



# Liquid heat sinks

## The high-end cooling solutions

When high-performance processors produce more heat than passive or fan-based active cooling solutions can handle, cold plates are the preferred cooling solutions. They dissipate more heat in a very short time than any other cooling system.

Liquid cooling systems are as unique as their applications. Typical configurations consist of system with aluminium cooling plates and embedded copper, aluminium or stainless steel tubes, liquid heat sinks with extruded or core drilled cooling channels as well as designs featuring top and bottom plates joined using friction stir welding. Heat sink variants made of high-temperature brazed aluminium, optionally with integrated turbulators, are also available. Die-cast heat sinks with pressed-in or integrated cooling channels are particularly suitable for high-volume products.

More infos:



### Advantages at a glance:

- Highest heat sink performance class
- Extremely high performance density
- Up to 25 % more effective than fan-based cooling solutions
- Small transmission area
- Directly affects the hotspot
- Application-specific manufacturing processes



High-performance



Individual



Optimal

# KEEP IT COOL

## Expert thermal management for your electronics

More infos:



CTX is specialised in perfectly fitting active and passive cooling solutions for electronics for more than 25 years. We implement application-specific cooling units and cooling electronics housings for our customers from almost every field of industry. Our wide product range makes us to one of the leading suppliers in Europe.

We support you from the initial idea to series production when you implement your cooling solution. In the process, we draw on a vast range of manufacturing techniques together with an exceptionally broad supplier base.

Our products are supplied to consignment warehouses and security storages worldwide, using ecologically worthwhile ways of land, sea and air transport. This enables us to guarantee maximum flexibility, quality and delivery reliability at all times.



### Application-specific cooling solutions

Our product portfolio includes profile, high-performance, and liquid heat sinks as well as LED and PCB heat sinks, heatpipe solutions and cooling solutions for embedded systems and industrial computers.



### Enclosure technology

Our enclosure solutions include profile and die-cast enclosures as well as enclosures manufactured using stamping and bending technology. Our product range also includes front panels, technical aluminium parts as well as sheet metal, stamped and bent parts.



### Rotary knobs

In addition to general heat sink accessories, we also distribute more than 6,000 different rotary, special and recessed rotary knobs from the Swiss brand Ritel.