



COMBINING FORM AND FUNCTION IN ONE STREAMLINED UNIT

The ECO-flow™ DYNAMIC™ is a screenless ultraclean ventilation (UCV) canopy with unsurpassed energy and cost efficiency, perfectly suited to the modern operating theatre.

MAT understands that operating theatres are changing. As technology advances, and the possibilities of what can be achieved within the sterile environment expand, new designs are needed to accommodate new expectations. The sleek, streamlined operating theatres hospitals are demanding must not only be aesthetically pleasing, but more versatile, more energy efficient, and allow for improved infection control.

In the DYNAMIC™, the glazed partial screens of the conventional canopy have been replaced with a uni-directional controlled airstream, generated at the boundary of the clean zone and fitting flush with the underside of the canopy at ceiling level. The airstream provides a barrier around the periphery of the clean zone, maintaining it and preventing entrainment of air from the surrounding environment.

The DYNAMIC™ uses the company's unique ECO-flow™ technology to achieve an unprecedented level of performance for a screenless UCV canopy, combining controlled airflow with energy efficiency, all housed in a sleek, elegant unit that integrates seamlessly with the ceiling structure. Its design means pendants can swing easily in and out of the clean zone, ensuring maximum functionality and efficacy, and making it ideal for hybrid and integrated theatres.

Another key feature of the DYNAMIC™ is its flexibility – it can be integrated into a new theatre at the design and build stage, or retrofitted into an existing theatre.

DYNAMIC™ SCREENLESS UCV CANOPY

Sleek and streamlined
Flexible
Energy-efficient
Cost-efficient

Available in three sizes
Easy installation
Fully HTM 03-01 compliant



ECO-flow™ DYNAMIC™		2800	3200
Clean Zone		2.8m x 2.8m	3.2m x 3.2m
Discharge Air Velocity	2m FFL	0.38m/s average within clean zone	
	1m FFL	>0.2m/s within central clean zone	
Fresh Air Volume		0.75 m ³ /s to 1.15 m ³ /s *	
Fresh Air Connection		4 @ 550 mm (w) by 250 mm (h)	
Noise Level		NR50 / 55 dBA **	
Unit Size		3.97 x 3.97 x 0.8m	4.48 x 4.48 x 1.0m
Unit Weight***		1590 kg	1970 kg
Mounting Height		3444 mm	3600 mm
Minimum Diffuser Height ****	Single Fork Lamp	2450 mm	
	Double Fork Lamp	2850 mm	
Minimum Mounting Height ****	Single Fork Lamp	2994 mm	3150 mm
	Double Fork Lamp	3394 mm	3550 mm
Control Panel Size		600 mm (w) by 600 mm (h) by 200 mm (d)	
Electrical Supply		230v – 50 Hz – 32 amp single phase	
Typical Running Current	Clean Filters	<5.77 A	<7.93 A
	Dirty Filters	<10.57 A	<13.41 A
Typical Energy Load	Clean Filters	<1.6 kW	<2.2 kW
	Dirty Filters	<2.74 kW	<3.42 kW

* To suit theatre air change rate and cooling duty (may be increased if required)

** Subject to background noise levels

*** Excluding any integral service pendants

**** Subject to specific operating light manufacturer's requirements

Need solutions? Let's work together

At Medical Air, we aim high - we are committed to being the automatic choice for every life sciences facility that needs safe, clean, productive environments.