



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 hospital, medical and healthcare settings, our medical AHUs easily achieve the recommendations laid out both the revised HTM 03-01 released in June 2021 and the SHTM, whilst offering a compact and space saving alternative to the standard AHUs available on the market today.

An innovative solution to the challenge of operating theatre plant room space, the range is suitable for both new build and refurbishment applications, including modular build and MMC applications.

The units particularly excel in the refurbishment of older operating theatres which fall short of HTM / SHTM 03-01 standards.

Where a pair of operating theatres are currently supplied by a single existing full size air handling unit, an MDX AHU 3000 unit can be installed in much the same footprint to achieve current HTM standards with no need to find additional plant room space.

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.
- INNOVATIVE DESIGN**
 The 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.
- FLEXIBLE & CONFIGURABLE**
 Available in 4 options, MDX AHU 1000, MDX AHU 2000, MDX AHU 3000 and MDX AHU 4000, units can be configured to suit both the application and space available.
- HTM 03-01 (2021) / SHTM COMPLIANT**
 All MDX AHUs easily achieve the recommendations laid out in the REVISED HTM / SHTM. Ideally suited to supply of critical healthcare ventilation, units provide resilience & diversity as described in the new documentation.
- 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

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.



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