

# CHARGE AIR COOLER DUCTS AND HOSES: INNOVATIVE 3D-MOLDED, CUSTOM-FIT SOLUTIONS BUILT FOR STEADY AIRFLOW PERFORMANCE

Cooper Standard provides innovative, customizable air charged cooler hoses and ducts as crucial elements of a vehicle that can withstand high temperatures and ensure reliable vehicle engine performance. Solutions are designed to maintain steady airflow and minimize pressure losses during the cooling and heating process, addressing in-take demands of modern, advanced air-cooling systems. We differentiate ourselves by the way we create CAC hoses, using digital analysis tools to size and fit before the need for a physical part.

Special formulated, sustainable alternatives can be used to construct these components, without sacrificing durability of the material. The use of sustainable alternatives and less material can also help solve common engineering constraints in space, weight, heat and vibration that ultimately can lead to vehicle design improvements. Lightweighting supports reductions in overall vehicle mass, faster assembly and better thermal insulation of the vehicle. Depending on the application, there is flexibility to control the thickness of the fluid component layers, while maintaining a sturdy foundation.

With state-of-the-art manufacturing processes, technology and rigorous testing, molded ducts and hoses are delivered with the highest standards of excellence. The production of these innovations involves sophisticated digital analysis and processes, including 3D modeling, and injection molding. Reliable sealing and leak prevention testing are part of the essential steps for maintaining system efficiency, delivering consistent performance across applications.

## Features:

- Complex shapes are available in a variety of materials
- Ease of integration, molding and assembly
- Minimized pressure drop performance
- Single and double-layer material blowing capabilities
- Part integration (i.e. mandrels)
- Excellent temperature regulation
- Chemical and pressure resistance

This solution is particularly well-suited for gasoline or diesel turbocharged engines, as well as air-to-air or air-to-water intercooler systems. The duct designs can be customized to include inlet, outlet, or dual-path configurations, depending on the specific requirements of the vehicle system. The ability to adapt to various shapes and configurations ensures routing flexibility, whether for engines or intercooler systems, and a perfect fit for their applications.

A partnership with Cooper Standard means investing in high-quality solutions that not only enhance vehicle performance but also meet the evolving demands of the automotive industry. With a commitment to innovation and excellence, Cooper Standard's air charged cooler hoses and ducts are designed to provide optimal airflow and reduce system weight, ensuring that manufacturers can deliver efficient and reliable vehicles by system analysis and material selection.

To learn more, visit our product page at: <https://cooperstandard.com/charge-air-cooler>

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