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FXVS

FXVT

NEXUS

PFI

HXI

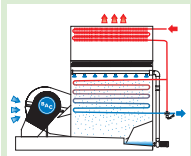
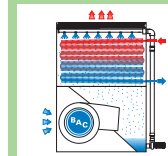
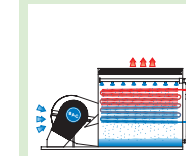
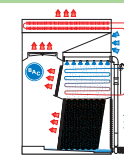
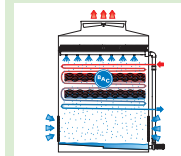
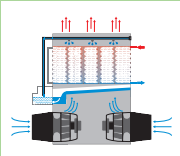
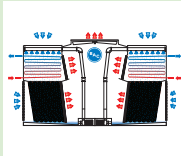
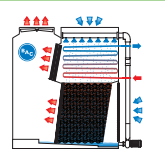
VFL

VXI

HFL



Principle of operation



Capacity

140 - 1895 kW

1425 - 2290 kW

85 - 792 kW

135 - 1480 kW

130 - 1275 kW

70 - 575 kW

19 - 2615 kW

170 - 1870 kW

Configuration

combined flow

combined flow

counterflow

counterflow

combined flow

counterflow

counterflow

counterflow

Air entry

axial fan induced draft

axial fan induced draft

radial fan forced draft

axial fan induced draft

axial fan induced draft

centrifugal fan forced draft

centrifugal fan forced draft

centrifugal fan forced draft

Maximum entering fluid temperature

82°C

82°C

82°C

82°C

82°C

82°C

82°C

82°C

Low sound



Energy efficiency



Easy maintenance



Operational safety (hygiene)



Water saving

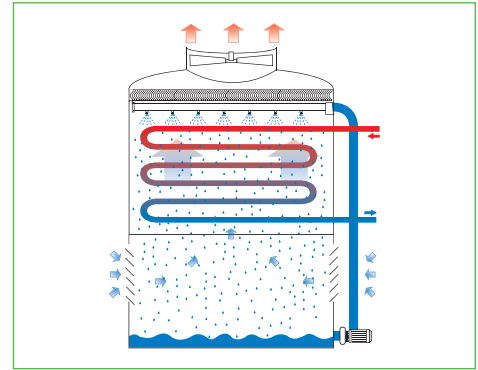


Closed circuit cooling towers

Principle of operation

Closed circuit cooling towers or fluid coolers operate just like the open type, but dissipate the process fluid heat load into the ambient air via a closed circuit heat exchanger. This isolates the process fluid from the outside air, keeping it clean and free of contamination in a closed loop and creating 2 separate fluid circuits:

- An external circuit, in which spray water circulates over the closed circuit heat exchanger and mixes with the outside air.
 - An internal circuit, in which the process fluid circulates inside the closed circuit heat exchanger.
- During the evaporative cooling operation, heat goes from the internal circuit, via the closed circuit heat exchanger to the spray water, and then to the open air as a portion of the evaporating water.



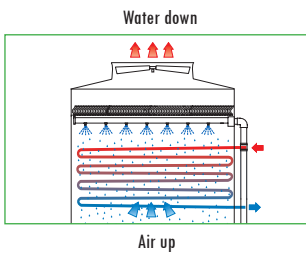
Benefits

- Contaminant-free cooling circuit
- Dry operation in winter
- Reduced system maintenance
- Lower overall system costs thanks to year-round savings on maintenance, water, energy and water treatment

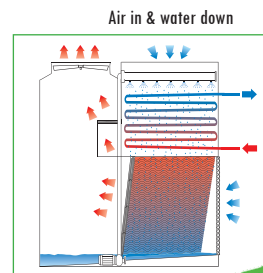
A **unique benefit** for all BAC closed circuit cooling tower customers:

- the patented Baltibond hybrid coating

Configurations



Counterflow configuration



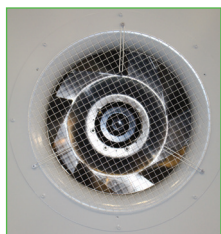
Combined flow configuration
Parallel flow of air and water over the coil, crossflow configuration of the fill

BAC PATENTED DESIGN

Pressurized spray system

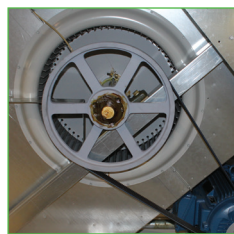


Fan systems



Radial fan

- can overcome external static pressure, suitable for indoor installations
- inherently quiet and energy efficient



Centrifugal fan

- can overcome external static pressure, suitable for indoor installations
- inherently quiet



Axial fan

- low energy usage

Forced draft

- rotating air handling components are located on the air inlet face at the base of the tower
- easy access for maintenance
- located in dry entering air stream

Induced draft

- rotating air handling components are mounted in the top deck of the unit
- minimal impact of fan noise
- maximum protection from fan icing
- located in the corrosive saturated discharge air stream