

Compact, Modular
AIR HANDLING UNITS



MPX
modular air handling units

THE NEW MPX MODULAR AHU SERIES

IT'S NOT ONLY ABOUT COST EFFICIENCY

The modular MPX range have been specifically designed to offer a real alternative to bespoke air handling units.

Covering the most common spectrum of airflows, these modular units offer simple scalability combined with a range of customisable options to flexibly meet customers specifications.

Fully supported by our air management experts the MPX range is the perfect choice for your air handling requirements



EXPRESS DELIVERY MAXIMUM PERFORMANCE

Our modular air handling units offer **exceptionally short lead times** leading to faster completion for time-sensitive projects. With just five weeks from order to delivery, our units have industry leading turnaround.

A practical and efficient choice, the MPX range is **highly energy efficient** to minimise carbon footprints and Eurovent certification guarantees quality and performance levels.



MPX BENEFITS:

Ultra-Fast Delivery



Industry leading turnaround from order to delivery of just 5 weeks (average)

Maximum Efficiency



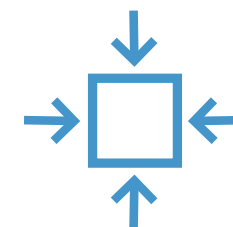
E.C. fans and high efficiency heat recovery minimises unit energy use

Cost Effective



Minimum operating costs combined with a very competitive price point

Compact Unit Footprint



Minimal unit width and height ideal for difficult to access areas & plantrooms

Scalable & Flexible



8 models covering a wide spectrum of typical airflows with choice of components

Quality Guaranteed



High performance component parts and casing to L1, T2 specification

Remote Support



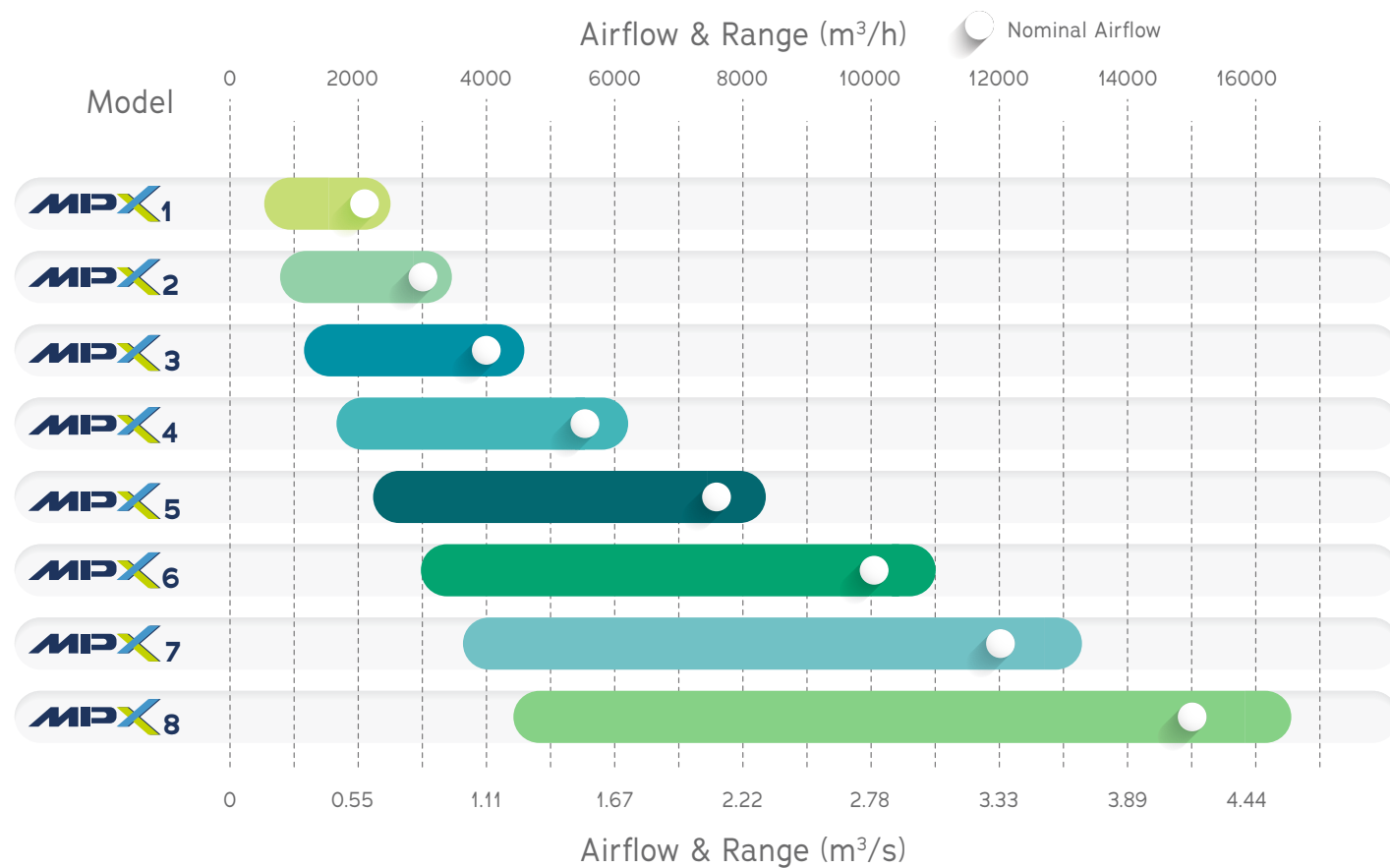
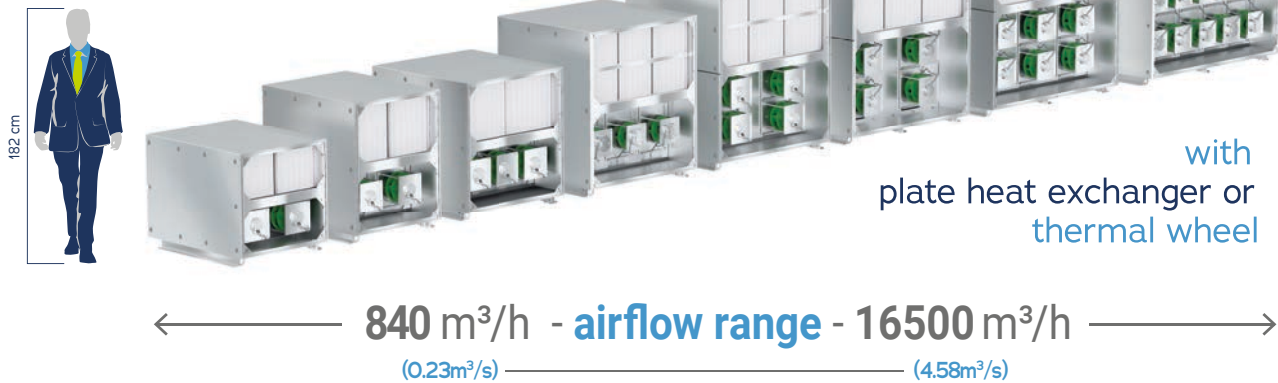
Remote monitoring and management with web based fault finding

Advanced Controls



Intuitive advanced controls system with easy to understand graphics

8 STANDARD
MODELS



MPX
with rotary
heat exchanger



up to **86%**
recovery efficiency



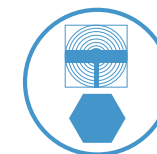
MPX
with counter-flow
heat exchanger



up to **93%**
recovery efficiency



LOW LEAKAGE WITH
MAXIMUM
INSULATION LEVELS



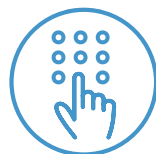
HIGH EFFICIENCY
HEAT EXCHANGER
OPTIONS



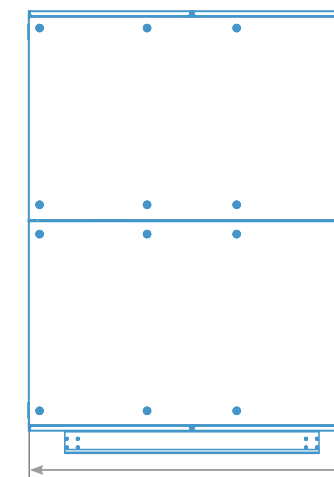
ULTRA-QUIET ENERGY
SAVING FANS WITH
EC MOTORS



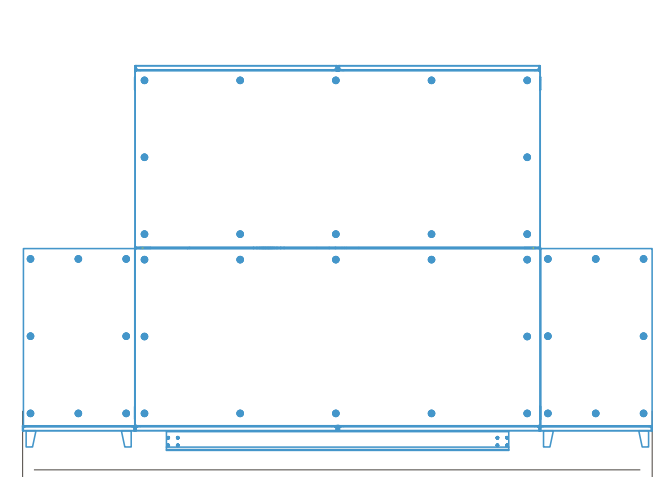
PLUG & PLAY
PRODUCT



INTEGRATED
MULTIFUNCTIONAL
CONTROLS



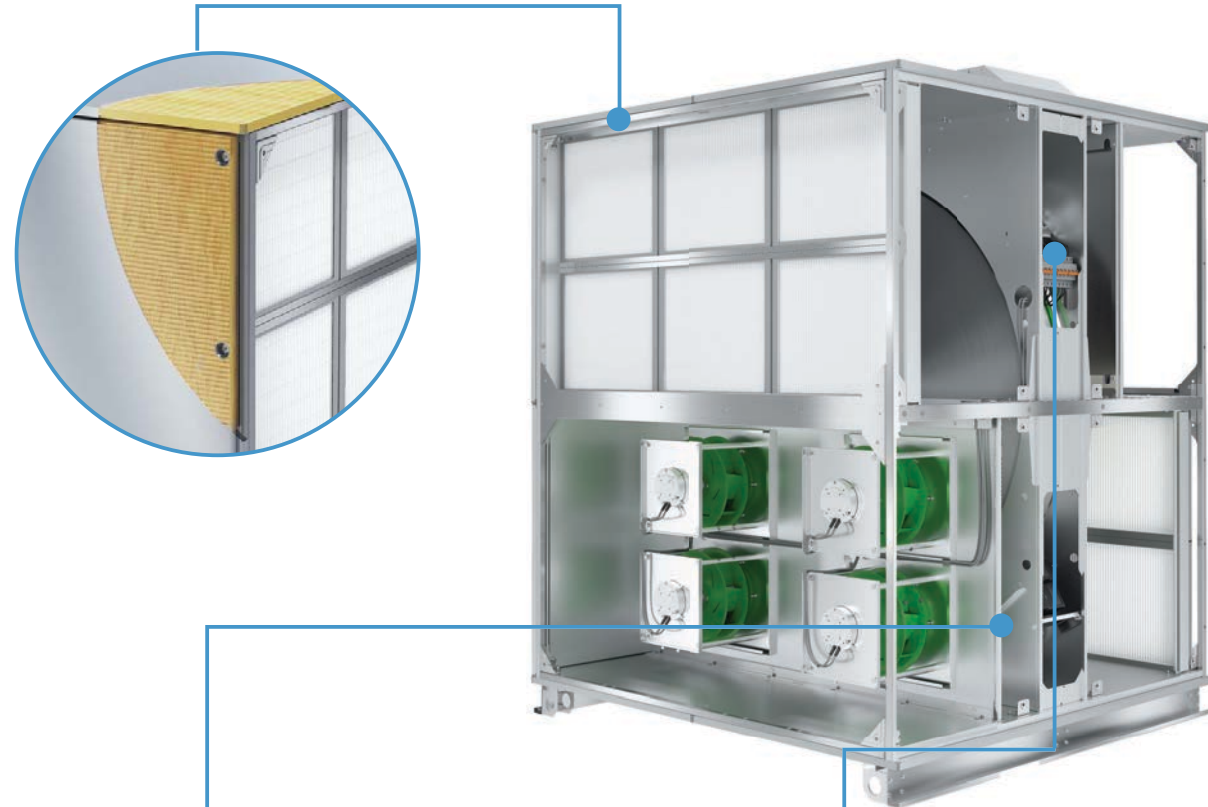
max. 1400 mm



max. 2940 mm

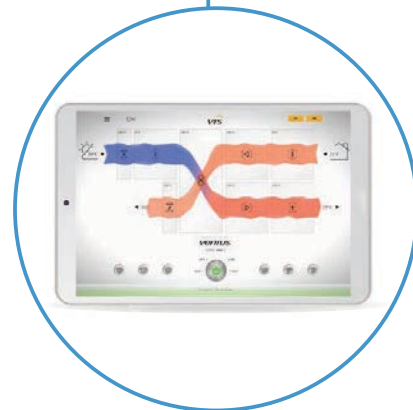
CASING

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



ENERGY RECOVERY

High efficiency heat wheel EC motor driven
Recovery efficiency reaching 86%

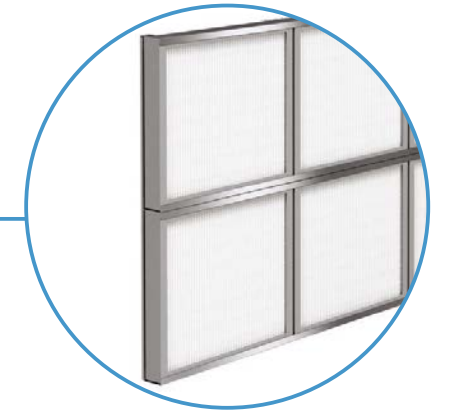


CONTROLS

Integrated, multifunctional controls
Full pre-configured & ready to run

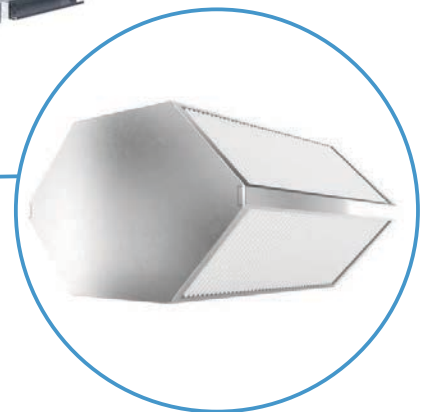
HIGH PERFORMANCE FILTERS

Supply - EU7 (ePM2,5 65%)
Exhaust - EU5 (ePM10 50%)



EC FANS

Electrically commutated IE4 motor
Efficiency silent with low vibration levels



ENERGY RECOVERY

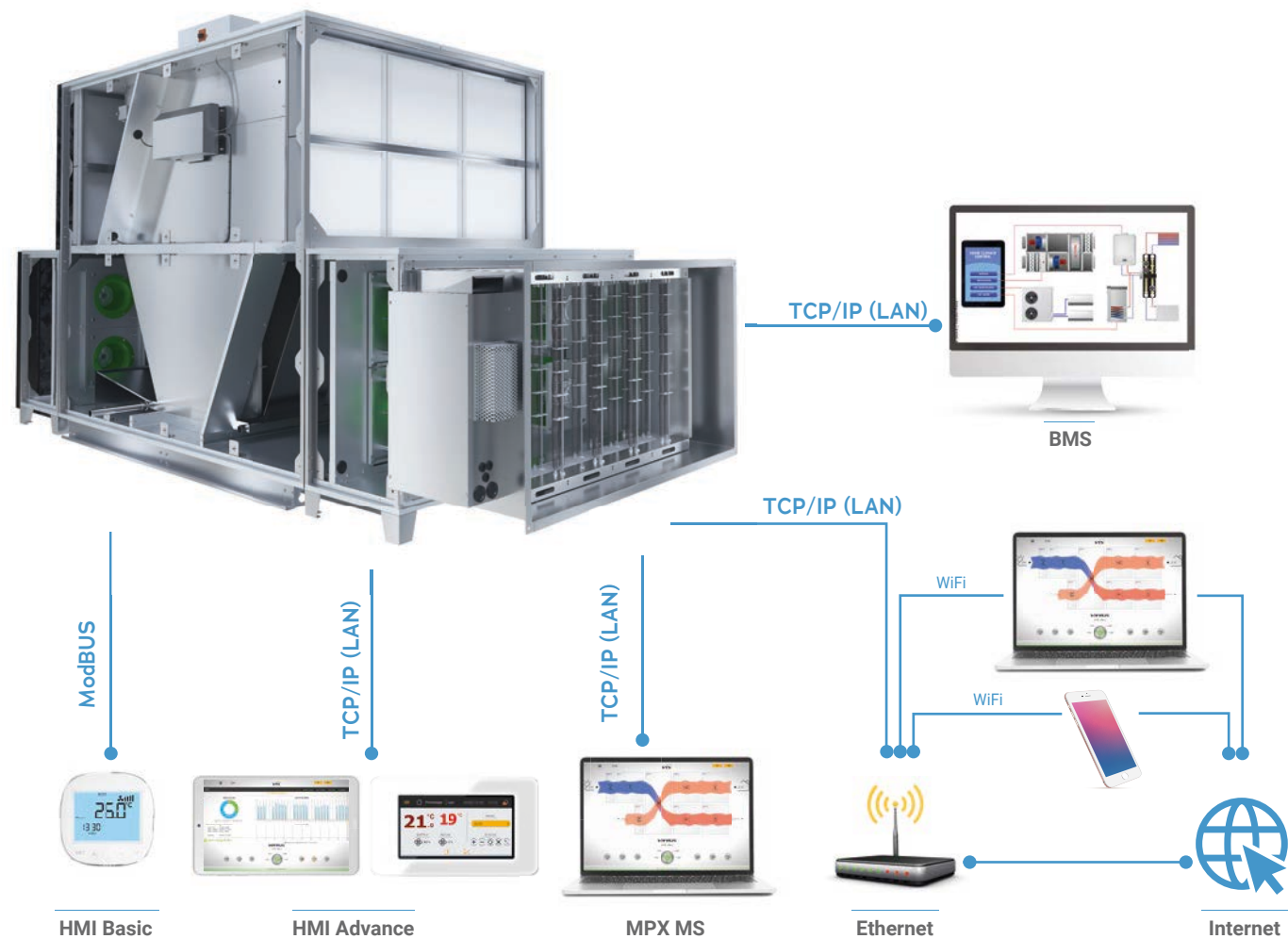
High efficiency plate heat exchanger with by-pass.
Recovery efficiency reaching 86%

up to **93%**
drive efficiency

The MPX control system is 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.

MPX MANAGEMENT SYSTEM:

- Displaying visualisations on any devices - from PC to mobile devices
- Monitoring and management of the majority of devices from the open visualisation of a single unit
- Easy and intuitive change of the operating mode of the unit using a central button
- Tools for supporting easy and quick setup of the optimal operating schedule of the unit



VISUALISATION



Advanced algorithms apply optimised conditions to suit any environment and offer three different operating modes: eco, optimum and comfort. Simple visuals provide the capability to control variables including temperature, fan efficiency, air quality, humidity and CO₂ to minimise costs and maximise efficiency whilst maintaining the perfect indoor environment



Operational Calendar



Parameter Monitoring



Energy Use & Savings

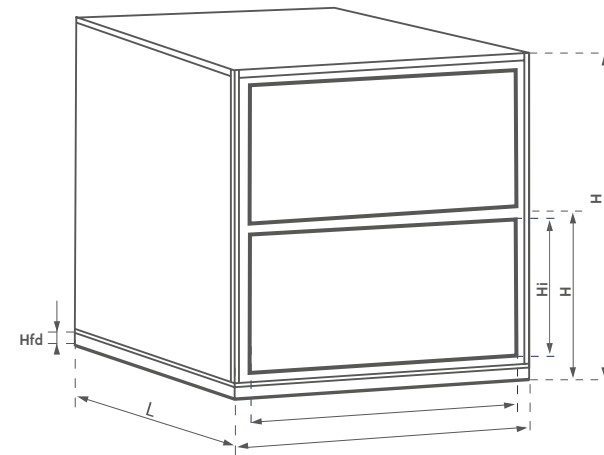
DIAGNOSTICS	CONVENIENCE	OPTIMISATION	ECONOMIC	RECORDING
Remote diagnostics and support by service personnel	Remote access and parameter change via LAN or web	Quick set up to optimise each operating parameter	Real time monitoring of energy usage & operating costs	Recording of operating parameters and alarms/warnings

Technical Specification and Dimensions

Nominal parameters		Recommended Airflow Range							
Unit size		MPX ₁	MPX ₂	MPX ₃	MPX ₄	MPX ₅	MPX ₆	MPX ₇	MPX ₈
16000	[m³/h]								
12000									
8000									
4000									
0									
Min airflow		806	1 167	1 958	2 878	3 805	4 863	5 815	5 815
Max airflow		2 310	3 300	4 400	6 050	8 250	11 000	13 200	16 500
H _{fd}	[mm]	90	90	90	90	90	90	90	90
H		538	670	670	805	925	1025	1062	1163
W		967	967	1174	1345	1486	1666	1897	2091
H _i		368	500	500	635	755	855	892	993
W _i		887	887	1094	1265	1406	1586	1817	2011
H ₂		986	1250	1250	1520	1760	1960	2034	2236
I		40	40	40	40	40	40	40	40

Selected configurations		Dimension of Base Configuration								
	Lt	[mm]	1240	1240	1240	1240	1240	1300	1300	1300
	Lt		1080	1080	1080	1080	1080	1300	1300	1300
	Lt		1080	1080	1080	1080	1080	1080	1080	1080
	L2		2230	2230	2230	2290	2530	2570	2670	2730
	L1		2050	2050	2050	2110	2350	2350	2450	2490
	K		180	180	180	180	180	220	220	240
	Lt		2230	2230	2230	2290	2530	2570	2670	2730
	L2		2230	2230	2230	2290	2530	2570	2670	2730
	L1		2050	2050	2050	2110	2350	2350	2450	2490
	K		180	180	180	180	180	220	220	240
	Lt		2230	2230	2230	2290	2530	2570	2670	2730
	L2		1600	1600	1600	1660	1900	1900	2000	2040
	L1		2500	2500	2500	2560	2800	2800	2900	2940
	K									
	Lt		2500	2500	2500	2560	2800	2800	2 900	2 940

Technical Specification and Dimensions



Full face horizontal air inlet / outlet END Full Front (FF) Full face air inlet / outlet				
Size	WA	HA	WA1	HA1
MPX1	821	313	70	67,5
MPX2	821	440	70	70
MPX3	1028	440	70	70
MPX4	1199	575	70	70
MPX5	1340	695	70	70
MPX6	1520	795	70	70
MPX7	1751	832	70	70
MPX8	1945	933	70	70

Lengths of additional air treatment functions

Other Configuration functions - typical lengths.										
Selected Configurations	Function version	MPX1	MPX2	MPX3	MPX4	MPX5	MPX6	MPX7	MPX8	
Filter	F9	240	240	240	240	240	240	240	240	
Heating Coil	H(hw) (1R-2R)	370 - 710	370 - 710	370 - 710	310 - 630	310 - 630	310 - 630	310 - 630	310 - 630	
	H(el)	370 - 710	370 - 710	370 - 710	310 - 630	310 - 630	310 - 630	310 - 630	310 - 630	
	C (2R-4R)	370 - 710	370 - 710	370 - 710	450 - 790	450 - 790	890	890	920	
Cooling Coil	C (6R)	370 - 710	370 - 710	370 - 710	450 - 790	450 - 790	890	890	920	
	H(hw) + C	710	710	710	790	790	890	890	920	
Heating & Cooling	H(el) + C	710	710	710	790	790	890	890	920	
	S(s3)	1080	1080	1080	1080	1080	1080	1080	1080	
Sound Attenuator										
Access Section	E	550	550	550	630	630	650	650	670	



MANSFIELD POLLARD
AIR MANAGEMENT EXPERTS

salesteam@mansfieldpollard.co.uk
www.mansfieldpollard.co.uk