# **Construction details**

Open cooling towers

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#### 1. Material options

- Heavy-gauge hot-dip galvanized steel is used for external unit steel panels and structural elements featuring <u>Baltiplus Corrosion</u> <u>Protection</u>.
- The unique <u>Baltibond<sup>®</sup> hybrid coating</u> is an optional extra. A hybrid polymer coating for longer service life, applied pre-assembly to all hotdip galvanized steel components of the unit.
- Optional water contact stainless steel panels and structural elements of type 304L or 316L for extreme applications.
- Or the economical alternative: a water-contact stainless steel cold water basin. Its key components and the basin itself are stainless steel. The rest is protected with the Baltibond<sup>®</sup> hybrid coating.

#### 2. Heat transfer media

- Our heat transfer media is <u>Versapak fill</u>. Its thermal performance is proven during comprehensive <u>lab thermal performance tests</u>, and it offers you unrivalled system efficiency.
- Cross fluted fill design in easy to handle, lift and remove blocks. In polypropylene, which will not rot, decay or decompose. Optional in flame-retardant material. For operation above 55°C, try our optional high temperature fill, usable with intake water up to 65°C.
- The **removable side panel and fill blocks with lift-out-handles are** an optional extra.





### 3. Air movement system

- PTE fan system features two aluminium sheaves, belt and externally factory-mounted motor. Together with the heavy duty fan shaft bearings and the BAC Impervix motor, this guarantees optimal and year-round operational efficiency.
- Low kW and noise axial fan(s) in corrosion resistant aluminum, encased in fan cylinder with removable fan guard. Easy accessible via sliding access door. To reduce noise even further, choose for a <u>Whisper Quiet fan</u> with minimal impact on thermal performance.
- Extended lubrication lines with easily accessible grease fittings to lubricate fan shaft bearings.
- Our drift eliminators come in UV-resistant plastic, which will not rot, decay or decompose and their performance is tested and certified by Eurovent. They are assembled in easily handled and removable sections, for optimal internal access.
- Easy removable UV-resistant plastic **combined inlet shields** at air inlet. Sunlight block to prevent biological growth in tower, air filter and water splash-out stop.

### 4. Water distribution system

These consist of:

- The exclusive **BranchLok system**, including spray branches, external header clean out ports and non-clog plastic nozzles secured by rubber grommets. Unmatched cleaning system: **tool free branch removal** for easy inspection and flushing.
- Easy accessible **sloped cold water basin**, including anti-vortexing strainers, make up and **overflow** connection.

**Interested in the PTE cooling tower?** Contact your local <u>BAC</u> <u>representative</u>.



