

Modular Dry Cooler

Ideal for Data Centre applications



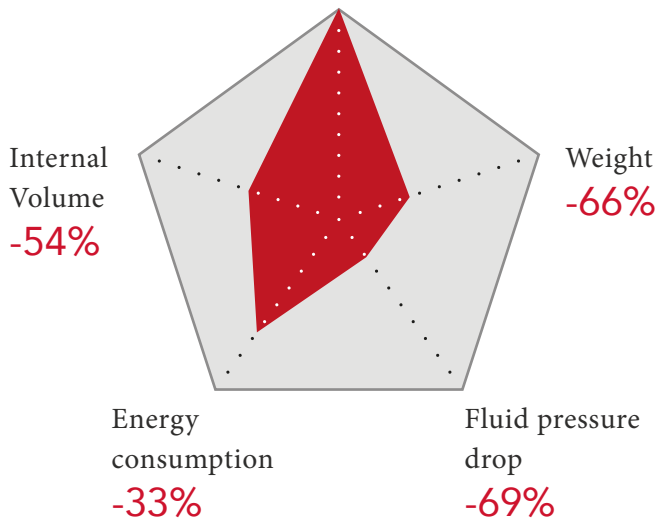
With microchannel technology

This patent pending solution is characterized by an optimized design with vertical microchannel cores with low pressure drops headers and 900 mm EC fans.

Find out more about TKMicro technology and microchannel units



Compared to a tube & fin Liquid Cooler
– Same capacity



— Modular Power Cooler — Round Tube Cu/Al

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FEATURES

- Single module with 4 cores and 2 fans provides 200 kW
- Available from 1 to 5 modules (up to 1000 kW)
- Low installations and transportation cost (2 MW in one container)
- High reliability and high redundancy
- Tier3 and Tier4 design available on request (each module can be isolated and quickly fixed while still delivering the requested capacity)
- Easy maintenance and core cleaning
- New header for low pressure drops and high internal corrosion resistance
- Customized EC power absorption meter and optimization on request
- Multi System Dual Flow patented solution for closed loop adiabatic system and heat recovery available on request
- High corrosion resistance due to same tube and fin material
- High efficiency, minimal footprint
- Only 2 inlet, 2 outlet connections

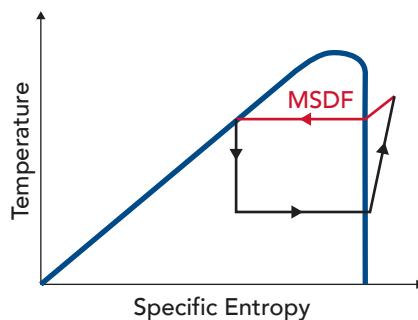
ADVANCED ENGINEERING

Patented solution for heat recovery and adiabatic systems.

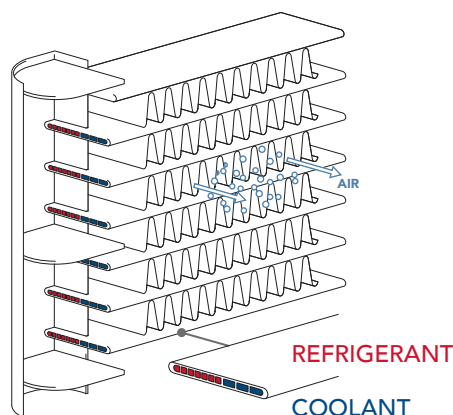
Multi System Dual Flow:

- Option for heat recovery in condensers and coolers.
- Closed-looped booster up to +52% capacity, zero water consumption, no hygenic condition problems.

Reverse Carnot Cycle



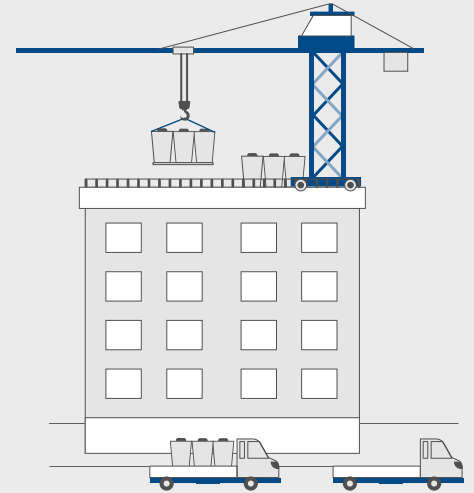
Multi System Dual Flow heat recovery working principle



INSTALLATION

Modular Dry Cooler allows, dividing the power into modules, to reach the same powers of larger units.

The microchannel solution does not need special transport or high cube/open top containers, therefore it can also be installed in city centres where handling is often more difficult.



Up to 40% less installation costs

reduce overall costs of setup, crane renting and operations.

Up to 40% less load on the roof

aluminium modules: less weight, less load on the roof (3.500 Kg-8 modules Vs 5.500 Kg -traditional unit).

Easily increase power when needed

in case of capacity request change, the modular system can adapt over time. Identical coils are characterised by same pressure drops allow simple modular expansion independently from the size.

SPECIAL FEATURES

Container size for larger applications
2000 kW example shown.

