



BLUECOLD[®]

EVAPORATIVE CONDENSER



Introduction



The Blue Cold Evaporative Condenser is a compact and efficient heat rejection device designed for industrial and commercial refrigeration systems. It condenses refrigerant vapor by combining the principles of evaporative cooling and air convection, ensuring high thermal performance with low operating cost.

Hot refrigerant vapor enters the coil, where heat is removed by a combination of air flow from axial fans and water sprayed over the coil surface. The resulting phase change condenses the refrigerant efficiently while maintaining minimal energy consumption.

Our Vision

To be a globally recognized brand in industrial airflow technology.

Our Mission

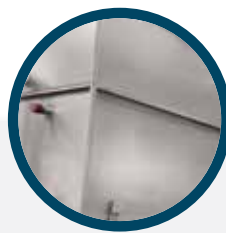
To deliver innovative, durable, and efficient air solutions that enhance industrial performance and sustainability.

Design & Construction Features



Coil Design:

High-efficiency coil made from stainless steel tubes, internally enhanced for superior heat transfer. Coils are arranged in a compact, multi-pass configuration for uniform air and water distribution.



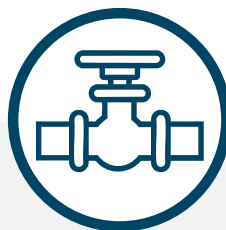
Casing:

Fabricated from stainless steel sheet with reinforced framing, ensuring corrosion resistance and structural rigidity.



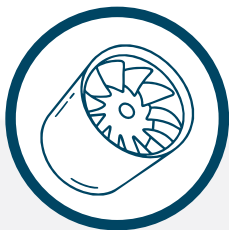
Drift Eliminators:

Multi-blade PVC eliminators minimize water carryover and prevent drift loss (<0.002% of circulating water).



Water Distribution System:

Uniform water spray system using high-quality non-clogging spray nozzles for even coil wetting and improved heat rejection.



Fans & Motors:

Heavy-duty axial fans with dynamically balanced aluminum blades. Motors are TEFC, IP55 rated, suitable for continuous outdoor duty.



Water Basin / Sump:

Constructed from stainless steel, equipped with drain, overflow, and make-up water connections.



Pump:

High-efficiency centrifugal pump ensures consistent water recirculation. Available with optional standby pump.



Access Panels:

Removable side panels allow easy access for inspection and maintenance.

Performance Range



Cooling Capacity

Upto 1000 Kw (Custom Sizes On Request)

Refrigerants

Ammonia (NH₃) & Freon



Condensing Temperature

Upto 40°C

Water Flow Rate

As per thermal duty



Fan Diameter

800 mm to 1250 mm

Wet Bulb Temperature

upto 29°C



Noise Level

< 80 dB(A) at 1 m

Drift Loss

< 0.002% of circulating water



Pump Power

As per unit design

Power Supply

415V ±10%, 50 Hz, 3 Phase



Blue Cold Installed Units









BLUECOLD[®]

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