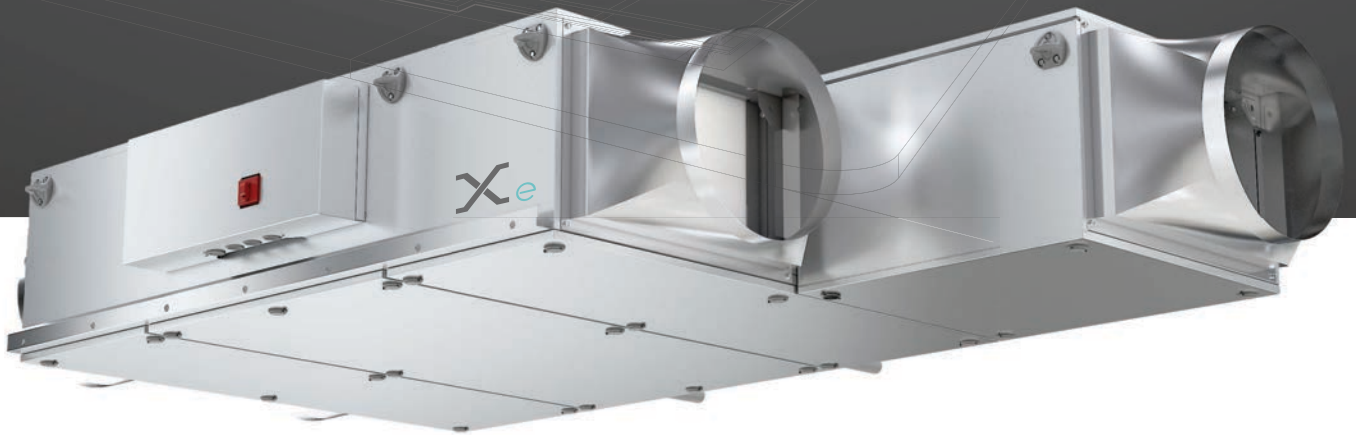




MANSFIELD POLLARD
AIR MANAGEMENT EXPERTS

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.



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.....

Ultra-Efficient



Energy saving E.C. fans plus outstanding levels of heat recovery for maximum efficiency

Low Noise



Continuous acoustic housing reduces breakout, ultra-quiet fans & option for additional attenuation

Fully Compliant



ErP Lot 6 2018 (non residential) compliant and achieves BB93 & BB101

Robust



Superior build quality, low SFP's and EN 1886 parameters of T2, TB3, L1, D1

Energy Saving



Multifunctional controls integrated in to the unit - preconfigured and ready to run

Versatile



Intelligent design with handling options to minimise site costs and downtime

Plug & Play



Preconfigured settings allow immediate and hassle-free functionality.

Customisable



Options for heating / cooling / attenuation & choice of sensors to suit any environment

Safe, Fresh Air



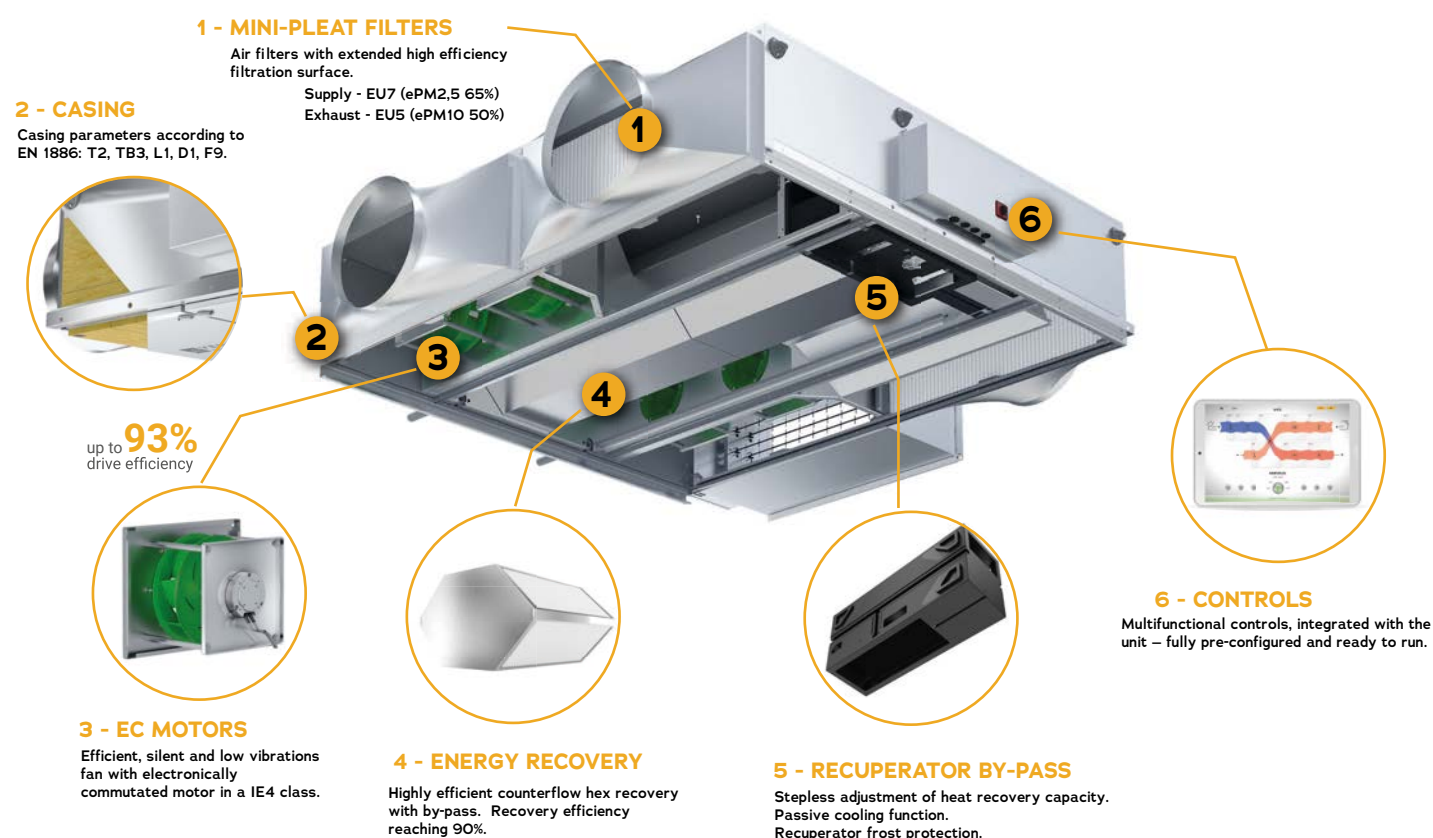
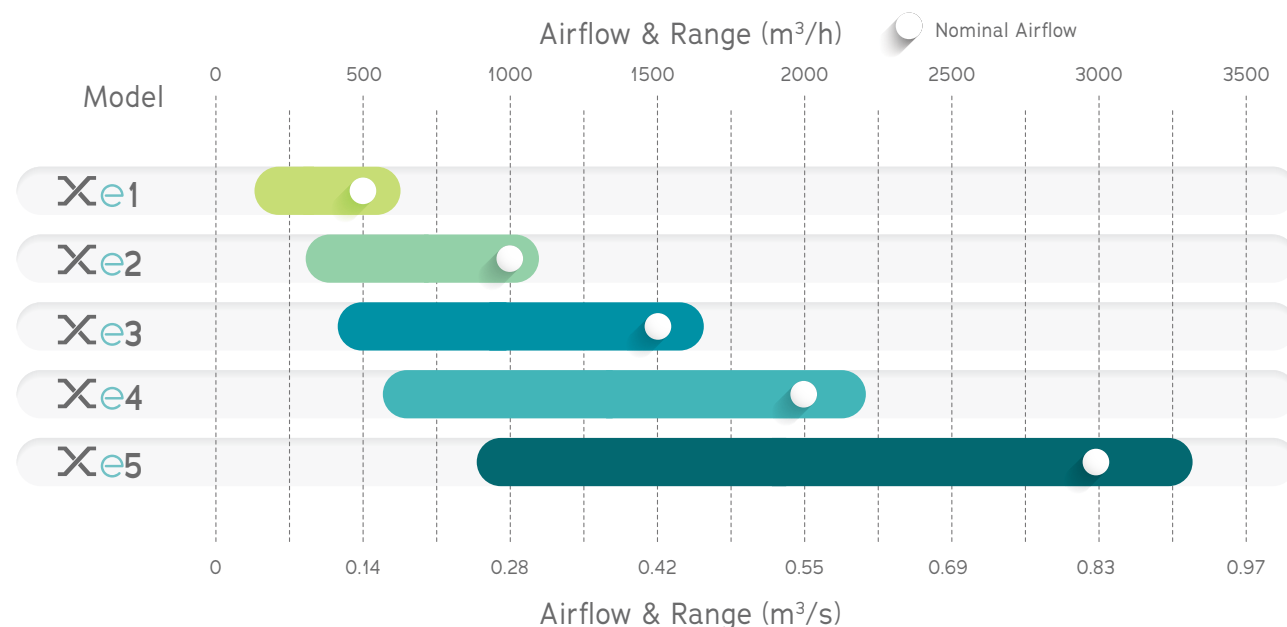
Separate extract / supply airflows & room pressure management for maximum safety.



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



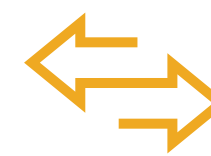
Additional matched, unit mounted attenuation to further reduce noise levels if required

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

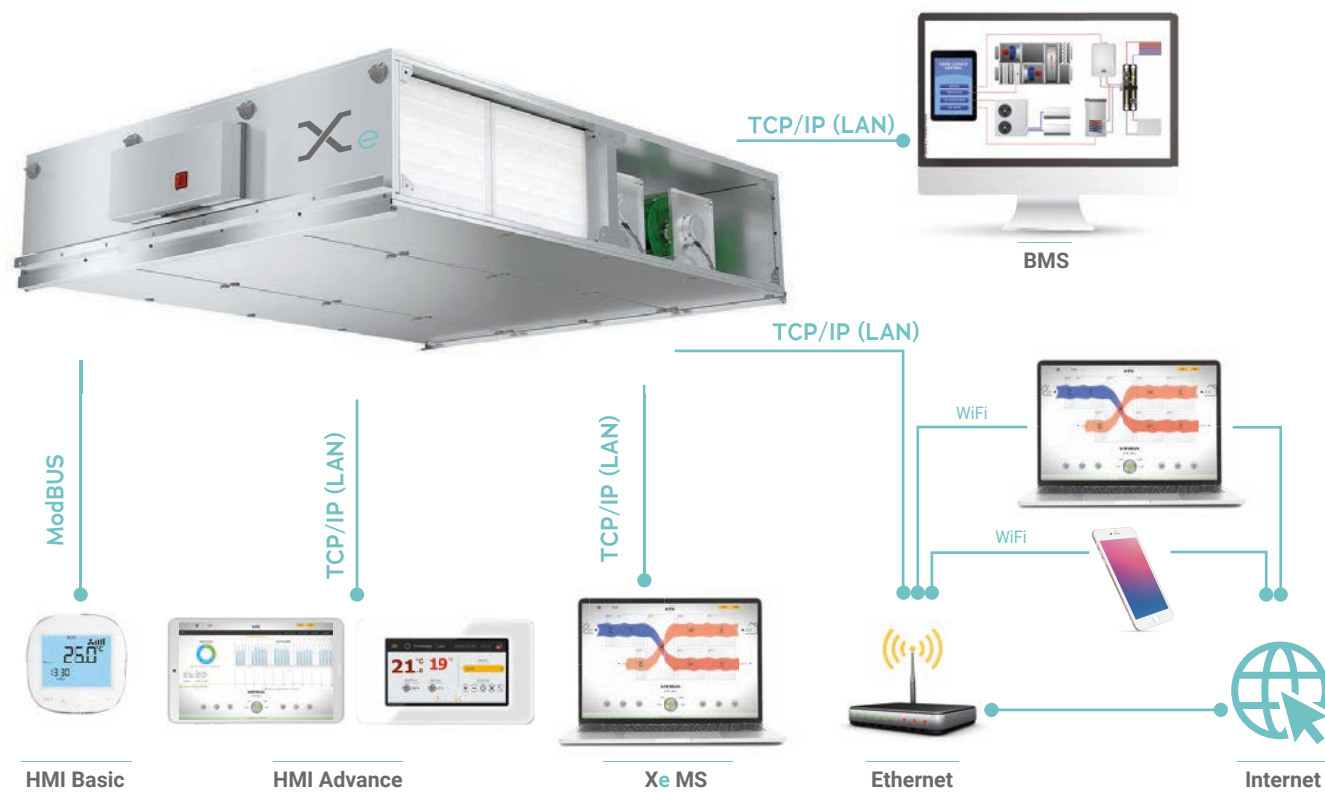
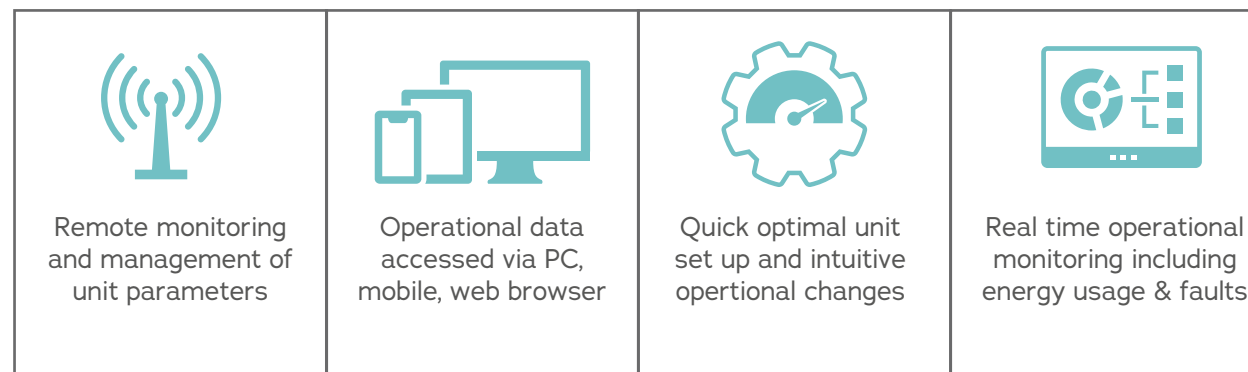


Option to increase levels of filtration efficiency with addition of a bag filter

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



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

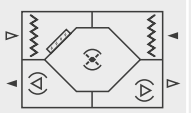
	Xe1	Xe2	Xe3	Xe4	Xe5
	mm (wxh)	mm (wxh)	mm (wxh)	mm (wxh)	mm (wxh)
Flexible Connection	305x288	485x288	685x288	730x375	1005x375
Air Damper	305x288	485x288	685x288	730x375	1005x375
Rectangle Spigot	330x310 / 300x300	510x310 / 400x350	710x310 / 400x350	740x400 / 500x400	1015x400 / 800x400
Rounded Spigot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

the Xe technical specification

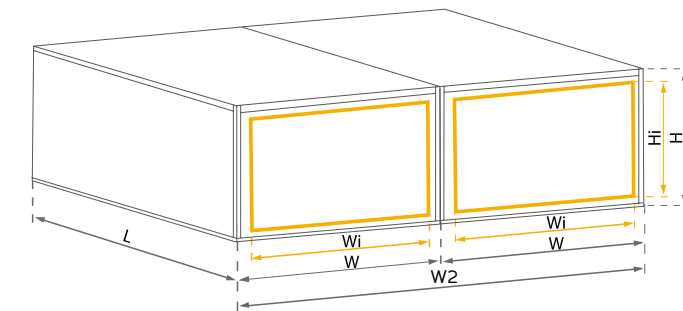
the Xe technical specification

Technical Specification and Dimensions

Nominal parameters		Recommended airflow range				
Unit size		Xe1	Xe2	Xe3	Xe4	Xe5
4 000 3 000 2 000 1 000 0	[m³/h]					
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
FPV/FPV_cd							

Selected configurations	Dimension		Function version	Length of supply and exhaust compact units				
	L		V	460	460	460	460	460
fan								
	L		FV	740	740	740	740	740
fan, filter								
	L		FH(hw)V	740	740	740	740	740
	L		FH(e)V	1030	1030	1030	1030	1030
fan, filter, heating coil								
	L		FCV	860	860	860	860	860
	L		FC(de)V	1030	1030	1030	1030	1030
fan, filter, cooling coil								
	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
fan, filter, heating & cooling coil								

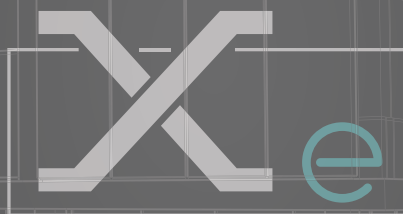


Duct Fittings

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				
			Xe1	Xe2	Xe3	Xe4	Xe5
	L	F9	180	180	180	180	180
		H(hw) (1R-2R)	180	180	180	180	180
		H(e)	370	370	370	370	370
	L	C (2R-6R)	370	370	370	370	370
	L	C(de) (2R-6R)	600	600	600	600	600
	L	H(hw)C	460	460	460	460	460
		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
		E(e1)	370	460	460	460	460
	L	E(e2)	740	740	740	740	740



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