

## Solutions for success

Compact solution for optimal performance in a misting application

**ebm**papst

The engineer's choice



### Compact solution for optimal performance in a misting application

Misting systems are used in outdoor cooling applications where conventional air-conditioning systems are ineffective at achieving uniform air distribution. Misting is typically utilized in hot climates and is often seen in restaurants, sports arenas, and other open air social venues. The mist is propelled by a fan which helps to significantly decrease the temperature of the targeted area without causing wetness or discomfort to people.

A commercial misting system manufacturer needed a large fan (400 mm / 16 inch diameter) to integrate into one of their systems. Initially, the ebm-papst W4E400 series axial fan was chosen. A challenge arose when it was realized that a more compact design was required due to space limitations caused by the misting nozzle within the unit. By removing the fan housing and finger guard, the customer was able to integrate the ebm-papst motor & fan blade into their own custom housing. Due to ebm-papst's ability to provide a customized solution, the customer was able to achieve the compact form factor they needed as well as the quiet and optimally uniform misting system they desired.

- Compact external rotor design provides a low profile
- W4E400 series axial fan customized → A4E400
- Maintenance-free ball bearings
- Energy efficient and low noise

