

Electronics Cooling



Cold plates / liquid cooled heat sinks

Its brazed and robust design features essential thermal as well as mechanical advantages for cooling of power semiconductors:

- Optimal and individual thermal dimensioning
- Minimum thermal resistance between cold plate surface and fluid by the use of special turbulators
- High flexibility in design of coolant flow and fitting position
- No deformation by pressurization
- High coolant temperature allows use of space saving and efficient radiators



Cabinet coolers

AKG offers tailor-made solutions as air to air or air to coolant system. Due to the variety of available fin geometries we can adjust the heat exchangers individually.

The following properties are convincing:

- Safe separation of outside and cabinet air for protection class IP65/66
- Maintenance free
- Excellent heat transfer with low pressure drop
- High design flexibility for medium flow paths



Radiator

AKG projects and supplies the major components of the cooling circuit for your application from a single source: heat sinks, pump unit and radiator. Therefore we preferably use parts from our standard series.

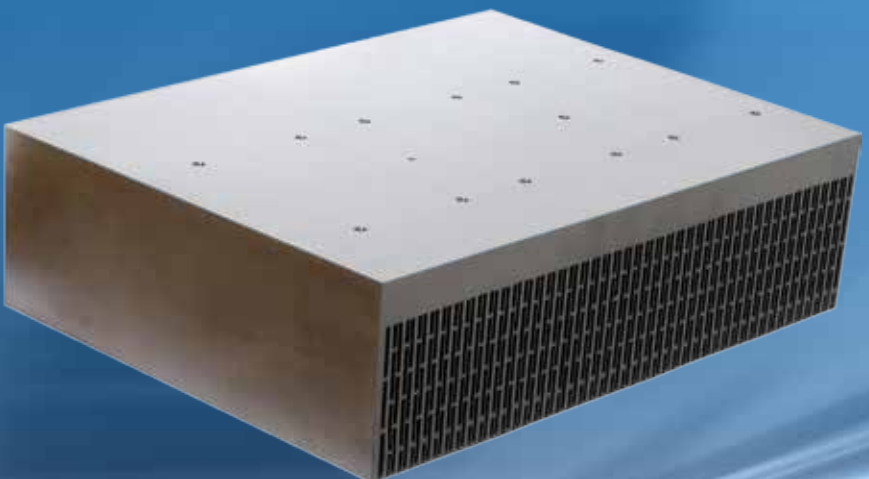
If necessary we size the radiator individually for your operational conditions to ensure the best possible efficiency in your system.



Air cooled heat sinks

High performance heat sinks made of aluminum for cooling electronic devices with forced convection. On the basis of customer specification we determine the optimally suitable design. The used joining methods are brazing as well as gluing with pressing. In doing so we leverage inherent advantages of our designs ideally:

- High geometric flexibility
- Excellent heat transfer characteristic and heat spreading with minor air side pressure drop
- Very tight fin pitch possible
- LPE-line: special profile fins improve performance in the critical rear of the heat sink (“3D-effect”)



Heat sinks for power electronics from an expert cooler manufacturer

Tailor-Made

Customer specific sizing on the basis of comprehensive engineering know how in heat exchanger business

Top efficiency

With each kind of coolant the best possible heat rejection by highest compactness and low pressure drops

Reliability

Over decades of experience in brazing, welding and gluing of aluminum in combination with state of the art production and testing processes result in reliable and long living products

Global footprint

14 production plants and offices worldwide

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