TAILORMADE **SUSTAINABLE COOLING** SOLUTIONS.

BALTIMORE AIRCOIL COMPANY

BLUE by nature
GREEN at heart

CREATOR OF TRULY SUSTAINABLE COOLING, INSPIRED BY NATURE

Since 1938, we reinvent cooling and lead the way in creating ever more advanced, reliable and energy-efficient cooling solutions. Driven by sustainable innovation, our people use **the power of water and air** in a variety of smart ways to continually design and develop **tailormade cooling technologies** that fit the needs of today's and tomorrow's industry. Whatever the challenge, our expertise seamlessly adds more quality and value to the world we live and work in.
Like to align your cooling processes with your climate ambitions? Suits us!
Let's meet at **www.BaltimoreAircoil.com.**

Reliability - At BAC, we care about the quality of our work and the relationship with our clients.

BAC delivers the **highest quality products,** designed and manufactured according to the latest standards and local regulations. The thermal performance of all standard BAC cooling towers and crossflow closed circuit cooling towers is independently **certified by CTI-Eurovent.**
With more than 80 years of experience, we have over 200,000 units reliably operating worldwide, all locally supported throughout the product life-cycle.
At BAC we have a **continuous learning culture** that stimulates people to become key experts in various aspects of the cooling industry. We look forward to using our expertise and network to your advantage.

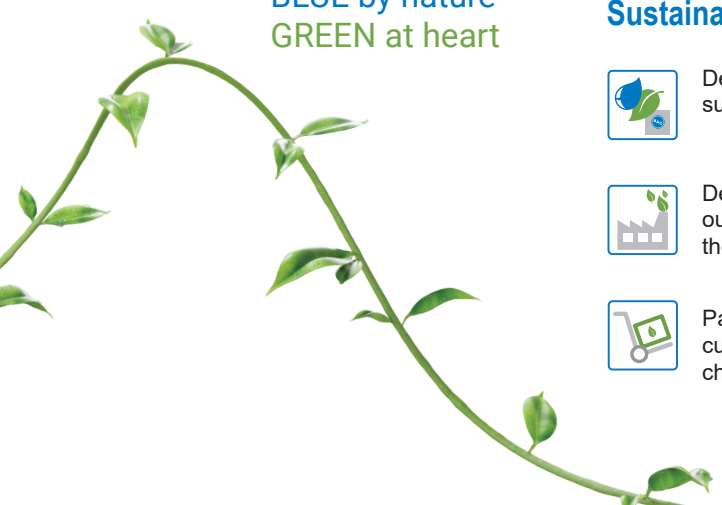
Innovation - At BAC, we are passionate about innovation.

Our design process is streamlined and systematic. We start with the research of new technologies and end with providing a quality product to the jobsite. Ongoing investment in research, combined with the **most advanced R&D laboratory facility in the industry,** enables BAC to consistently offer the most technologically advanced products to exceed both industry standards and the needs of our customers. As a result, BAC holds **more than 100 patents**. Impassioned by innovation for more than 80 years, today we broadly adopt innovation and creativity across all our business functions and business processes to reach new levels of industry leadership. We are driven to bring new value into your future.

Sustainability - At BAC, we care deeply about our planet and its natural resources.

For more than 80 years we've been helping our customers achieve their sustainability goals. Today we **integrate sustainability not only into WHAT we do but also into HOW we do it.** Sustainable innovation is fostered and cultivated in all BAC's business processes. Our 5 sustainability focus areas guide us each day to become **the leading provider of sustainable cooling solutions.** We are committed to become your most sustainable partner.

BLUE by nature
GREEN at heart



Sustainability focus areas

- Develop and offer sustainable products.
- Design and operate our facilities to minimize their environmental impact.
- Partner with suppliers to cultivate a sustainable supply chain.
- Elevate diversity, equity, inclusivity and safety in our work environment to enable our employees to grow, and make a positive impact on communities.
- Be the recognized leading provider of sustainable heat transfer solutions.

HEAT TRANSFER PRODUCTS

		Crossflow	Counter flow	Combined flow	Indoor installation	Axial fan	Radial fan	Centrifugal fan	Low sound	Energy efficiency	Easy maintenance	Increased hygiene	Water saving
Open cooling towers	S1500E	•				•			C	A	A	A	
	S3000E	•				•			C	A	A	A	
	PTE		•			•			F	A	D	D	
	VTL-E		•		•			•	A	F	D	E	
	VT 0/1		•		•			•	A	F	D	E	
Closed circuit cooling towers	FXVS			•		•			C	A	A	A	E
	FXVT			•		•			C	A	A	A	E
	PFI		•			•			F	A	D	D	D
	POLAIRIS™ Model PLF2		•				•		C	A	A	A	D
	VFL		•		•			•	A	F	D	E	D
	VXI		•		•			•	A	F	D	E	D
	HFL		•		•			•	A	B	B	A	C
	HXI			•		•			C	A	B	B	C
	NEXUS® Model NXF		•		•		•		B	A	A	A	D
	TrilliumSeries™ Model TVFC		•			•			E	D	A	A	C
	TrilliumSeries™ Model TRF		•			•			E	D	A	A	C
Refrigerant condensers	POLAIRIS™ Model PLC3		•				•		A	B	A	A	D
	VERTEX™ Model VRC		•			•			F	B	A	A	D
	CXVE			•		•			C	A	A	A	E
	CXV-D			•		•			C	A	A	A	E
	PCE		•			•			F	A	D	D	D
	VCL		•		•			•	A	F	D	E	D
	VXC		•		•			•	A	F	D	E	D
	HXC			•		•			C	A	B	B	C
	TrilliumSeries™ Model TVC		•			•			E	D	A	A	C
	TrilliumSeries™ Model TRC		•			•			E	D	A	A	C

Addition of product accessories can improve standard product features e.g. sound attenuation, plume abatement, maintenance, operational safety, corrosion protection.
Contact your BAC representative for more information.

G A Best

BAC offers a professionally applied coating – **our unique Baltibond® hybrid coating** – that increases the service life of your equipment. The quality of this coating is **guaranteed** thanks to a state-of-the-art coating process, applied in house. Baltibond® hybrid coating can **reduce the water and chemical consumption by up to 33%**. You can operate at the same cycles of concentration as a full stainless steel execution.

Discover more about our unique Baltibond® hybrid coating on www.BaltimoreAircoil.com

Benefits

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

How does it work?

Closed circuit cooling towers dissipate the process fluid heat load into the ambient air via a heat exchange coil. This isolates the **process fluid** from the outside air, keeping it clean and free from contamination in a closed loop.

PFI, FXVS, FXVT and PLF2 are Eurovent-certified.

BAC participates in the ECC programme for cooling towers. Check ongoing validity of certificate: www.eurovent-certification.com
Series PF-PFI – CT N° 15.12.001, Series FXV-FXVS – CT N° 15.12.002, Series FXV-FXVT – CT N° 15.12.003, Series V-PLF2 - CT N° 22.03.001

Closed Circuit Cooling Towers

PFI
140 - 1465 kW

FXVS
145 - 1890 kW

FXVT
1430 - 2320 kW

VFL
70 - 635 kW

VXI
20 - 2660 kW

Polairis™ - model PLF2
25 - 310 kW

Evaporative Condensers

PCE
525 - 2715 kW

CXVE
475 - 2770 kW

CXV-D
2760 - 4035 kW

VCL
180 - 1340 kW

VXC
60 - 6175 kW

Vertex™ - model VRC
655 - 2785 kW

Polairis™ - model PLC3
80 - 1915 kW

Benefits

- Initial cost savings
- Low system operating costs: low condensing temperatures for a more compact compressor using less power
- Low refrigerant charge minimizing costs and environmental impact
- Space saving: up to 50% area savings compared to air-cooled installations

How does it work?

The refrigerant vapour is condensed in a coil, which is **continually wetted** on the outside by a recirculating water system. Air is circulated over the **coil**, evaporating a small portion of the water. The heat is removed from the vapour in the coil, causing it to condense.

Benefits

- Optimized electricity usage, water usage and water treatment
- Reduced maintenance
- Minimized energy consumption and refrigerant charge
- Simplified system design

How does it work?

The **hybrid wet/dry products** cool the liquid to be cooled by efficiently combining dry sensible air cooling with evaporative cooling. These products include two or more distinctive heat transfer surfaces combined into one product optimising the use of **the ambient dry and wet bulb temperature.**

The **hybrid HXC** condenses the refrigerant by efficiently combining dry sensible air cooling with evaporative cooling.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

CTI CERTIFIED

The Nexus® Modular Hybrid Cooler is Eurovent-certified. Check ongoing validity of certificate: www.eurovent-certification.com Series NXF-E – CT N° 18.02.008

Hybrid & Modular Hybrid Coolers and Condensers

Nexus® - model NXF
85 - 790 kW

HFL
155 - 1870 kW

HXI
135 - 1290 kW

HXC
550 - 1900 kW

TrilliumSeries™ Adiabatic Products

TVFC
250 - 2000 kW

TRF
350 - 1600 kW

TVC
340 - 1030 kW

TRC
430 -1990 kW

Benefits

- Low process temperatures
- Saving more than 80% on annual water compared to cooling towers
- Up to 40% increased capacity compared to dry cooling
- Reduced energy consumption
- Operational safety

How does it work?

Before the fan draws the ambient air through the finned coil, the air is pre-cooled adiabatically when traversing an **humidification pad.** This evaporates the water in the air, thus boosting the cooling capacity.

Benefits

- Very efficient cooling
- Low process temperatures
- Small footprint

How does it work?

Open cooling towers discharge heat from water-cooled systems into the atmosphere. The hot process water is distributed over a **fill pack** (heat transfer medium) 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.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

CTI CERTIFIED

BAC participates in the ECC programme for cooling towers. Check ongoing validity of certificate: www.eurovent-certification.com
Series S3000E Series –S3E – CT N° 15.03.066, S15E Series - CT N° 14.10.002, PTE Series – CT N° 14.10.001, Series V-VTL-E - CT N° 15.03.069, Series V-VT0 – CT N° 15.03.067, Series V-VT1 CT N° 15.03.069

Open Cooling Towers

Ice Thermal Storage Products

Benefits

- Refrigeration systems up to 50% more compact
- Operational cost savings
- Low energy consumption
- Reduced carbon footprint
- Less compressor maintenance
- Back-up cooling

How does it work?

These products use ice to **build and store cooling** when cooling demands and/or energy rates are low (mostly overnight). The system then uses this stored cooling for air-conditioning or process purposes when energy rates are high (mostly daytime). There are 2 melt types. For **"internal melt"** only glycol solutions can be used as secondary refrigerant. **"External melt"** ice storage products can use either direct refrigerant feed or glycol solutions.

Visit our website:
www.BaltimoreAircoil.com

BAC BALTIMORE AIRCOIL COMPANY

BAC ORIGINAL SPARE PARTS AND **SERVICES** KEEP YOUR EQUIPMENT IN OPTIMUM CONDITION

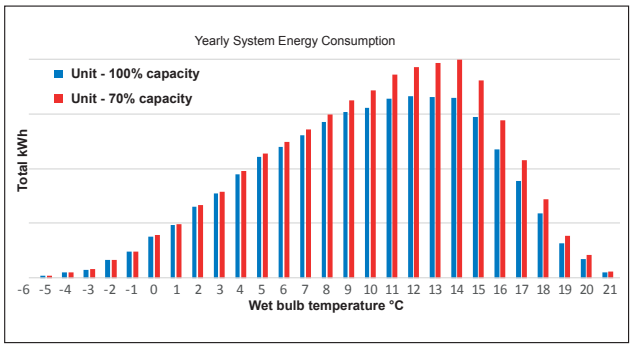
BAC original spare parts are not just components. They guarantee year-round reliable operation of your cooling equipment.

So make sure you take advantage of all the benefits BAC spare parts offer:

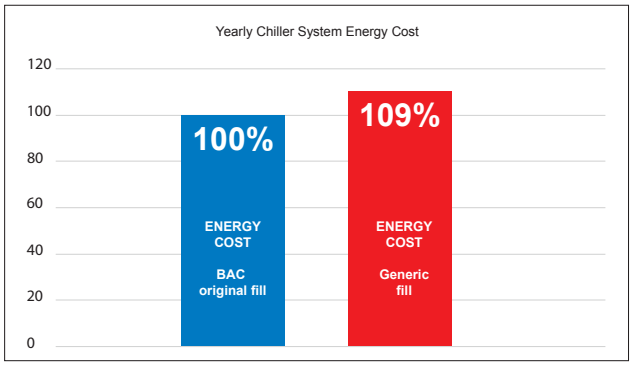
- Original performance for lowest system operation cost
- Minimum downtime and maximum lifetime
- Operational safety
- Improved operation and maintenance through integration of latest technology
- Long-term availability and traceability
- Quick delivery

Lowest system operating cost

Using generic fill means
- up to 30% capacity loss,
- 3°C higher temperature,
- 9% higher chiller system energy cost.



Unit with generic fill has a 30% capacity loss yearly, with a 3°C higher temperature.



Using generic fill leads to 9% higher chiller system energy costs.

BAC offers a complete range of products and **services** for optimal efficiency and safe operation of your cooling equipment.

These services include:

- Rigging, supervision, start-up and commissioning
- Preventive maintenance
- BAC Inspect – free site inspection followed by an extended condition report
- Corrective repairs
- Refurbishment and upgrades
- Cleaning and disinfection

Are you searching for a specific spare part for your equipment?

Find a detailed 3D view specifically designed for your product.

Go to **www.baltimoreaircoil.eu/parts/parts-list-with-3d-view** and find your product.

OPTIONS AND ACCESSORIES

At Baltimore Aircoil Company, we never stop investing in **research and development** to improve our products. We offer options and accessories that bring solutions for different customer needs. Discover a selection of options here:

Improve maintenance and accessibility

Ladder & platform

Filter

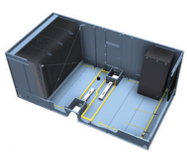
Save water

Water treatment equipment

3-way-valve

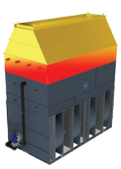
Increase hygiene

Clean out port



Sump sweeper piping

Save energy and increase performance

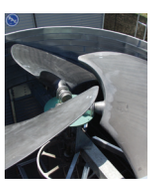


Discharge hood

Baltiguard drive system

Reduce sound emission

Sound attenuation



Whisper Quiet Fan

Increase reliability

Basin heater package

Standby pump

Refurbishment services extend the equipment's operating life. **New technology and upgraded** components can be incorporated into existing installations. Upgrades allow you to **comply with any new regulations or standards.**

Want to find out what is available for your specific product?

Find a detailed 3D view via www.baltimoreaircoil.eu/services/refurbishment-and-upgrading and discover your options.

More information

www.BaltimoreAircoil.com
Europe@BaltimoreAircoil.com
www.BacSustainability.com

BALTIMORE AIRCOIL COMPANY

ISO 9001:2015 certified

FSC
www.fsc.org
RECYCLED
Paper made from recycled material
FSC® C004583

Your BAC Representative