



Diana, Princess of Wales Hospital

HTM 03-01 AHU
with Integral Maintenance Corridor

HOSPITAL & HEALTHCARE

Air Handling Solutions by Mansfield Pollard

HTM 03-01 COMPLIANCE

PROJECT HIGHLIGHTS

£101 MILLION INVESTMENT

Following the **£17.9 million extension** of the Emergency Department at Diana, Princess of Wales Hospital, Northern Lincolnshire and Goole NHS Foundation Trust continue to invest £101 million to drive infrastructure improvements across the whole of their property portfolio

Additional investment continues at pace including the full refurbishment of two operating theatres and **improvements to diagnostic facilities** through new mammography, fluoroscopy, Gamma Camera, and Maxillofacial equipment at the Grimsby based hospital.





With technical design capability and



experience in specialist healthcare ventilation being key partnership drivers, Mansfield Pollard were engaged to manufacture and install a fully **HTM 03-01** compliant air handling unit with **maintenance corridor** to serve the redeveloped imaging suite housing the latest GE Healthcare **Gamma Camera** / CT equipment



Diana, Princess of Wales Hospital

 HTM 03-01 COMPLIANT Legal requirement for specialised ventilation within healthcare buildings	 MAINTENANCE CORRIDOR Fully welded service pod for complete protection from the elements
 ON SITE TESTING Refrigeration pressure strength testing and leakage to class L2	 DX COOLING Additional cooling requirement for critical medical equipment



PROJECT HIGHLIGHTS

Mansfield Pollards specialist air handling team were engaged to provide critical air management for a new **state-of-the-art gamma camera room**, designed to significantly enhance the hospitals diagnostic services.

Optimising indoor air quality and controlling and maintaining the indoor environment within strict tolerances is critical to ensure the perfect environment for both clinical staff and patients. Specialist care needs specialist air, and nuclear medicine areas such as Gamma rooms require specific ventilation solutions: A fully **HTM 03-01** compliant air handling unit with parallel integral **maintenance corridor** / service pod and powerful **DX system ensured targeted cooling** of the Gamma camera machine itself.

A fully welded maintenance corridor / service pod 2m x 1.5m x 8.3m running parallel to the AHU was constructed to ensure protection from elements for unit access. Full commissioning of the condensing unit included **pressure strength and leak tightness** testing of all refrigeration pipework. Access restrictions necessitated a **flat-pack build** in 4 sections (for both AHU and corridor) with full assembly and **on-site leakage testing** to L2 at 700Pa positive.



AHU with Maintenance Corridor

Specialist AHU Applications
HOSPITAL & HEALTHCARE

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