HDC

MODULAR DRY COOLER

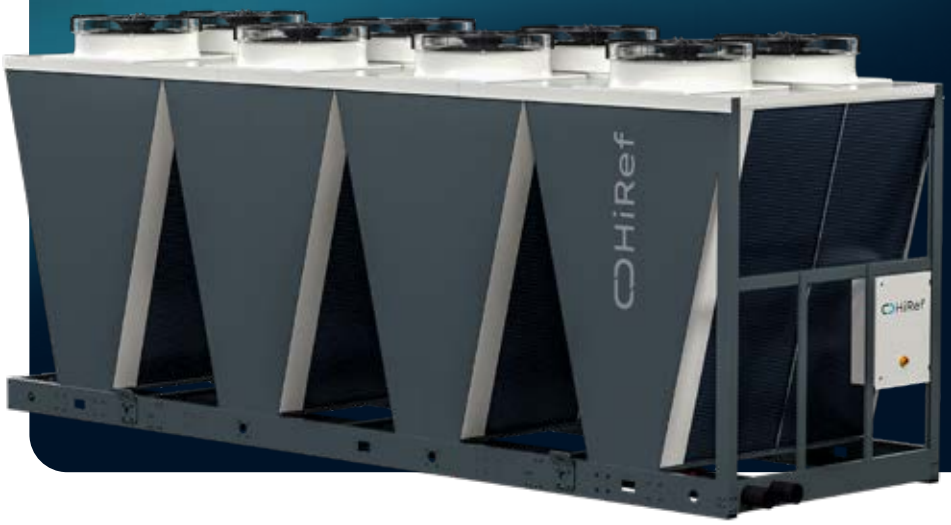
372–1551 kW

MULTI-PROTOCOL COMMUNICATION INTERFACE

CORROSION RESISTANT MATERIAL

PATENTED SOLUTION

VARIABLE GEOMETRY COIL (FLEXY)



The Dry Cooler range from HiRef has been **specifically designed for data center applications.** It is ideally suited for use with liquid cooling systems or in any situation where free cooling can be utilized. HiRef Dry Coolers are outdoor units that can be combined with water-condensed indoor units such as cabinets in the W - F - K series. HiRef offers a **wide range** of Dry Coolers suitable for working with a **water-glycol mixture up to 60%.** They are made with frame in galvanized sheet steel that ensures **corrosion resistance, copper pipe protection and solidity.** The external panels are made of galvanized sheet metal finished with **corrosionand UV-resistant polyester paint.**

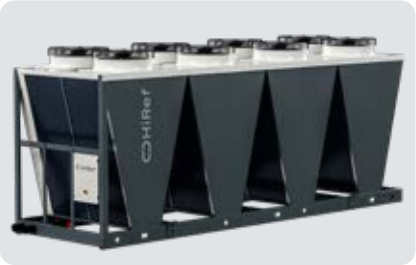
- Power supply 400V three phase
- HiRef Dry Coolers are outdoor units that can be combined with indoor water-cooled condensing units, such as the W – F – K series cabinets or the XSB and XVA chillers
- Modular solution "grows with the business"
- Larger heat exchangers
- Reduced foot print
- Water circuit optimized for variable flow rates
- Regulation on board the unit with integrated ATS
- Modbus interface for connection to CMS
- EC Fans



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Finned coil

The finned-coil heat exchangers are made with copper tubes and wavy or corrugated aluminium fins. The standard spacing between the fins is 2 mm, **offering high heat exchange efficiency without affecting the ease of routine cleaning.**

Silent operation

The Dry Coolers are also available in **low noise emission versions,** ideal in areas where a **high level of acoustic comfort** must be maintained.

Customization

The units can be customized on request to meet the customer's design needs. Among the various options:

- **special treatment for the finned-coil exchanger,** including epoxy treatment, offering good resistance to corrosive environments, or copper fins for installation in marine environments;
- **increased fin spacing** to reduce soiling and facilitate cleaning in sandy environments.

Modular solution

HiRef's dry coolers have been designed with the concept of connecting an increasing number of heat exchangers to the master dry cooler to accommodate the growing power demand. This expansion is possible **without the need to modify the customer-side piping,** simply by planning for the additional space required for future expansions during the design phase.





HDC		04H057E	06H057E	08H057E
Air temperature 10°C / Ethylene glycol 30% / Fluid temperatures 30/20°C				
Cooling capacity	kW	775.6	1163.4	1551.2
Fluid flow	l/h	72000	108000	144000
Air temperature 35°C / Ethylene glycol 30% / Fluid temperatures 45/40°C				
Cooling capacity	kW	372.4	558.6	744.8
Fluid flow	l/h	69200	103800	138400
Lp @ nominal rpm; dist.=2m Q=2	db(A)	89	91	92
Power supply	V/ph/Hz		400/3+N/50	
Dimensions [LxHxD]	mm	3750x3135x2250	5625x3135x2250	7500x3135x2250

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