



HYDRO POWERED COOLING TOWERS

The Greenest Solution

- » Reduced energy cost
- » Reduced operating and maintenance cost
- » Consistent Summer and Winter operation
- » Ideal for explosion-proof environments
- » Modular unit design

Intelligent and innovative engineering

Expertise

AQUAFAN Cooling Towers were originally designed and produced in 1952. WATCO International PTE Ltd, with over 30 years experience in cooling tower design and installation, acquired the designs in the 1980's and has since developed and innovated the modules by exploiting modern corrosion-resistant materials and cumulative technical experience. Headquartered in Singapore WATCO supplies and installs throughout Europe, Middle East, Asia and the Americas, providing innovative and cost-effective global cooling solutions.

Intelligent engineering

The AQUAFAN system utilizes a unique water turbine that is powered by the pressure of the circulating pump. This turbine generates sufficient fan speed and even water distribution. The turbine is variable to cooling volume requirements.



Modular cell design

The modular cell design enables infinitely variable capacity coverage with identical modules.

Lowest energy consumption

The AQUAFAN system utilizes considerable less energy than conventional tower designs. Savings up to 20% at full load are achievable. This increases considerably by up to 50% when the tower is operating at partial thermal load.

Low maintenance

All components used are corrosion resistant, including the tur-bine bearing, in Teflon®, that is lubricated by the water flow. The absence of electric motors, drive shafts and gear drives enables a drastic reduction in maintenance cost and shut down time. The modular design enables access to individual units whilst the tower is operating, negating complete tower shut-down.

Explosion-proof

The absence of electrical motors and spark-igniting materials allows a confident installation in hazardous environments.

Warranty

- » 24 months general warranty
- » 60 months on structure.
- » Operational Lifetime 25 years



Reliable design criteria

- » The AQUAFAN cooling towers are available in 2 module sizes: AQF 8 is 2.4 x 2.4 m AQF 12 is 3.6 x 3.6 m.
- » The modules have been tested extensively under controlled conditions.
- » The multiplication of capacity forecast on grouped modules is therefore accurately predictable as there are no efficiency losses as experienced with large format fans.
- » Fine tuning performance to match more precisely with process demands and climatic conditions, is simplified.

Features

The AQUAFAN Cooling Tower is:

- » Specially designed for industrial, corrosive and flame-proof environments.
- » Constructed from corrosion-resistant FRP pultruded profiles that is particularly suitable for sea & brackish water applications.
- » Structural members are FRP pultruded profiles and 304 St/St.

Benefits

The AQUAFAN Cooling Tower provides substantial:

- » Reduction in energy costs
- » Reduction in operational maintenance costs
- » Reduction in plant down time
- » Flexibility in matching actual demand
- » Reduced lifetime costs





**The heart of the
cooling tower.**
No motor or speed reducer



Water distribution in an
AQUAFAN Cooling Tower

Design service

To find out how your process can benefit by installing the AQUAFAN system, please submit your process criteria through our website.

You will be contacted by our local engineer, who will present the best possible solutions with AQUAFAN.



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