



ECO-flow™ – Screened Ultraclean Ventilation (UCV) Canopy

The **ECO-flow™** UCV canopy was designed primarily for use in orthopaedic operating theatres and where the risk and consequences of surgical site infection (SSI) are costly, thus improving patient care outcomes and throughput.

The **ECO-flow™** is a traditional self-contained ultraclean canopy comprising of UCV plenum and 4 x integrally mounted recirculation fans within each quadrant of UCV air terminal unit, which also contains attenuation, return air pre-filters, final HEPA filters, graded air diffuser and integral LED cruciform lighting.

The **ECO-flow™** utilises a graded airflow diffuser and is fitted with side screens or infill panels, which provide a physical barrier to control the supply air flow and prevent entrainment. The infill panels and floor demarcation provide easy recognition of the dedicated clean zone and help define the sterile field.



- Compliance with HTM 03-01 (2021) Specialised Ventilation for Healthcare Premises – Part A
- Energy efficient fans
- ECO-flow™ control panel c/w built in energy management options
- Graded airflow diffuser
- Integral LED cruciform lighting c/w dimming
- Optional tracks, drapes, and discipline panels



		ECO-flow 2800	ECO-flow 3200
Clean Zone		2.8 m x 2.8 m	3.2 m x 3.2 m
Discharge Air Velocity	2 m FFL	0.38 m/s average within clean zone	
	1 m FFL	> 0.2 m/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 200 mm (h)	4 @ 550 mm (w) by 250 mm (h)
HEPA Filter		Minimum 99.997% efficiency at 0.3 microns Eurovent EU13 / EN1822 H14	
Pre Filters		80 – 90% efficiency Eurovent EU3 / EN779 G3	
Cruciform Lights**		Colour RA90-4000K LED light source controlled by LED driver	
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****		1657 kg	2620 kg
Diffuser Height		2900 mm	
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 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
	Dirty Filters	10.57 A	13.41 A
Typical Heat Gain	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)
 ** Providing a minimum lighting level of 1000 lux (in conjunction with general lighting)
 *** Subject to background noise levels
 **** Excluding any integral service pendants
 ***** Subject to specific operating light manufacturers requirements