Baltimore Aircoil

Reliably serving your cooling process ...

Helios series

Closed Circuit
Cooling Towers PFE

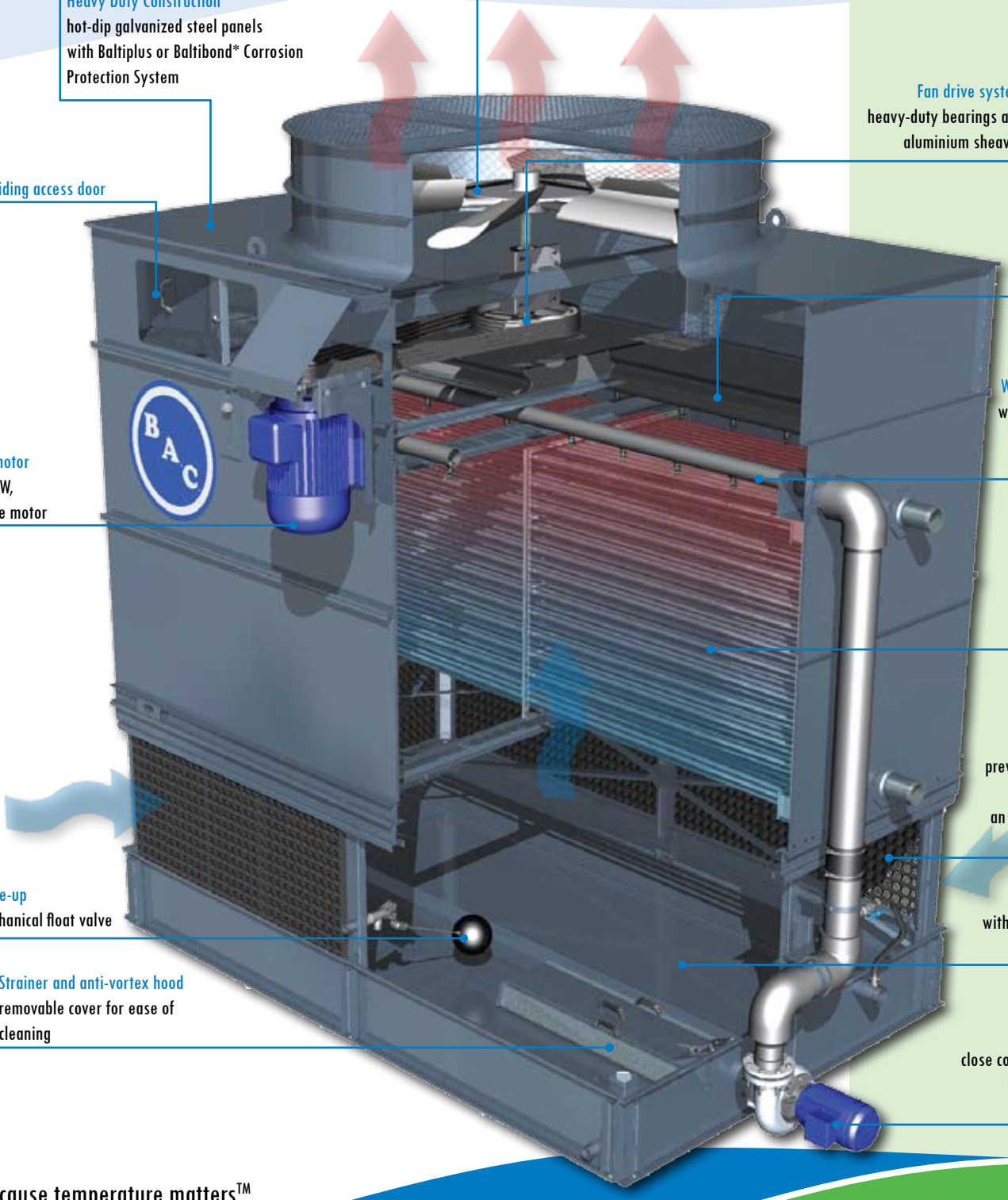
Baltimore Aircoil ... because temperature matters™

Helios series

Closed Circuit Cooling Towers PFE

Baltimore Aircoil is a worldwide leading manufacturer of heat rejection equipment for a wide range of applications. In its constant search for improvement in design and performance BAC has developed and perfected many features which have become the standard of excellence for cooling throughout the world.
Helios Series counterflow closed circuit cooling towers use energy efficient axial fans with low sound emission and incorporate superior features in terms of ease of maintenance and hygiene. Helios Series closed circuit cooling towers can be arranged in multi cells for large capacity requirements.

Single cell capacity 2 - 150 l/s



Axial fan
quiet and highly efficient

Heavy Duty Construction
hot-dip galvanized steel panels with Baltiplus or Baltibond* Corrosion Protection System

Fan drive system
heavy-duty bearings and aluminium sheaves

Sliding access door

Drift eliminators
for minimum drift loss

Water distribution system
with exclusive BranchLok™ System and external header clean out port

Fan motor
low kW, 4-pole motor

Heat exchange coil
hot-dip galvanized after fabrication

Combined inlet shields
preventing biological growth from sunlight, acting as an air filter and eliminating water splash-out

Make-up
mechanical float valve

Cold water basin
with overflow connection and sloping towards drain

Strainer and anti-vortex hood
removable cover for ease of cleaning

Spray pump
close coupled centrifugal pump, bleed line with metering valve installed

... because temperature matters™

green tower

Low energy consumption

Evaporative cooling equipment can minimize the energy consumption of the process to be cooled. In addition Helios Series closed circuit cooling towers have energy efficient axial fans. Both resulting in reducing the energy usage of the cooling system and CO_2 emissions.

LOW ENVIRONMENTAL IMPACT PRODUCT

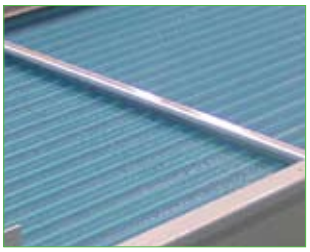
Low sound operation

Helios Series closed circuit cooling towers use fans with low sound emissions as standard. For extremely sound sensitive applications, where typically centrifugal fans are used, Whisper Quiet fans* with or without sound attenuators* and water silencers* are available.

Plume Control

All Helios Series closed circuit cooling towers can be equipped with finned coils*, which are installed above the drift eliminators with the aim to reduce or eliminate visible plume.

Whisper Quiet fan*



Plume abatement coil*

Inward sliding access door.
Motor with external adjustors and removal davit*

hygiene and maintenance

Choice of construction materials

Helios Series closed circuit cooling towers offer a broad choice of construction materials, ranging from galvanized steel (Baltiplus) to the proven Baltibond* Corrosion Protection Sytem and stainless steel* (AISI 304 or 316).

Access

- Easy side removal of the motor with motor removal davit*.
- Externally accessible motor adjustors have built-in locking wrench for easy motor alignment and belt tensioning.
- Inward sliding access door in fan section.
- External platforms and ladders*.
- Combined inlet shields are easily removable without tools.

Hygiene

- The cold water basin is sloped towards the drain.
- The suction strainer anti-vortex hood is removable.
- The combined inlet shields protect the basin water from direct sunlight and the intrusion of foreign matter.
- The water distribution system employs the BranchLok™ system, which allows removal of each branch for ease of cleaning.
- Sump sweeper piping* minimising sediments in the cold water basin is available for use with side stream filtration.
- A clean out port* can be installed in the cold water basin.

operational flexibility

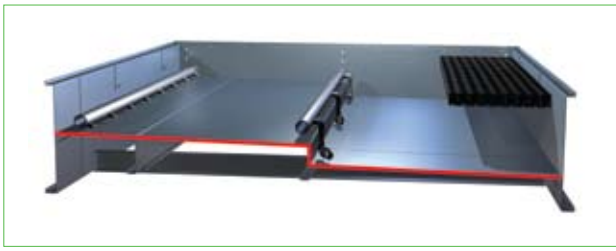
The Helios Series closed circuit cooling tower product line contains a large number of models, which can be shipped in a **closed container**.

Vibration cut out switches* to protect the equipment against mechanical failure.

Electrical basin heaters* to protect the water in the basin against freezing, when the tower is idle.

Electric water level control* for precise control of the water level with no need for seasonal adjustment.

Cold water basin sloping towards drain, with sump sweeper piping* and water silencers*



BranchLok™ System

Models suitable for container shipment

* option

Baltimore Aircoil

more than 70 years of experience and know-how

ISO 9001:2008 certified

With thousands of successfully operating installations worldwide Baltimore Aircoil has the **application and system experience** to assist you in the design, installation and operation of your cooling equipment. Ongoing investment in research, combined with an advanced **R&D** laboratory facility, enables BAC to consistently offer new technologies and products to meet developing industry demands.
Baltimore Aircoil has a **network of highly qualified sales representatives** backed up by an experienced technical staff to ensure that each customer project is a success.


3D-design software


5000 m² R&D-test centre


selection and simulation software


testing


high quality manufacturing


on site services

There is a wide variety of closed circuit cooling tower concepts available on the market. For this reason we recommend you to evaluate different cooling tower configurations for your project. Your BAC Balticare representative is available to assist you in this evaluation.

In order to select the right closed circuit cooling tower for a specific application, a number of important parameters should be considered. Listed below are questions, which should be answered when making your choice.

about the application

- ☐ What are the design conditions (flow, fluid type, in and out and entering wet bulb temperature) which achieve the best energy efficiency for my process?
- ☐ Are there acoustical limitations (sound power, sound pressure, day, night)?
- ☐ What space is available for the closed circuit cooling tower?
- ☐ How can I conduct maintenance and cleaning?
- ☐ Could the formation of visible plume represent a problem?
- ☐ What is the condition of the make-up water and how to control the recirculating water quality?

about the supplier

- ☐ How has the manufacturer established his ratings?
- ☐ What is the level of the manufacturer's service and access to original spare parts?
- ☐ Can the manufacturer demonstrate compliance with directives and regulations?
- ☐ Who is my contact person for technical and commercial assistance?

For more information visit our website at www.BaltimoreAircoil.com or contact your BAC representative to assist you with the selection, operation and maintenance of your cooling tower installation, to ensure continuous efficiency of your process.

www.BaltimoreAircoil.com
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Baltimore Aircoil

Your local contact :

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