

## CASE STUDY

### MEDICAL AIR TECHNOLOGY (MAT) - HELPING TO TRANSFORM THE DELIVERY OF PATIENT CARE IN THE NORTH WEST



Image courtesy of Liverpool Echo



Medical Air Technology (MAT) has recently completed its work at the new and hugely ambitious £335m Royal Liverpool University Hospital, set to change the way healthcare is delivered in Liverpool. When opened, the new hospital will be the largest medical facility in the UK and will be equipped with the latest technologies throughout, whether for sharing visitor information, entertaining and informing patients, or providing clinicians with the best environment from which to deliver world-leading treatment and patient care.

In 2019, the Clatterbridge Cancer Centre will also move to the Royal campus. The new hospital will be a major step forward in the emergence of the Liverpool Knowledge Quarter, also home to the University of Liverpool, John Moores University and the School of Tropical Medicine.

**“The new Royal will enable us to deliver state of the art healthcare in the best surroundings in the world. It will also help us meet the aspirations of our staff to provide the kind of service that we would want to see for our own families.”**

**Aidan Kehoe: Chief Executive at Royal Liverpool and Broadgreen University Hospitals**



MAT has installed four ECO-flow™ ultraclean ventilation (UCV) operating theatres, recommended for orthopaedic surgery, in the theatre suite and three containment level 3 laboratories in the clinical services support building, including all finishes, furniture, and mechanical and electrical items.

The construction of such a building on a brownfield city centre location has proved to be a very complex process, and undertaking work on this challenging site, where project demands have evolved over several years, required a flexible and pragmatic approach from all the team at MAT. The 94,000m<sup>2</sup> hospital will have 23 wards and 646 single ensuite bedrooms, including 40 critical care beds and 81 emergency assessment beds. Once completed, there will be 18 operating theatres (including robotic and hybrid theatres), making it Liverpool's main accident and emergency centre capable of dealing with major trauma.

The main acute services include cardiology, respiratory care and general surgery together with regional and national specialist services in renal dialysis, endoscopy, ophthalmology, haematology and vascular surgery. There will also be a large clinical research facility and links to the nearby Liverpool University.



The new building will be very different from the huge 1970s concrete facility currently on the site. Its design provides a healing, non-institutional environment to enhance the patient, visitor and staff experience. The building layout maximises daylight and large landscaped gardens and tree lined pedestrian paths will help to make the hospital feel calm and less "clinical".

**While the hospital itself will be housed in a high-rise tower at one end of the space, its car park will be sunk underground, freeing up room for a "health campus" – a landscaped public square, green areas for patients, and room to develop facilities for research and life-science companies that will bring new jobs and investment to the city.**



Written and distributed by: Medical Air Ltd  
Further information: Stephen Taylor  
Call: +44 (0)844 871 2100  
Email: [stephen.taylor@medicalairtechnology.com](mailto:stephen.taylor@medicalairtechnology.com)

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