

Axial Fans Low Noise

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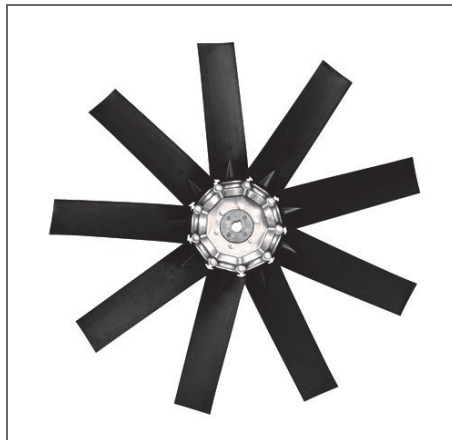
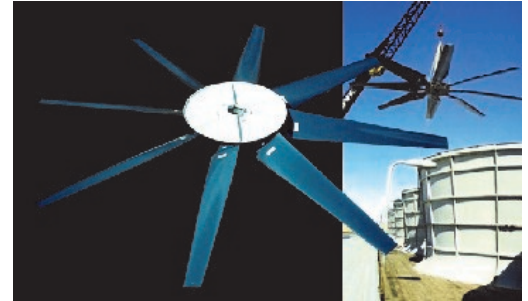
Mechanical Services

Occupational Health, Safety and Environment (OHSE) laws are vital for any cooling tower application, especially when it comes to noise. Sound levels are required to be kept within certain limits depending on location of the unit. These legislative measures address concerns such as noise mapping, protection against the effects of noise exposure, action plans for reduction and noise emissions. Compliance is mandatory.

This is where low-noise Axial fans come in. While this is only one aspect of noise control, it is an important one.

Features of a low noise axial fan include:

- ⇒ Twisted design to reduce turbulence across blade surface
- ⇒ Thin trailing edge to reduce vortex created
- ⇒ Superior overall blade design
- ⇒ Positioning of the fan i.e. putting as much distance as possible between the fan and any obstructions (which also ensures a more aerodynamic cooling system)
- ⇒ Inlet geometry designed to reduce turbulence and improve the fan's operating efficiency
- ⇒ Tight tip clearance to reduce vortex shedding (air leaving the blade) at the tip thus reducing low wake turbulence and decibel levels.
- ⇒ Fan speed reduction whenever possible as the higher the RPM's, the more noise. One solution is to use a larger fan as it can run at a slower speed and still generate the same airflow with the minimum of noise.



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