

CRITICAL & SPECIALIST
VENTILATION



With over 40 years experience & over 10,000 bespoke manufactured units, MP Air Handling is recognised as an **industry leading** solutions provider.

MULTI-APPLICATION

Every application needs specialised construction and a combination of extensive air management experience and in-house technical specialists provide the perfect solution for any environment & application.

FAST TURNAROUND

An agile & highly skilled workforce, multiple manufacturing sites and ultra-efficient manufacturing methods mean we are able to deliver to the most stringent of deadlines.

EXPERIENCED

We provide bespoke air handling solutions for all industry sectors including healthcare, pharmaceutical, and aggressive industrial environments through to medical grade cleanrooms, containment laboratories and other critical clinical areas.

THEATRES & RECOVERY



Operating theatres rely on clean air systems to reduce airborne contaminants and maintain environmental conditions for staff. The operating theatre suite also contains other key areas for perioperative practice, such as an anaesthetic room, preparation room, scrub, dirty utility and first stage post-anaesthesia recovery.

CRITICAL CARE



Critical care areas need dedicated ventilation to ensure the safest conditions for vulnerable patients with severe or life-threatening illnesses and injuries. Examples include isolation rooms (positive and negative), high dependency units (HDU), newborn and paediatric intensive care units (NICU, SCBU and PICU), critical care units (CCU), intensive therapy units (ITU) and intensive care units (ICU).

STERILE SERVICES



Surgical instruments are washed, sterilised and packed in the sterile services area before being taken to the theatre. Critical ventilation is key in ensuring that they are kept as clean as possible as they pass through the process. This area is known variously as the central sterile services department (CSSD), theatre sterile services unit (TSSU) or hospital sterilisation and decontamination unit (HSDU).

ASEPTIC SUITES



Aseptic suites maintain positive pressure via specialist HVAC and room design. Radiopharmacies, stem cell laboratories, cytotoxic pharmacies, gene therapy, total parenteral nutrition (TPN) and in vitro fertilisation (IVF) all require aseptic conditions.

CLEANROOMS



Cleanrooms maintain positive pressure to protect the product. This is achieved by specialist airflow created by the HVAC system and room design. They are used in many sectors, such as electronics, research and pharmaceutical manufacturing.

CONTAINMENT LABORATORIES



Containment laboratories require air pressure negative to atmosphere to stop the escape of hazardous pathogens, which is achieved by the specialist airflow created by the HVAC system and room design.

“ Our critical ventilation systems are used in aseptic suites and cleanrooms to create the conditions needed to maintain positive pressure and ensure product protection. They are also used in containment laboratories to maintain negative air pressure to prevent the escape of hazardous pathogens

Porton Down Dstl



We have designed, manufactured and installed a number of air management solutions for a number of laboratories at the Porton Down Defence Science and Technology Laboratories and other commercial science organisations. The majority are covered under NDA's and are for mainly included containment and research laboratories

ADC Witney (Abbot Diabetes Care)



Life changing glucose reading technology requires specialist cleanroom ventilation. We have manufactured and installed over 20 individual cleanroom solutions at this world leading site.

“ We are specialist in the provision of critical ventilation solutions for hospitals and other healthcare facilities. Ventilation is key in ensuring infection control and prevention and to make surgery and other hazardous tasks as risk free as possible.

Isolation Wards



Recent projects undertaken since the emergence of COVID-19 have included air management of specialist modular isolation rooms at Norwich and Norfolk University Hospitals NHS Foundation Trust. Negative pressure with a minimum 12 air changes per hour, each isolation pod has to maintain patient comfort whilst preventing the spread of any pathogen.

HTM 03-01 Ventilation



Mansfield Pollard are specialists in HTM 03-01 air handling units and as a trusted NHS partner have supplied hospital and healthcare ventilation for over four decades. Hygiene demand dictates the solution as additional special features are necessary to achieve and maintain specific conditions

Reference projects



Luton & Dunstable University Hospital

Modular HTM 03-01 air handling units for new operating theatre extension



Nottingham Spire Hospital

x12 air handling units for new hospital including ICU and isolation rooms



Charing Cross Hospital

x4 HTM 03-01 air handling units serving new resus and major surgery area



Edgbaston BMI The Priory

x11 AHU's including HTM 03-01 serving a multi million pound extension.



Peterborough City Hospital

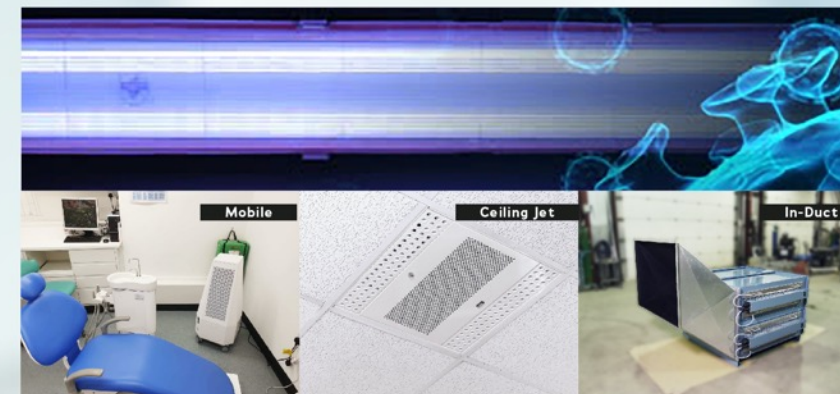
x3 medical grade AHU's serving an LINAC bunker on the new cancer ward



William Harvey Hospital

Modular HTM 03-01 air handling unit serving new PET & CT scanning room

Ultraviolet Air Sterilisation



Mansfield Pollard's specialist business unit UVent is the UK's leading designer & manufacturer of revolutionary UV-C air sterilisation products to supply ultra-clean air to hospitals, healthcare facilities and other environments.

Mobile, ceiling jet and duct mounted UV units kill airborne pathogens including bacteria and viruses through ultra-violet germicidal irradiation with measurable performance and guaranteed results.

In addition, we supply a ultraviolet cooling coil disinfection systems and plasma air cleaning systems for thermal wheels.

SPECIALISTS IN AIR

Project Profiles



Brochures



CPD's





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