

FORMULA E1

PRODUCT INFORMATION

AKG-Line is a standard line of products from the market leader in high performance cooling systems. AKG is best known for its worldwide presence, German engineering and extremely reliable product quality on the one hand and very competitive prices on the other hand.

All of AKG's solutions have been developed with state-of-the-art technology, produced in compliance with the highest quality standards and are comprehensively tested in the company's own research and test facility.

FEATURES OF FORMULA E1

- Cooler especially optimized for cooling of Formula Student electric vehicles.
- Cooling element made of aluminum and tanks of plastic.
- The heat is transferred from the medium to the cooling ambient air.
- Cooler can be universally used in water- and coolant circuits.
- Suitable for a wide range of cooling mediums.
- Can be exposed to operating temperatures up to max. 95 °C and operating pressures of up to 1,5 bar

BENEFITS

- Compact design und best heat transfer results per given cooler size due to comprehensive research and development and experiences during many years of participation in Formula Student.
- Available from stock or at short notice from our partner in the service business „Willi Rath KG“ ([www.kuehler-rath.de](http://www.kuehler-rath.de)).
- A quick and easy estimation of the cooling performance to get by easy sizing diagrams.

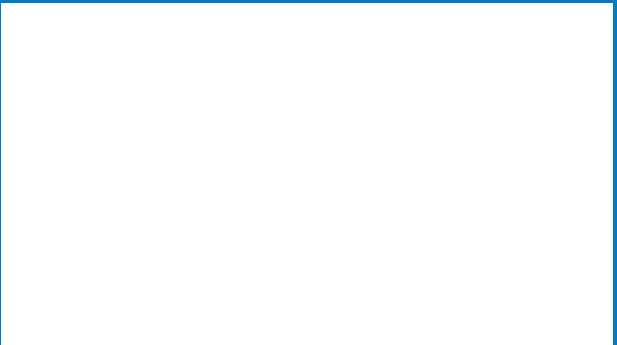


AKG – A STRONG GLOBALLY INTEGRATED GROUP OF COMPANIES

AKG is a globally leading supplier of high-performance coolers and heat exchangers as well as customised system solutions that comply with the highest quality standards.

On a world-wide scale 2,300 employees work at 12 manufacturing facilities located in Germany, France, United Kingdom, Latvia, the U.S.A., China, Brasil and India. Together with a number of additional oversea sales companies they are on duty around the clock.

Your AKG-Partner



The longstanding and competent partnership with global OEM customers from 22 lines of business such as construction machinery, compressed-air systems, agricultural and forestry machines, vehicle construction and many other fields of application give fresh and innovative impetus to the mobile and industrial standard type series.

AKG operates one of the world's largest research, development, measurement and validation centres for cooling solutions and customised applications.

AKG's heat exchangers have stood for innovative solutions as well as highest engineering and manufacturing competence for more than 95 years.

Aluminium Coolers – Made by AKG  
DIN EN ISO 9001



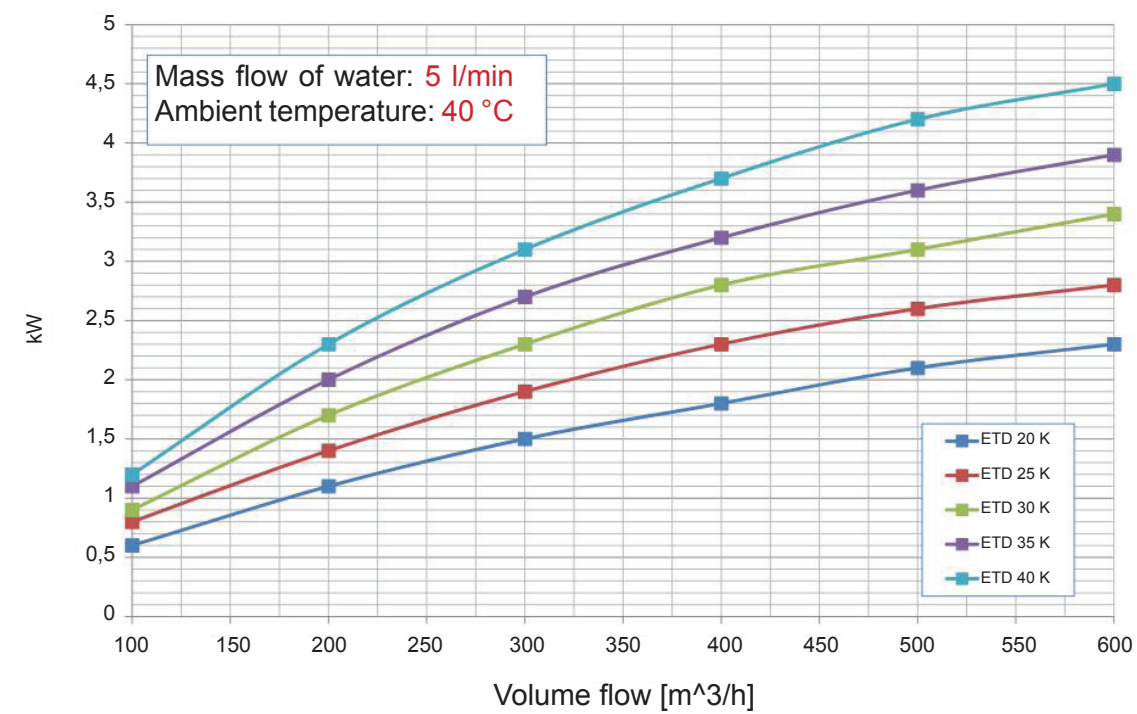
© AKG 01/2018 (changes and errors expected)



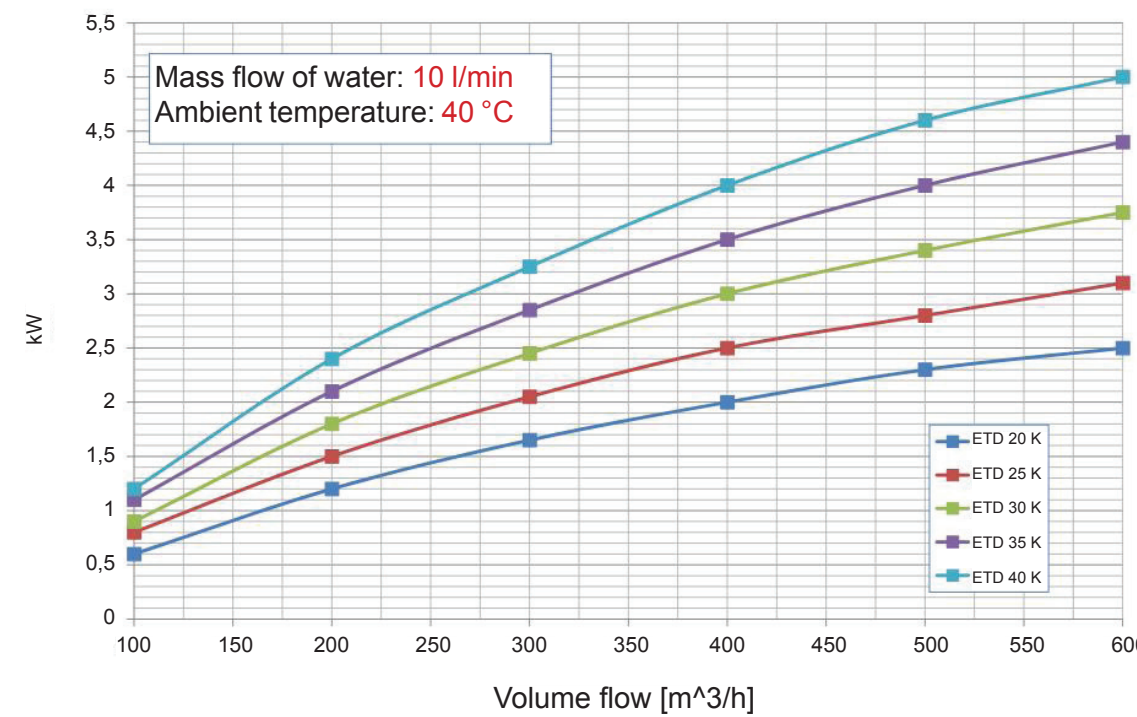
## — COOLER DIMENSIONS

Definition of Entrance-Temperature-Difference (ETD) = Coolant Inlet Temperature – Ambient Temperature; Ambient Temperature = 40 °C (as example). For lower ambient temperatures the ETD will be higher.

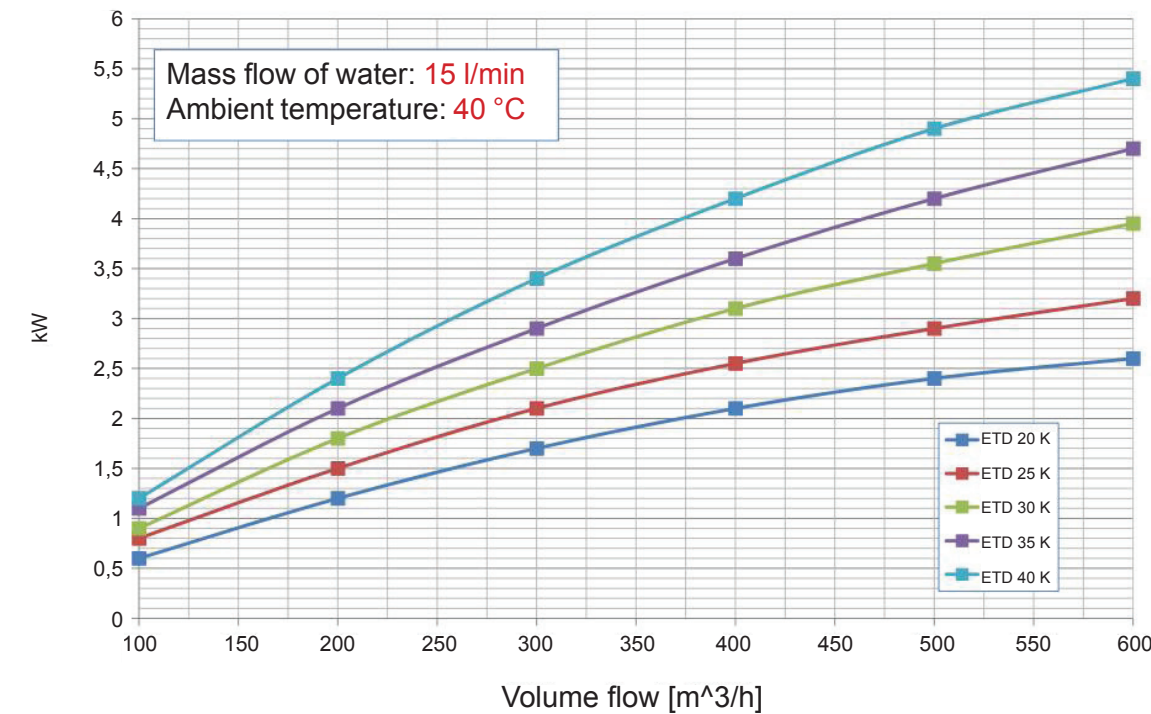
**FOR MASS FLOW OF WATER 5 l/MIN**



**FOR MASS FLOW OF WATER 10 l/MIN**



**FOR MASS FLOW OF WATER 15 l/MIN**



**FOR MASS FLOW OF WATER 20 l/MIN**

