

CASE STUDY

MEDICAL AIR TECHNOLOGY DESIGNS A NEW UCV THEATRE FOR NUFFIELD HEALTH'S NORTH STAFFORDSHIRE HOSPITAL



ECO-FLOW

LOW ENERGY ULTRACLEAN CANOPIES

Medical Air Technology (MAT) has completed another project with Nuffield Health at its hospital in North Staffordshire. MAT was brought in to undertake the major redesign and rebuild of an existing small endoscopy room, developing it into an operating theatre fully equipped for ultraclean surgery. This has enabled the hospital to extend its theatre capacity to offer the more complex procedures that can be delivered in an ultraclean environment, and is part of its ongoing commitment to ensuring that the people of North Staffs have access to the best clinical care.

At the heart of the new theatre is its ultraclean ventilation (UCV) canopy. The new canopy is from MAT's ECO-flow™ range, designed to significantly reduce energy usage and cost, without any reduction in the level of efficacy. 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 has also been added to the ECO-flow™ canopies, which use up to 60% less power than other similar canopies, even in full ultraclean mode.





The work undertaken by MAT required significant reconfiguration of the space available, including extending the footprint of the new theatre into the existing recovery area. This presented particular challenges as the room had to be stripped out and refitted without shutting the recovery area, which remained in use throughout. This necessitated the construction of temporary walls and working overnight and through the weekend to ensure the essential recovery area could continue to function as normal. MAT also had to carry out a major structural upgrade of the theatre roof to allow it to support the weight of the new UCV canopy. New ventilation and air conditioning plants, mechanical and electrical services, operating lights, IPS/UPS electrical systems, touchscreen surgeons' panels, PACS systems, and flooring and decorations completed this turnkey project.

MAT puts patient comfort and safety at the heart of everything it does, and worked closely with hospital staff throughout to ensure that everything progressed as smoothly and quickly as possible, creating the minimum disruption for everyone at the hospital even during a project of this size and complexity.



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