

Cooling powerhouse

High cooling efficiency and low energy consumption make the Alfa Laval AirPlus Dry Coolers an unbeatable solution for HVAC and refrigeration.

AirPlus Dry Coolers

The Alfa Laval AirPlus Dry Coolers are designed for water-glycol liquid cooling in indirect systems and in free cooling systems for temperatures between -30 and +50°C.

Robust and highly corrosion-resistant, these double air discharge units meet strict environmental noise control requirements. AirPlus Dry Coolers are also excellent alternatives to conventional cooling towers; because they use no water, the risk of Legionella bacterial growth is virtually eliminated.

What's more, dry coolers have proven over the long run to use less energy than conventional solutions.

Basic types

Alfa Laval offers a wide range of robust, heavy-duty dry liquid coolers for the cooling of water, water mixtures, brine and several kinds of oil. Two basic types of axial fan dry coolers are available: the ADM-ADD and the ADV Lines.

To minimize pressure drop, all standard AirPlus Dry Coolers are fitted with smooth copper tubes and aluminum fins. The high cooling efficiency combined with high fan efficiency makes the construction of these coolers very compact.

The ADV Line, or "V" shaped AirPlus Dry Coolers, meet the demands for high cooling capacity when space is limited.

Typical applications: A water-cooled chiller with a remote dry cooler installed on the building roof. Large cold rooms for storage of fresh goods.

Optimal performance

For optimal system design, you can easily integrate AirPlus Dry Coolers with Alfa Laval's liquid cooled plate heat exchangers or shell-and-tube condensers. For free cooling systems, integration with Alfa Laval's liquid-cooled brazed or gasketed plate heat exchangers is recommended.



The V-shaped units are suitable when high capacity is demanded within restricted space.



Sturdy frame and legs for heavy-duty transport. Ready-to-install horizontal packing and optional front cover protection frame are available.



Optional stainless steel flanges for pipe connection.

Fan motors with optional safety switches.



At a glance

- High cooling efficiency.
- Low energy consumption.
- Low noise level.
- Low maintenance requirements.
- Stainless steel flanges for pipe connection.
- High-quality fan motors.

Options

A wide range of options is available, including spray water device, cabling, safety switches, fan speed control and coil coating. For a complete listing, ask your local Alfa Laval representative.

Application	Dry cooler	Dry cooler
		
Product line	ADM-ADD	ADV
Type	Single fan row/ Double fan row	Double fan row
Capacity range	7-1200 kW	300-1250 kW
Fan diameters	500, 650, 800, 900 mm	800, 900 mm
Features and benefits	<ul style="list-style-type: none"> • Compact design • Low power consumption • Several noise level options • Electrical devices 	<ul style="list-style-type: none"> • Small foot print • Low power consumption • Several noise level options • Electrical devices • High capacity • Less operating cost



Exterior wall-mounted AirPlus Dry Coolers: Typical installation at an industrial plant.



Thanks to a wide selection of low-noise fan motors, AirPlus Dry Coolers work in areas with strict environmental noise control.