

# Construction details

## Adiabatic cooling

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#### 1. Material options

- Industrial grade Stainless Steel and an exclusive Thermosetting Hybrid Polymer coating on all structural panels.

#### 2. Heat transfer media

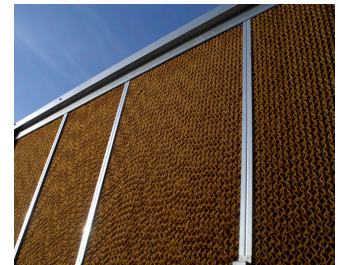
- Robust industrial grade all aluminium, **microchannel coils**.
- **Superior corrosion resistant** coils: high quality epoxy coating and all aluminium construction, special alloys and brazing flux.
- Proof tested and helium leak checked
- Thicker aluminium channel walls
- Unique top feed design with vertical tubes allowing for **gravity drainage** of the condensed refrigerant. No need for external manifolding.

#### 3. Air movement system

- **Axial fan** with **direct drive** integrated VSCE motor(s) and fan guard.

#### 4. Adiabatic pre-cooler

- Evaporative cooling pad of **impregnated cellulose** with different flute angles.





## 5. EcoFlex controls

- **Energy monitoring:** measures the energy use of the TrilliumSeries condenser and verifies efficient operation over the life of the equipment.
- **Water monitoring:** measures the water use and maintains efficient operation of the unit.
- **Alarms:** signals provided for fans, pumps or valves to reduce instances of high system head pressure.
- **Communication cards:** allows for seamless integration over Modbus and BACnet to monitor all system components in a single location.
- **Self clean mode:** once every 24 hours, the EcoFlex controls turn on the self clean mode which reverses the fans and blows dirt/debris off the microchannel and the pre-cooler media.

**Like to know more about the TSDC TrilliumSeries condenser construction details?** Contact your [local BAC representative](#).