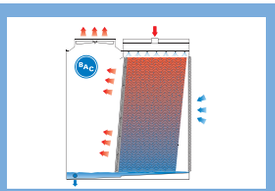
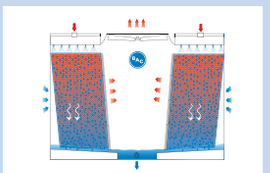
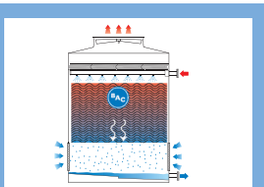
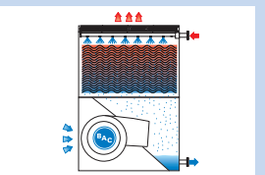
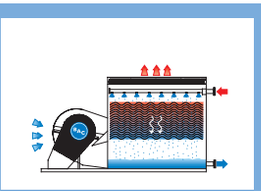
G A Best

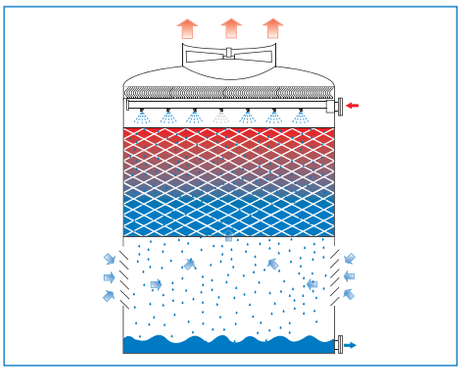
BAC participates in the CTI-ECC programme for cooling towers Check ongoing validity of certificate: www.eurovent-certification.com

www.BaltimoreAircoil.com	S1500E	S3000E	PTE	VT0 / VT1	VTL-E
					
	EUROVENT CERTIFIED PERFORMANCE CT N° 14.10.002 Range S15E SERIES www.eurovent-certification.com	EUROVENT CERTIFIED PERFORMANCE CT N° 15.03.066 Range S3000 SERIES-S3E www.eurovent-certification.com	EUROVENT CERTIFIED PERFORMANCE CT N° 14.10.001 Range PTE SERIES www.eurovent-certification.com	EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com / EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com	EUROVENT CERTIFIED PERFORMANCE CT N° 15.03.069 Range SERIES V-VTL-E www.eurovent-certification.com
Principle of operation					
Capacity	8 - 215 l/s	16 - 285 l/s	12- 170 l/s	7 - 455 l/s	3 - 130 l/s
Configuration	Crossflow	Crossflow	Counterflow	Counterflow	Counterflow
Air entry	Axial fan Induced draft	Axial fan Induced draft	Axial fan Induced draft	Centrifugal fan Forced draft	Centrifugal fan Forced draft
Water distribution	Gravity	Gravity	Pressurized	Pressurized	Pressurized
Maximum entering water temperature	55°C PVC fill 60°C alternative fill materials	55°C PVC fill 60°C alternative fill materials	55°C PVC fill 65°C alternative fill materials	55°C PVC fill 65°C alternative fill materials	55°C PVC fill 65°C alternative fill materials
Low sound	C	C	F	A	A
Energy efficiency	A	A	A	F	F
Easy maintenance	A	A	D	D	D
Operational safety (hygiene)	A	A	D	E	E

Open cooling towers

Principle of operation

Open cooling towers discharge heat from water-cooled systems into the atmosphere. The hot process water is distributed over a **fill pack** (heat transfer media) to interface with air blown by a fan through the cooling tower. During this **evaporative cooling**, a small part of the water evaporates while cooling the remaining process water.



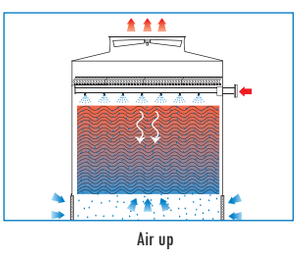
Benefits

- optimal cooling, as proved by lab tests
- allowing low process temperatures
- open cooling towers have a small footprint

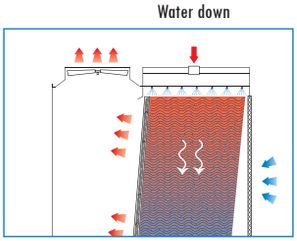
A **unique benefit** for all our cooling tower customers:

- the patented Baltibond® hybrid coating

Configurations



Counterflow configuration



Crossflow configuration

Water distribution systems

Pressurized spray system

- 0,15 through 0,5 bar of water pressure required at the water inlet

Gravity spray system

- minimum pump head required
- easy access for inspection during operation

Fan systems

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