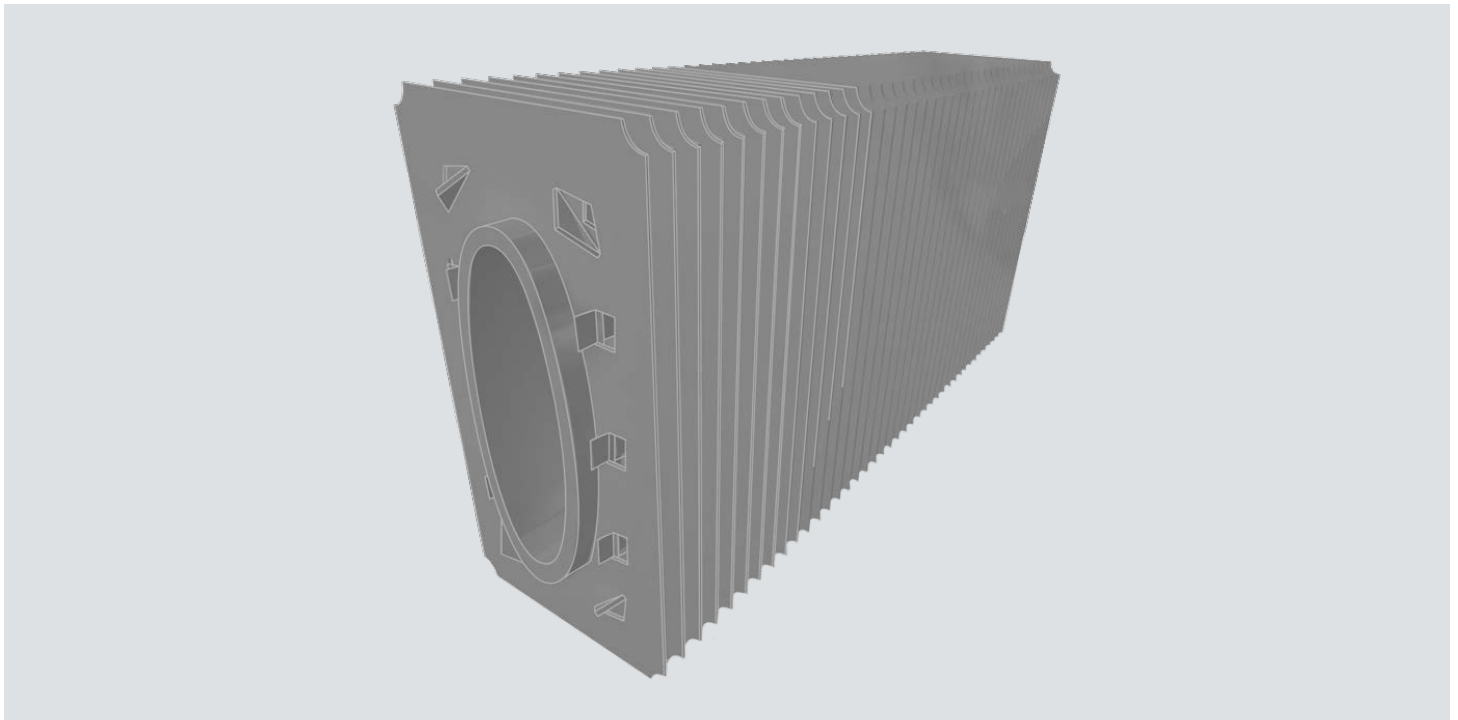


Leading technology for individual solutions

THE ELLIPTICAL FIN TUBE – REINVENTED



Inspired by concept of efficiency – Making proven solutions even better

The hot dip galvanized elliptical fin tube – with its favorable flow characteristics – has been proving its marketability for decades and will continue to play an outstanding role on the heat exchanger market in the future.

Wherever heat transfer is needed in industrial production processes, the elliptical fin tube has demonstrated its high efficiency in areas of application that include the following:

- Refineries
 - Petrochemical industry
 - Steel mills and the rest of the steel industry
 - Natural-gas facilities
 - Power plants
 - Paper industry
 - Textile industry
- and others

Experience, knowledge and precision

Kelvion has conducted development work in collaboration with the Westphalian University of Applied Sciences in Gelsenkirchen, Germany. Their work has shown that the elliptical fin tube still offered room for optimization.

With the method of numerical flow simulation (CFD) we have e.g. investigated the effects of new turbulators on the fins. The results were validated by wind tunnel measurements. A patent was applied for the new invention which is called: CW Tube

High efficiency

- in heat transfer
- flow performance results in a product with
 - low operating expenses
 - less material usage
 - low CO₂-emissions
 - low noise emissions

Lighter, higher efficiency and more silent –

The CW Tube redefines standards

As a result of reduction in specific air-side pressure drop, while achieving a higher heat transfer coefficient at the same time, the CW Tube reaches the following:

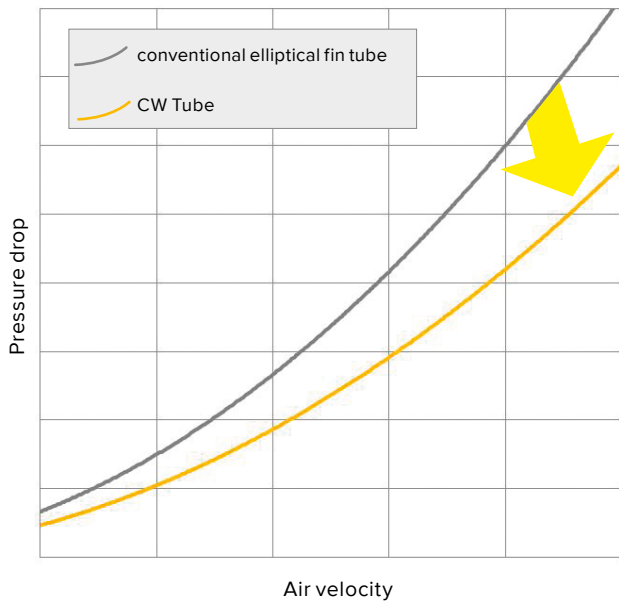
- up to 25 % less requirement of heat exchanger tubes
- up to 30 % less electrical power consumption of the fans

This pays off in many respects: Both investment and operating costs can be saved. In parallel the environment will be protected by reduction of CO₂- and noise emission.

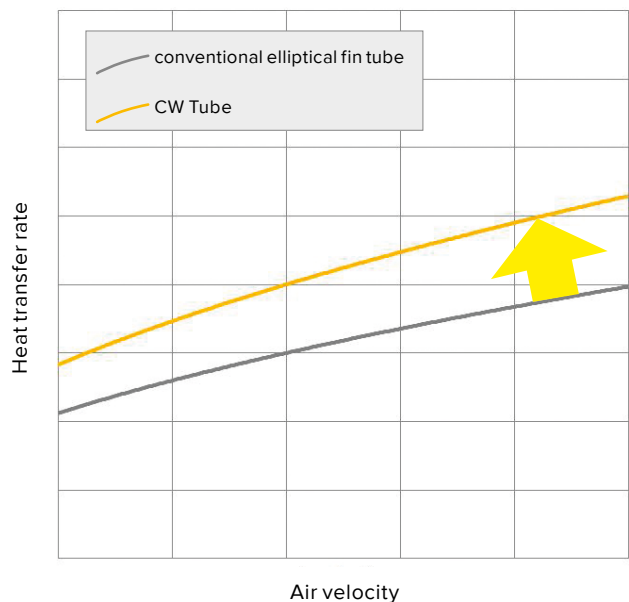
These benefits get together with a high degree of product reliability, even under extreme conditions.

Reduction of ...		Increase of ...	
Power consumption		Efficiency	
Material usage		Thermal performance	
Carbon footprint		Solidity	
Weight		Corrosion resistance	
Noise level		Cleanability	
and more...		and more...	

Pressure drop



Heat transfer



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