# **CXVE** Refrigerant condensers









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## Key benefits

- Star in energy efficiency
- Low maintenance and easy inspection
- Unmatched hygiene control

#### **CXVE** characteristics

- Combined flow, axial fan, induced draft
- PED 2014/68/EU coil design

#### Capacity range

475 - 2770 kW (for single cell models, nominal R717 kW's)

#### **Typical applications**

• Industrial refrigeration applications with low sound and energy requirements.

## Star in energy efficiency

- Evaporative cooling\_PLUS unique combined heat transfer system for minimized system-wide energy consumption. This patented combined flow design from BAC ensures unrivalled efficient heat rejection at the lowest possible energy input.
- Axial fan uses half the energy of similar centrifugal fan units.
- <u>Bacross<sup>®</sup> II fill</u> factory-configured for unrivalled water/air contact and minimal air pressure drop. Guarantees **optimal condenser efficiency**.
- High efficiency fan motors.

### Low maintenance and easy inspection

- Inspection of water distribution system (spray branches and nozzles) possible outside the unit, during operation. Inspect and maintain safely CXVE condensers with unrivalled comfort, while standing inside.
- The CXVE has a spacious plenum (internal area) and easy inspection/maintenance access.
- Access via large hinged door to optional internal walkway: no basin draining needed for unit interior inspection.
- Easy to inspect the **coil** during operation from the outside or from the inside via the **removable drift** eliminator modules.
- Easy to inspect the **fill** from the inside and via the **removable combined inlet shields** from the outside.
- The patented <u>Bacross<sup>®</sup> II fill</u> sheets reduce fouling and are telescopically supported, allowing complete inspection of the fill core without dismantling.
- Self-cleaning cold water basin and fill above **sloped basin** to flush out dirt and debris.
- Fans are easily accessible from the in- and outside
- Optional clean out port helps remove silt and sludge from the cooling tower basin.
- Removable suction strainer anti-vortex hood.
- Make-up, drain and overflow easily **accessible** for inspection and cleaning.

## Unmatched hygiene control

- Easy-clean and easy-inspect CXVE condensers **reduce hygiene risks** from bacteria (e.g. Legionella) or biofilm inside.
- The patented <u>Bacross<sup>®</sup> II fill</u> sheets reduce fouling and are telescopically supported, allowing complete inspection AND cleaning of the fill core without dismantling.
- **Combined inlet shields** block sunlight to prevent biological growth in the tower, filter the air and stop water splashing outside.
- High efficient drift eliminators certified by Eurovent to prevent droplets escaping into the air.
- Optional clean out port helps remove silt and sludge from the cooling tower basin.
- Optional sump sweeper piping prevents sediment collecting in the cold water basin.

## **Reduced refrigerant charge**

- There is **less coil surface** required because of the patented combined heat transfer system. This also means less refrigerant charge.
- Using less refrigerant charge decreases the operating charge of the overall system and system costs.

#### Year-round reliable operation

- Unique and patented heat transfer system: featuring <u>combined flow via heat exchange coil and fill pack</u>, for fine temperature applications and thermal challenges.
- Multiple fan motor system covers independent fan motor and drive assembly per fan for stand-by in case of fan failure.
- Various corrosion-resistant materials, including the unique <u>Baltibond<sup>®</sup> hybrid coating</u> for guaranteed long service life.
- Single air inlet and discharge, fits in most enclosures.

#### Ultra silent design

- CXVE units include **low noise axial fans** for minimal surrounding noise. To reduce noise even further, choose for Whisper Quiet fans.
- Factory designed, tested and rated sound attenuation is available on air inlet to cut operation noise even further. Single-side air inlet, and a **quieter condenser rear** for more noise-sensitive areas.
- <u>BACross<sup>®</sup> II fill</u> guides smoothly the water all the way into the basin without water splash noise.

#### Cheap to install

CXVE condensers are factory-built and shipped in sections for larger models to reduce the overall size and weight, allowing **easy on-site section assembly with smaller crane**.

You want to use the CXVE condenser for your industrial refrigeration application? Contact your local BAC representative for more information.

## **Downloads**

- CXVE refrigerant condenser
- <u>CXVE evaporative condenser brochure</u>
- Operating and Maintenance CXVE
- Rigging and Installation CXVE
- <u>CXVE value pack</u>
- <u>Aviko The Netherlands CXVE</u>
- Spare Parts for CXVE
- <u>Retrofit Opportunities for CXVE</u>
- <u>Combined Flow Technology</u>