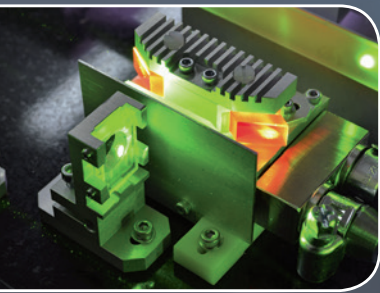
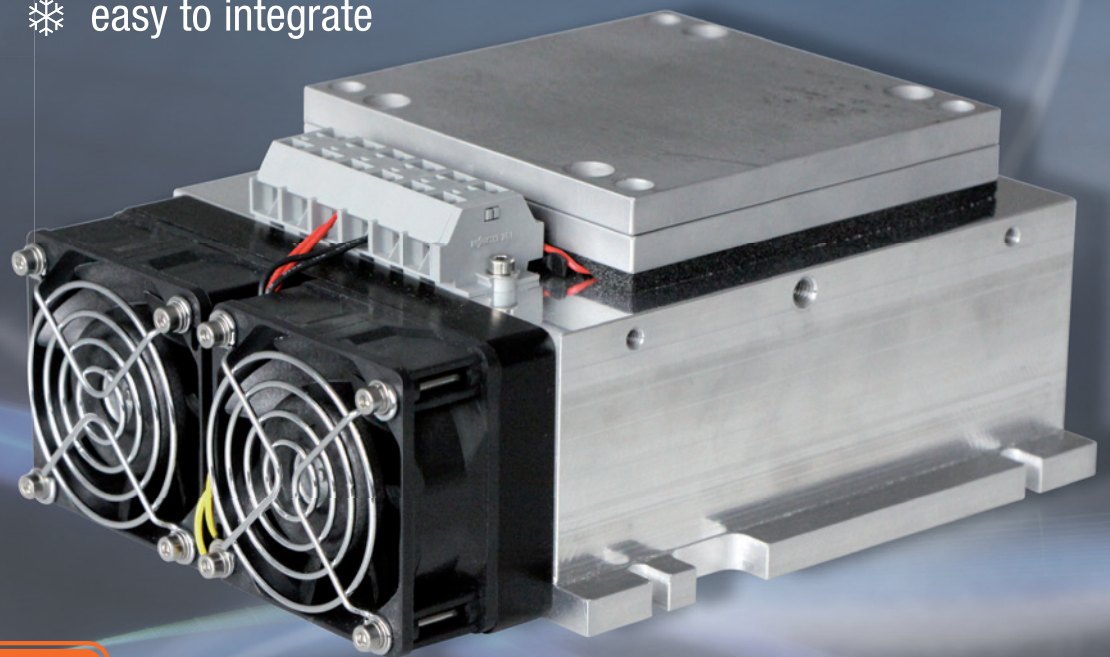


mDC-T-130-24-KIT – plate-to-air cooling kit

mini direct cooling system – thermoelectric



- ❄ for precise cooling of medical and industrial lasers
- ❄ efficient Peltier system
- ❄ allows for excellent temperature stability
- ❄ 130 W nominal cooling capacity
- ❄ low vibration, low noise
- ❄ lightweight, very compact
- ❄ easy to integrate



BUY
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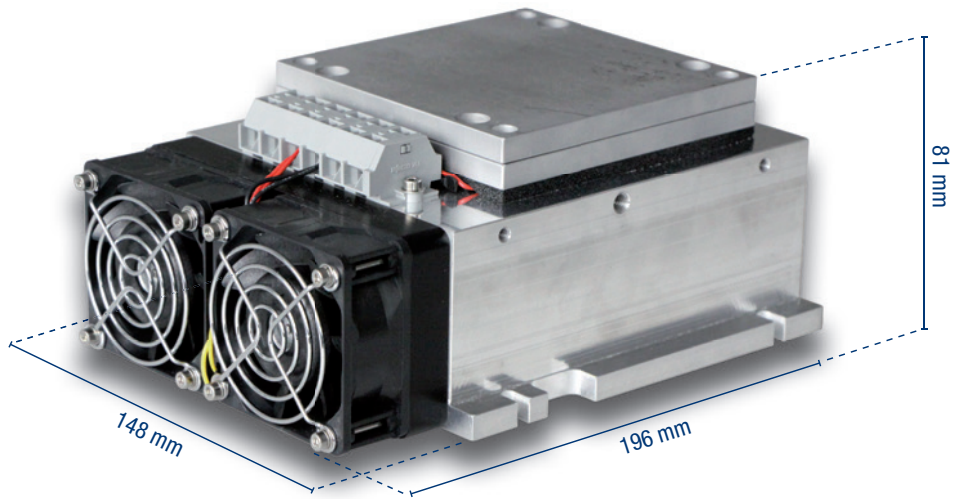


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mDC-T-130-24-KIT – Thermoelectric Plate-to-Air Cooling Kit



The compact thermoelectric plate-to-air cooling unit was developed for precise temperature control of laser diode modules and direct heat transfer to the ambient air. The highly efficient, solid state unit reaches a cooling capacity of 130 W for 24 VDC supply voltage and +25°C on laser mounting plate and +25°C ambient temperature.

specifications, TECs operated at nominal 24 VDC @ 8.2 A

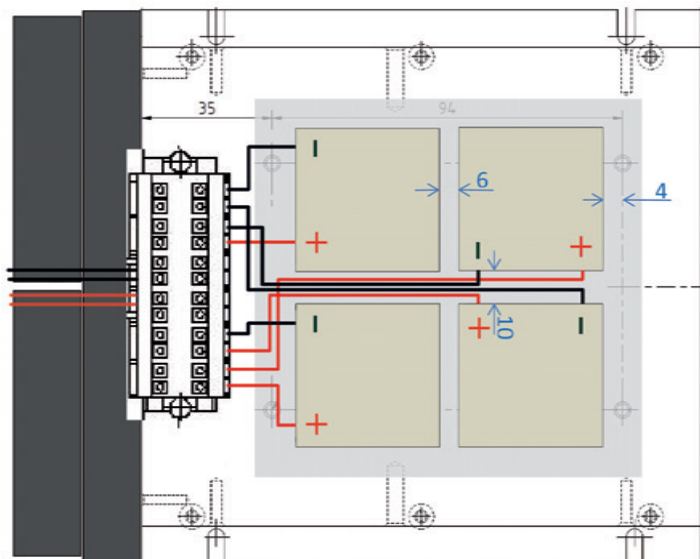
	fans 24 VDC
noise*	max. 49 dB(A)
power consumption per fan*	6 W
nominal cooling capacity	130 W
coefficient of performance	0.57

*manufacturer's data

The thermoelectric plate-to-air cooling unit is equipped with an universal mounting plate which can be removed without need to dismantle the Peltier assembly and is to be prepared by the customer for fixation of individual laser diode modules or other devices to be cooled. Drilling holes and assembly of laser diode module and universal mounting plate shall be done with special care to ensure low thermal resistances at interfaces.

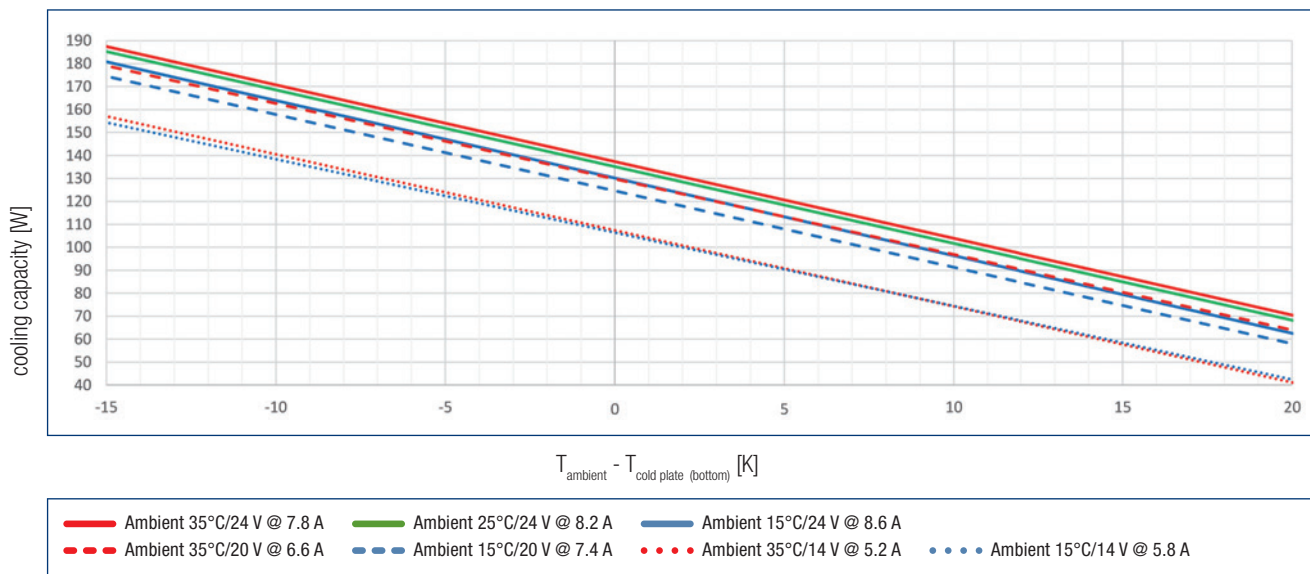
electrical wiring

Picture shows wiring for nominal 24 VDC @ 8.2 A supply. For nominal 12 VDC supply, all four TECs have to be connected in parallel – please contact AMS Technologies for details.

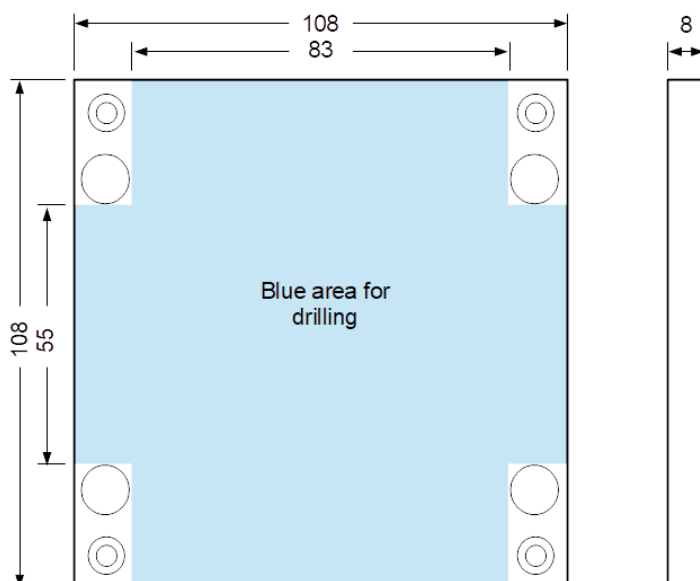


mDC-T-130-24-KIT – performance curve for $P_{el} = 24\text{ V} @ 8.2\text{ A}$

Performance was measured with two heat sources of $86,5 \times 38,5\text{ mm}^2$ each, mounted on top of the universal mounting plate, and is given for the temperature in the center of the fixed bottom aluminium plate.



laser mounting plate



Your laser easily mounted: This user-detachable top plate of mDC-T-130-24-KIT allows a very flexible mounting of your laser. The blue area may be used for drilling for laser module fixation. Kit comes with graphite foil and screws pre-mounted.



SOLUTIONS



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