



# S3000E

## Open cooling towers



### Key benefits

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

#### S3000E characteristics

Cross flow, axial fan, induced draft

#### Capacity range

16 - 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



## Unmatched energy saving

- **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**.
- Inspection of **water distribution system** (hot water basin and nozzles) possible outside the unit, **during operation**.
- [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 [Baltiplus 810™ coating](#) for guaranteed long service life.

## 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 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**.
- **Combined inlet shields** block sunlight to prevent biological growth in the tower, filter the air and stop water splashing outside.
- [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 [CTI](#).
- Patented [BACross sheet fill](#) with **maximum air and water contact** gives unbeatable heat transfer performance.
- Various **corrosion-resistant** materials, including the [Baltiplus 810™ 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 tower to cool your process water?** Contact your [local BAC representative](#).

## Downloads

- [S3000E open cooling tower](#)
- [Operating and maintenance S3000E](#)
- [Rigging and installation S3000E](#)