

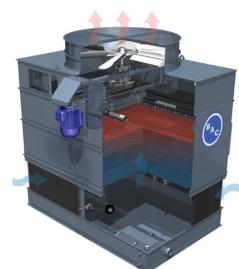
# Construction details

## Open cooling towers

### Construction details

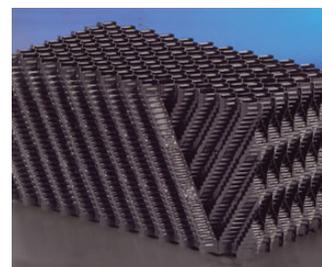
#### 1. Material options

- Heavy-gauge hot-dip galvanized steel is used for external unit steel panels and structural elements featuring [Baltiplus Corrosion Protection](#).
- The unique [Baltibond<sup>®</sup> hybrid coating](#) is an optional extra. A hybrid polymer coating for longer service life, applied pre-assembly to all hot-dip 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 [Versapak fill](#). Its thermal performance is proven during comprehensive [lab thermal performance tests](#), 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 [Whisper Quiet fan](#) 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 [BAC representative](#).