

PRECISION COOLING

SYSTEMS



FLEXAIR SERİSİ
25-150 kW

SMOOTHAIR SERİSİ
5-20 kW

INTENSEAIR SERİSİ
25-65 kW



HIGHLIGHTS

- Precisely Control Temperature and Humidity
- High Air Volume for Circulation
- Designed for 7×24 Running High Availability
- Powerful Monitoring Access

Highly Reliable and Efficient Cooling Solutions

- Precision cooling is an air conditioning or cooling technique that is specifically designed for use in IT equipment and environments and is implemented in devices that directly cool electronic and IT equipment. It has better air filtration capabilities, higher air flow and advanced humidity control mechanisms than standard cooling techniques.
- Makelsan offers Precision Cooling solutions in order to provide optimized and efficiency methods for data center cooling.

CERTIFICATES



FLEXAIR SERIES

25-150 kW

A perfect Precision Air Conditioner Solution
that Combines Efficiency, Reliability,
Environment Protection, Flexibility

7 Kinds of Cooling Types

FlexAir is available with 7 kinds of cooling types: air cooled, water cooled, chilled water, glycol cooled, air dual cooled, water dual cooled and dual chilled water systems. The dual cooling system of FlexAir Series precision air conditioner is better in the aspect of redundancy, and stronger fault strain ability.

Wide Cooling Capacity Range

The cooling capacity of FlexAir is from 25kW to 150kW and is extendable to 200kW above, to overcome the mega data center capacity challenges.



SMOOTHAIR SERIES

5-20 kW

A perfect Precision Air Conditioner
A Solution for Small and Medium-sized
Data Center

Green and Energy-Saving

High EER: Dictated matching of refrigeration system to ensure high energy efficiency ratio. High Sensible Heat Ratio: Designed with large air volume and small enthalpy difference to ensure the high sensible heat ratio. Green Refrigerant: R410a.

Designed to Operate 7x24

- Makelsan Precision air conditioners are designed to operate for 365day x 24hours non-stop in high efficiency and reliable status.
- The unit is designed to work under extreme weather condition, temperature down to -40°C when configured with the Low Temperature Kit.
- Step less speed regulating outdoor fan system. Unit adaptable to all different outdoor condition.
- Thermal expansion valve ensures, which ensures system be quick response to the changing working condition.



INTENSEAIR SERIES

25-65 kW

A perfect Inrow Precision Air Conditioner
A Solution for High Heat Density
Data Center

Precise and Measurable Cooling

Matching to the heat source, the IntenseAir series inrow precision air conditioner directly cools the high temperature hot air from the servers, shortens the air flow path, prevents the energy waste of cold and hot air mix. Through the real-time monitoring of the heat source load, it accurately regulates the cooling output and the air flow output, make the cooling capacity and air volume accurate and predictable, realizes the targeted and accurate cooling, perfectly solves the high heat density problems of data centers.



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