



MANSFIELD POLLARD
AIR MANAGEMENT EXPERTS



Royal Lancaster Infirmary

HTM 03-01 Critical Care AHU

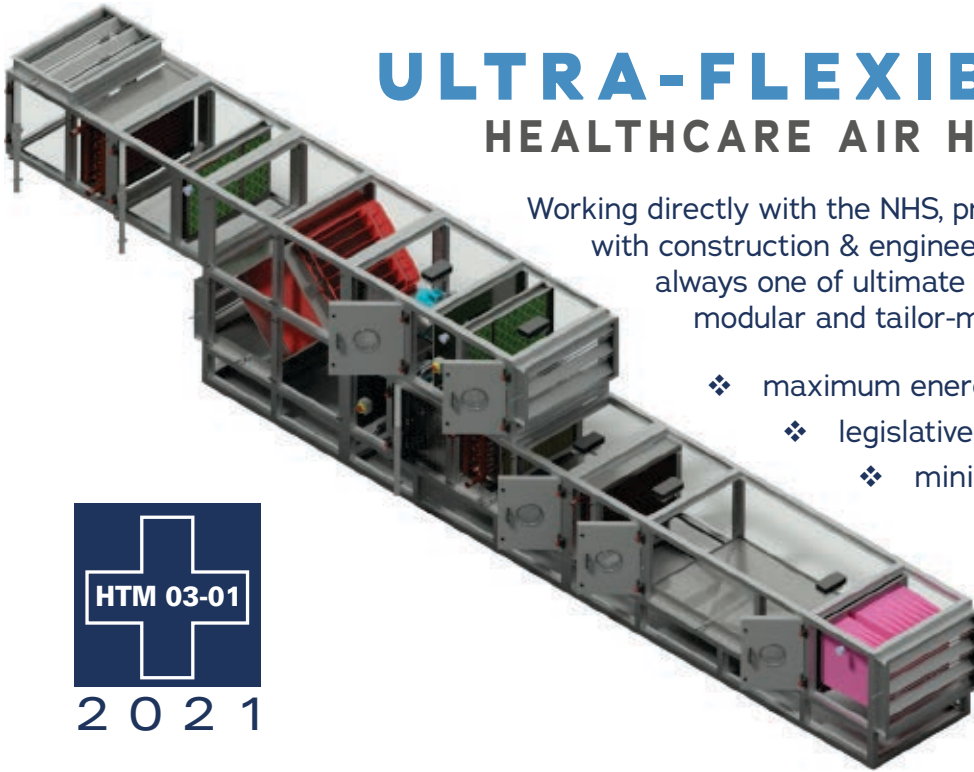
HOSPITAL & HEALTHCARE
Air Handling Solutions by Mansfield Pollard

SPECIALISTS IN HEALTHCARE AHU's

ULTRA-FLEXIBLE HEALTHCARE AIR HANDLING

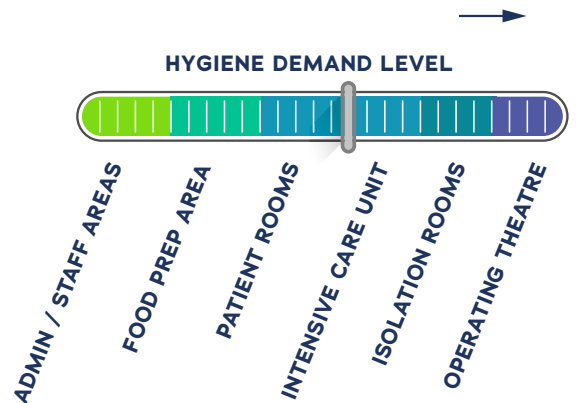
Working directly with the NHS, private healthcare organisations and with construction & engineering contractors, our approach is always one of ultimate flexibility to guarantee both our modular and tailor-made units achieve:

- ❖ maximum energy efficiency
- ❖ legislative compliance incl. HTM 03-01
- ❖ minimum unit footprint
- ❖ required performance levels



SPECIALIST CARE NEEDS SPECIALIST AIR

In healthcare premises, certain activities will necessitate the provision of ventilation equipment with additional special features in order to achieve and maintain specific conditions. These may be needed in order to assist with the treatment of patients or maintain the health and safety of staff.



Infection Control

Separate extract / supply airflows & room pressure management.



Hazard Control

Multi filtration stages & microbially inert design.



Climate Control

Heating / cooling and humidity control options.



Energy Control

High efficiency energy recovery and variable speed fans.

SPECIALIST CARE needs SPECIALIST AIR

SUPPORTING CRITICAL CARE

The new £2.5 million state-of-the-art operating theatre at RLI (Royal Lancaster Infirmary) is part of a wider £34 million investment by University Hospitals of Morecambe Bay NHS Foundation Trust (UHMBT). The modular theatre has been built to provide additional capacity whilst the existing four other operating theatres at the RLI are being fully refurbished and upgraded to meet stringent modern standards.

The theatre incorporates the latest technologies and advanced design to ensure the highest levels of safety, care, experience and performance for both patients and staff.



A PARTNERSHIP APPROACH

As recognised hospital and healthcare ventilation specialists, Mansfield Pollard worked in partnership with the Consultant Engineer, main contractor and the NHS Trust to provide critical care air handling for the new theatre and surrounding development. Superior technical design capability combined with an in-depth understanding around HTM 03-01 requirements ensured an energy efficient and fully compliant ventilation solution.



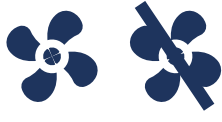
2021

ULTIMATE PERFORMANCE



HTM 03-01 2021 Compliant

Fully compliant with the latest HTM 03-01 legislation (2021).



Run & Standby EC fans

Offering the ultimate in energy efficiency and redundancy levels



FAT & Site Testing to L2

Factory witnessed and site AHU testing to achieve class L2



Duel Side Access

To facilitate easy maintenance due to limited space



PROJECT HIGHLIGHTS

With **continuous operation, quality and energy efficiency** being the key project drivers, Mansfield Pollard engineered each AHU to be HTM 03-01 compliant with build in N+1 redundancy. **Outstanding hygiene** is guaranteed via extended drain trays, stainless steel & laminate internal panels, tailor made base frames and specialised coils.

Each air handling unit was fully built and tested in the factory before being dismantled and shipped flat-pack to be fully reassembled on site. **Volumetric and leakage testing** (witnessed by the main contractor) ensured proven air volumes and leakage levels to L2 were achieved.

As a result of limited plant room space, additional access panels and viewports were designed into the unit to enable safe and efficient unit maintenance. The selection of high efficiency **EC fans** and inclusion of **N+1 redundancy** design offered the end user the ultimate in unit energy performance and reliability



Specialist AHU Applications
HOSPITAL & HEALTHCARE

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