

PTE

Open cooling towers



Key benefits

- Low energy consumption
- Low noise
- Easy to maintain

PTE characteristics

Counter flow, axial fan, induced draft

Capacity range

10 - 140 l/s

Water distribution

Pressurised

Maximum entering water temperature

55°C standard fill
65°C with alternative fill

Typical applications

- Small to large industrial applications
- Dirty water applications
- Replacement of field erected towers with basinless units



Low energy consumption

- [Evaporative cooling](#) for system-wide energy saving at lower operating temperatures.
- **Axial fan** uses **half the energy** of similar centrifugal fan units.
- The thermal performance of the PTE is tested and [certified by Eurovent](#).
- Factory tested high efficiency [Versapak fill](#) with maximum air/water contact at low air pressure drops
- **High efficiency fan motors**

Low noise

- PTE features low noise axial fans. To reduce noise even further, choose for [Whisper Quiet fans](#).
- Factory designed, tested and rated [sound attenuation](#) is available on the discharge for further noise reduction.
- [Water silencers](#) achieve noise levels close to those of crossflow towers. Water silencers come always with Whisper Quiet fans.

Easy to maintain

- The PTE open cooling tower is **easier to maintain than** other induced draft counterflow cooling towers.
- **BranchLok** water distribution - each branch removable for easy cleaning.
- **Combined inlet shields** for easy no-tool removal.
- [Fill bundle modules](#), with optional handles and **removable side panels** for better and easier fill inspection and replacement.
- **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 PTE easily

- The **leak-free InterLok system** means swift **PTE tower on-site assembly**. Install the basin on the upper section with no sealer tape in between!
- Compact PTE footprint – **perfect for confined spaces**.
- **Container shipment** often possible!

Operational safety

- Easy-clean and easy-inspect PTE towers **reduce hygiene risks** from bacteria (eg Legionella) or biofilm inside.
- Self-cleaning cold water basin and fill above **sloped basin** to flush out dirt and debris.
- Factory tested and Eurovent certified high efficient **drift eliminators**.



- **Combined inlet shields** block sunlight to prevent biological growth in the tower, filter the air and stop water splashing outside.
- Optional [sump sweeper piping](#) prevents sediment collecting in the cold water basin.

Interested in the PTE cooling towers for cooling your process water? Contact your [BAC representative](#) for more information.

Downloads

- [PTE open cooling tower](#)
- [PTE open cooling towers - brochure](#)
- [Operating and Maintenance PTE](#)
- [Rigging and Installation PTE](#)