Pressure sensor with quick reaction and easy calibration

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



1. Guide track
2. Bracket
3. End stop
4. Sliding block
5. Balancer
6. Hose suspension
7. Upper exhaust hose
8. Nozzle kit
9. Safety coupler (female 9a + male 9b)
10. Integrated pneumatic air hose
11. Disconnection valve
12. Pressure sensor (option)

PTS - Pneumatic Track system			
Complete with track (1), Brackets (2), End stop (3), Sliding block (4), Balancer (5), Hose suspension (6), Upper extraction hose (7), Safety coupler (female 9a), Upper air supply hose (10)			
Track length m / ft	Upper hose length m / ft	Hose Ø mm / inch	Part no
6 / 19.7	5 / 16.4	100 / 4"	20807564

Nozzle kit for PTS (8)				
Complete with Nozzle, Lower extraction hose, Lower air supply hose and safety coupler (male 9b).				
Nozzle Ø mm / inch	Exhaust pipe Ø mm / inch	Length incl. lower 4" hose m / ft	Grip length mm / inch	Part no
160 / 6.3"	70-125 / 2.8-5.0	1.0 / 3.2	120 / 4.7"	20867161
125 / 5.0"	50-85 / 2.0- 3.3	1.0 / 3.2	100 / 4"	20867061

Accessories	Part no.
Pressure sensor, auto start (12)	20807864
Radio Transmitter, auto start / stop	20801369
Radio Receiver, auto start / stop	20802669

For choice of Nederman fan and operational box, see separate brochure.

Technical specification

Track

Material	Aluminum
Length	5.9 m (5 x 1.18 m)

Sliding block

Material	Polyeten
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Balancer

Lifting force	140 N
Length of use	1.5 m
Material in cord	Steel wire
Material in shell	Composite
Weight	3 kg

Hose suspension (saddle)

Material	Rubber
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Exhaust hose, upper

Temp. resistance	-40 to +150°C cont.
Material	Rubber with steel helix
Length	5.0 m
Dimension Ø	100 mm / 4"
Weight	0.74 kg/m

Exhaust hose, lower

Temp. resistance	-40 to +150°C cont.
Material	Rubber with nylon helix
Length	0.8 m
Dimension Ø	100 mm / 4"
Weight	1.15 kg/m

Nozzle

Material hood	Rubber, internal kevlar reinforcement
Material bend	Galvanized sheet metal
Weight complete nozzle kit	3.9 kg (Ø 160 mm), 3.5 kg (Ø 125 mm)

Safety coupler

Pneumatic valve. Rubber handle for easy operation of hose.	
Manual switch for nozzle	
Material	Polypropene
Release force	Adjustable, preset at 50 kp
Weight	1.0 kg

Pneumatic air hose

Material	Rubber
Dimension Ø	8 mm
Length	11 m
Temperature	≥ 150°C
Weight	0.17 kg/m

Disconnection valve

Material	Steel
Supply pressure	8-10 bar
System pressure	1 bar

Pressure sensor

Material	Cover of composite
Recommended preset	
-large vehicle engines	60 Pa
-smaller vehicle engines	40 Pa

Total weight

Complete extraction unit with	
- small nozzle	14.5 kg
- big nozzle	14.9 kg
including Sliding block (4), Balancer (5), Hose suspension (6), Lower and upper exhaust hose (7), Nozzle kit (8), Safety coupler (9), Lower and upper air supply hose (10)	

Complete track	2.2 kg/m
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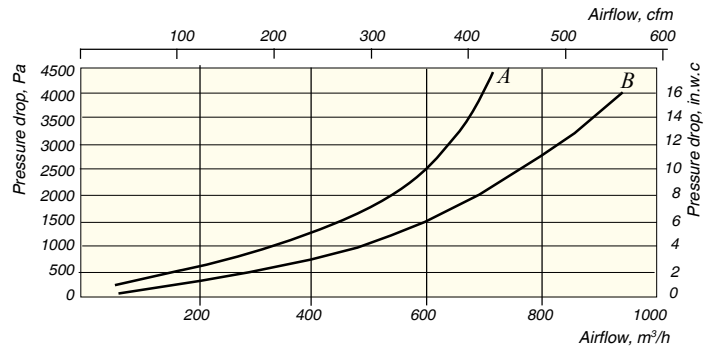
System specifications

Pressure	1 bar
Temperature resistance	
- Continuous	+120° C
- Intermittent	+150° C

Environmental information

Recycling level	100 %
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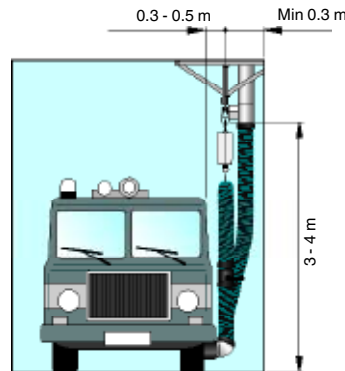
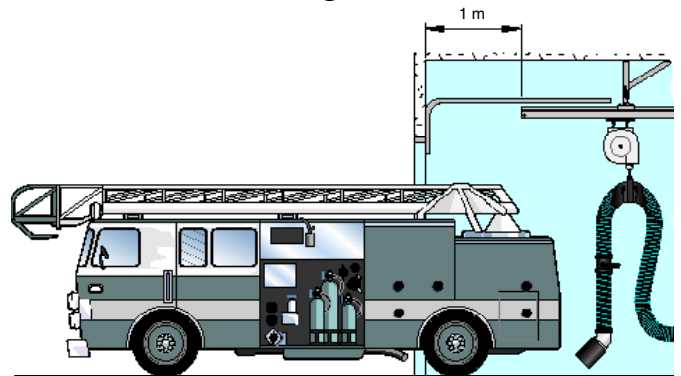
Pressure drop with suspended hose



- A. With hose, hanging in loop (parking position)
 B. With hose pulled out (exit position)

Airflow recommendation:
 600 m³/h
 (350 cfm)

Installation/mounting



Nederman

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