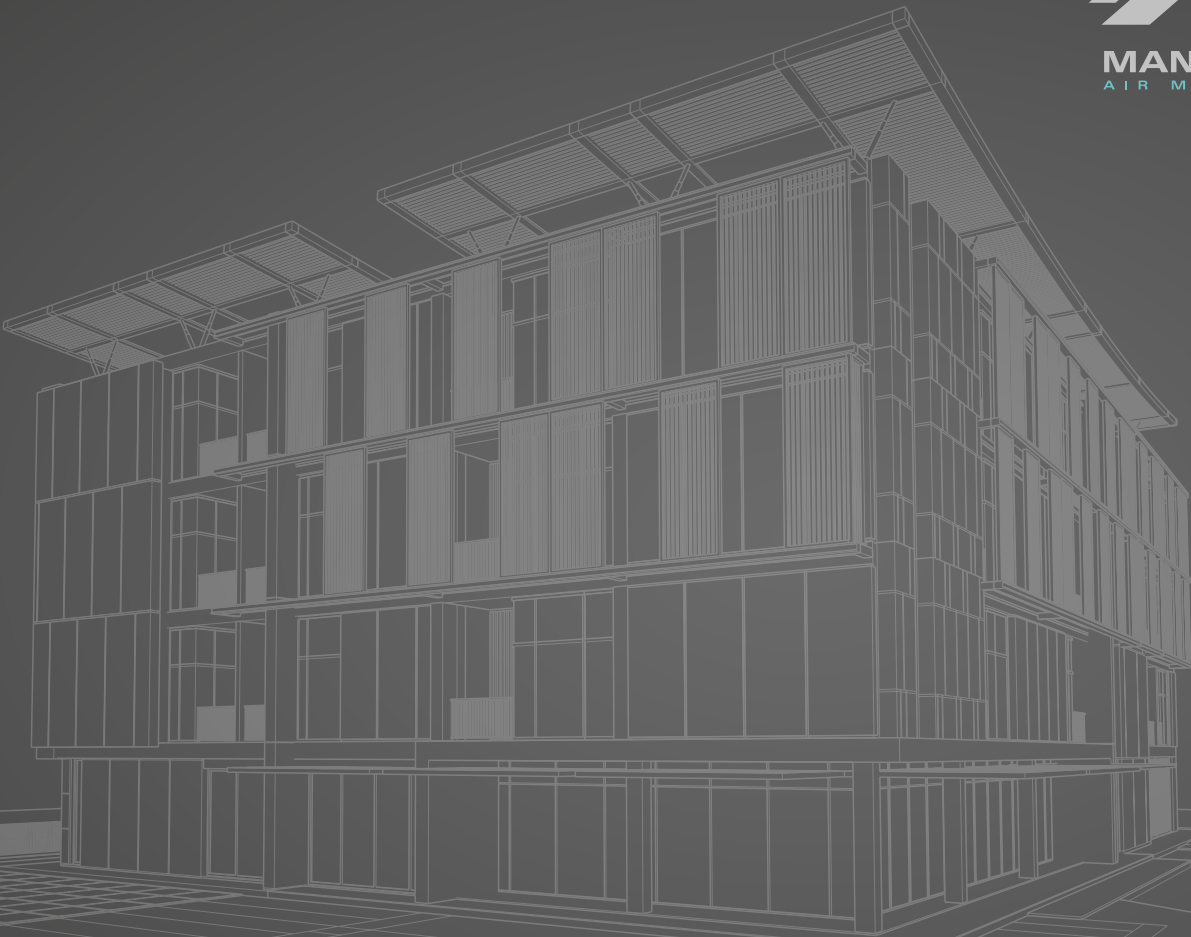


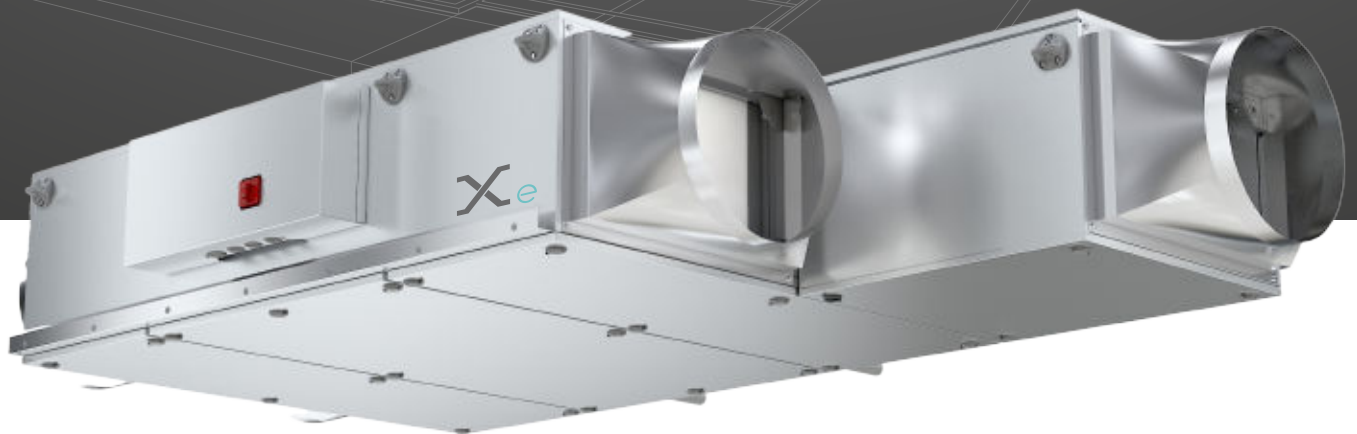


MANSFIELD POLLARD
AIR MANAGEMENT EXPERTS



Mechanical Ventilation with Heat Recovery

MVHR



HEAT RECOVERY SERIES



HEAT RECOVERY SERIES MVHR

by Mansfield Pollard

the Xe advantages

THE Xe SERIES OF MVHR UNITS

Mansfield Pollard have been an acknowledged market leader in the air handling industry for over 40 years. Our range of premium efficiency MVHR units offer the ultimate in energy recovery ventilation for all non-residential applications including schools, universities, commercial offices, retail, hospitality venues and healthcare facilities.



DELIVERING SAFE FRESH AIR IN EVERY LOCATION

Mechanical Ventilation with Heat Recovery (MVHR) provides a continuous source of ventilation to extract stale, moisture laden air from a room and re-supply fresh, filtered air back in, resulting in a safe & comfortable environment whilst reducing its carbon footprint via a highly efficient energy recovery process.



HEAT RECOVERY SERIES










SAVE ENERGY, SAVE MONEY, PRESERVE THE FUTURE



As well as providing a huge improvement in indoor air quality, MVHR units can result in a reduction in heating demand of nearly 30%. The latest units can operate at over 90% efficiency.

Passivhaus Trust

“ The benefits of a Mansfield Pollard MVHR unit aren't just restricted to saving energy.....

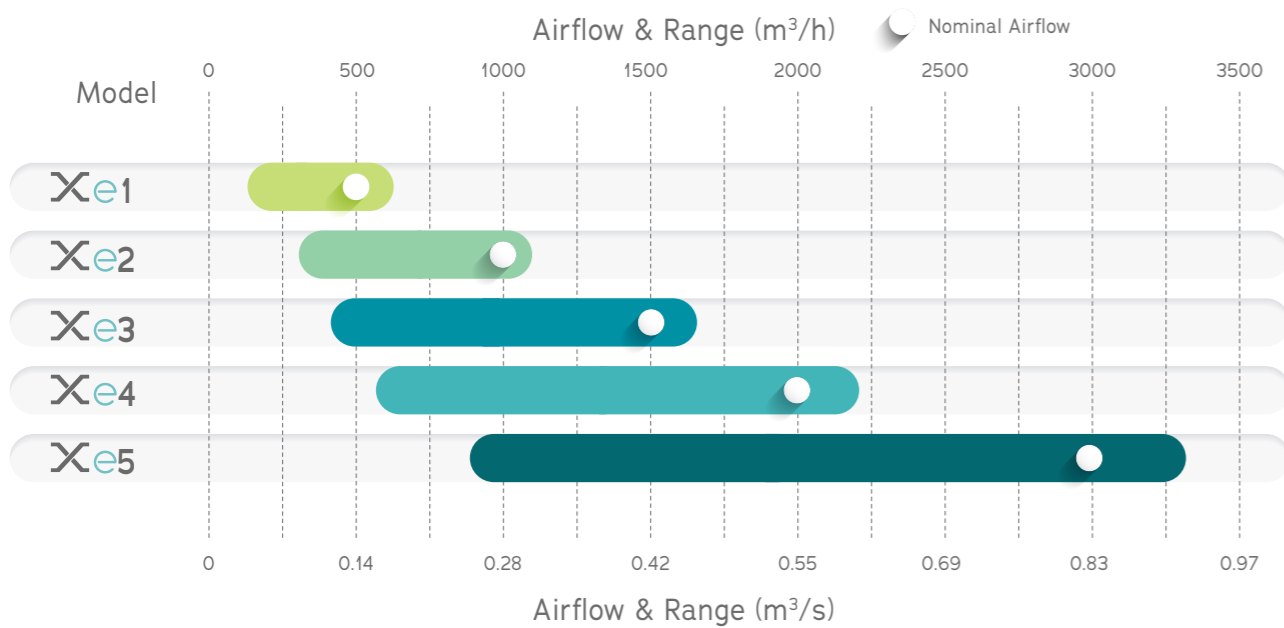
| | | |
|--|---|---|
| <p>Ultra-Efficient</p>  <p>Energy saving E.C. fans plus outstanding levels of heat recovery for maximum efficiency</p> | <p>Low Noise</p>  <p>Continuous acoustic housing reduces breakout, ultra-quiet fans & option for additional attenuation</p> | <p>Fully Compliant</p>  <p>Eurovent certified, ErP Lot 6 2018 (non residential) compliant & achieves BB93 & BB101</p> |
| <p>Robust</p>  <p>Superior build quality, low SFP's and EN 1886 parameters of T2, TB3, L1, D1</p> | <p>Energy Saving</p>  <p>Multifunctional controls integrated in to the unit - preconfigured and ready to run</p> | <p>Versatile</p>  <p>Intelligent design with handling options to minimise site costs and downtime</p> |
| <p>Plug & Play</p>  <p>Preconfigured settings allow immediate and hassle-free functionality.</p> | <p>Customisable</p>  <p>Options for heating / cooling / attenuation & choice of sensors to suit any environment</p> | <p>Safe, Fresh Air</p>  <p>Separate extract / supply airflows & room pressure management for maximum safety.</p> |



HEAT RECOVERY SERIES MVHR

by Mansfield Pollard

the Xe accessories



“ All our MVHR units are fully customisable to suit any environment or application.

Accessories:

Heating & Cooling



Choice of separate heating and cooling coils (LPHW / electric / cold water) plus DX option

Sensors



CO₂ sensors, Temperature / P.I.R (passive infrared) available on request

Attenuation



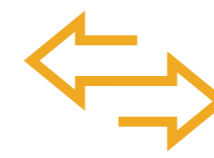
Additional matched, unit mounted attenuation to further reduce noise levels if required

2D, 3D & Revit



Units available as 3D / Revit scaled assets for perfect visualisation in pre-construction

Handing



Ability to specify left or right handing to suit the required application

Filtration



Option to increase levels of filtration efficiency with addition of a bag filter

1 - MINI-PLEAT FILTERS
Air filters with extended high efficiency filtration surface.
Supply - EU7 (ePM2,5 65%)
Exhaust - EU5 (ePM10 50%)

2 - CASING
Casing parameters according to EN 1886: T2, TB3, L1, D1, F9.

3 - EC MOTORS
Efficient, silent and low vibrations fan with electronically commutated motor in a IE4 class.

4 - ENERGY RECOVERY
Highly efficient counterflow hex recovery with by-pass. Recovery efficiency reaching 90%.

5 - RECUPERATOR BY-PASS
Stepless adjustment of heat recovery capacity. Passive cooling function. Recuperator frost protection.

6 - CONTROLS
Multifunctional controls, integrated with the unit – fully pre-configured and ready to run.





EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

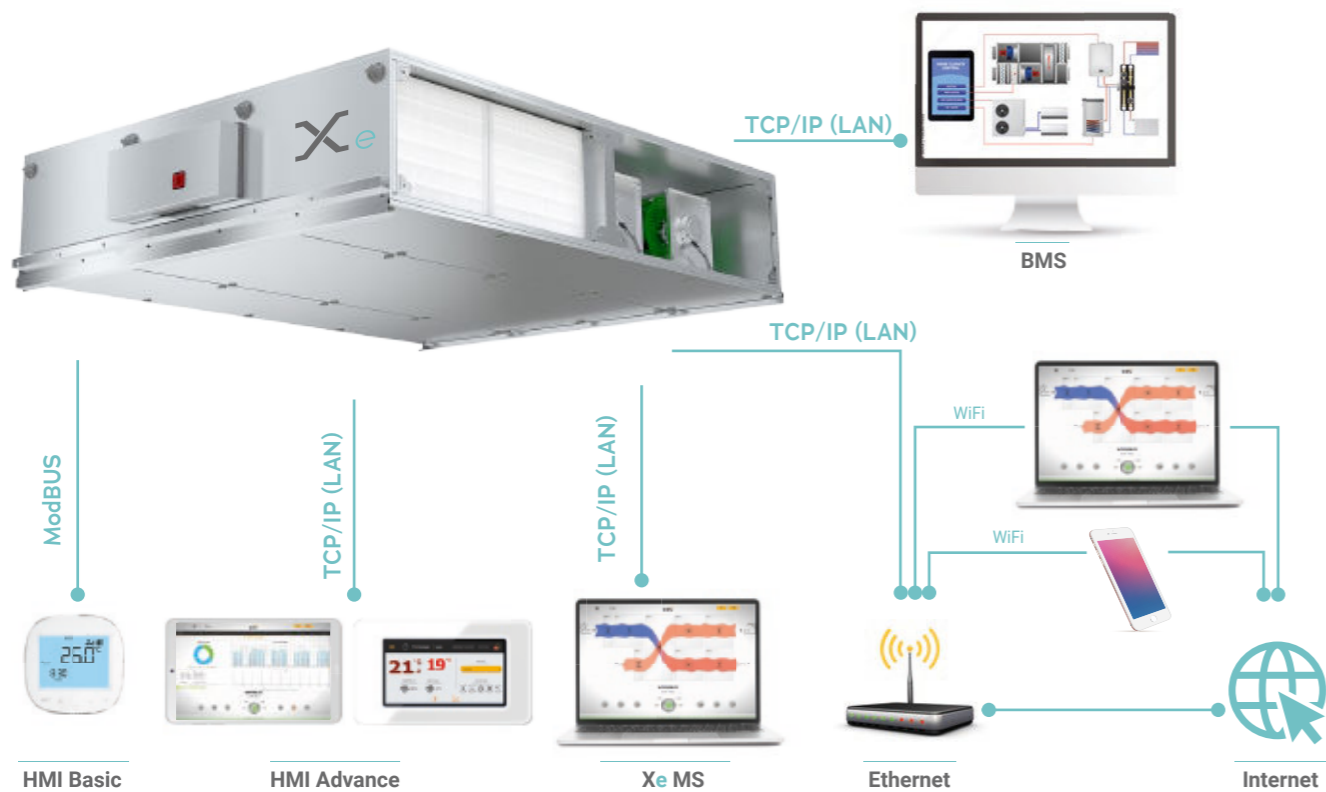
up to **93%** drive efficiency

the Xe management system

“ Integrated Xe control systems are supplied with a factory-implemented application for remote monitoring and management of the operating parameters of the units in real time via a web browser on any mobile device.

Xe ENERGY MANAGEMENT SYSTEM

| | | | |
|--|--|--|---|
|  <p>Remote monitoring and management of unit parameters</p> |  <p>Operational data accessed via PC, mobile, web browser</p> |  <p>Quick optimal unit set up and intuitive operational changes</p> |  <p>Real time operational monitoring including energy usage & faults</p> |
|--|--|--|---|



the Xe unit data

Base Unit Data

| | Nominal Airflow | Airflow Range | Unit Height | Unit Width | Duct Connection (H) | Duct Connection (W) |
|-----|-------------------|-------------------|-------------|------------|---------------------|---------------------|
| | m ³ /h | m ³ /h | mm | mm | mm | mm |
| Xe1 | 500 | 150 - 650 | 400 | 790 | 318 | 335 |
| Xe2 | 1000 | 300 - 1100 | 400 | 1150 | 318 | 515 |
| Xe3 | 1500 | 450 - 1650 | 400 | 1550 | 318 | 715 |
| Xe4 | 2000 | 600 - 2200 | 490 | 1610 | 408 | 743 |
| Xe5 | 3000 | 900 - 3300 | 490 | 2160 | 408 | 1018 |

Section Length



| | Base Unit | Filter Section | Cooling Coil | Heating Coil | DX Coil |
|-----|-----------|----------------|--------------|--------------|-----------|
| | mm | +mm | +mm | +mm | +mm |
| Xe1 | 1230 | 200 | 200 - 460 | 370 - 460 | 460 - 920 |
| Xe2 | 1500 | 200 | 200 - 460 | 370 - 460 | 460 - 920 |
| Xe3 | 1500 | 200 | 200 - 460 | 370 - 460 | 460 - 920 |
| Xe4 | 1828 | 200 | 200 - 460 | 370 - 460 | 460 - 920 |
| Xe5 | 1828 | 200 | 200 - 460 | 370 - 460 | 460 - 920 |

Duct Accessories

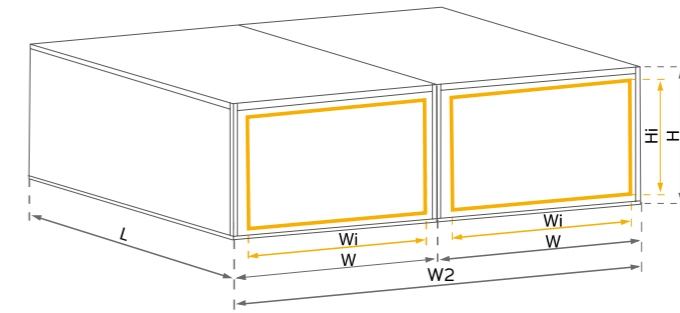
| | Xe1 | Xe2 | Xe3 | Xe4 | Xe5 |
|---------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| | mm (wxh) | mm (wxh) | mm (wxh) | mm (wxh) | mm (wxh) |
| Flexible Connection | 305x288 | 485x288 | 685x288 | 730x375 | 1005x375 |
| Air Damper | 305x288 | 485x288 | 685x288 | 730x375 | 1005x375 |
| Rectangle Spigot | 330x310 / 300x300 | 510x310 / 400x350 | 710x310 / 400x350 | 740x400 / 500x400 | 1015x400 / 800x400 |
| Rounded Spigot | 330x310/355 | 510x310/355 | 710x310/355 | 740x400/450 | 1015x400/450 |

Technical Specification and Dimensions

| Nominal parameters | | Recommended airflow range | | | | |
|--------------------|--------|---------------------------|------|------|------|------|
| Unit size | | Xe1 | Xe2 | Xe3 | Xe4 | Xe5 |
| 4 000 | [m³/h] | | | | | |
| 3 000 | | | | | | |
| 2 000 | | | | | | |
| 1 000 | | | | | | |
| 0 | | | | | | |
| Min airflow | | 150 | 300 | 450 | 600 | 900 |
| Max airflow | | 650 | 1100 | 1650 | 2200 | 3300 |
| H | [mm] | 400 | 400 | 400 | 490 | 490 |
| W | | 395 | 575 | 775 | 805 | 1080 |
| H _i | | 320 | 320 | 320 | 410 | 410 |
| W _i | | 335 | 515 | 715 | 745 | 1020 |
| W ₂ | | 790 | 1150 | 1550 | 1610 | 2160 |
| I | | 30 | 30 | 30 | 30 | 30 |

| Dimension | | Function version | Length of selected configurations | | | | |
|-----------|----|-----------------------------------|-----------------------------------|------|------|------|------|
| | Lt | Counterflow hexagonal recuperator | 1230 | 1500 | 1500 | 1828 | 1828 |

| Selected configurations | | Dimension | Function version | Length of supply and exhaust compact units | | | | |
|-------------------------|---|--------------|------------------|--|------|------|------|--|
| | L | V | 460 | 460 | 460 | 460 | 460 | |
| | L | FV | 740 | 740 | 740 | 740 | 740 | |
| | L | FH(hw)V | 740 | 740 | 740 | 740 | 740 | |
| | L | FH(e)V | 1030 | 1030 | 1030 | 1030 | 1030 | |
| | L | FCV | 860 | 860 | 860 | 860 | 860 | |
| | L | FC(de)V | 1030 | 1030 | 1030 | 1030 | 1030 | |
| | L | FH(hw)CV | 1030 | 1030 | 1030 | 1030 | 1030 | |
| | L | FH(hw)C(de)V | 1230 | 1230 | 1230 | 1230 | 1230 | |
| | L | FH(e)CV | 1030 | 1230 | 1230 | 1380 | 1380 | |
| | L | FH(e)C(de)V | 1230 | 1380 | 1380 | 1450 | 1450 | |



Duct Fittings

| Dimension [mm] Wi x Hi / Di | Xe1 | Xe2 | Xe3 | Xe4 | Xe5 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Flexible connection | 305x288 | 485x288 | 685x288 | 730x375 | 1005x375 |
| Air damper | 305x288 | 485x288 | 685x288 | 730x375 | 1005x375 |
| Rectangular spigot | 330x310/300x300 | 510x310/400x350 | 710x310/400x350 | 740x400/500x400 | 1015x400/800x400 |
| Round spigot | 330x310/355 | 510x310/355 | 710x310/355 | 740x400/450 | 1015x400/450 |
| Air intakes and outlets | 335x318 | 515x318 | 715x318 | 743x408 | 1018x408 |

Length of additional air treatment functions

| Selected configurations | | Function version | Length of selected configurations | | | | |
|-------------------------|---|------------------|-----------------------------------|-----|-----|-----|-----|
| | L | F9 | 180 | 180 | 180 | 180 | 180 |
| | | H(hw) (1R-2R) | 180 | 180 | 180 | 180 | 180 |
| | L | H(e) | 370 | 370 | 370 | 370 | 370 |
| | | C (2R-6R) | 370 | 370 | 370 | 370 | 370 |
| | L | C(de) (2R-6R) | 600 | 600 | 600 | 600 | 600 |
| | | H(hw)C | 460 | 460 | 460 | 460 | 460 |
| | L | H(e)C | 740 | 740 | 740 | 740 | 740 |
| | | H(hw)C(de) | 600 | 460 | 460 | 460 | 460 |
| | | H(e)C(de) | 860 | 740 | 740 | 740 | 740 |
| | L | E(e1) | 370 | 460 | 460 | 460 | 460 |
| | | E(e2) | 740 | 740 | 740 | 740 | 740 |



HEAT RECOVERY SERIES

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AIR MANAGEMENT EXPERTS

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www.mansfieldpollard.co.uk