



MANSFIELD POLLARD
AIR MANAGEMENT EXPERTS



Westmorland General Hospital NHS Foundation Trust

HTM 03-01 Critical Care AHU

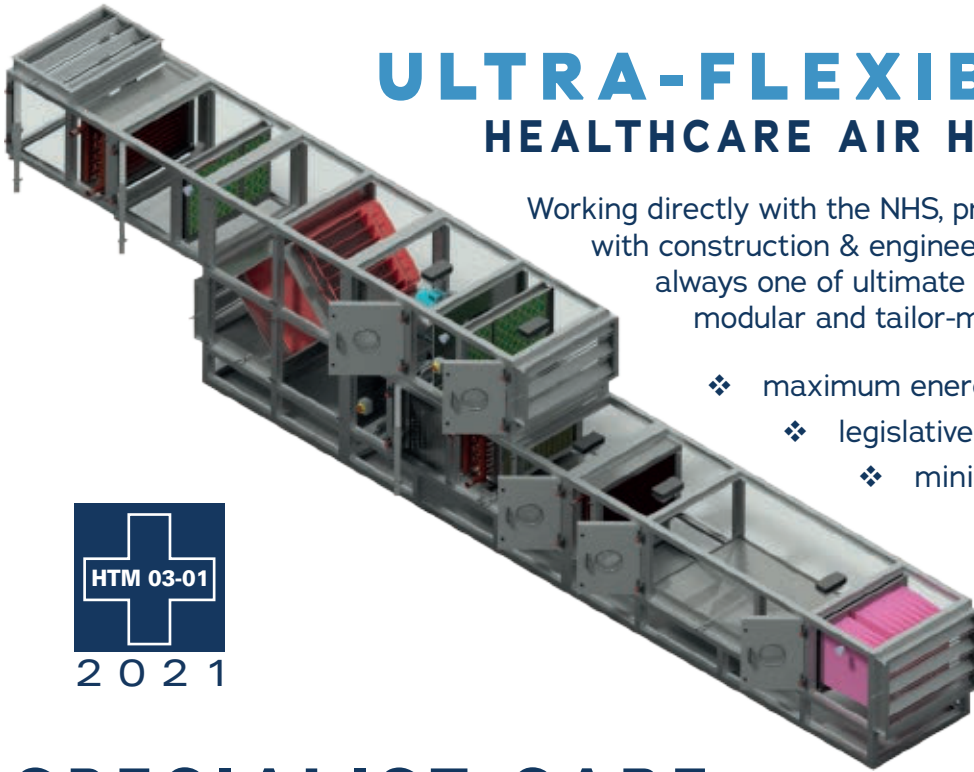
Specialist AHU Applications
by Mansfield Pollard

SPECIALISTS IN HEALTHCARE AHU's

ULTRA-FLEXIBLE HEALTHCARE AIR HANDLING

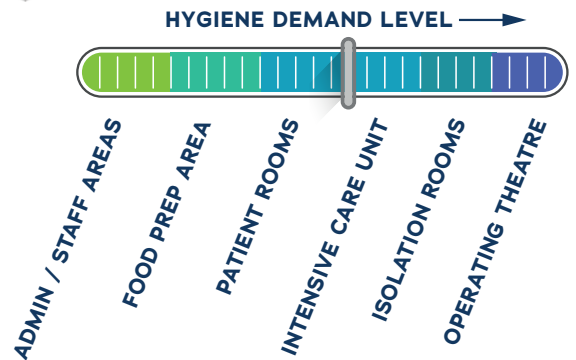
Working directly with the NHS, private healthcare organisations and with construction & engineering contractors, our approach is always one of ultimate flexibility to guarantee both our modular and tailor-made units achieve:





- ❖ 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.



 <p>Infection Control</p> <p>Separate extract / supply airflows & room pressure management.</p>	 <p>Hazard Control</p> <p>Multi filtration stages & microbially inert design.</p>	 <p>Climate Control</p> <p>Heating / cooling and humidity control options.</p>	 <p>Energy Control</p> <p>High efficiency energy recovery and variable speed fans.</p>
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ULTIMATE PERFORMANCE

THE PROJECT

Westmorland General Hospital became an Elective Green Surgical Hub within the University Hospitals of Morecambe Bay NHS Foundation Trust. These 'hubs' have been established to perform more elective surgical operations and reduce the backlog of patients waiting for surgery.

The additional funding through the Elective Recovery Plan secured the hospitals expansion with the addition of two state-of-the-art operating theatres, recovery area, waiting rooms and support facilities for colleagues.

With a reputation for providing high quality, energy efficient, HTM 03-01 air handling solutions, Mansfield Pollard was engaged by The James Mercer Group Ltd. to support the hospitals expansion and contribute to the Trust's Net Zero Green Plan.



PROJECT HIGHLIGHTS

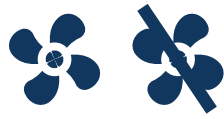


PROJECT HIGHLIGHTS



HTM 03-01 COMPLIANT

Legal requirement for specialised ventilation within healthcare buildings



RUN & STANDBY EC FANS

Offering the ultimate in redundancy, efficiency and low noise levels



ON SITE L2 LEAKAGE TEST

Increase energy efficiency and improve infection control



FLATPACK SOLUTION

plantroom access required extreme flatpack solution

Three fully HTM 03-01 compliant air handling units were designed, manufactured and installed at Westmorland Hospital, joining the significant number of existing Mansfield Pollard units on site. Reliability and energy efficiency were both key drivers for AHU design and of critical consideration to support the Trust's Net Zero Green Plan.

Selection of ultra energy efficient EC fans plus the design of an integrated fan array allowed potential redundancy to be designed into the unit ensuring uninterrupted operation in the unlikely event of fan failure via a 'run and standby' configuration. EC fans use up to 30% less electricity (on average) than conventional fans and are a key element in maximising levels of energy efficiency. Each fan was fitted with commando sockets and quick release slide out rails to assist maintenance.

With access to the plantroom severely restricted, a flatpack solution with separated frame, individualised panels and all component parts was required. A full on-site build and both positive and negative pressure testing ensured the AHU was manufactured to achieve a minimum of class L2 air leakage.



Specialist AHU Applications
HOSPITAL & HEALTHCARE

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