



## Air handling unit

The reassuring product design by an air handling unit **specialist** for maintaining **air quality**



AIR ACCESS

Air flow: 1 000 to 36 000 m<sup>3</sup>/h

### RANGE (STANDARD)

- Sliding doors,
- Easy access to the multi service bulkhead,
- Smooth internal panels,
- Stainless steel and sloping drain tray, completely and easily removable,
- Tube manometer fitted at each filter stage,
- Drain plug and air vent cap on each set of threaded headers,
- Transverse support feet also used for lifting.

#### Completely accessible via sliding doors

CIAT remains loyal to its product design as you would expect from a leading air handling unit manufacturer, constructing AHUs to exceptional levels when assessed to EN1886 (2007) standard.

Made of closed double skinned panels, the casing is painted outside (inside as option) as standard, maximising the smooth surfaces.

The even white painted interior (which can be stainless steel) minimises dust collection (medical range).

Stainless steel fully sloping drain trays guarantee complete water removal.

#### Multi-service bulkhead

Allows the front access panels to be completely removed.

The multi-service bulkhead has total access from the top which facilitates the fitting and total or partial wiring of components.



#### Provided as standard :

- A tube manometer fitted and connected to each set of filters.
- Headers, insulated and draught-proof inside equipped with threaded outlet, equipped with draining plug.

All the hydraulic or electrical connections are centrally located within the upper multi-service bulkhead :

- Heat exchanger headers.
- Dial or tube manometer.
- Differential pressure switch.
- External isolators.
- Lighting switches,
- Internal wiring.

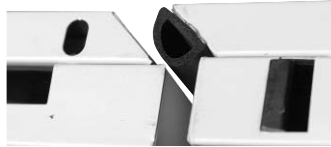


### Sliding doors

CIAT is the first European manufacturer to design an AHU with a completely removable front thanks to its patented sliding doors. There are no fixed panels therefore allowing complete access to all components within the AHU. Total access for easy maintenance and for maintaining air quality



Allen key 1/4 turn locks



Air tight seal



Rollers below doors

**Complete access to F9 filter** : a sliding door on the access side.

**Complete access to filters and coils** : the door slides in front of the two others.

**Complete access to fan** : a door towards the right hand side. One sliding door in front of another.

**Ensured air-tightness thanks to closed doors:**

- 4 1/4 turn locking points per door
- 2 handles per door

### High grade casing for best performance

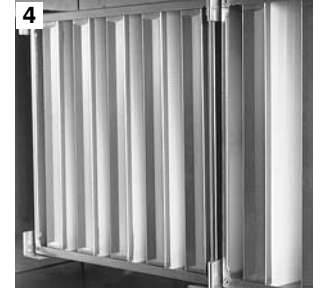
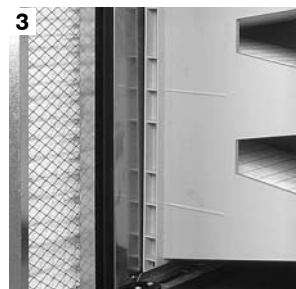
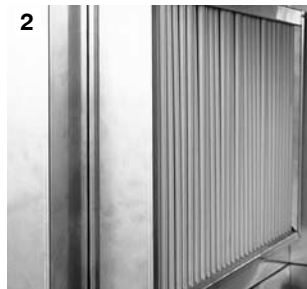
- Self-supporting casing. Completely accessible via sliding doors (patented). Complies with the most stringent classes specified in EN1886 (2007) standard.
- 50 mm double skin panels as standard, insulated with rock wool, the optimum for ACOUSTIC and THERMAL performance
- External skin pre painted in 2 colours. Internal skin with 275g/m<sup>2</sup> galvanised steel.
- Additional options: different types of paint, stainless steel and insulation density.
- Acoustic efficiency : noise reduction through Air Access panel.

Frequency (Hz)	125	250	500	1000	2000	4000
Transmission loss (dB)	19	23	29	29	30	39

All characteristics tested in accordance with EN standard.

### Examples of components available for AIR ACCESS

- 1 - Motorised damper.
- 2 - Cooling coil with droplet eliminator : smooth removable blanking plates to prevent headers from contamination and dust. Threaded headers with draining plug and air vent. Removable drain trays.
- 3 - Filtration equipped with manometers as standard (for example : G4 + F8).
- 4 - Filtration set in frame equipped with manometers as standard (for example : H13).



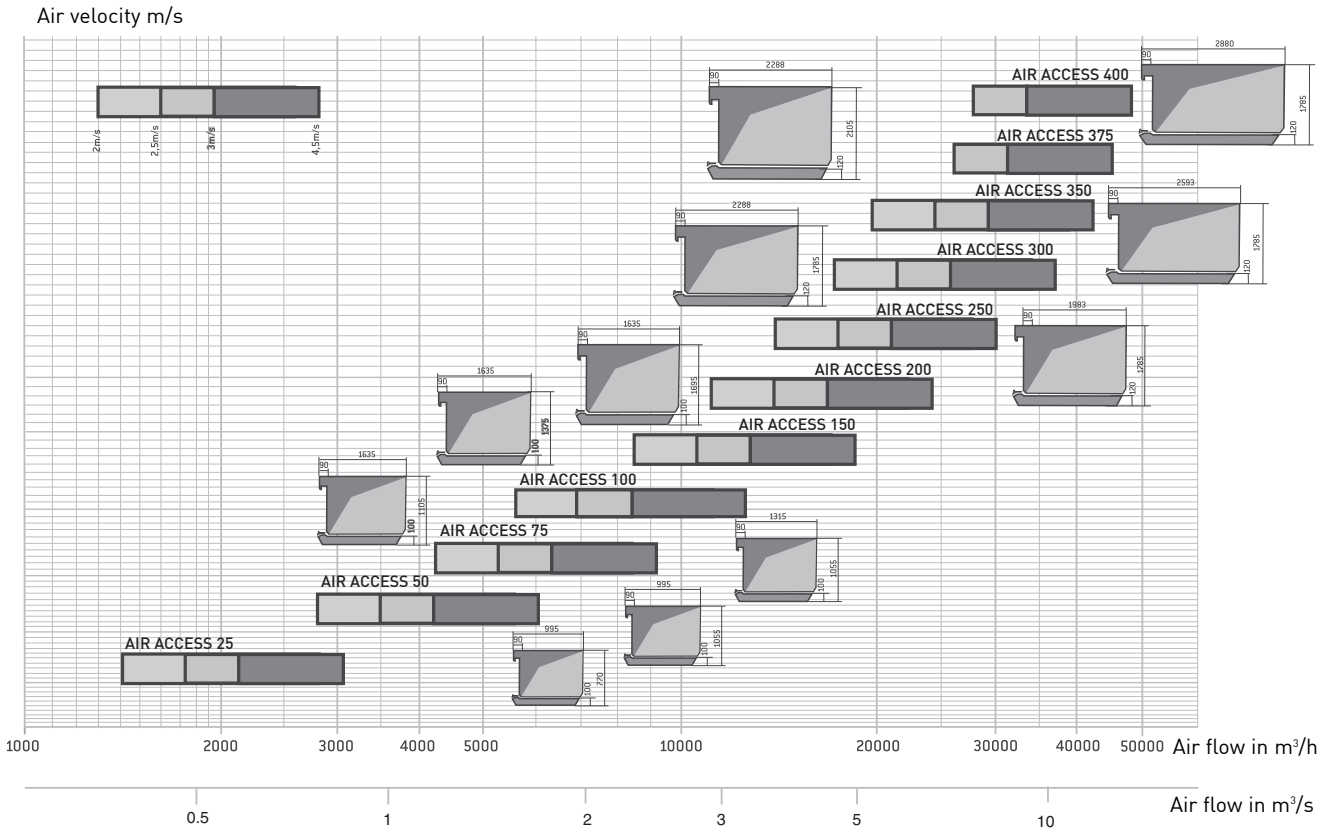
- Casing construction according to the EN 1886 standard (2007)
- D2 – Mechanical Strength
- L1 or L2 – Airtightness
- T2 – Thermal insulation
- TB2 – Thermal bridges
- F9 or > F9 – Filter frame leakage





# Air handling unit

**11 sizes of air handling units for airflows from 0,25 to 10 m<sup>3</sup>/s / 1 000 to 36 000 m<sup>3</sup>/h (3 m/s air velocity on cooling coil)**



## Arrangement

The external arrangement of Air Access comprises a roof and an air inlet weather louvre. Elements from the multi-service bulkhead are protected by a wide roof overhang.

### - Plate heat exchanger

In line, double deck arrangement  
Efficiencies available: from H2 to H4

### - Thermal wheel recuperator

Double deck arrangement  
Efficiencies available: from H2 to H4



## AIR ACCESS MEDICAL

The guarantee for maintaining air hygiene.

The reassuring product designed by an air handling unit specialist with the needs of health actors and clean room users in mind.

- Complete access.
- Smooth painted internal panels.
- Clean external casing with multi-service bulkhead.
- Many possibilities - filtration from G4 to H14.
- Easy maintenance.