

## Pressemitteilung    Press Report Communiqué de Presse

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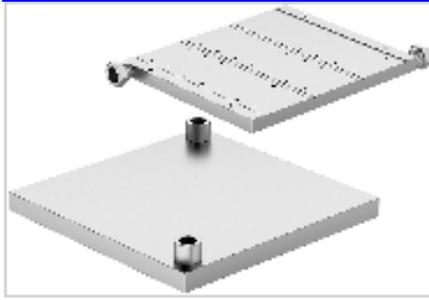
### New fluid coolers

For dissipating heat of particularly powerful electronic devices the use of fluid heatsinks is worthy of consideration beside an active heat dissipation method by means of so-called high performance cooling aggregates. The efficiency of fluid coolers with cooling medium water is physically and thermotechnically very good and very efficient. Looking solely to the specific heat capacity of water with 4,182 kJ/kg×K this is 4 times bigger than air whereby the fluid cooling in comparison to other cooling concepts has to be clearly emphasized. Due to the numerous positive characteristics of fluid coolers company Fischer Elektronik extends the comprehensive product portfolio by two more designs with the part numbers FLKI 295 and FLKI 400 G 400. The I-perfused fluid coolers are completely made of the material aluminium, including the G3/4" hose connections and also have an internal three-dimensional heat exchange structure. This displaced lamella structure is thermally conductive connected with the basis and the mounting panel of the device and provides a very good thermal transport from the device to be cooled into the flowing liquid. At a minimum flow loss also a homogeneous perfusion of the fluid cooler is guaranteed by the heat exchange structure. The article FLKI 295 is specially made for the high power converters PrimePackTM3 and already contains M5 mounting threads for a direct mounting of the modules. The mounting plates, which are intended for the component assembly, ensure an optimum heat distribution and are also precisely milled flat. Moreover they allow a free placement of the devices. To avoid the known pitting corrosion respectively to avoid a dissolving of the material the use of corrosion inhibitors (cooling protection) is recommended for materials made of aluminium. A water/glycol mixture with a percentage allocation of 50/50 is recommended for the application. With article number FLKR 1 an adapted re-cooling system is also available. This consists of a centrifugal pump as well as a re-cooler with a fluid-carrying pipe system with air fins and electrically driven fan. Additional mechanical treatments, modifications or special designs are realized according to customer's specifications.

Please contact us, for further information and inquiries the product experts of Fischer Elektronik are pleased to be at your disposal, also at [www.fischerelektronik.de](http://www.fischerelektronik.de).

Our service enables you to download the photoprint version (300dpi) :

[https://www.fischerelektronik.de/PM/FLKI295\\_400fischerelektronik.jpg](https://www.fischerelektronik.de/PM/FLKI295_400fischerelektronik.jpg)



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