DAU has developed a system of liquid cold plates for high power applications.

Due to a simple assembly method, a number of different heat sink types can be manufactured.

The EASY SYSTEM has been designed especially for IGBT Units. The desired length and number of mounted IGBT units is customer specific. The position of the waterchannels have been designed so that 98% of all available semiconductors can be mounted as well.

The following pages show various possible combinations.
Easy System for
Water Cooled Heat Sinks

Type-Overview

Style 1

Style 2

Style 3

Style 4

Style 5

Style 5.1

Style 6

Style 6.1

Style 7
Easy System

Water Cooled Heat Sinks

Mechanical Dimensions

Profile

Series KW 140

Series KW 188

Series KW 200

Series KW 215

Endpieces

Abmessungen

Dimensions of Profile | Rohmaß vom Profil
Easy System for Water Cooled Heat Sinks

Example KW 140 Style 4
The shown $R_h$ and pressure drop values are correlated to a length of 450 mm. Temperatures are measured directly under the 130 x 140 mm IGBT module with a power dissipation of 1000 Watt and water inlet temperature of 40°C.

Example KW 140 Style 5
The shown $R_h$ and pressure drop values are correlated to a length of 450 mm. Temperatures are measured directly under the 130 x 140 mm IGBT module with a power dissipation of 1000 Watt and water inlet temperature of 40°C.
Example **KW 188 Style 5**
The shown $R_h$ and pressure drop values are correlated to a length of 220 mm. Temperatures are measured directly under the 190 x 140 mm IGBT module with a power dissipation of 1650 Watt and water inlet temperature of 40°C.
Easy System for Water Cooled Heat Sinks

Example KW 200 Style 4
The shown $R_h$ and pressure drop values are correlated to a length of 400 mm. Temperatures are measured directly under the 140 x 190 mm IGBT module with a power dissipation of 1000 Watt and water inlet temperature of 40°C.

Example KW 200 Style 6.1
The shown $R_h$ and pressure drop values are correlated to a length of 400 mm. Temperatures are measured directly under the 140 x 190 mm IGBT module with a power dissipation of 1000 Watt and water inlet temperature of 40°C.
Example KW 215 Style 5
The shown $R_h$ and pressure drop values are correlated to a heat sink length of 340 mm. Temperatures are measured directly under the IGBT module with 3 chip plates 141 mm x 53 mm with a power of 3000 Watt and water inlet temperature of 40°C.