

Ultraclean Ventilation Operating Theatre

Brandon Turnkey Equipment Package



Making the Invisible, Visible

Airborne Particle Monitoring and Control Systems Integration with Ventilation Canopies for Improved Infection Control and Higher Patient and Staff Safety

For many years, we have been able to achieve a high standard of hygiene in hospitals and operating theatres in the UK and elsewhere in Western Europe. However, intensifying cost pressures, the shortage of skilled surgical staff, and the increasing frequency of multidrug-resistant germs (MRSA) are now causing problems. Existing standards will therefore no longer be adequate in the future, and the risk of patients being exposed to infection during surgical operations will rise.

- Design and implement custom measures and renewed processes based on continuous airborne particle monitoring during surgical procedures, especially orthopaedic
- Visual indication of airborne particle load during operations for staff training and lasting behavioural changes in order to achieve higher patient and staff safety
- Cut energy costs and noise load through automatic, continuous airflow adjustments based on real-time monitoring of airborne particles.

Airborne particles are a critical factor which has a direct effect on the hygienic standards of the modern operating theatre and their significance is easy to explain: The fewer particles in the air, the fewer germs can be deposited on these particles, any particle above >0.5 microns are able to support viable bacteria which can lead to infection at the wound site.

The traditional measurement provided by a single annual test is simply not sufficient, once calibrated it is “assumed” that the performance of the UCV will not differ drastically over a 12-month term but there are many factors that can directly affect the performance.

Continuous, real-time monitoring – with visual indicators- allows for implantation of improved procedures, risk minimisation, and cost efficiencies.

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Expertise

Brandon Medical is a UK manufacturer and designer of world-leading technology solutions for operating theatres, critical care areas, and primary care institutions. For over 70 years, Brandon Medical has provided healthcare professionals with reliable, high-quality, and affordable medical equipment packages for operating theatres and critical care. Continuous investment in our products allows us to meet the ever-changing needs of our customers, the healthcare industry and the patients it serves.

We are acknowledged experts in medical lighting, medical power & control systems, medical video, and medical AV systems with unique expertise in providing integrated solutions.

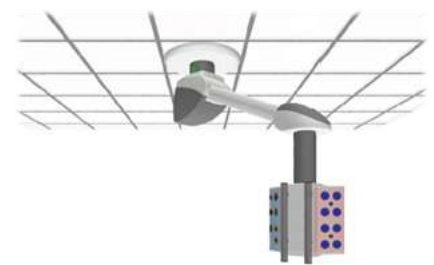
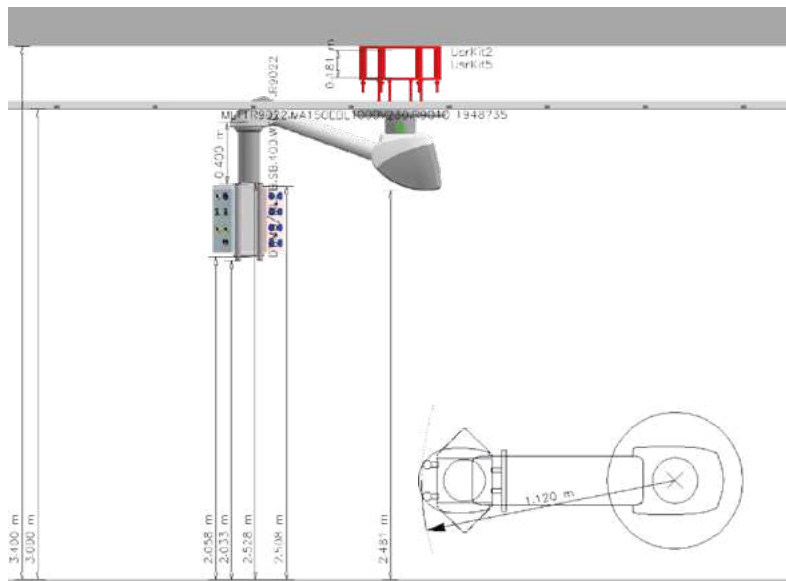
We are one of the leading manufacturers of high tech medical lighting, and our equipment can be found in surgeries, clinics, and hospitals throughout the world supported by an extensive distributor network.

Equipment

Our UK manufactured operating theatre lamps have near-perfect colour rendition, balanced arm systems for ease of movement, and use HD-LED technology which emits a brilliant cold light to reduce heat generation. We also have a range of mobile operating theatre lights. Specialist surgical and examination lighting systems are available, with unique features designed to suit the field.

In addition to healthcare and hospital lighting technology, we also manufacture operating theatre control panels and design solutions for medical AV systems, medical supply pendants, as well as isolated power systems and uninterruptible power systems.

Anaesthetists Pendant - HBN26 Compliant



Specification

1st fix assembly

Cavity Spacer Kit ≤1000mm (to span void to 1200mm) incorporates upper plate for fixing to structural ceiling & intermediate Ceiling plate which supports the Medical Gas and Suction NIST Connections & LV Electrical Connection Box (included).

Multi Movement Arms

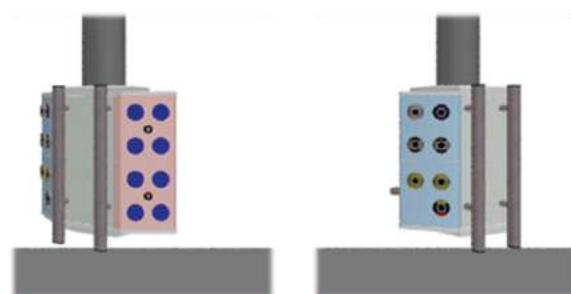
1000mm Multi Movement Arm with Electromagnetic Brakes LED Lightguide brake release indication on all points of Arm Rotation.

Service Head

400mm M6 Service Head. Service Head is provided pre-installed and tested with indicated services.

System Weights and Payloads

Overall weight of configuration:	175kg	Remaining net pay load:	122kg
Vertical force as configured:	2911N	Remaining diameter, left arm:	45%
Max pendant pay load:	150kg		



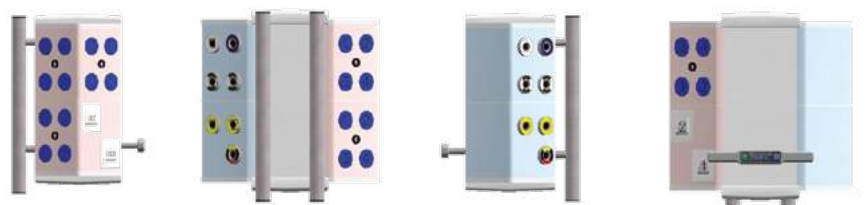
Service Head Specification

400mm M6 Service head. 5000mm Multifunction rack to front face for accessory mounting. Handle with brake controls to rear face.

Pre Installed Service Outlets

- 12 No. 240V 13 A electrical outlets BS7671 and HTM06-01 compliant.
- 2 No. Single gang provision.
- 1 No. Medical oxygen terminal unit.
- 1 No. Nitrous oxide terminal unit.
- 2 No. Medical air 4 bar terminal unit.
- 1 No. Surgical air 7 bar terminal unit.
- 2 No. Medical vacuum terminal units.
- 1 No. AGSS terminal unit.

Medical Gas & Vacuum Terminal Units British Standards to BS EN ISO 9170-2:2008

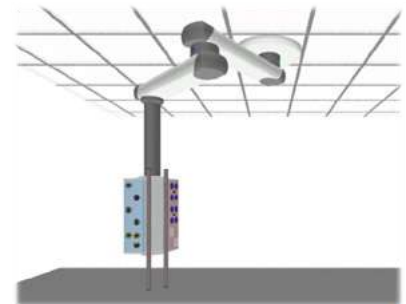
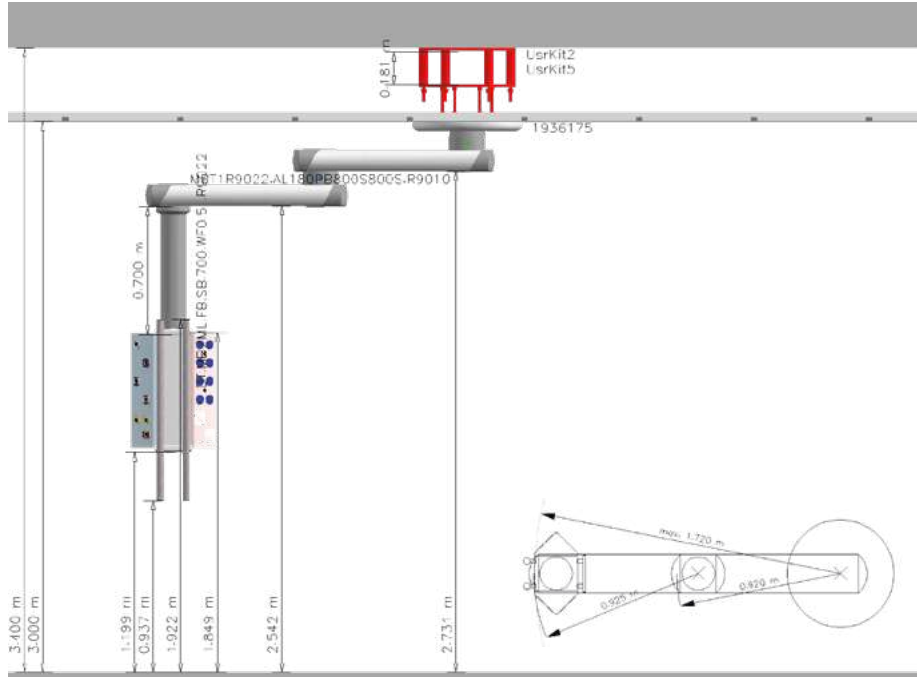


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Surgeons Pendant - HBN26 Compliant



Specification

1st fix assembly

Cavity Spacer Kit $\leq 1000\text{mm}$ (to span void to 1200mm) incorporates upper plate for fixing to structural ceiling & intermediate Ceiling plate which supports the Medical Gas and Suction NIST Connections & LV Electrical Connection Box (included).

Multi Movement Arms

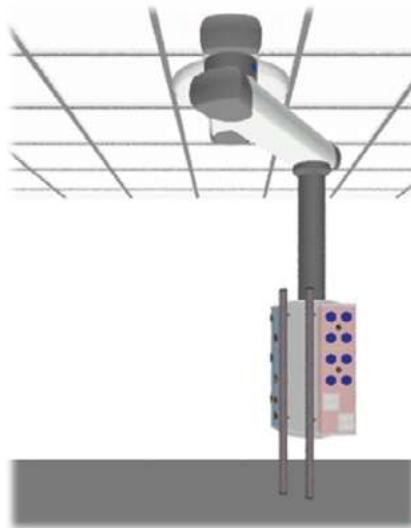
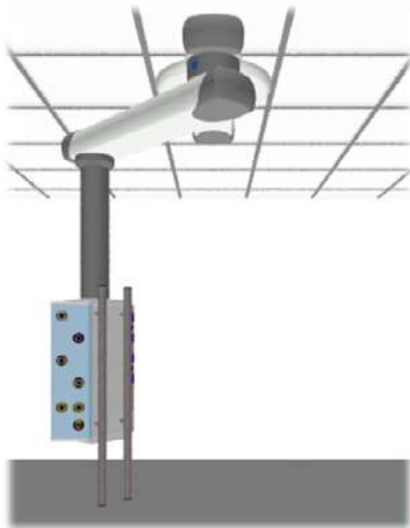
800mm / 800mm lateral Movement Arm with Electromagnetic Brakes LED Lightguide brake release indication on all points of Arm Rotation.

Service Head

600mm M6 Service Head. Service Head is provided pre-installed and tested with indicated services.

System Weights and Payloads

Overall weight of configuration:	165kg	Remaining net pay load:	142kg
Vertical force as configured:	3016N	Remaining diameter, left arm:	53%
Max pendant pay load:	180kg		



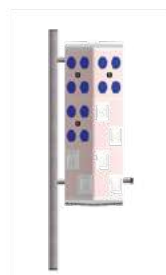
Service Head Specification

600mm M6 Service head. 1000mm Multifunction rack to front face for accessory mounting. Handle with brake controls to rear face.

Pre Installed Service Outlets

- 12 No. 240V 13 A electrical outlets BS7671 and HTM06-01 compliant.
- 6 No. Single gang provision.
- 1 No. Medical oxygen terminal unit.
- 1 No. Nitrous oxide terminal unit.
- 1 No. Medical air 4 bar terminal unit.
- 1 No. Surgical air 7 bar terminal unit.
- 2 No. Medical vacuum terminal units.
- 1 No. AGSS terminal unit.

Medical Gas & Vacuum Terminal Units British Standards to BS EN ISO 9170-2:2008



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Resources and technical memoranda for the facilities required for in-patient operating theatres in an acute general hospital.

Recommended Brandon Equipment Package (BEP) for Smart Conventional Operating Theatre

Symposia® Integrated Operating Theatre with Entoli 4K



Talk to us about your project - 0113 277 7393
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