

Coolers and cooling modules for the automotive industry



Mercedes G-Class



Its distinctive design embodies individual class across the board. The AMG G 65 is the most powerful G model, which is the first model in the G series with a 12-cylinder engine.

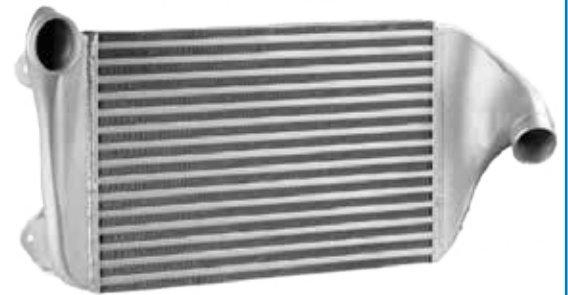
For this elite off-road vehicle AKG has developed and produced a charge-air cooler and a radiator, along with an auxiliary radiator and an auxiliary oil cooler, which are precisely coordinated with each other to keep the vehicle at the optimal operating temperature.

Basic vehicle data:

Type	: e.g. AMG G 65
Engine	: AMG 6.0 liter V12 BiTurbo
Rated power	: 463kW (630 HP) ; 1000 Nm at 2,300 - 4,300 rpm
Top Speed	: 230 km/h (approx. 143 mph)
Acceleration 0-100 km/h	: 5.3 sec.
Equipment supplier:	: AKG since 2001



Radiator



Charge-air cooler



Auxiliary radiator



Auxiliary oil cooler

Audi quattro GmbH R8



The R8 is a sports car in the Audi quattro GmbH line that has a 10-cylinder mid-engine. The Coupé offers, in combination with the quattro all-road drive, rapid acceleration and excellent traction under any weather conditions or on curvy roads. As an Audi supplier of many years, AKG is building two high-performance transmission oil coolers for a very small space, which cool the transmission of the sports car to the perfect temperature without any loss in performance.

Basic vehicle data:

Type	: Audi R8 V10 plus 5.2 FSI quattro
Engine	: 5.2 liter V10 diesel engine
Rated Power	: 449kW (610 HP) ; 560 Nm at 6,500 rpm
Top Speed	: 330 km/h (approx. 143 mph)
Acceleration 0-100 km/h	: 3.2 sec.



Transmission oil cooler



Transmission oil cooler



- Short development times for the radiators and cooling modules
- Large diversity of radiator fins for the specific application to meet the required performance data
- Integration of components in installation-ready modules

Aebi Schmidt Cleango 500 CityJet



The Aebi Schmidt *Cleango 500* is a compact sweeper made by Aebi Schmidt. The *Cleango* is used for street cleaning in municipalities and industrial areas and has a disc brush system under the driver's cabin. The cooling module that is used is specially designed for cleaning vehicles to ensure optimal cooling performance.

Basic vehicle data:

Type	: Aebi Schmidt Cleango 500 CityJet
Engine	: 6-cylinder diesel engine
Rated Power	: 105 kW (142 HP)
Top Speed	: 50 km/h (approx. 143 mph)



Radiators, charge-air and oil coolers with fan cowl, fan and hydrostatic drive

Mercedes Econic



The Mercedes Econic is a widely used and popular truck that can be used for a wide range of tasks because of its variable body options. With its BlueEFFICIENCY Power engine, it is compliant with emissions standard 6 and yet does not have to compromise on engine performance. AKG is a competent partner in innovative and high-performance cooling systems and guarantees optimal cooling performance with the cooling module being used.

Basic vehicle data:

Type	: Mercedes Econic 2635 LL
Engine	: 6-cylinder 7.7 Liter diesel motor 936 LA
Rated Power	: 260 kW (354 HP) ; 1,400 Nm at 1,500 rpm
Gross vehicle weight	: 26 tons



Radiator / charge-air cooler

Electro and hybrid

- AKG develops high-performance cooling systems for electric drives
- Development of a cooling system for lithium-ion batteries through evaporation cooling (coolant)
- Development of cooling for electric vehicles and fuel-cell vehicles

Cooling systems

Charge-air coolers/ A charge-air cooler cools process air water-cooled for the engine **charge-air coolers:** to create a denser mass of process at equal volume (increased density).

Radiators/ HT/NT: A radiator cools the cooling medium.

Oil coolers: Oil coolers are used for cooling transmission, hydraulic and motor oil, as well as fuel. Here AKG offers several product types.

Condensers: Condensers are used for cooling the coolant.

Add-on parts: Depending on complexity, AKG also supplies a fan, fan controller, hydraulic components, cowls, frames.

Advantages of AKG cooling modules and systems:

- System supplier for high-performance cooling systems
- Reduction of the development and assembly scope for our customers
- Advantages through the reduction of costs, installation space and weight
- New ways to simplify assembly and logistics for our customers
- Complete responsibility for modules and systems
 - Technology competence
 - Service orientation
 - Handling of the entire value chain
 - Fulfillment of all technical requirements
- Competence and Resources
 - Design and simulation software
 - Extensive testing equipment and cutting-edge measurement technology
 - Advanced project management (APQP)

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