

Customisable Matrix of Fans for Increased Reliability and Efficiency

Fantech's locally built and customisable fan array uses multiple fans operating in parallel to provide greater efficiency and redundancy in critical applications.



FANTECH
Intelligent Ventilation

A Continuous Airflow Solution

Fantech uses a matrix of smaller fans that work in parallel instead of a single, larger unit. It guarantees a fail-safe operation in the event of planned or unplanned maintenance, ensuring that airflow is not disrupted. These customisable arrays can be easily adapted to the required dimensional constraints and airflow performance of a project, resulting in a more compact and efficient solution at every duty point.

Optimising the airflow in proportion to the number of fans while maintaining consistent pressure conditions within the space is essential. At Fantech, we provide a range of motor and control solutions that complement each other, along with local expertise and support to ensure maximum efficiency, particularly during the planning stage.

The Matrix EC Advantage

Looking for locally built fans that can be used in data centre cooling or air handling unit installations?

Our Fantech matrix of fans provides the perfect solution. This array of fans comes equipped with EC motors that can easily replace older, larger fans when mounted in parallel, resulting in more efficient and cost-effective retrofit solutions. Our selection of EC fans is highly adaptable to each project, which lowers energy costs. With Electronically Commutated fans, there is no need for external VSDs, current overloads, or motor phase protection. Our EC fans integrate variable speed control to ensure accurate fan performance that matches varying airflow requirements.



Fully Customisable Modular System

Fantech is dedicated to assisting customers in selecting a cost-effective and energy-efficient matrix system based on their installation parameters and the desired level of redundancy. For example, when it comes to cooling data centres, an array of fans usually operates on a part-load basis during cooler months. However, during summer months, when outside temperatures are high, the fans may need to run at full capacity. With a Fantech fan array that features EC motors and a supporting Aviator control system, you can rest assured that the system will dynamically adjust to meet the required demand. You can view and adjust the set points and parameters through a BMS.

Our modular matrix of fans can be stacked or arranged in rows to match the available space. Smaller stackable fans typically require a smaller footprint. Additionally, our fan system can keep running even when a fan needs servicing. During servicing, the speed of the remaining fans in the grid can be adjusted to maintain stable air performance. We consider the relevant redundancy requirements during the selection process to ensure that your needs are met.



Range of Applications, Configurations & Options

Our fan matrix is a highly versatile solution that can be employed in a wide variety of applications.

At Fantech, we offer our fan array solution in adjustable pitch axial, centrifugal, or mixed-flow fan configurations, depending on your specific needs. We can also provide complementary ancillaries, such as dampers, louvres, attenuators, and control systems, to seamlessly integrate into your application requirements.

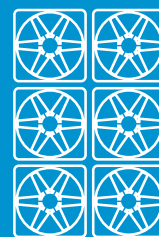
Axial fans used in parallel are an increasingly popular choice for data centres that require free cooling. Alternately, centrifugal fans are typically the preferred option for air handling systems, as they are designed for higher-pressure development. In situations where a combination of higher air volume and pressure is required, a mixed-flow variation may be the best solution.



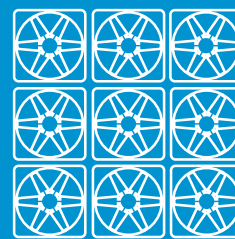
At Fantech, we manufacture and support our fan array solution locally, which means we can offer a customisable solution for almost any application using a large range of fan sizes, types, and technologies. It makes our fan array system an ideal choice for your parallel fan application.



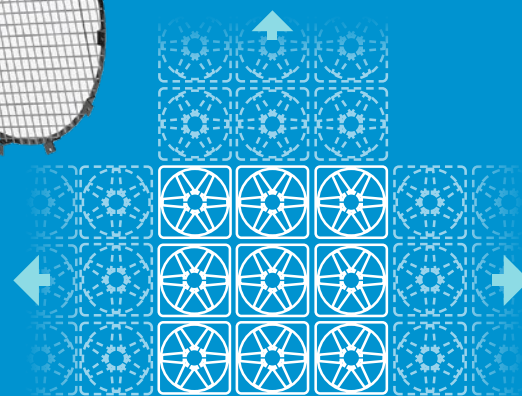
1 X 3 Fan Array



2 X 3 Fan Array



3 X 3 Fan Array



Modular Fan Array.

Unlimited Fans can be stacked or arranged in rows to match the available space.



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Specifications and design subject to change without notice.