

# CXVE

## Refrigerant condensers



### 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.
- [Bacross® II fill](#) 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 [Bacross® II fill](#) 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 [Bacross® II fill](#) 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 [combined flow via heat exchange coil and fill pack](#), 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 [Baltibond® hybrid coating](#) 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.
- [BACross® II fill](#) 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](#)
- [CXVE evaporative condenser - brochure](#)
- [Operating and Maintenance CXVE](#)
- [Rigging and Installation CXVE](#)
- [CXVE value pack](#)
- [Aviko - The Netherlands - CXVE](#)
- [Spare Parts for CXVE](#)
- [Retrofit Opportunities for CXVE](#)
- [Combined Flow Technology](#)