

# 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 <u>certified by Eurovent</u>.
- 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 <u>sound attenuation</u> is available on the discharge for further noise reduction.
- <u>Water silencers</u> 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.
- <u>Fill bundle modules</u>, 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 <u>sump sweeper piping</u> prevents sediment collecting in the cold water basin.

Interested in the PTE cooling towers for cooling your process water? Contact your <u>BAC representative</u> for more information.

# **Downloads**

- PTE open cooling tower
- PTE open cooling towers brochure
- Operating and Maintenance PTE
- Rigging and Installation PTE