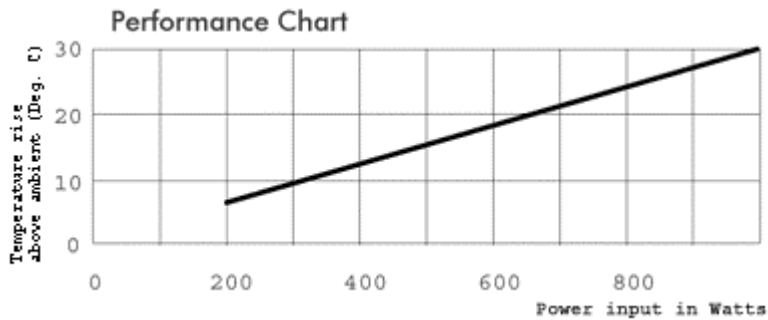
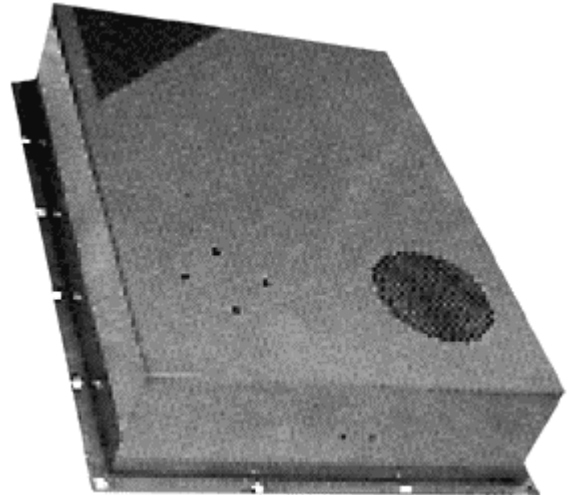


The high density heat exchanger matrix is designed to provide maximum performance from minimum volume, thus allowing greater flexibility in mounting configuration and more space within the cabinet for essential equipment. Consideration has also been given to easy access for maintenance with the provision of a fast release mechanism for the fan assembly.

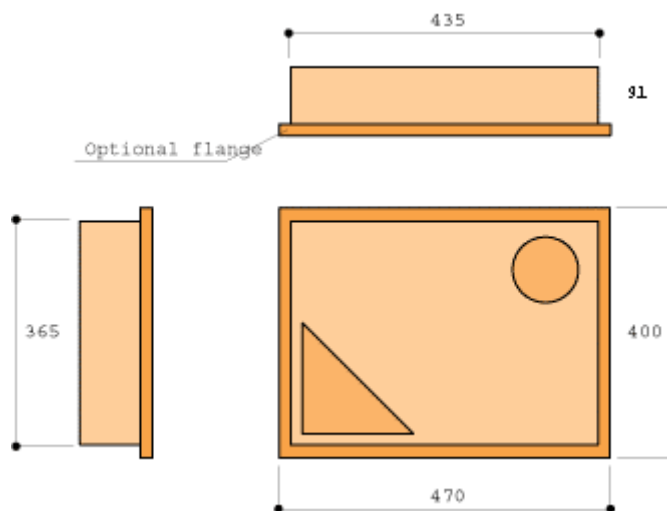
Designed for sealed enclosures the heat exchanger meets IP54 spec.

Flanges and cabinet mounting can be arranged to suit individual requirements.

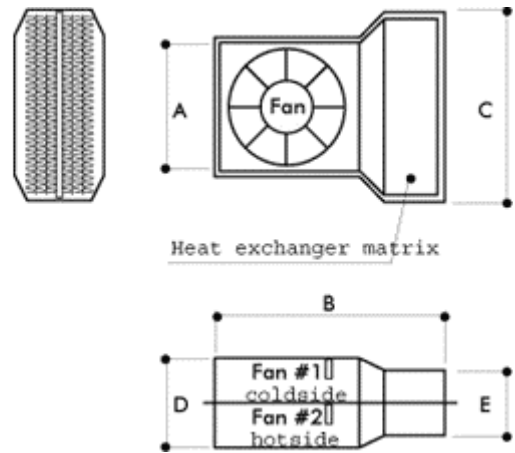
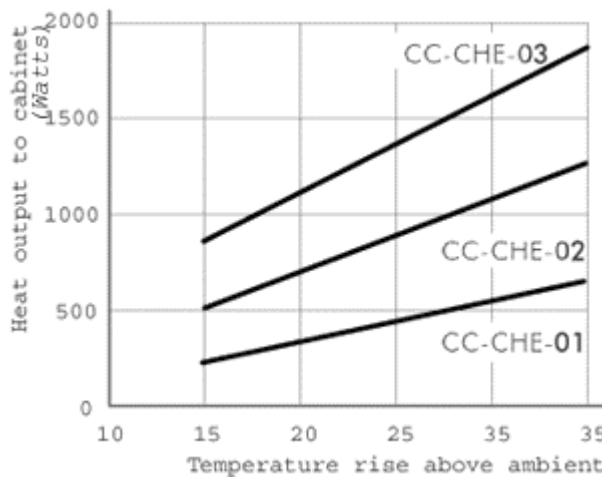
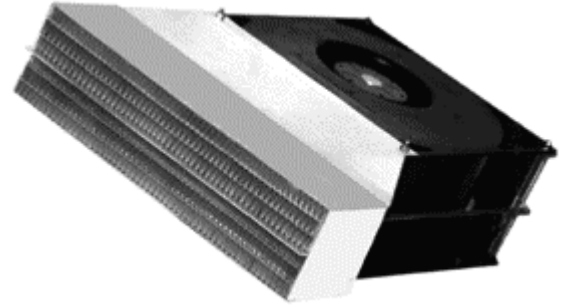
Our design team is always available to discuss your thermal requirements and will undertake a full design study to provide the optimum solution to meet your specific needs.



- Fan voltages are optional from 12v to 48v DC and 110v to 220v AC.
- Power required = 48W for DC fans and 60/62W for AC fans.



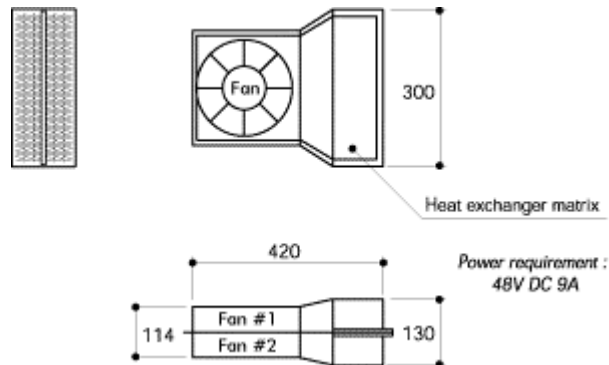
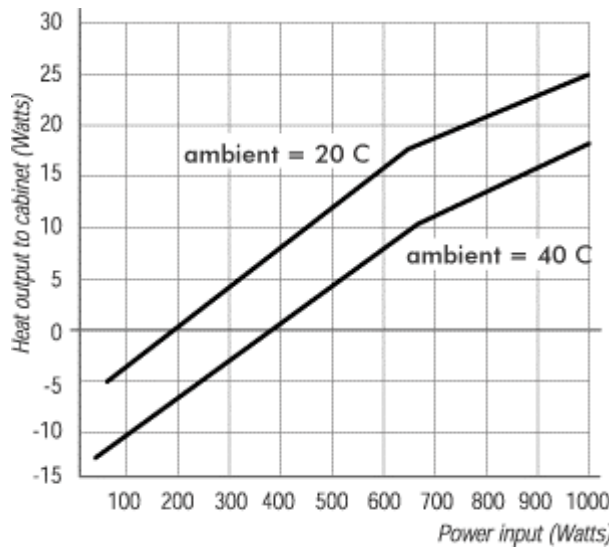
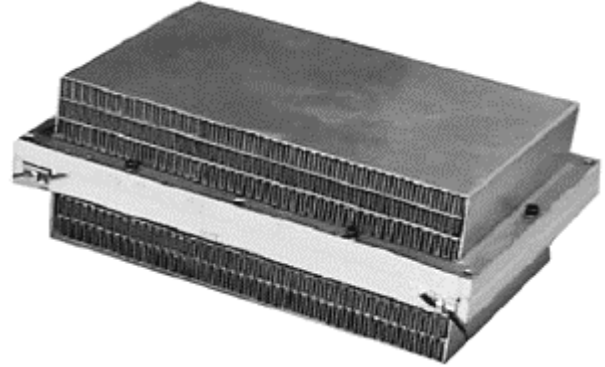
- This is the basic building block which can be easily adapted & configured to suit individual requirements
- High performance aerospace technology
- Compact modular design
- Easy retrofit
- Economical
- Low maintenance
- Custom design service



Heat exchanger type	A	B	C	D	E
CC CHE 01	220	350	296	114	79
CC CHE 02	515	350	591	114	79
CC CHE 03	810	350	886	114	79

The adjacent picture illustrates the basic cooler module which can be easily modified and adapted to incorporate into the users equipment. Our design team are always available to provide expert help and advice at the design stages of a project to ensure that the most efficient and economical thermal management system is incorporated in the early stages of development, thus minimising later delays and costs.

The FS CS-CHE-01, illustrated below, is a simple two fan solid state cooling module which can be supplied in the configuration shown above. If required we will be happy to provide any necessary metalwork to ensure easy incorporation into the user's equipment. The flexibility of our design and the manufacturing process enable us to economically provide a custom design to suit individual requirements.



Designed to fit standard 19" rack systems, this unit is only 2U high.

Ambient air can be vented through the front or rear of the unit, permitting greater flexibility in mounting position within the cabinet.

Peltier thermoelectric devices provide the active cooling element in these environmentally friendly cabinet coolers.

Solid State Cooling.

No Compressor.

Custom Units Available.

HS Marston also design and manufacture cooling solutions which can be integrated into your system for total thermal protection.

The example in the right shows a TV transmitter cooled by a primary loop of demineralised water and a secondary loop of a water/glycol mixture. The heat exchanger matrix is fabricated from stainless steel.

The illustration below shows a cooling system for a high power electronic inverter used in traction applications.

