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**RENAULT  
TRUCKS  
DELIVER**

# ALL ABOUT EXHAUST SILENCERS

**RENAULT  
TRUCKS  
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PRODUCT  
TECHNICAL AND COMMERCIAL KNOWLEDGE

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Renault Trucks SAS with a capital of 50 000 000 € - 954 506 077 RCS Lyon - Crédit photos : © Renault Trucks - 04/2017 - C&Bproject



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# FACT

**Genuine Renault Trucks silencers are designed from the outset as an integral part of the vehicle, and as such are fine-tuned to suit the environmental requirements of the driver and the authorities, as well as the engine's operating conditions.**

When you choose Genuine Renault Trucks' silencers you know that your vehicle will meet current legal requirements. What is more, the engine works with exactly the intended back-pressure, which in turn gives the lowest possible fuel consumption, So it really does pay to work for a good environment. These silencers are used for vehicles without an engine after treatment system.

FEATURES	BENEFITS
Casing and connection pipes with a surface coating of aluzinc or aluminium.	■ Guarantees optimum service life.
Dome-shaped end-wall.	■ Effective noise-damping and minimum risk of vibration-induced damage.
Automatic welds with very few, but sturdy, seams.	■ Excellent strength and sealing properties.
Precisely dimensioned fasteners and guide pins with exact fit.	■ Increased overall strength and minimised installation times.
Reinforced connection pipes with exact fit.	■ Withstands harsh vibration during forced driving.
Dual shells.	■ Reduced noise radiation from the casing.
Well-matched perforations along the inner pipe.	■ Excellent sound-damping efficiency and intended pressure reduction.
Specially compounded absorbent material.	■ Long-lasting qualities regarding noise level and correct backpressure.



## IN NUMBERS

A silencer with 10 kPa increased back-pressure will result in:

- 1% higher fuel consumption.
- 35% more smoke.
- 5 hp lower engine power.
- 25 degrees higher exhaust temperature.

## TOUGH WORKING CONDITIONS

A silencer is subjected to vibration of up to 20 G, pressure pulses of up to 15 kPa, heat stress and thermal fluctuation between about -40C and +500C, and corrosion caused by road spray, salted roads and aggressive exhaust gases.

Genuine Renault Trucks' silencers are subjected to a battery of tests to verify their quality and the strength of the design, including punishing treatment in a shake rig and engine rig, as well as field tests and life-endurance tests on the road. In addition, our silencers are leakage-tested to eliminate any risk of exhaust gases penetrating into the cab.

## MEET ALL REQUIREMENTS

Fit a Genuine Renault Trucks' silencer with the correct exhaust back-pressure, get more kilometres for every litre of fuel used, at the same time as wear on the turbocharger and valves is minimised and the vehicle always producing maximum power. Both the driver and the environment benefit from efficient silencing, and fuel consumption is kept to a minimum, yet another significant environmental gain.



**MAXIMUM POWER,  
LESS NOISE,  
REDUCED GAZOLE  
CONSUMPTION**

## THE PROMISE OF A GENUINE RENAULT TRUCKS PART

### ENVIRONMENTAL ASPECTS

The silencer must ensure that the vehicle meets the environmental standards such as exhaust and noise emissions imposed by the authorities. For the comfort of the driver the emphasis is on ensuring a well-subdued noise level inside the cab and preventing leakage of exhaust gases into the cab.

### OPERATING CONDITIONS

The silencer must create suitable operating conditions for the engine. For instance, if the silencer produces an unsuitable back-pressure, the result will be increased fuel consumption, loss of engine power and higher emissions of harmful exhaust gases. Improper back-pressure also increases wear on such vital components as the valves and turbocharger.

### ENVIRONMENTAL REQUIREMENTS

International regulations require that the sound level from a truck accelerating at full throttle must not exceed 80 dB(A).

Low-frequency sound can have a negative effect on the drivers concentration behind the wheel, so even such peripheral details as the silencer's attachments and fasteners must be designed with this in mind.

Only with a Genuine Renault Trucks' silencer can you be sure of correctly attenuated sound penetration through to the cab.

### CORRECT BACK PRESSURE

The silencer's exhaust back-pressure must be properly matched to suit engine performance. Non-genuine silencers with poorly matched exhaust back-pressure promote more exhaust smoke, less engine power, higher exhaust gas temperature and increased fuel consumption.

Only Renault Trucks' silencers are designed to provide exactly the right back-pressure to suit Renault Trucks' engines.

## PRACTICAL ADVICE

### MAXIMISE THE SALE

- Pipes clamps.
- Connecting tubes and brackets if corroded.
- Fixations.

### RENAULT FITTED-PART

- One year warranty.
- Fitted by Renault Trucks trained technicians.

### RENAULT TRUCKS 24/7

- Professional roadside assistance 24 hrs a day, 7 days a week, 365 days a year.
- Dedicated to getting customers' trucks back on the road with minimum delay.