



# Construction details

## Refrigerant condensers

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#### 1. Material options

- Heavy guage steel is used for the external steel panels and structural elements, featuring the [Baltiplus 800™ material option](#).
- The casing sides panels are made of [FRP \(Fibreglass Reinforced Polyester\)](#) are light and can be easily slid upwards to access the heat exchange coil.
- **Optional stainless steel** panels and structural elements with type 304L or 316L construction is available for additional corrosion resistance.
- 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 [lab 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, hot-dip galvanized after fabrication. Designed for maximum 18 bar operating pressure according to PER. Pneumatically tested at 26.5 bar.
- **Sloped tubes** for free drainage of the coil.
- **Optional stainless steel coils** are in type 304L or 316L.



Try our ECI coil options:

- **Multiple circuit coils (split coils)** for your halocarbon refrigerants, maintaining individual compressor systems. Or use it for compressor jacket water or glycol cooling.
- **High pressure coils** are designed for 28 bar operating pressure and pneumatically tested for 40 bar. Hot-dip galvanized after fabrication.

All coils are designed for low pressure drop with sloping tubes for free drainage of fluid.

## 3. Air movement system

- **ECI fan system** features **low kW and noise axial fan(s)** in corrosion resistant aluminum, with polypropylene blades encased within the fan cylinder with removable fan guard.
- All ECI models use **multiple independently driven fans**, providing the user with additional capacity control.
- **Our drift eliminators** come in UV-resistant plastic, which will not rot, decay or decompose. They are assembled in **easily handled and removable sections**, for optimal internal access.
- Easy removable UV-resistant plastic **combined inlet shields** at air inlet, block sunlight block to prevent biological growth in tower, filter air and stop water splashing outside.



## 4. Water distribution system

These consist of:

- **Spray branches** with non-clog plastic **nozzles** secured by rubber grommets.
- Easy accessible **sloped cold water basin**, including anti-vortexing steel strainer, make up and overflow connection.
- Close coupled, bronze fitted centrifugal **spray pump** with totally enclosed fan cooled (TEFC) motor.
- Bleed line with metering valve is installed from pump discharge to overflow.

Interested in the ECI evaporative condenser? Contact your local [BAC representative](#).