



---

**SIGNIFICANT NOISE REDUCTION, MINIMAL MAINTENANCE,  
OUTSTANDING PERFORMANCE**

The FREEFLOW™ ultraclean ventilation (UCV) canopy sets a new benchmark for modern operating theatre design, combining durability with high performance functionality.

MAT has the experience and skill to engineer exactly the right UCV solution for any scenario. The unique and ultra-quiet FREEFLOW™ UCV canopy uses low-level recirculation ducts to prevent entrainment. Housing the fans remotely, rather than in the canopy, means it operates at NR45, a noise level significantly below that specified by HTM 03-01. This creates the optimum environment for the clinical team, reducing fatigue and associated issues.

The most advanced unit on the market, the FREEFLOW™ combines high performance functionality and durability with a clear response to the evolving requirements of modern operating theatres. Its screenless design means there is more space free at ceiling level, allowing greater flexibility in the choice of equipment and theatre practice. As there are no moving parts within the canopy, theatre downtime for maintenance is also kept to an absolute minimum.

---

**FREEFLOW™ UCV CANOPY**

**Unprecedented level of performance**

**Very flexible**

**Screenless design**

**Significant noise reduction**

**Available in three sizes**

**Minimal maintenance**

**Fully HTM 03-01 compliant**

---



FREEFLOW™ UVC CANOPY		2800	3200	3500
Clean Zone		2.8m x 2.8m	3.2m x 3.2m	3.5m x 3.5m
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 <sup>3</sup> /s to 1.15 m <sup>3</sup> /s *		
Lighting Level		1000 LUX **		
Noise Level		NR45/50 dBA ***		
Unit Size		3.97 x 3.97 x 0.6m	4.41 x 4.41 x 0.8m	4.71 x 4.71 x 0.9m
Unit Weight****		1590 kg	1970 kg	2310 kg
Mounting Height		3444 mm	3620 mm	3720 mm
Minimum Diffuser Height *****	Single Fork Lamp	2450 mm		
	Double Fork Lamp	2850 mm		
Minimum Mounting Height *****	Single Fork Lamp	2994 mm	3170 mm	3270 mm
	Double Fork Lamp	3394 mm	3570 mm	3670 mm
Control Panel Size		600 mm (w) by 1200 mm (h) by 300 mm (d)		
Electrical Supply		230v – 50 Hz – 32 amp three phase		

- \* 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 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.