



OZONAIR HYDRONIC

AIR HANDLING UNITS

CO4 and HTM2025
compliant



AX'M[®] MEDICAL RANGE

Air flows from 0.5 to 5.0 m³/s

*Completely accessible
via sliding doors*

(Registered and Patented)

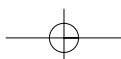


The AX'M MEDICAL air handling unit range

The guarantee for maintaining air hygiene



AX'M MEDICAL 07/06



The reassuring product design by an air handling unit specialist

for maintaining air hygiene

Self supporting casing

OZONAIR HYDRONIC remains loyal to its product design, as you would expect from a leading air handling unit manufacturer.

Constructing AHU's to exceptional standards when assessed to standard EN1886 (2004)

Sophisticated casing

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

The smooth white painted interior (which can be stainless steel) minimizes dust collection. Stainless steel fully sloping drain trays, guarantees complete water removal.

Sliding doors

OZONAIR HYDRONIC are, the first european manufacturer to design an AHU with completely removable front side thanks to it's patented sliding doors.

There are no fixed panels, therefore allowing complete access to all components within the AHU.

Multi service Bulkhead

Allows the access side panels to be completely removable, 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.

The multi service bulkhead has a total access from the top, which enables

- Easy components fitting
- Easy total or partial wiring of components

Casing construction according to the standard EN 1886 (2004)

D2 – Mechanical Strength

L1 or L2 – Tightness

T2 – Thermal insulation

TB2 – Thermal bridges

F9 or > F9 – Filter frame leakage



SLIDING DOORS

Total access for easy maintenance and for maintaining the quality of air



Air tightness insured with closed doors

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

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 toward right hand side
a sliding door in front of another



DOORS DETAILS



Rollers below doors



Allen key 1/4 turn locks



Air tight seal between doors

MULTI SERVICE BULKHEAD

Provided as standard a tube manometer fitted and connected to each set of filters.



tube manometers

As standard : headers, insulated and draught-proof inside equipped with threaded outlet, equipped with draining plug.



The AX'M Medical insures air hygiene

Thanks to :

- as standard
 - its sliding doors
 - its smooth panels, internally and externally painted
 - its removable drain tray
 - its dedicated multi service bulkhead
- as option :
 - access room between coil
 - a innovative external motor arrangement
 - CO4 compliant

The AHU stands on 100mm height beams as standard. Other feet up to 500 mm optional.

REMOVABLE DRAIN TRAY

Provided as standard, the coils are equipped with drain plug and air vent.



Other available options in the multi service bulkhead

Lighting option



Switch easily connected thanks to the multi service bulkhead.



Option : External isolator



Differential pressure switch option



Dial manometer option



Air flow controller option of the plug fan



Section to section join outside of the unit.



Provided as standard, the drain tray below the cooling coil is easily removable .

This sloping drain tray is in stainless steel, With a 5% slope eliminating standing water

EXTERNAL ARRANGEMENT OPTION



with sloping roof and protection of surface mounted controls.

Examples of standard options available with the AX'M Medical unit



Motorised Damper
Smooth removable blanking plates to prevent contamination and dust

Internal



filtration equipped with manometers as standard

For example : G4 + F8

Combined



filtration set in frame equipped with manometers as standard

For example : H13

Absolute



with droplet eliminator
Smooth removable blanking plates to prevent headers from contamination and dust

Threaded headers with draining plug and air vent

Cooling coil

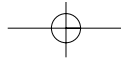
Removable drain trays

AVAILABLE OPTIONS :

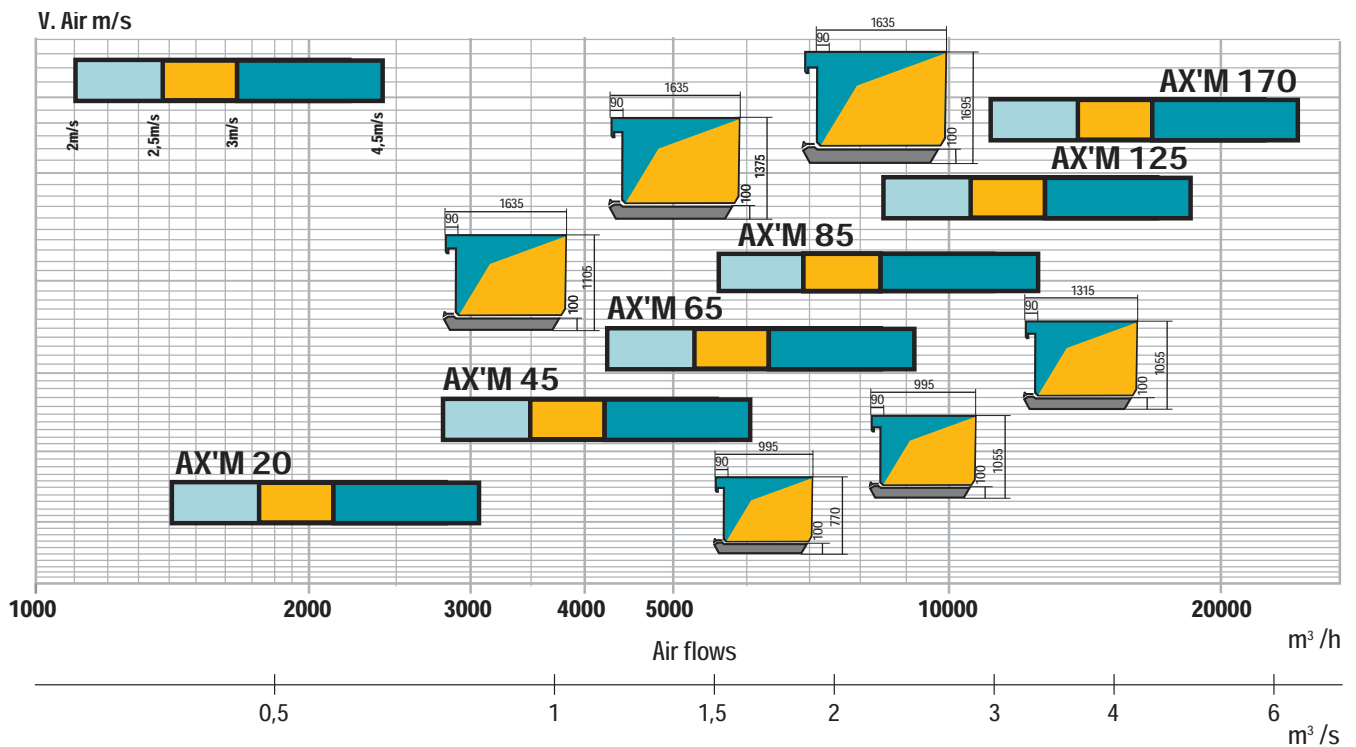
- complete wiring of components and accessories,
- the accessible multi service bulkhead is used as wiring tray.

available option :
Steam humidifier
or electrical equipment box





The air flow ranges and unit cross sections



Available functions

- air inlet dampers class 1 or class 3
 - for security
 - for balancing
 - for isolation
- simple or combined filtration
 - in slide rails G4 or F5
 - in slide rails with eccentric sealing F5 to F9
 - in frames for F5 to H10
 - in Hepa frames for H10 to H14
- heating coils
- antifrost drawer
- cooling coils
- steam humidifier
- double inlet forward/backward curved fans
- plug fan

C04 option

- removable drain tray (standard)
- two external mounted motors
- electrotined copper coils
- efficiency 1 motors
- feet up to 500 mm
- dagger plates

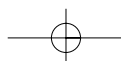
... other options

- wired lighting with switch integrated in the multi service bulkhead
- porthole
- external isolator
- actuators
- regulation components
- total or partial cabling
- electrical equipment box
- frequency inverter
- sound attenuator
- etc.

H13 filter in Hepa frame



electrical equipment box



The solution for all applications and design requirements

Ozonair Hydronic's experience and capabilities make it possible to find specific solutions to suit each individual application and air flow. Ozonair Hydronic have developed the following ranges:

CTB₂ 15 to 60

- shallow AHUs for ceiling void applications
- air flow from 0,25 m³/s to 1,50 m³/s



AX'M Comfort 20 to 170

- completely accessible AHUs
- commercial applications
- air flow from 0,50 m³/s to 5 m³/s



AX'M Medical 20 to 170

- completely accessible AHUs
- Health applications
- air flow from 0,50 m³/s to 5 m³/s



AX'M Industry 20 to 170

- completely accessible AHUs
- clean rooms and industrial applications
- air flow from 0,50 m³/s to 5 m³/s



CCM 210 to 315

- commercial, industrial and medical applications
- air flow from 6 m³/s to 10 m³/s



CTHb 295 to 510

- commercial and industrial AHUs
- direct gas fired burner
- air flow from 10 m³/s to 14 m³/s



CTH 600 to 1300

- large air flow AHUs for clean rooms, industrial and commercial applications.
- direct gas fired burner
- air flow from 16 m³/s to 36 m³/s... and above

OZONAIR HYDRONIC

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