

Intercooler

Heat exchanger boosting air-charged engines

The intercooler significantly improves the combustion process in turbo-charged systems, thus increasing the engine power effect.

The main role of the intercooler is to reduce the temperature of the hot air compressed by the turbocharger, before reaching the engine's combustion chamber. This has a significant impact on the charge effect, as the cooled air has a much higher density in terms of air molecules per cubic centimeter. This increases the volume of intake air, resulting in a far better engine output.



PROGRAM FOR
CARS
VANS
TRUCKS

Excellent Cooling Performance

Tubes equipped with turbulators, ensuring better air flow and larger surface to exchange the heat. Compact fin construction with louvres increasing the heat exchange.



Optimized Design

Specially designed core end plates to minimize influence of the mechanical stress thus break-down.

Mechanical and Thermal Stress Resistance

Plastic tanks designed with special reinforcing inner cross-bars and specially strengthened inlets and outlets to protect the tank against stress caused by high temperatures and mechanical tensions.

Perfect Finish

Connections and mounting points are designed with a complete fit for the vehicle layout, enabling a firm and easy installation.

Thermal Stress Resistance

Specially designed side panels with cuts to lower the influence of thermal expansion on the core construction.

Durability

Reinforced plastic tanks, enriched with at least 30-35% fibreglass. No recycled plastics are used in the mixture. All Nissens' truck intercoolers are custom-welded, ensuring an exceptional strong and durable welding seam.

Important to know

- A malfunctioning intercooler causes an engine efficiency drop and can lead to serious damage of the turbocharger, exhaust filters (DPF/FAP) or the entire engine.
- Pay attention to symptoms of a defective or leaking intercooler such as noticeable drop of engine power, increased fuel consumption or unnatural smoke from the exhaust system.
- Intercoolers must always be replaced after the vehicle's turbocharger has failed and whenever a new turbo is installed. Carbonized oil and metal chips from the damaged turbo may clog the intercooler channels, causing the newly installed turbo to fail.

OE Matching Quality

Designed and manufactured towards the aftermarket, while thoroughly tested in accordance to OE requirements. Nissens' intercoolers are submitted to corrosion, vibration, pressure impulse, thermal expansion and thermal performance tests. Easy-handling packaging and excellent protection against transport damages.

Easy Installation

Perfect finish and product fit, enabling a quick and smooth product installation. Whenever needed, additional installation parts included in the product box (First Fit).

Reliability & Performance

Supreme thermal performance and extended lifespan thanks to a number of special features applied for Nissens' intercoolers.

Competitive Range

Competitive range of intercoolers covering the most popular car, van and truck models. Program of more than 520 items covering 1,700 OE numbers and more than 88% of the European car park.