

Motorized Impeller Array

A fan that keeps on flowing | smaller footprint, higher efficiencies



The Trane® Motorized Impeller (MI) Array

is an electronically commutated motor (ECM) array that addresses the application and installation challenges engineers, business owners and contractors face when selecting and installing an air handler fan section.

The new energy-efficient MI Array features a compact footprint that can be specified to fit through a space as small as a single door, simplifying installation even in a retrofit. Higher fan quantities, greater wheel diameter options and high-static pressure capabilities enable you to find the right fan combination for your application needs.

Designed to endure rigorous performance demands, the MI Array allows for continued operation should a fan go down. In addition to its effortless redundancy, the array's easy serviceability, static pressure capabilities and high efficiency can make it ideal for the demands of the healthcare and higher education sectors.

Reduced First Cost

The MI Array can offer reduced costs in both casing and installation due to its significantly reduced footprint when compared to a traditional air handler layout. The motorized impeller control panel reduces unit footprint and simplifies or streamlines power connection. This reduces overall unit cost as well as the electrical costs and further simplifies installation and maintenance.

Engineered for Efficient System Design

The Trane MI Array features evenly distributed fans to ensure a consistent airflow across coils and filter while multiple motors enable a smaller electrical load. Engineered to endure, the Trane MI array performs more efficiently at part load than conventional fan technologies, reducing electrical draw.

Compact Footprint Simplifies Installation

The shorter MI fans allow the fan section to be small enough to fit through double doors, simplifying installation. The fan array section can even be specified to ship as small as 30 inches in length, enabling it to fit through a single door, which can save significant retrofit costs in especially tight applications.



If your application requires even smaller pieces for assembly, our engineers designed the MI Array for simplified disassembly and reassembly to accommodate transport through a small passage.

Key Features

- Available up to 70,000 CFM
- Motor controllers wired back to single box making the array simple to control
- Backdraft dampers available for all array combinations
- Effortless redundancy.
- Array features AMCA 207 wire-to-air efficiency
- High Voltage control box with hand-off auto (HOA) and 65kva short circuit current rating (SCCR) helps ensure electrical safety on larger applications, facilitating ease of start-up and service
- Fan size and quantity are selectable for every cabinet size making it easy to optimize your selection.



Tailored, Redundant Performance

The MI array offers static pressure capabilities as high as 9 inches w.g., allowing the array to meet the needs of a broad range of applications. Customize the MI array to fit your application needs. You can select up to 15 fans for your array and specify an array configuration to fit your specific space requirements. You also can choose from 7 wheel diameter options for your array based on your balance of performance and price-point.

You can count on Trane's MI Array to continue meeting the space requirements during crucial moments. In the unlikely event that one of the fans should go down, the remaining fans continue to deliver the required airflow.

Maintenance

The MI array fan assembly is more compact, making it easier to handle due to smaller individual fan size and weight. The fan assembly, motor and inverter packaged together as a "plug and play" component, simplifying maintenance; there's no need to grease a motor or replace belts, ever.

Should a replacement part ever be needed, Trane service locations across the United States stock MI Array parts which can quickly be obtained by Trane technicians.



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