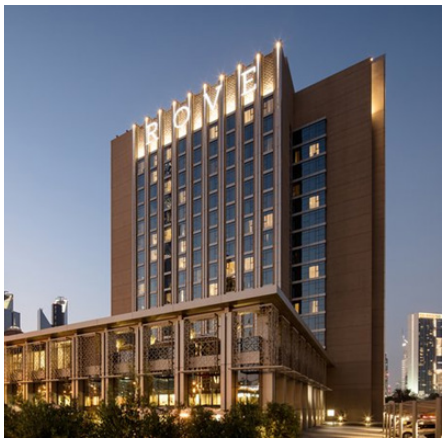
Project report

Nothing to worry about in this dusty environment with BAC FXVS closed circuit cooling towers.

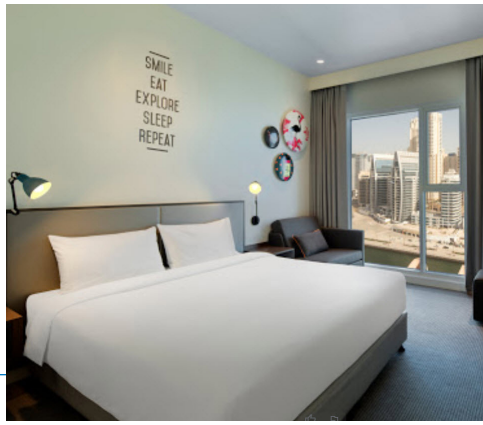


The Middle East climate is known for its extreme temperatures. In peak summer the thermometer averages 50 C°. So staying in a hotel in that area, you count on the air conditioning to be on point.
The Rove Hotel in the Dubai Marina area wanted to ensure its customers could enjoy a cool and comfortable stay in their hotel. Whatever the time of year, day and night.

They needed a cooling solution that would guarantee the **minimal downtime and maintenance**, so they could offer their customer the expected service, all year long.

Requirements & customer needs

- Reliable Performance
- Peace of Mind
- Easy Maintenance



Challenge

To avoid clogging of the chiller coils, which leads to downtime & performance loss

Cooling in a dusty environment presents a few challenges. The biggest one is keeping the condenser coils within the chiller **clean**, so it can continually operate at a high level. When matched with an open cooling tower, the opportunity arises for fouled water to enter the chiller and cause clogging.
Cleaning the chiller coils is not only a **time-consuming and expensive job,** it also means the chiller is **out of service** for some time, which in this case is quite unacceptable. Cooling the chiller with a closed circuit fluid cooler will prevent any sand, scale, biofilm or other fouling and hence **guarantee maximum efficiency and uptime all year long.**

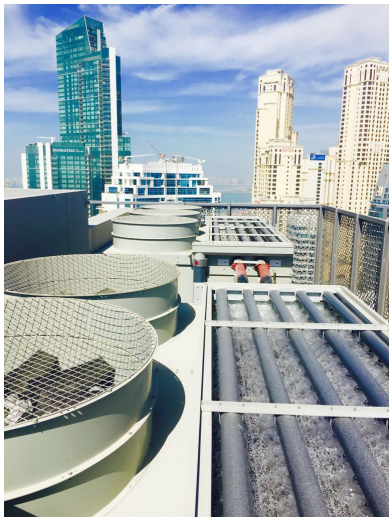
BALTIMORE AIRCOIL COMPANY

The solution for optimal cooling performance in a dusty environment

Closed circuit cooling tower FXVS

Reliable Performance

Unmatched hygiene control of the FXVS tower helps to keep the chiller coils clean



- Easy to clean and to inspect FXVS towers reduce hygiene risks from bacteria or biofilm inside
- Patented BACross II fill sheets reduce fouling, 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
- Clean out port helps remove silt and sludge from the cooling tower basin
- Sump sweeper piping prevents sediment collecting in the cold water basin
- Coil on fill technology prevents scale to form on the coil thereby maximing the thermal performance throughout the year

Peace of Mind

Performance and operation is guaranteed

The thermal performance of FXVS towers is tested and certified by CTI-Eurovent.
The benefits of certification:

- It **eliminates the potential of excessive operating costs** due to deficient equipment
- It gives confidence that the closed circuit cooling tower will **perform at the published capacities**
- It demonstrates code compliance and **risk reduction** due to independent validation and verification.

Low Maintenance

Inspect and maintain safely, and with ease

- The FXVS has a spacious plenum, accesible via a large hinged access door to the internal walkway.
- Inspection of the **water distribution system** is possible from outside of the unit, during operation. The **coil** as well can be inspected during operation from both the outside and the inside via the removable drift eliminator modules. The **fill** can be inspected from the inside, and from the outside via the removable combined inlet shields.
- Fans are easily accessible from the in- and outside.

BALTIMORE AIRCOIL COMPANY

BLUE by nature
GREEN at heart

For more information contact:
Baltimore Aircoil International nv
info@BaltimoreAircoil.eu - www.BaltimoreAircoil.eu
info@balticare.com - www.Balticare.com