



ECO-flow™ Dynamic – Screenless Ultraclean Ventilation (UCV) Canopy

The **ECO-flow™ Dynamic** 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™ Dynamic** is a self-contained ultraclean canopy comprising a 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, air curtain with 2 x dedicated fans and integral LED cruciform lighting.

The **ECO-flow™ Dynamic** utilises a graded airflow diffuser and is fitted with an air curtain barrier to control the supply air flow pattern and prevent entrainment. The floor demarcation provides easy recognition of the dedicated clean zone and helps define the sterile field.



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- **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**
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2025

		ECO-flow Dynamic 2800	ECO-flow Dynamic 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	
Airstream 2m FFL		1.25m/s at periphery of 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		53 dBA ***	
Unit Size		3970mm x 3970mm x 800mm	4480mm x 4480mm x 1000mm
Unit Weight****		1740 kg	2750 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 A
	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

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