

# FXVS

## Closed circuit cooling towers



### Key benefits

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

#### FXVS characteristics

Combined flow, axial fan, induced draft

#### Capacity range

up to 1890 kW

#### Water distribution

pressurized

#### Maximum entering fluid temperature

82°C

#### Typical applications

- Small to medium HVAC and industrial applications such as water source heat pump loops and air compressor cooling.
- Tight enclosures and installations requiring a single air inlet.
- Ideal for unit replacement



## 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 cooling tower efficiency**.
- **High efficiency fan motors**.

## Low maintenance and easy inspection

- Inspect and maintain safely towers with **unrivalled comfort, while standing** inside.
- The FXVS 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.
- Inspection of **water distribution system** (spray branches and nozzles) possible outside the unit, **during operation**.
- 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 FXVS towers **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** to prevent droplets escaping into the air. Their performance is tested and certified by Eurovent.
- 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**.

## Year-round reliable performance



- The **thermal performance** of FXVS is tested and certified by **CTI-Eurovent**.
- 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

- FXVS 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 tower 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

- FXVS cooling towers 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 FXVS cooling tower to cool your process water?** Contact your local [BAC representative](#).

## Downloads

- [FXVS closed circuit cooling towers](#)
- [FXVS closed circuit cooling towers \(brochure\)](#)
- [Operating and Maintenance FXVS](#)
- [Rigging and installation FXVS](#)
- [BAC - Eurovent Certification](#)
- [Spare Parts for FXVS](#)
- [Retrofit Opportunities for FXVS](#)
- [Combined Flow Technology](#)