



**MANSFIELD POLLARD**  
AIR MANAGEMENT EXPERTS



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# AHU RENTAL UNITS

UK Wide Plant Hire

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Mansfield Pollard Air Handling  
Project Profile

# AIR MANAGEMENT EXPERTS

## PROJECT OVERVIEW

Mansfield Pollard was commissioned by Ideal Heat Solutions, a leading provider in plant hire equipment across multiple sectors in the UK, to design and manufacture 10 bespoke air handling units.

The client required units specifically tailored for the hire market, which presents unique challenges compared to standard air handling applications. This project was an opportunity for Mansfield Pollard to showcase our custom engineering capabilities and deliver on our promise of innovative, robust, and energy-efficient solutions



## CHALLENGES and SOLUTIONS

The primary challenge was to design air handling units that could withstand the rigours of the hire market, including frequent relocation and varied environmental conditions. Our standard air handling unit casing was completely re-engineered to enhance durability and maintain operational reliability under any conditions. The following specification formed the basis for the units:

| TYPE                                               | CAPACITY                        | UNIT FOOTPRINT                   | DUTY / AIRFLOW        | DESIGN FEATURES                      |
|----------------------------------------------------|---------------------------------|----------------------------------|-----------------------|--------------------------------------|
| Temporary Plant 'Plug and Play' Air Handling Units | 300kW Heating and 150kW Cooling | 2.5m (L)<br>1.2m (W)<br>1.7m (H) | 5.55m <sup>3</sup> /s | ultra-compact, resilient and durable |

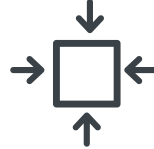
# ENGINEERED FOR RESILIENCE

## DURABILITY FOCUSED



Recessed handles and vice-action locks to enhance durability and maximise damage resistance during relocation. Transit safety was further optimised by designing in recessed coil headers and an inset 32A five pin socket. Fabricated 150mm base with integrated lifting lugs for ease of mobility

## EFFICIENT & COMPACT



The ultra-compact footprint consisted of a specially constructed filter wall, designed to ensure quick and easy maintenance. Twin EC high-efficiency fans operating at a 50% duty share for improved reliability and resilience. Drop-over type roof to maintain unit integrity and allow unit on unit stacking.

## SIMPLE CONNECTIVITY



Integrated plug and play controls to minimise energy usage surrounded by a protective cabinet to enhance usability and safety. 4x500mm spigots with end caps, designed for easy connection to any existing ductwork, facilitating quick installation and integration on site.

Inset 32A 5 pin socket



High Efficiency Twin Fans



Plug & Play Controls



Recessed coil headers



Fabricated Filter Wall



4x500mm Capped Spigots





Specialist AHU Applications  
**AHU RENTAL UNITS**

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