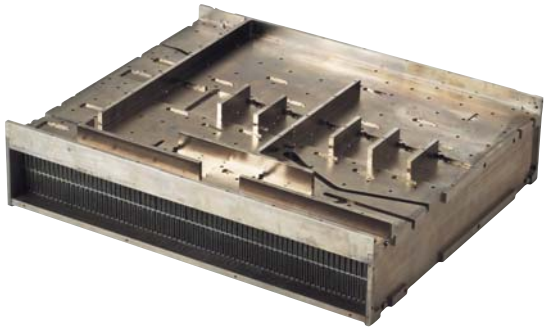
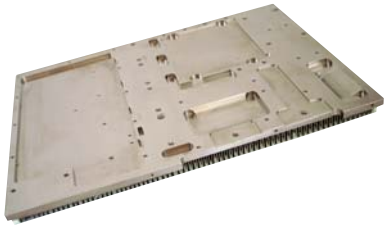
AIR-COOLED HEAT SINKS

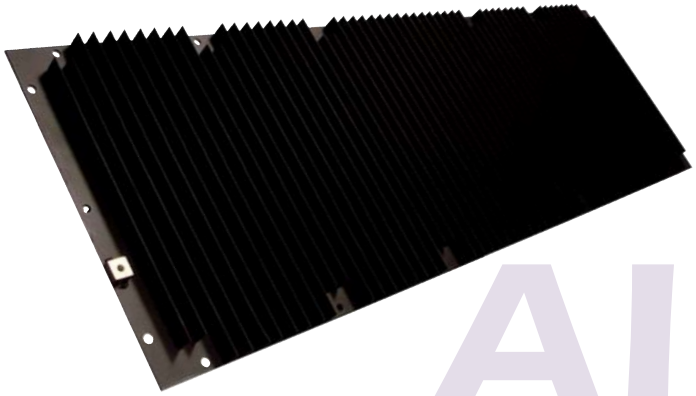
Radiacal® Corrugated: soldered fin

Technology

- Straight or corrugated fins soldered or bonded onto a base plate.
- Surpassing conventional solutions combined with its lightness.



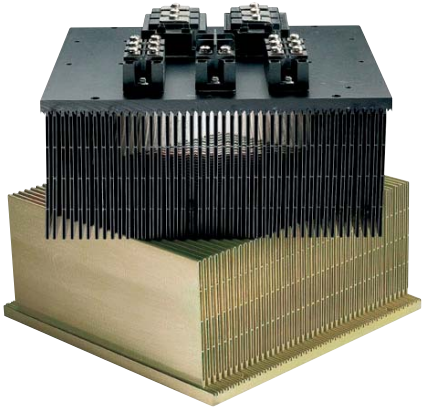




Applications

High power electronics in the aeronautics, telecommunications and traction fields.

Radiacal® FABFIN®: Swaged fin



Ferraz-Shawmut is the European distributor of Fabfin® range (R-theta).
For further information, please request the specific datasheet: "FABFIN® High Performance Air-Cooled Heat Sinks".

DIPHASIC-COOLED HEAT SINKS

Transcal®

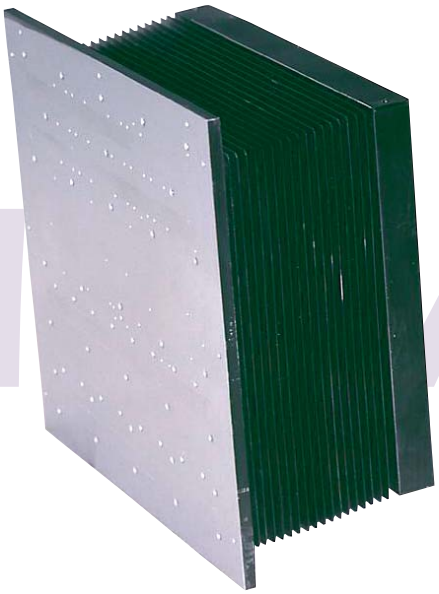
Heat pipe heat sinks

Advantages

- High thermal performance.
- Homogeneity of temperature under components.
- Instantaneous cooling action.
- Limiting temperature peaks.
- Dielectric insulation possible.
- Starting temperature –40°C.
- Easy maintenance.

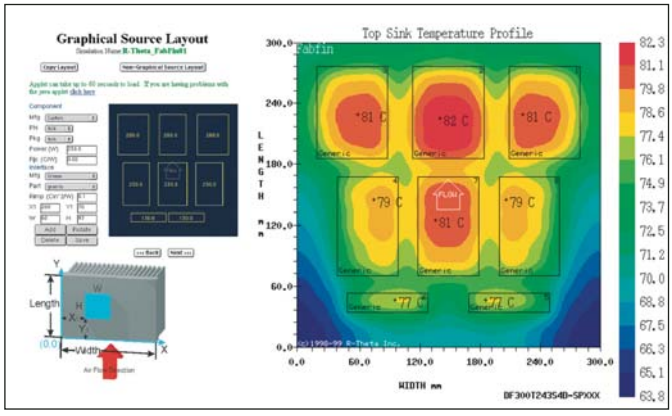
Applications

- More than 20 years of experience in traction, industrial and military applications.
- For the cooling of press-pack or screwmounted modules.



Air and Water simulation tools

Use the free on-line thermal simulation program on the website:
Easy to cool: www.fs-thermalmanagement.com
R-theta: www.r-theta.com



Thermal Management **Moducal®**

Screw-mounted component heat sinks

Technology
(patented)
Vacuum brazing of colaminated aluminium grids enclosed between two covers.
Single or double side cooling.

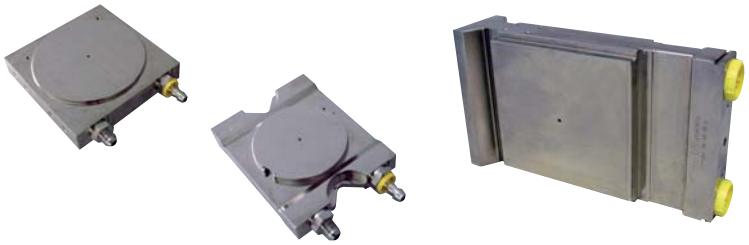
Advantages
- The optimized internal technology offers the highest thermal performance and a low pressure drop.
- The uniform flow distribution guarantees high reliability of your electronic device.

Thermal Management **Calistor®**

Press-pack component heat sinks

Technology
(patented)
Vacuum brazing of colaminated aluminium grids enclosed between two covers.
The grids can be brazed on an aluminium profile.

Advantages
- Same as for the Moducal®.
- The profile is used for the hydraulic fittings, for a tab for electrical connection and as a mounting plate for other components.



Thermal Management **Calitube**

Stainless-steel cooling circuit heat sinks

Technology
Over-moulding an aluminium block around a stainless-steel tube.
The tube is bent into several turns under the components.
Soldered calitubes are also available.

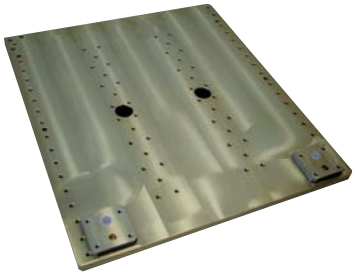
Advantages
- Over-moulding ensures excellent contact between the two materials.
- Stainless-steel enables the use of all types of cooling fluid.
- Single or double side cooling.

Thermal Management **Multical®**

Customized plates

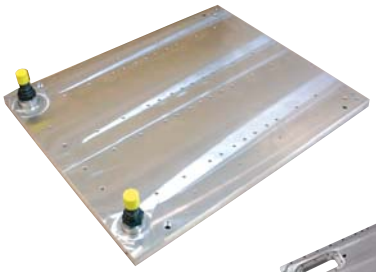
Technology

- Vacuum brazing of a cover on machine tooled cooling circuits.
- Different cooling circuit geometries available.
- Single or double side cooling.
- All dimensions available.



Advantages

- Design able to meet highest technical specification.
- Thermal homogeneity over the entire surface available.
- Hydraulic connectors customized to our customer's design.



WATER

Thermal Management **Syscal®**

Cooling unit groups

Expertise in dimensioning and manufacture of complete cooling loops.

Thanks to our cooling expertise, engineering and integration knowledge, Ferraz Shawmut Thermal Management can offer global thermal systems for applications in traction and industry.