

# Construction details

## Closed circuit 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 800<sup>TM</sup> Corrosion</u> <u>Protection</u>.
- The <u>Baltiplus 810<sup>™</sup> coating</u> 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 <u>stainless steel</u> panels and structural elements of type 304 or 316 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.

#### 2. Heat transfer media

- Our heat transfer media is a cooling coil. In comprehensive <u>lab</u>
  thermal performance tests, it showed proved thermal cooler
  performance and offers you unrivalled system efficiency.
- The coil is constructed of continuous length of prime surface steel, hotdip galvanized after fabrication. Designed for maximum 10 bar operating pressure according to PED.
- Optional stainless steel coils are in type 304L or 316L.







### 3. Air movement system

- With motor-driven centrifugal fan and a V-belt drive. You can easily remove the entire mo\_ tor base for proper belt tensioning to ensure constantly correct belt alignment. Together with the heavy duty fan shaft bearings this guarantees optimal operational efficiency. Singleand multi speed motors available.
- Centrifugal fan(s) are forward-curved and nearly noiseless.
   Overcome external static pressure! Use <u>sound attenuators</u> and duct work etc. for air intake/discharge with no loss of thermal performance!
- 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.
- <u>Steel eliminators</u>, protected with the <u>Baltiplus 810<sup>TM</sup> coating</u>, for optimal corrosion protection, are also available for specific applications.



#### 4. Water distribution system

#### These consist of:

- A header and spray branches with wide non-clog plastic nozzles, secured by rubber grommets. You can easily remove, clean and flush both nozzles and spray branches.
- A cold water basin with:
  - **strainers** which are easy to lift out and the anti-vortexing device also helps stop trapped air
  - mechanical make up
  - circular access door
- Close coupled, bronze fitted centrifugal spray pump with totally enclosed fan cooled (TEFC) motor. Bleed line with metering valve installed from pump discharge to overflow.

**Like to know more about the VFL construction details?** Contact your local BAC representative.

