



MANSFIELD POLLARD
AIR MANAGEMENT EXPERTS

North Tees and Hartlepool **NHS**
NHS Foundation Trust

**University Hospital
of North Tees**

Accident and Emergency



UNIVERSITY HOSPITAL of NORTH TEES

HTM 03-01 Operating Theatre AHU

Specialist AHU Applications
by Mansfield Pollard

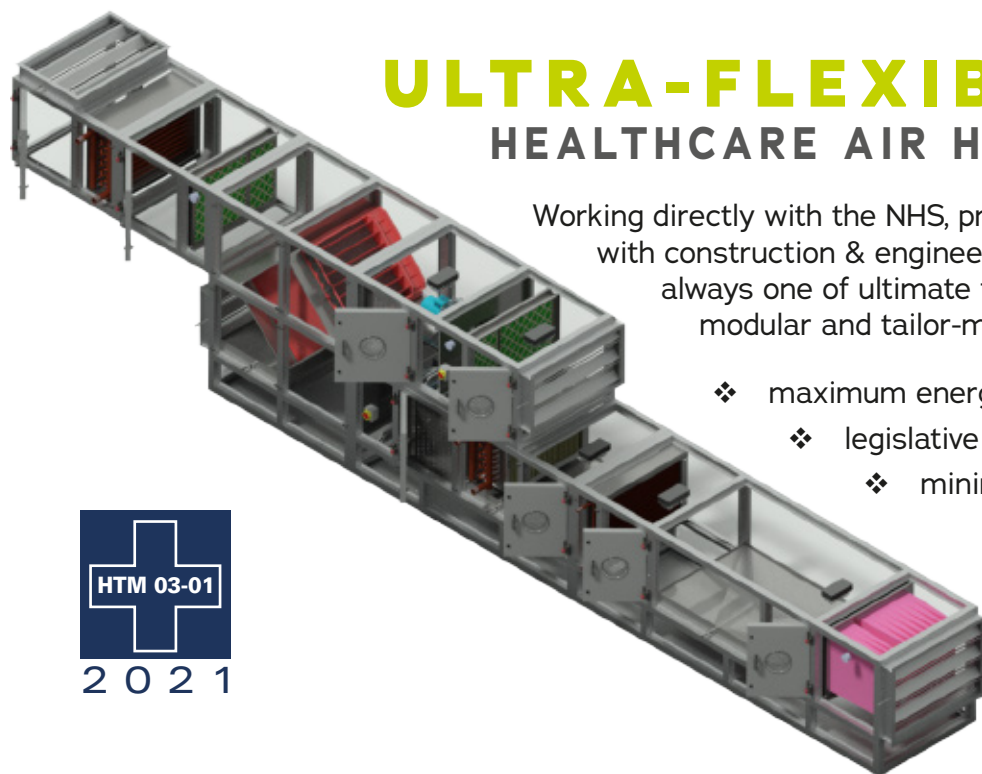
SPECIALISTS IN HEALTHCARE AHU's

PROJECT HIGHLIGHTS

ULTRA-FLEXIBLE HEALTHCARE AIR HANDLING

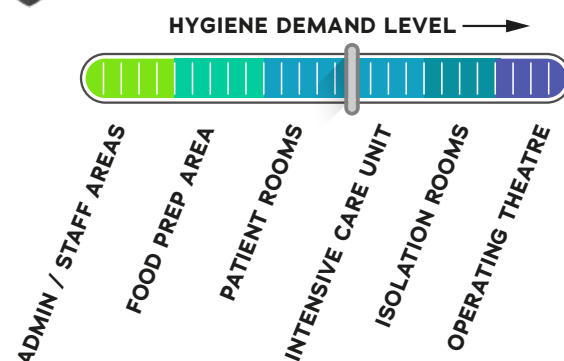
Working directly with the NHS, private healthcare organisations and with construction & engineering contractors, our approach is always one of ultimate flexibility to guarantee both our modular and tailor-made units achieve:

- ❖ 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.



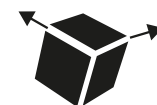
ULTIMATE FLATPACK BUILD

700mm plantroom access required extreme flatpack solution



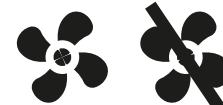
HTM 03-01 2021 COMPLIANT

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



CLASS L2 AIR LEAKAGE

On-site AHU casing build & testing to achieve class L2

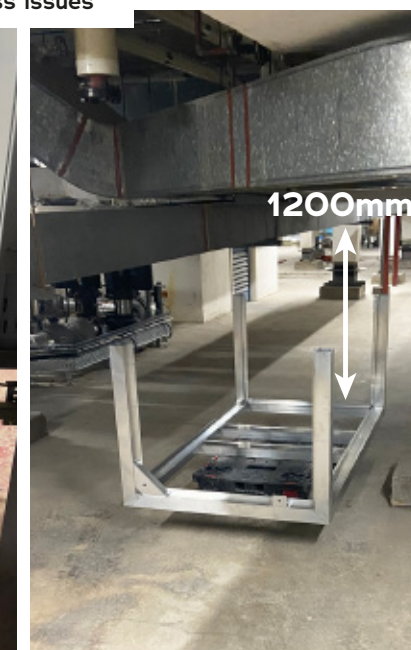


RUN & STANDBY EC FANS

Offering the ultimate in redundancy, efficiency and low noise levels



access issues



With access to the 3rd floor plantroom restricted to a 700mm doorway and under pre-installed ductwork at a height of 1200mm, a flatpack solution with **separated frame with individualised panels** were required for the 9m x 2.1m air handling unit. Built to achieve a minimum **class L2 air leakage** and incorporating **run and standby** supply and extract fans, the **HTM 03-01 compliant** unit now provides **critical ventilation** to a new operating theatre at the University Hospital North Tees.

Fully customised, the **welded aluminium profile base** was reduced from the standard 300mm to 287mm to connect seamlessly with pre-existing ductwork spigots and a **quick release fan mechanism** designed to ensure maximum uptime and unit reliability.



AHU framework



tested & commissioned

Specialist AHU Applications
HOSPITAL & HEALTHCARE

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