

# AX'B

Ultra-compact air handling units  
from 600 to 6000 m<sup>3</sup>/h



**More compact** to ensure comfort for everybody, everywhere.

# AX'B

The **compact solution**  
for small & medium surface areas



## Shopping centres

Indoor air quality has become a key success factor for all new service industry projects, from office suites and administrative facilities to shops, hotels, museums and airports, and its importance will only continue to grow.



## Service industry



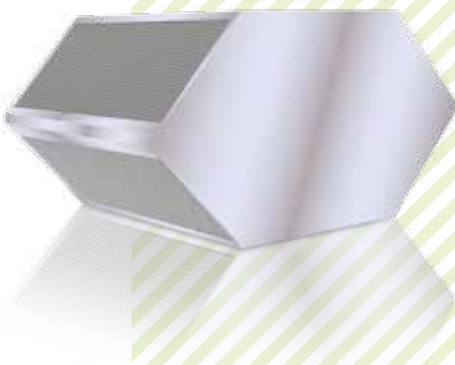
## Healthcare

Pre-filtration for ISO 6 and ISO 7 laboratories.

Energy is at a premium

### AX'B saves and recovers energy

The AX'B range, with its high efficiency sealed plate heat recovery unit, offering an efficiency of up to 90%, electronically commutated motor, HPE filter and on-board control, offers an optimal energy savings solution for your projects, in line with thermal regulations.



Check ongoing validity of certificate :  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

# The **air handling unit** that **blends in**



Even slimmer design, even quieter operation, even easier to install:  
**designed for total comfort**

- AX'B is the only air handling unit on the market offering pressures of over 1000 Pa from a 400 mm-thick unit.
- High acoustic performance provided by the fan and casing design.
- Easy access to components to facilitate use and maintenance.
- Plug & play: easy installation.

# AX'B

## Top performance from a compact form-factor

### Specifications

- Air flow rate: 600 to 6000 m<sup>3</sup>/h.
- Ceiling-mounted, floor-mounted or vertical configuration.
- Ultra-compact unit: thickness 400 mm.
- Modular unit adaptable to your needs.
- Self-supporting unit.
- Double-skin panels, thickness 25 mm, with glass wool insulation.
- Housing performance in accordance with standard EN 1886:
  - Air leakage: L2.
  - Mechanical strength: D2.
  - Thermal transmittance: T3.
  - Thermal bridging factor: TB2.
  - Filter bypass leakage: F9.

### Energy savings

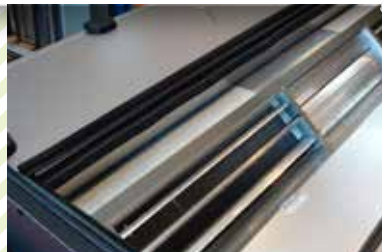
Controlled energy consumption levels, via the use of a heat recovery unit and high-efficiency fans:

#### Heat recovery unit

- High-efficiency plate heat exchangers, with efficiency level of up to 90%, with full bypass.

#### Fan motor assembly

- Flow rate managed by varying the fan speed.
- Plug fan, one or two AC direct-drive fans (optional variable frequency drive).
- EC motor with constant efficiency across the full variable-speed operating range (variable speed built-in).





## Filtration

### Enhanced air quality

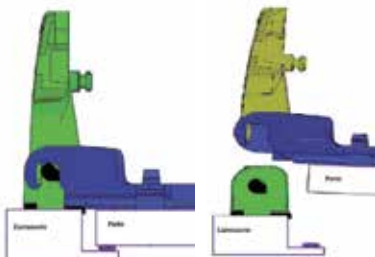
Good-quality, healthy air is essential for well-being, and ensures good conditions for workers, guests and visitors alike. The AX'B range controls the concentration of pollutants in indoor air, and can be used for pre-treatment of air for ISO 6 and ISO 7 laboratories. Filtration class G4 to F9.

**Our filters fully comply with the EN 13779 standard**

## Ease of access

To facilitate maintenance

- Sleek design, with the quality you expect from a Hydronic product.
- Easy installation using effective and ergonomic assembly systems.
- Generous access via doors that can be fully removed from their hinges, to simplify and facilitate maintenance.



Removable door hinges/handles

## Hydronic Control

### More precise

Full self-regulating control depending on demand to achieve the expected performance.



The electrical control cabinet including PLC is fully **integrated in the unit.**

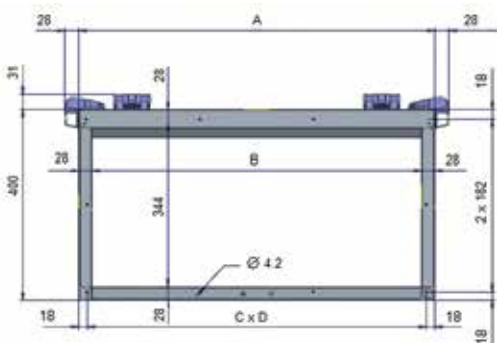


# AX'B

Ultra-slim air handling units from 600 to 6000 m<sup>3</sup>/h

TYPE		25	40	60
<b>Configurations</b>		<b>Ceiling-mounted, floor-mounted or vertical configuration</b>		
<b>Width / Height</b>		750x400	1310x400	1880x400
<b>Nominal air flow rate (m<sup>3</sup>/h)</b> (Speed: 3.1 m/s across finned surface)		2000	4000	6000
<b>Technology</b> Induction motor	Fan motor assembly	1	1	2
	Power ratings	0.55 kW - 4 poles / 1.1 kW - 2 poles / 1.4 kW - 2 poles		
	Number of variable frequency drives (optional)	1	1	1
<b>Technology</b> EC motor	Fan motor assembly	1	1	2
	Power rating	1 kW		
<b>Pleated filters</b>		G4 / M5 / F7 HPE / F9 / F9 HPE		
<b>Opacimetric filters</b> Short flexible bags		M6 / F7 / F8		
<b>Opacimetric filters</b> Rigid bags		M6 / F7 / F8 / F9		
<b>Hot water coil</b>		1 / 2 / 3 rows	1 / 2 / 4 rows	1 / 2 / 4 rows
<b>Cold water coil</b>		3 / 4 / 6 rows		
<b>Direct-expansion cooling coil</b>		3 / 6 rows		
<b>Electric heater</b>		15 kW	24 kW	33 kW
<b>Stacked plate heat exchanger</b>		Yes	Yes	Yes

## Air handling connections



Size	A	B	C	D
25	750	694	3	238
40	1310	1254	6	212.3
60	1880	1824	8	230.5

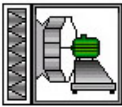
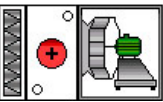
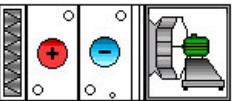

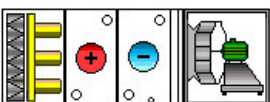
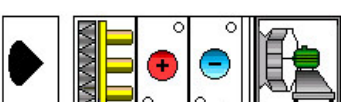
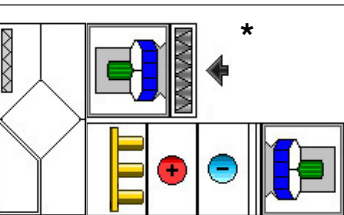
## Quick selection

Design calculation with:

- Two-row heating coil.
- Four-row cooling coil.
- Plug fan, EC motor option.

- 250 Pa available pressure.
- M6 and/or F9 filter.

\*depending on fan flow rate and pressure specifications

TYPE		25	40	60
	Length (mm)	610	610	610
	Weight (kg)	42	56	96
	Length (mm)	830	830	830
	Weight (kg)	58	81	130
	Length (mm)	1100	1100	1100
	Weight (kg)	85	159	190
	Length (mm)	830	830	830
	Weight (kg)	68	120	152
	Length (mm)	1400	1400	1400
	Weight (kg)	98	162	210
	Length (mm)	1800	1800	1800
	Weight (kg)	114	193	252
	H (mm) × W (mm)	400 × 1620	400 × 2740	
	Length (mm)	2800	2800	
	Weight (kg)	277	473	

\* Stacked

# Hydronic, wherever **air handling** is crucial



Hydronic has been designing, developing, manufacturing and marketing air handling units at Mortagne-au-Perche for over 50 years. This site is organised as a centre of excellence, placing customer needs and environmental protection at the heart of its industrial organisation. Hydronic's expertise encompasses innovation, manufacturing quality, performance and energy savings.



The Quinoa Group, with its Autogyre, DMO, HBH, Hydronic, Panol, Sotis and Strulik brands, offers extensive technical expertise in the following core construction industry fields:

- Ventilation
- Fire safety
- Air handling
- Air diffusion

**Strong distribution** via focused brands with specific sales networks.

Top-level **sales** and technical support teams.



CS30064 – F – 61400 Mortagne-au-Perche  
Tél : 00 33 (0)2 33 85 14 00



31, rue de la Justice  
ZI de Vaux-le-Pénil – F – 77000 VAUX-LE-PENIL  
Tél. : 00 33 (0)1 64 87 78 77