

Main benefits



100% SPECIFIC CAPACITY
(kW/occupied square meter)



-75% INSTALLATION
AREA



INSTALLATION
CLOSE TO WALLS



PROTECTIVE
COATING



DELIVERY TIMES
3 WORKING DAYS

Althermo is a new company in the world of industrial heat sinks for the air conditioning, refrigeration, process cooling and industrial cooling markets. With its production site in the north east of Italy, a historical area for the manufacture of heat exchangers, the company offers a totally innovative way of considering and approaching the international market.

For more info:

www.althermo.com

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DMR-H
The new era of drycooling

**PATENT
PENDING**

What is it?



DMR-H is a revolutionary **hybrid adiabatic modular** dry cooler that ensures ultra-high specific power, thanks to the combination of technological solutions designed, tested and patented by Althermo.

The exchange surface of the microchannel heat exchanger, thanks to the special cylindrical shape, is **50% higher** compared to a traditional configuration

with the same footprint. This characteristic, in addition to the possibility for the heat exchanger to be installed **very close to walls**, ensures a remarkable reduction of the entire installation surface up to **75%**.

The air flow hits the heat exchanger at the same speed over the entire surface, thanks to the **special parabolic cone** mounted within the module. This allows the maximum uniformity of airflow speed over the entire exchange surface.

Thanks to the installation of a **variable-flow rotating**

water pipe, the water distribution of the hybrid adiabatic system is always proportional to the airflow velocity so that to avoid any waste of nebulized water.

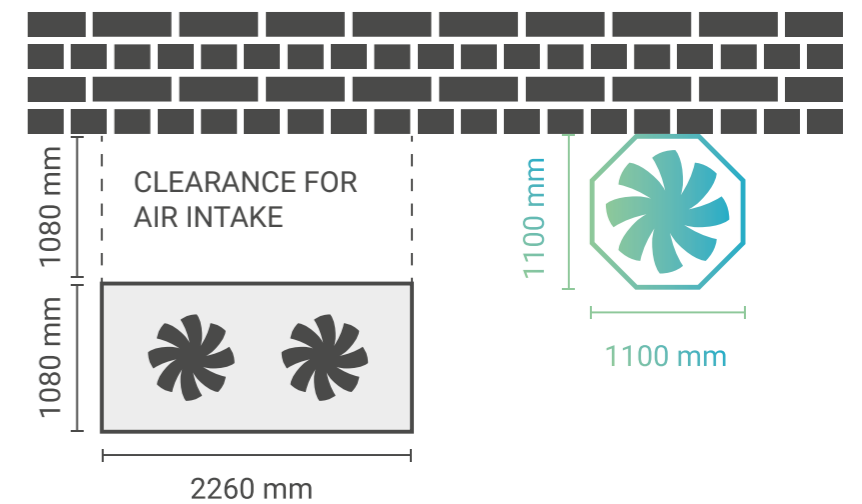
The **DMR-H** module is **the highest expression of energy efficiency** on the market of dry coolers and it can be provided individually as a single module (to be mounted on the installation site) or in combination as a multiple modules configuration. The standard version is provided with EC fans but AC fans can be mounted as well.

In addition to this, **other options** for **DMR-H** are available: protective coating in case of heavy duty sites of installation (inox frame and Electrofin treatment on the heat exchanger) and closed-circuit operation through the installation of another plate heat exchanger with recirculating pump.



-75% of footprint

A single module can dissipate up to 112 kW (Δt 5 air in - water out, EG 25 °C) with a total footprint of **only 1.21 m²**. Thanks to its distinctive shape, it can **draw air in from all around (360°)** and can be installed very close to walls. The combination of these elements allows to reduce by **75%** the installation area of the condenser.



4,88 m² vs. 1,21 m²