



## AIRTECH™

Air handling units



### AIRTECH™

*The technological choice*

*Air flow rate : 25000 to 66000 m<sup>3</sup>/h*



Specifications	Class
	Size 375 to 600
Mechanical strength	D2
Airtightness	L1
Filter bypass leak	F9
Thermal transmission	T2
Thermal bridge	TB2

## AIR HANDLING FOR ALL APPLICATIONS

Thanks to its large range of air flows and comprehensive selection of air handling features, **AIRTECH™** efficiently responds to all requirements in industrial and service sector applications.

The specifications for this product will always fulfil requirements thanks to the broad spectrum of solutions on offer, the product's excellent modularity, and the multiple installation options (horizontal, vertical, stacked, juxtaposed, indoor or outdoor).

## HIGH PERFORMANCE IN LINE WITH NEW STANDARDS

**AIRTECH™** air handling units have been designed in accordance with the recommendations of standard EN 13053 and to meet the best classifications of standard EN 1886: Thermal transmission and bridging, casing airtightness, filter bypass leakage, complying with the requirements for fans concerning mechanical safety.

All components and accessories (handles, closing latches, wall feedthroughs, portholes, sealing gaskets) have been developed by CIAT to achieve exceptional performance, thanks to its special benchmark design.

## LATEST-GENERATION DESIGN

### Casing

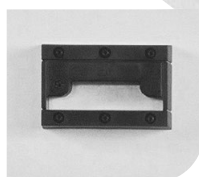
- ❶ Double-skin panels, painted external panel, 50-mm insulation
- ❷ At least one removable panel for each function in accordance with EN 13053
- ❸ Smooth panels devoid of protruding internal screws in accordance with EN 13053
- ❹ Access panels as standard on functions requiring maintenance
- ❺ Offset hinges and handles with closing latches, in composite material: Resistance to corrosion and temperatures from -40 °C to +80 °C
- ❻ Multifunction ergonomic support which enables and is suitable for handling, installation, block connection, panel ventilation, a control system
- ❼ High-tech profiled door seal in a special material. The high-quality fixed panels feature a gasket which contributes to the casing airtightness classification in accordance with EN 1886
- ❽ Large-section square porthole in accordance with EN 13053, dual-wall construction with increased leaktightness thanks to the internal connection bellows.

### Air intake

- ❾ Damper with opposed blades, driven by toothed wheels, "Class 3" tightness according to EN 1751



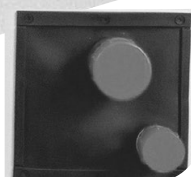
❺ Composite hinge



❺ Opening handle



❶❸ Condensate pan



❶❹ Sealing flanges



❶❶ Adjustable motor support bracket

**Filters**

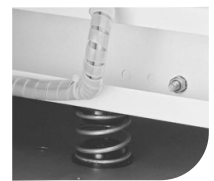
- ⑩ Parallel clamping filter tracks. Class F9 in accordance with EN 1886
- ⑪ Pressure tappings on each filtration stage

**Exchangers**

- ⑫ Up to three threaded connections as standard
- ⑬ Inclined condensate drain pan in accordance with EN 13053
- ⑭ Sealing flange, total air efficiency and thermal bridge rupture between the pipes and the casing

**Fans**

- ⑮ Three types of fan available: LP, MP and plug fans (with AC or EC motor) in a range of sizes
- ⑯ Fans installed on an anti-vibration chassis with spring mounts as standard for all AC motor solutions
- ⑰ Internal flexible connector between the fan and the casing for all AC motor solutions
- ⑱ Motor mounted on an adjustable self-guided bracket
- ⑲ Packing box fitted for power supply



⑯ Anti-vibration mount



⑩ Compressible filter track



⑦ Seal

**THE KEY TO AIRTECH™'S EXCEPTIONAL PERFORMANCE IS ITS BENCHMARK FILTRATION SYSTEM.**

**Pre-filtering**

Designed exclusively by CIAT, the filter supports meet the strictest quality standards for optimum sealing in accordance with the current EN 1886 standard.

Compressible tracks on the counter frame with a peripheral gasket guaranteeing a quality seal on the filtration system.

**Unit filtration**

Ultra-high unit filtration standard:

- Dual leakage barrier for enhanced performance,
- Separate panels to prevent any mechanical deformation when carrying out operations inside the unit, thereby helping protect the peripheral sealing gaskets.

## THE HIGH-PERFORMANCE RANGE

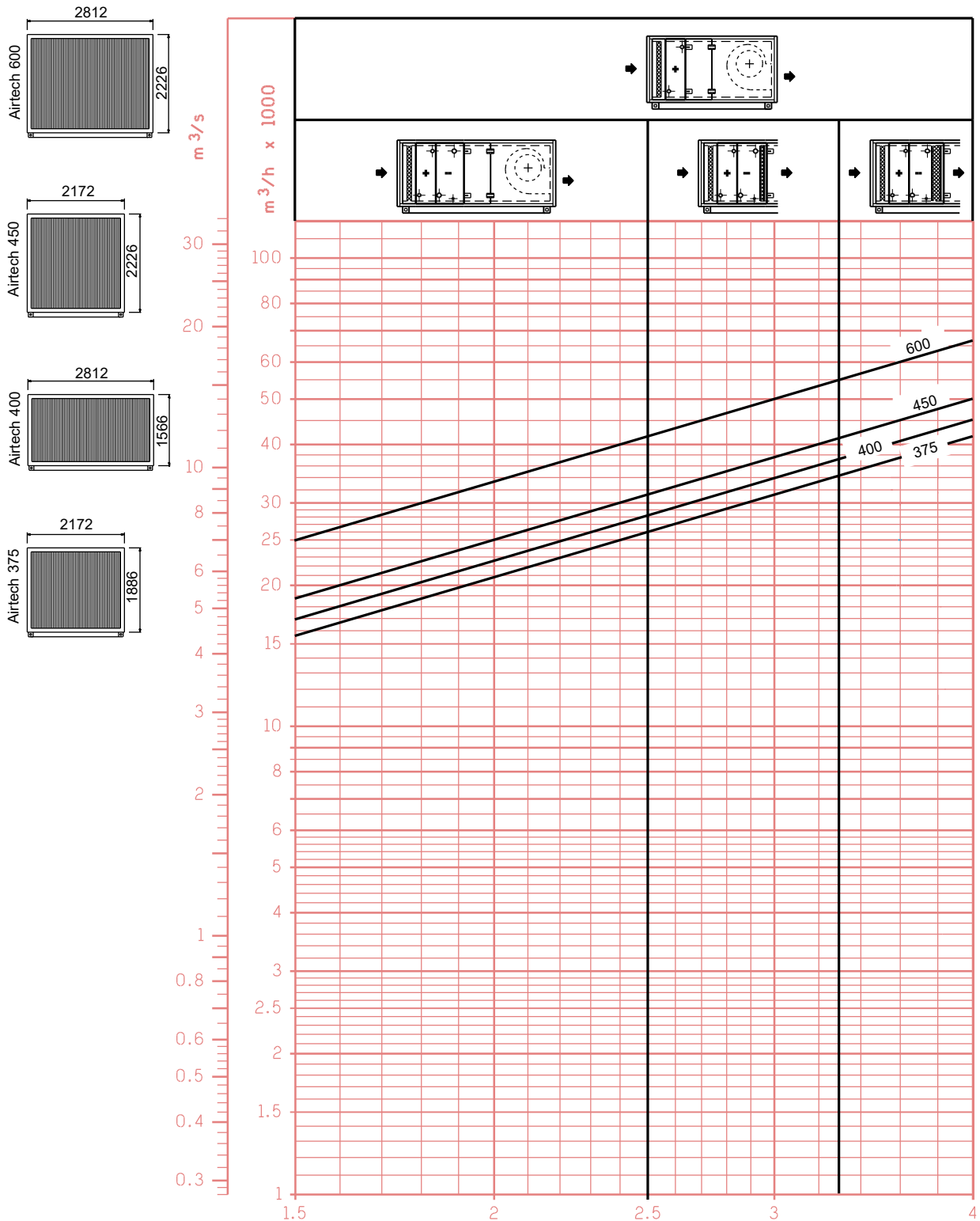
The AIRTECH™ range consists of 4 sizes to handle air flow rates from 25000 to 66000 m<sup>3</sup>/h.

The diagram below is used to pre-select the required size according to:

- The through speed in the front active section of the heat exchange coils
- The air flow rate to be handled

The diagrams show the standard compositions with the usage limit corresponding to the components.

Air heater (A), air conditioning unit without droplet separator (B), with drain screen separator (C), with blade-type separator (D).



➔ Please contact us for more information on this range.