



Air handling units



Climaciat Airtech
The technological choice



Air flow: 1 000 to 66 000 m³/h

Characteristics	Class
Casing strength	D2
Casing air leakage	L1
Filter bypass leakage	F9
Thermal transmittance	T2
Thermal bridge factor	TB2

AIR HANDLING FOR ALL APPLICATIONS

An extended range of air flow equipment and an exhaustive selection of air-processing options make Airtech an efficient solution for applications in both the office and industrial sectors.

The wide range of solutions available and the product's extensive modular design, as well as the various horizontal, vertical, stacked and side-by-side assembly formats for both indoor and outdoor use, provide solutions to meet every requirement.

PERFORMING TO NEW STANDARDS

Airtech air handling units have been designed in line with the **EN 13053** manufacturing standard and with the aim of fulfilling the strictest **EN 1886** standard grades: transmittance and thermal bridge, mechanical endurance and airtight jacket, filter bypass leakage, compliance with mechanical safety requirements for fans.

CIAT has developed all the components and accessories (handles, safety latches, through-wall unions, inspection windows, seals) that give high performance, thanks to a special design that has become a reference in its field.

THE NEXT GENERATION DESIGN

Body

- 1 Dual-wall casing, pre-coated outer panelling, 50 mm thick insulation
- 2 At least one removable panel per function, as per EN 13053
- 3 Smooth panel facing with no protruding internal screws, as per EN 13053
- 4 Access panel as standard for maintenance-dependent functions
- 5 Off-centre hinge units and latch handles, all made from composite material for withstanding corrosion and temperatures from -40° C to +80° C
- 6 Multi-purpose, ergonomic mounting blocks for easy handling, fitting, unit linkage, and air circulation around the panels; can also accommodate a control system
- 7 Door seal system manufactured to a special profile and from special material. High-quality seal on irremovable panels is a factor in the structure achieving EN 13053 airtight classification
- 8 Large-diameter square inspection window is manufactured to EN 13053, with a dual-wall system and inner linkage bellows to reinforce the seal.

Air inlet

- 9 Face-to-face damper louvres, cog-wheel drive system, "Grade 3" tightness as per EN 1751



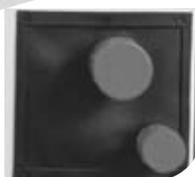
5 Composite hinge unit



5 Handle



13 Condensates drain pan



14 Sealing flange



18 Adjustable drive-unit bracket



Air handling units

Filters

- 10 Parallel gripped filter. Runners with clamping system (comply with EN 1886 class F9)
- 11 Pressure tappings at each level filtration

Exchangers

- 12 Threaded connectors as standard up to 3"
- 13 Tilted condensates drain pan, as per EN 13053
- 14 Sealing flange, fully airtight and thermal bridge free between piping and casing

Fans

- 15 3 available fan types: low pressure, medium pressure and freewheel, all in various sizes
- 16 Fans are mounted on anti-vibration frame with spring-loaded pads as standard
- 17 Flexible, inner fan-to-casing connection
- 18 Motor mounted on self-aligned adjustable frame
- 19 Fitted packing gland for electrical power supply



16 Anti-vibration pad



10 Contracting filter runner



7 Seal gasket

AIRTECH PERFORMANCE IS BUILT AROUND THE DEFINITIVE FILTRATION SYSTEM

Pre-filtration

The filter mediums have been exclusively designed by CIAT to meet the most stringent quality requirements whilst also providing the tightest seal under the EN 1886 standard.

The filter sliding rails with clamping system are mounted on a back frame and include an outer seal, guaranteeing excellent air tightness on the filter system.

Terminal filtration

Demands on terminal filtration performance were especially intense:

- Double airtightness sealing for higher performance.
- Separate panels prevent strain when work is being carried out inside the unit and also help to protect the outer seals.

A RANGE OF PERFORMANCE LEVELS

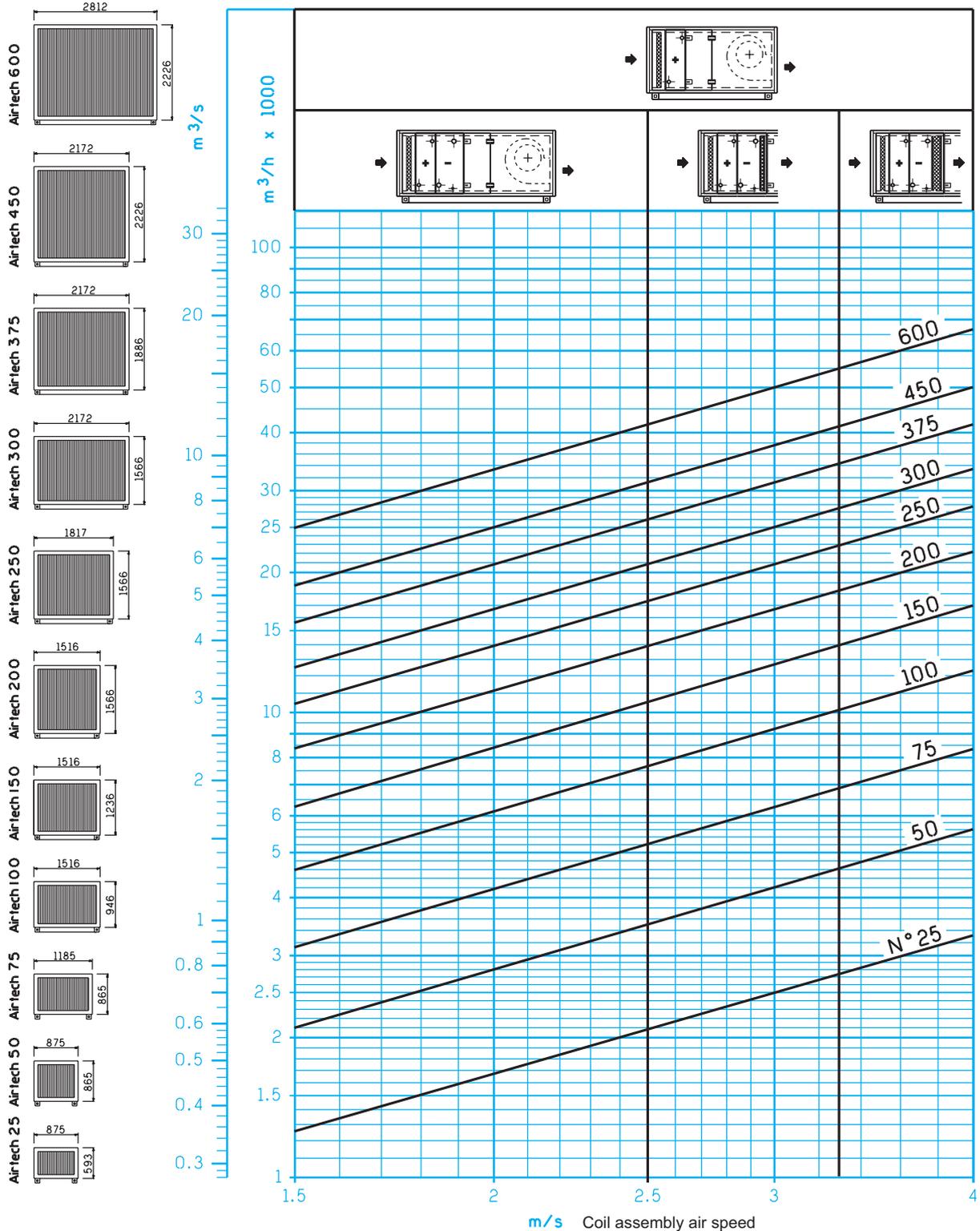
The Airtech range covers, in 11 sizes, airflows ranging from 1,000 to 66,000 m³/h.

The following chart shows the required size based on:

- The air flow rate through the front area exchanger coil assembly
- The rate of air flow to be treated

The diagrams show the types of layout with the operating limits of the components.

Air heater (A), air conditioner without droplet separator (B), with standard droplet eliminator (C), with high speed droplet separator (D).



This document is non-contractual. As part of its policy of continual product improvement, CIAT reserves the right to make any technical modification it feels appropriate without prior notification.

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