



# heat transfer society

**WEBINAR FORUM**

**Thursday 28<sup>th</sup> October 2021**

## **“The Principles of Aerodynamics and Acoustics of Ultra Low Noise Fans”**

*Marco Olde Heuvel, Business Development Manager, HOWDEN*

Ultra-Low Noise Fans play a very important role in the design for air-coolers and cooling towers. Of course one of the first characteristics engineers and designers think of, is the low noise they need for their cooler in which the fan plays an important and dominant role. However, ultra-low noise fans also offer the possibility to achieve other benefits such as higher cooler efficiency, reduce plot area and footprint and even reduce cost of a cooler in certain circumstances.

Howden is a global organization with bases in 27 countries spread across every continent. Howden group is focusing on optimized engineering and design. They bring a unique combination of worldwide experience and expertise supported by an agile and responsive local presence. Over the course of 50 years' experience in cooling fan technology (formally known as Stork Cooling Fans), the cutting edge innovations have shaped customer expectations, especially with their famous forward sickle shaped blades which have been introduced in the 90's. They have been leading the world in the development of high efficiency, low-noise cooling fans for several decades by focusing on the fundamental performance and noise issues.

The presentation will cover the main aspects of low-noise designs, fan optimization and Howden's focus on the quest to eliminate noise and vibration, starting from first principles. Rather than ways of masking or attenuating noise, at Howden they set out to remove the sources.

The presentation will start at **12 noon** (for one hour)

**Free Webinar Registration Link: [HERE](#)**

[www.hts.org.uk](http://www.hts.org.uk)

If undelivered, please return to Colin Weil, 7 Sequoia Park, Hatch End, Pinner, Middlesex HA5 4BS  
Enquiries: David Norton, Tel: 01444 237575, Email: [dnorton@bihl.com](mailto:dnorton@bihl.com)