

# S1500E

# 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 matching centrifugal fan units with attenuation.

#### **S1500E** characteristics

Cross flow, Axial fan, induced draft

#### **Capacity range**

8 - 215 l/s

#### **Water distribution**

Gravity with variable flow

#### Maximum entering water temperature

55°C standard fill 60°C with alternative fill

### **Typical applications**

- Medium HVAC and industrial applications
- Counterflow and crossflow unit replacements
- Tight enclosures
- Installations requiring a single air inlet



# **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.
- <u>BACross fill</u> 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
- **Multiple fan motor system** covers independent fan motor and drive assembly per fan. In case of fan failure, the other fan(s) can still operate.
- **XES1500E** line with smaller motors to reduce electricity consumption for the same cooling capacity.

# Low maintenance and easy inspection

- Unrivalled safe and comfortable access. Inspect and maintain the tower while standing and without crawling.
- The S1500E has a spacious plenum (internal area) and easy inspection/maintenance access.
- Access via large hinged door. With optional <u>internal walkway</u>: no basin draining needed for unit interior or fill pack inspection.
- 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.
- You can inspect and clean easily the core of the <u>BACross fill</u> sheet by sheet without dismantling. BACross design reduces fouling. Optional <u>telescopic fill supports</u> for easy replacement of the sheets.
- The fill includes integrated **drift eliminators**.
- 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 <u>Baltiplus 810<sup>TM</sup> coating</u> for guaranteed long service life.
- Optional motor removal davit for easy motor replacement.

#### **Extreme low sound levels**

- A choice of various fan types such as low noise axial fans and <u>Whisper Quiet fans</u> for minimal surrounding noise.
- BACross fill smoothly guides the water all the way into the basin without water splash noise.
- Single-side air inlet, and a **quieter tower rear** for more noise-sensitive areas.
- Try our **XES1500E line** with smaller motors for **extremely low noise** levels.
- Factory designed, tested and rated sound attenuation is available on air inlet to cut operation noise



even further.

# Superb hygiene control

- Proper hygiene inspection without unit shut-down.
- Easy-clean and easy-inspect S1500E 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.
- Optional <u>distribution basin</u> covers prevent debris collecting in the unit.
- Optional <u>clean out port</u> **helps remove** silt and sludge from the cooling tower basin.
- Optional <u>sump sweeper piping</u> prevents sediment collecting in the cold water basin.

## Ideal replacement unit

- Single side air inlet and discharge, fits in most enclosures.
- S1500E are ideal replacement units. Small fan motors and low spray pressure allow re-use of existing electrical cabinet.
- S1500E cooling towers are factory-built and shipped in 1 or 2 sections to reduce the overall size and weight, allowing **easy on-site section assembly** with smaller crane.

# Year round reliable operation

- Optimal unit condition thanks to inspection during operation.
- The thermal performance of S1500E cooling towers is tested and <u>CTI-certified</u>.
- Proven **freeze free** winter operation.
- **Multiple fan motor system** covers independent fan motor and drive assembly per fan. In case of fan failure, the other fan(s) can still operate.
- Various corrosion-resistant materials, including the <u>BaltiPlus 810™ coating</u> for guaranteed long service life.
- The thermal performance of S1500E cooling towers is <u>CTI-certified</u>.

Interested in the S1500E cooling tower for cooling your process water? Contact your local <u>BAC</u> representative.

# **Downloads**

• S1500E open cooling tower



- Operating and maintenance S1500E
- Rigging and installation S1500E