



ECO-flow™ - ULTRACLEAN SURGERY WITH REDUCED ENERGY USAGE AND COST

ECO-flow™ is a unique range of energy-efficient, self-contained ultraclean ventilation (UCV) canopies designed for use in orthopaedic operating theatres. In addition to ensuring compliancy with HTM 03-01 Specialised Ventilation for Healthcare Premises – Part A, hospitals with an ultraclean theatre are able to increase the range of surgeries they offer, improving throughput, patient care and treatment.

Reduce the risk of SSI

Ultraclean air is defined in HTM 03-01 as air containing not more than 10 CFU/m³. Ultraclean ventilation generates ultraclean air over the operating or clean zone during surgery. It is a highly effective way to minimise contaminants at the wound site and reduce the incidence of surgical site infection (SSI). SSI is associated with increased morbidity and substantial mortality and places a massive clinical and financial burden on hospitals. energy drain required for cooling.

Reduce energy usage and cost

MAT's ECO-flow™ UCV system was designed to not only provide a compliant surgical environment but also to support the NHS and private healthcare facilities as they work to meet energy efficiency targets. To achieve this, it was engineered to significantly reduce energy usage and cost, without any reduction in the level of performance.

Energy efficiency is achieved through innovative internal design and the introduction of infinitely variable-speed DC motors, while highly efficient centrifugal fans reduce the energy drain required for cooling. LED cruciform lighting with a dimmable option has also been added. As a result of these innovations, ECO-flow™ canopies use up to 60% less power than other similar canopies, even in full ultraclean mode.

Increase performance and patient satisfaction

In addition to superior energy efficiency, the new canopies offer larger clean zones and are exceptionally quiet, enhancing the operating experience for clinical staff. They also feature an optimised control panel, which allows individual control and monitoring of the fan speeds and lighting, and provides an alarm whenever filters require changing, linking simply to the BMS using the latest protocol. These benefits mean the canopies are not only better for the environment and highly cost-effective, but also very user-friendly.

For more information, please visit:

www.medicalairtechnology.com

ECO-flow™ UCV CANOPY
State of the art control panel
Efficient silencer
Minimal energy drain
Lower motor heat gains
Available in two sizes
Quicker installation
Fully HTM 03-01 compliant



ECO-flow™		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 0.6m	4.48 x 4.48 x 0.8m
Unit Weight***		1590 kg	1970 kg
Mounting Height		3444 mm	3620 mm
Minimum Diffuser Height ****	Single Fork Lamp	2450 mm	
	Double Fork Lamp	2850 mm	
Minimum Mounting Height ****	Single Fork Lamp	2994 mm	3170 mm
	Double Fork Lamp	3394 mm	3570 mm
Control Panel Size		600 mm (w) by 400 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.