

PFI

Closed circuit cooling towers



Key benefits

- Lowest energy consumption and total cost of ownership
- Year round reliable operation
- Ideal replacement unit with certified thermal performance

PFI characteristics

Counter flow, axial fan, induced draft

Capacity range

up to 1465 kW

Maximum entering fluid temperature

82°C

Typical applications

- Medium to large HVAC and industrial applications
- Dry operation requirement in winter time

Lowest energy consumption and total cost of ownership

- [Evaporative cooling](#) for system-wide energy saving at lower operating temperatures.
- The highly efficient **OptiCoil™ System** increases thermal performance **up to 30%** for the same coil volume lowering the installed fan power by up to 50%.
- Elimination of potentially excessive operating costs. PFI is **Eurovent-CTI certified** for both water and glycol. This guarantees thermal performance and it eliminates field thermal performance testing costs.
- **System pump** energy savings obtained through shorter coil circuits resulting in **lower coil pressure drops**.
- **Savings on maintenance and water treatment** because the **closed loop** in PFI cooling towers ensures a contaminant-free cooling circuit.
- **Lower installed costs**. PFI has a lower weight, reducing structural and vibration isolation costs. Less glycol is required to achieve the same or higher heat transfer.
- **Water and chemical savings up to 33%** because [Baltibond® Hybrid Coating](#) allows higher cycles of concentration.

Year round reliable operation

- **Trouble free process operation** - The closed loop in PFI cooling towers protects the process fluid and equipment from external contaminations.
- The thermal performance of PFI closed circuit cooling towers is tested and [certified by Eurovent](#).
- For extremely cold weather operation, switch off the spray system during periods of reduced load and **operate dry**.
- **Optimal thermal performance** through lifetime. Lab tests have proven that the OptiCoil System reduces scale formation on the coil.
- **Minimum maintenance and downtime**- Complete and easy access to all critical components, including coil.
- Easy-clean and easy-inspect PFI towers **reduce hygiene risks** from bacteria (e.g. Legionella) or biofilm inside.
- Self-cleaning **cold water basin sloping** towards drain, to prevent sediment build up.
- **Combined inlet shields** block sunlight to prevent biological growth in the tower, filter the air and stop water splashing outside.

Ideal replacement unit with certified thermal performance

- **Same or higher capacity**. Ideal like-for-like solution, performing per published ratings. The PFI is independently Eurovent-CTI certified for various process fluids.

Low noise

- A variety of fans is available to offer the perfect solution for every sound challenge.
- [Water silencers](#) achieve noise levels close to those of crossflow towers. Water silencers come always with Whisper Quiet fans.



- Factory designed, tested and rated [sound attenuation](#) is available on the discharge for further noise reduction.

Easy to maintain

- The PFI closed circuit cooling tower is **easier to maintain than** other induced draft counterflow cooling towers.
- Optional coil **inspection hatches** allow complete and easy access to heat transfer section
- **BranchLok™** water distribution - each branch removable for easy cleaning.
- **Combined inlet shields** for easy no-tool removal.
- **Motor adjusters:** externally accessible and locking wrench for easy motor alignment and belt tensioning.
- Full **cold water basin access** when removing the combined inlet shields.
- **Fans easy accessible** via sliding access door.
- Optional [clean out port](#) **helps remove** silt and sludge from the cooling tower basin.
- Removable **suction strainer** anti-vortex hood.

Ship and install PFI easily

- **Guide pins** mean swift PFI cooling tower on-site assembly. The guide pins help reduce section assembly time by up to 75 %!
- Compact PFI footprint – **perfect for confined spaces**.
- **Container shipment** often possible!

Interested in the PFI closed circuit cooling tower for cooling your process fluid? Contact your local [BAC representative](#) for more information.

Downloads

- [PFI closed circuit cooling tower](#)
- [PFI closed circuit cooling towers - brochure](#)
- [BAC - Eurovent Certification](#)
- [Operating and Maintenance PFI](#)
- [Rigging and Installation PFI](#)