



BREATHING INNOVATION INTO YOUR OPERATING THEATRE

Our compact and fully HTM / SHTM 03-01 compliant MDX medical air handling units (AHUs) are designed, developed and manufactured specifically for use in operating theatres, hospitals, isolation rooms, medical facilities and most other healthcare environments.

Designed specifically for installation in hospital and healthcare settings, our cabinet AHUs easily achieve recommendations laid out in HTM 03-01/ SHTM, whilst offering a compact and space saving alternative to a standard AHU.

Suitable for most air supply requirements including primary care, critical care and operating theatres, our MDX units provide an innovative solution to the challenge of plant room space.

Available in 5 options, MDX AHU 500, 1000, 2000, 3000 and 4000, units can easily be configured to suit application and space available.

MDX AHUs are recommended for use in all types of new build hospitals and healthcare facilities, including modular build and MMC structures. They are also ideal for older hospitals or plant rooms in need of refurbishment, upgrade or reconfiguration.

FEATURES

- **SPACE-SAVING & COMPACT SIZE**
The compact size of our MDX medical AHUs means that small spaces can be viable for conversion to plant rooms. A minimum space of 1.8m by 5.3m (including access) is required for installation of a single unit.
- **MODULAR DESIGN**
The modular design of the MDX AHUs make transport and installation very simple. Where space is limited, the units can easily be installed module by module reducing installation costs and theatre downtime.
- **HTM 03-01 (2021) / SHTM COMPLIANT**
All MDX AHUs easily achieve the recommendations laid out in the REVISED HTM / SHTM.
- **SAFE & SECURE CONSTRUCTION**
Manufactured in accordance with fire classification EUROCLASS A1, BS EN 13053 & BS EN 1886, specifically Casing Mechanical Strength: D2, Casing Air Leakage: L2, Filter Bypass Leakage Rate: Max 0.5 %, Thermal Transmittance: T2 & Thermal Bridging Factor: TB2`
- **MADE IN BRITAIN**
All MDX AHUs are designed, manufactured and built at our factory here in the UK, meaning we have full control over all manufacturing processes and delivery schedules. This enables us to achieve the tight timescales required by our clients.

TECHNICAL SPECIFICATIONS

		CONSTRUCTION DETAILS
Cabinet Chassis, Panels & Doors, Casing	Frame	Anodised extruded aluminium c/w thermal break
	Panels & Doors	Anodised aluminium sheet metal* meeting the requirements of fire classification EUROCLASS = A1
	Casing Air Leakage	L2
	Filter-Bypass Leakage Rate	Max 0.5%
	Thermal Transmittance	T2
	Thermal Bridging Factor	TB2
Finish	Panels & Doors	Epoxy powder coating (edge to edge)
	Casing	Epoxy powder coating in accordance with BS EN 13053

		MODEL & CONFIGURATION			
		MDX AHU 1000 Supply, Extract, Heat Recovery	MDX AHU 2000 Supply, Extract, Heat Recovery	MDX AHU 3000 Supply, Extract, Heat Recovery	MDX AHU 4000 Supply, Extract, Heat Recovery
Dimensions (mm)	Length	3850	3850	4000	4000
	Depth	840	1680	1800	2140
	Height**	1950	1950	1950	1950
Weight (kg) approx		1200	1700	2000	2300
Supply Airflow (m ³ /s)		0.5 - 1.4	1.3 - 2.4	2.3 - 3.4	3.3 - 4.4
Extract Airflow (m ³ /s)		0.5 - 1.4	1.3 - 2.4	2.3 - 3.4	4
Heat Recovery Efficiency (%)		68	68	68	68
Spigot Connection (mm)	Intake	700 x 700	700 x 1400	700 x 1400	700 x 1400
	Exhaust	400 x 700	400 x 1400	400 x 1400	400 x 1400

* Galvanised steel option also available - please ask for details.
 ** Excluding base slab. Add 250mm approx for base slab for final installed height.