S3000E

Open cooling towers







Key benefits

- Extreme low sound levels, outperforming counterflow axial fan units
- Unmatched energy savings, with less than 2 years payback
- Low maintenance and easy inspection, 25% reduction in annual maintenance costs

S3000E characteristics

Cross flow, axial fan, induced draft

Capacity range

18 - 285 l/s

Water distribution

Gravity, with weir dams for variable flow

Maximum entering water temperature

55°C standard fill
60°C with alternative fill

Typical applications

- Medium to large HVAC and industrial applications
- Replacement of field erected towers

This file has been generated from the BAC website on: 28/03/2024
For more up to date information, visit: https://www.baltimoreaircoil.eu/en/products/S3000E

Extreme low sound levels

- A choice of various fan types such as low noise axial fans and Whisper Quiet fans for **minimal surrounding noise**
- BACross fill smoothly guides the water all the way into the basin **without water splash noise.**
- Try our XES3000E line with smaller motors for extremely low noise levels.
- Factory designed, tested and rated sound attenuation is available on air inlet and discharge to cut operation noise even further.

Unmatched energy savings

- **Evaporative cooling** for system-wide energy saving at lower operating temperatures.
- **Axial fan** uses **half the energy** of similar centrifugal fan units.
- **Save pump kW!** Less pump head for this gravity water distribution system. In periods of reduced load, **weir dams** close off partly the hot water basin **saving pump energy**.
- BACross fill – factory-configured for maximum water/air contact and low air pressure drop for optimal cooling tower efficiency with limited energy consumption.
- **High efficiency fan motors**
- XES3000E line with smaller motors to reduce electricity consumption for the same cooling capacity.

Low maintenance and easy inspection

- The S3000E has a **spacious plenum** (internal area) and **easy access** to inspect and maintain safely the unit interior components. **Unrivalled comfort, while standing** inside.
- Upgrade the unit interior with **ladder and platform** for quick and safe access to all unit components.
- **Access via large hinged door to optional internal walkway**: no basin draining needed for unit interior or fill pack inspection.
- You can inspect and clean easily the core of the BACross fill **sheet by sheet without dismantling.** BACross design reduces fouling. Optional **telescopic supports** for easy replacement of the sheets.
- The fill includes integrated **drift eliminators** tested and certified by Eurovent.
- Inspection of **water distribution system** (hot water basin and nozzles) possible outside the unit, **during operation**.
- Optional distribution basin covers prevent debris collecting in the unit.
- Self-cleaning cold water basin and fill above **sloped basin** to flush out dirt and debris.
- **Fans** are easily accessible from the in- and outside
- Optional clean out port **helps remove** silt and sludge from the cooling tower basin.
- Removable **suction strainer** anti-vortex hood.
- Optional sump sweeper piping **prevents sediment collecting in the cold water basin.**
- Various corrosion-resistant materials, including the unique Baltibond hybrid coating for guaranteed long service life.

Unmatched hygiene control

- Easy-clean and easy-inspect S3000E 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.
- BACross fill for reduced fouling and easy sheet by sheet cleaning without dismantling.
- The fill includes integrated **drift eliminators** tested and certified by Eurovent.
- **Combined inlet shields** block sunlight to prevent biological growth in the tower, filter the air and stop water splashing outside.
- Optional distribution basin covers prevent debris collecting in the unit.
- Optional clean out port **helps remove** silt and sludge from the cooling tower basin.
- Optional sump sweeper piping **prevents sediment collecting in the cold water basin.**

Year round reliable operation

- Top rated thermal performance - meets **any flow and temperature needs.**
- The thermal performance of S3000E cooling towers is tested and certified by Eurovent.
- Patented BACross sheet fill with **maximum air and water contact** gives unbeatable heat transfer performance.
- Various **corrosion-resistant** materials, including the unique Baltibond® hybrid coating and FRP casing panels for guaranteed long service life.
- Optional gear-drive system for more efficiency and less maintenance.

Want to use the S3000E cooling towers to cool your process water? Contact your local BAC representative.

Downloads

- S3000E open cooling tower
- S3000E Open Cooling Tower - brochure
- Operating and Maintenance S3000E
- Rigging and installation S3000E
- Spare Parts for S3000E
- Retrofit Opportunities for S3000E