



MANSFIELD POLLARD
AIR MANAGEMENT EXPERTS

High Performance, Compact
AIR HANDLING UNITS



MPX **ULTRA**
modular air handling units

THE MPX ULTRA

HIGH PERFORMANCE AHU

The MPX Ultra is the latest innovation in modular air handling solutions, offering a step-change in performance, flexibility, and design. Built on the proven foundation of the MPX range, the MPX Ultra incorporates cutting-edge technology to meet the challenges of modern air management.



With its **ultra-compact** design, exceptional **energy efficiency**, and **advanced construction** providing unrivalled levels of durability, the MPX Ultra is engineered to deliver optimal performance for any application. Whether you need an air handling solution for a healthcare facility, commercial building or industrial site, the MPX Ultra offers the ultimate in modular air handling solutions.

CASING PARAMETERS (BS-EN 1886:2007 standard)

TB2

Thermal Bridging

L1

Leakage Class

D1

Casing Strength

T2

Thermal Transmittance

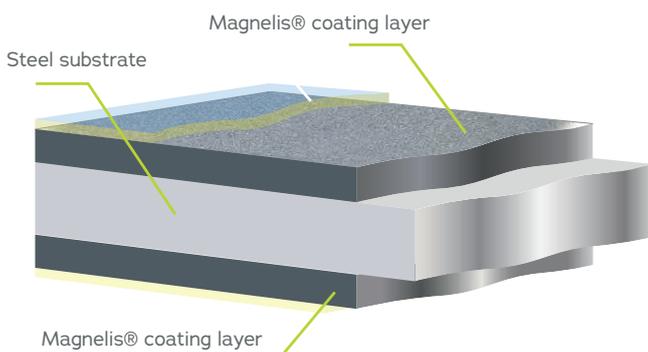
Built with Magnelis®

REDEFINING PERFORMANCE

At the heart of the MPX Ultra's performance and design is its use of Magnelis® for its construction.



This **advanced metallic coating** not only gives the unit its striking dark grey appearance but also delivers unparalleled benefits that set it apart in air handling innovation: **unrivalled corrosion resistance**, **self healing** properties for long term durability and **environmentally friendly** construction



ADVANTAGES OF THE MPX ULTRA



it's not only about **COST EFFICIENCY....**

Compact Unit Footprint



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

Easy Access & Maintenance



Dual side access for all components for easy servicing, maintenance and cleaning

Advanced Durability



Built with Magnelis® panels to provide ultimate durability in the harshest of environments

Maximum Efficiency



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

Scalable & Flexible



5 / 6 models covering a wide spectrum of typical airflows with choice of components

Ultra-Fast Delivery



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

Quiet Operation



Low-noise EC fans, 50mm insulated panels, and optional duct silencers

Superior Performance



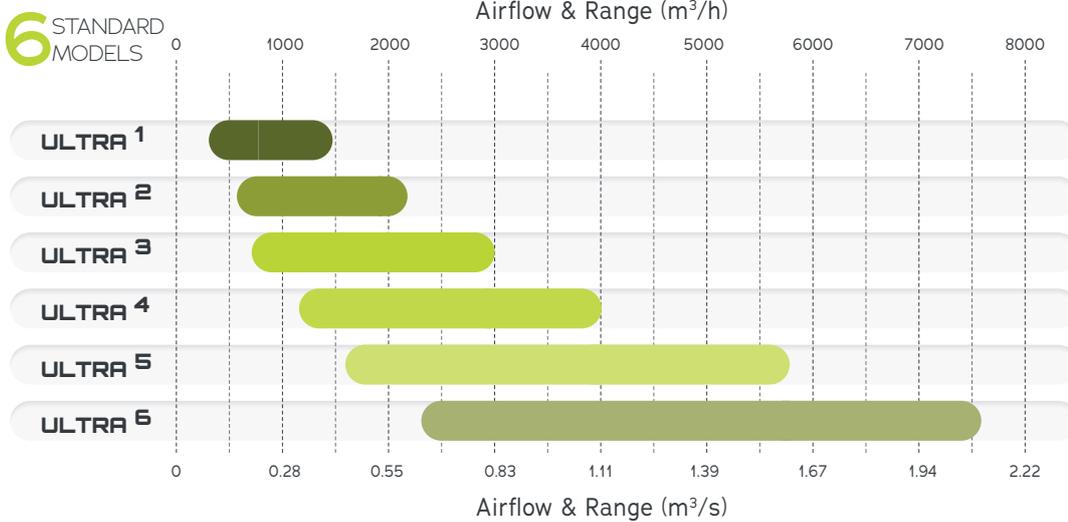
Pre-formed gaskets and exceptional build quality to T2, TB2, L1 and D1 rating

Advanced Controls

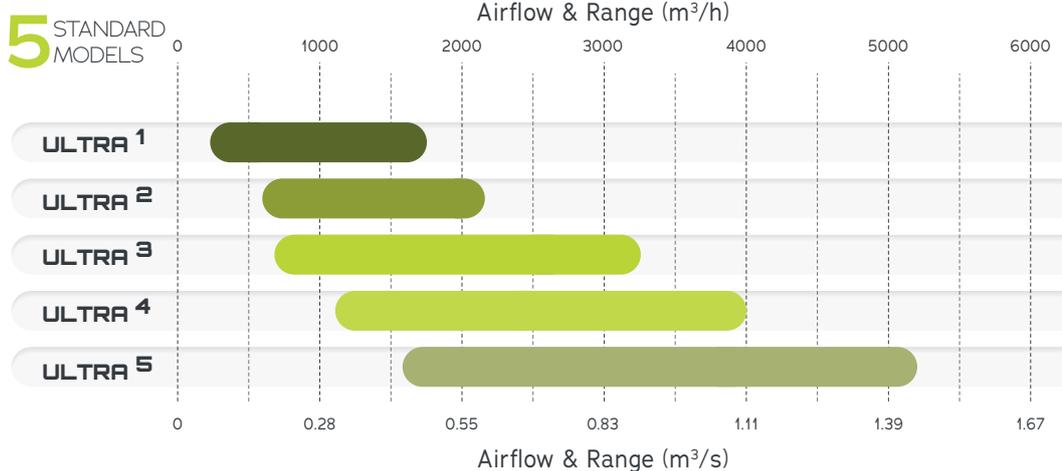


Cloud based, intuitive advanced controls system with easy to understand graphics

WITH ROTARY HEAT EXCHANGER



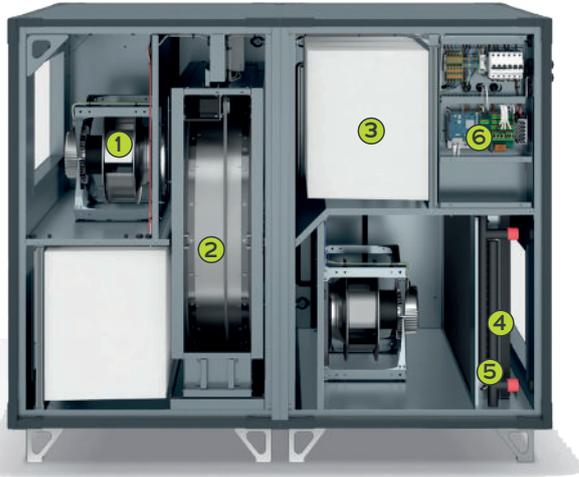
WITH PLATE / COUNTERFLOW HEAT EXCHANGER



THE MPX ULTRA



WITH ROTARY HEAT EXCHANGER



1 FAN SET



- Ultra energy efficient, (EC) fan with Class IE4 motor

2 ENERGY RECOVERY



- condensation or sorption
- up to 90% recovery efficiency
- adjustable cleaning sector angle

3 FILTERS



- pre-moulded gasket provides maximum air tightness
- bag filters class: ePM10 50% - ePM1 80%

4 LPHW COIL



- single or double row
- easy maintenance

5 ELECTRIC HEATER



- dual protection
- heater power range from 3 to 21 kW

6 CONTROLS



- fully integrated plug & play
- remote access via Ethernet, Wi-Fi, Bluetooth, GSM

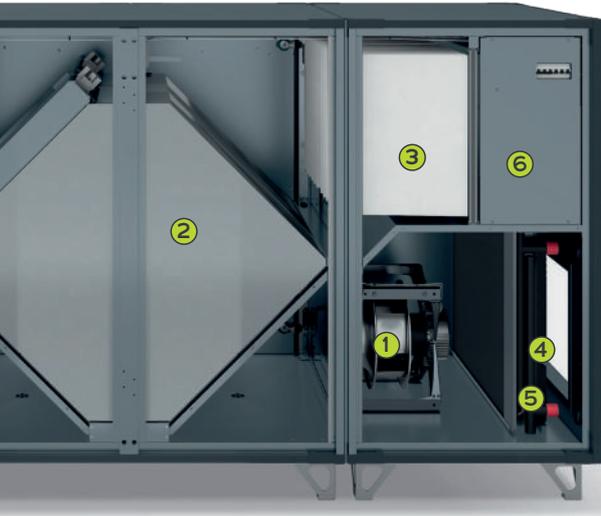
UNIT SIZES:

Size	Min. air flow	Max. air flow	Height *	Width	Length	Connection diameter	Connection height	Connection width	Frame height
	m ³ /h	m ³ /h	mm	mm	mm	mm	mm	mm	mm
ULTRA 1	390	1461	962	750	1385	315	-	-	120
ULTRA 2	590	2184	1062	865	1490	400	-	-	120
ULTRA 3	740	2972	1175	947	1605	-	400	500	120
ULTRA 4	1150	3990	1330	1124	1752	-	400	700	120
ULTRA 5	1590	5764	1478	1284	1752	-	400	800	120
ULTRA 6	2350	7538	1718	1514	1752	-	500	1000	120



* The height of the unit does not include the height of the frame

WITH COUNTERFLOW HEAT EXCHANGER



1 FAN SET



- Ultra energy efficient, (EC) fan with Class IE4 motor

2 ENERGY RECOVERY



- high efficiency counterflow heat exchanger with bypass
- up to 90% recovery efficiency
- temp. range -40°C to +90°C

3 FILTERS



- pre-moulded gasket provides maximum air tightness
- bag filters class: ePM10 50% - ePM1 80%

4 LPHW COIL



- single or double row
- easy maintenance

5 ELECTRIC HEATER



- dual protection
- heater power range from 3 to 21 kW

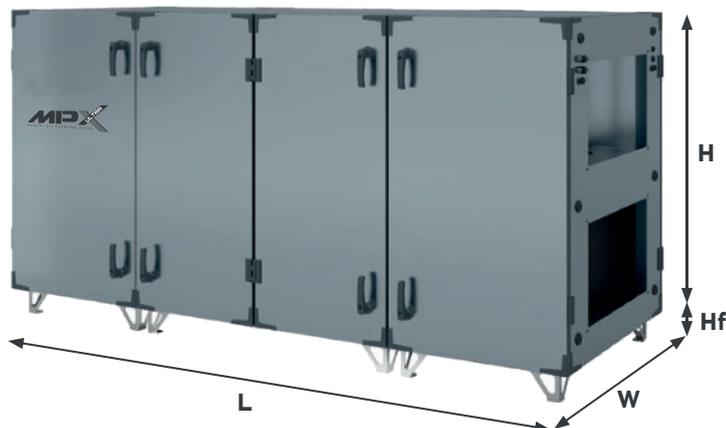
6 CONTROLS



- fully integrated plug & play
- remote access via Ethernet, Wi-Fi, Bluetooth, GSM

UNIT SIZES:

Size	Min. air flow	Max. air flow	Height *	Width	Length	Connection diameter	Connection height	Connection width	Frame height
	m ³ /h	m ³ /h	mm	mm	mm	mm	mm	mm	mm
ULTRA 1	390	1737	962	750	1385	315	-	-	120
ULTRA 2	590	2113	1062	865	1490	400	-	-	120
ULTRA 3	740	3269	1175	947	1605	-	400	500	120
ULTRA 4	1150	3938	1330	1124	1752	-	400	700	120
ULTRA 5	1590	5178	1478	1284	1752	-	400	800	120



* The height of the unit does not include the height of the frame

THE MPX ULTRA ADDITIONAL FUNCTIONS



WEATHER PROTECTION:

SIMPLE MAINTENANCE:



Additional protection from external conditions:

- roof over base unit and extensions
- cover on air dampers actuator



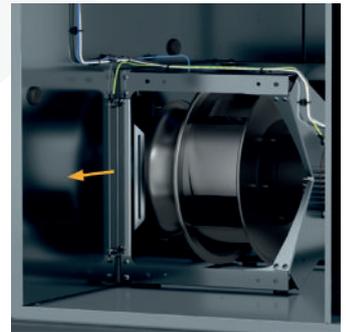
Access door available on both sides of unit

- simplifies servicing, maintenance and cleaning
- applies to multi-component sections including heat recovery
- quick release fan mechanism for easy maintenance

EXTERNAL COMMS. PORTS:

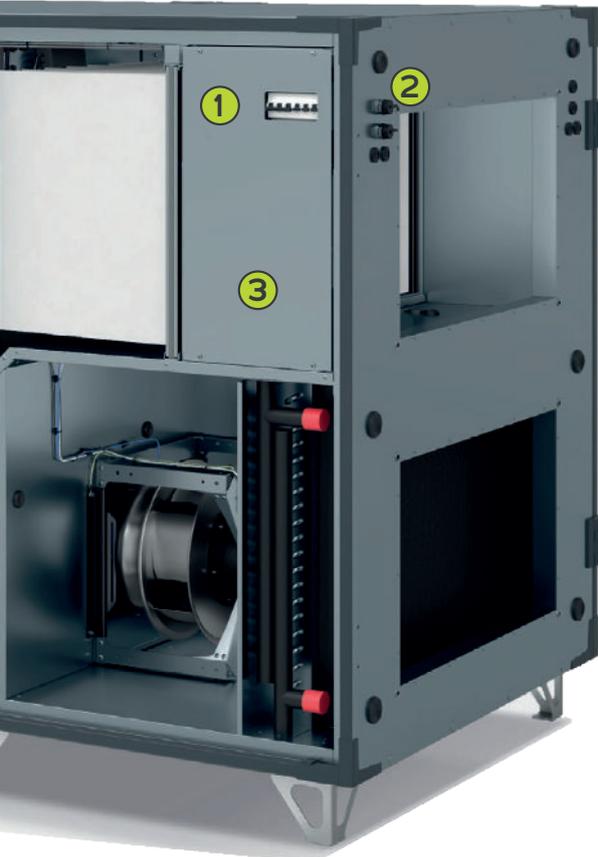


- comms ports mounted on external panels to connect to the controller directly
- removes requirement to open unit



			ULTRA 1	ULTRA 2	ULTRA 3	ULTRA 4	ULTRA 5	ULTRA 6
Silencer	Length	mm	300/1000	300/1000	1065	1065	1065	1065
	External width	mm	630	750	794	910	1070	1300
DX Coil	External height	mm	410	460	584	662	736	856
	Length	mm	540	540	771	771	771	771
Water Coil	External width	mm	630	750	794	910	1070	1300
	Outside height	mm	410	460	584	662	736	856
	Length	mm	540	540	718	718	718	718

INTUITIVE CONTROLS:



1 MULTI-FUNCTIONAL CONTROLS

- Positioned in the exhaust air path, which prevents condensation on controls components
- Multifunctional controls integrated with the unit - configured and ready to operate (Plug&Play)
- Ability to connect service devices without opening the unit
- Remote servicing capability via Ethernet, Wi-Fi, Bluetooth, GSM



2 EXTERNAL COMMS. PORTS

- comms ports mounted on external panels to connect to the controller directly
- removes requirement to open the unit



3 DEDICATED AIR-HANDLING CONTROLS

- Optimised connections inside the air handling unit
- Active filter contamination measurement
- Continuous air volume (CAV) control
- Exhaust air temperature and humidity control



FILTRATION
MONITORING



AIR VOLUME
CONTROL



TEMPERATURE &
HUMIDITY CONTROL

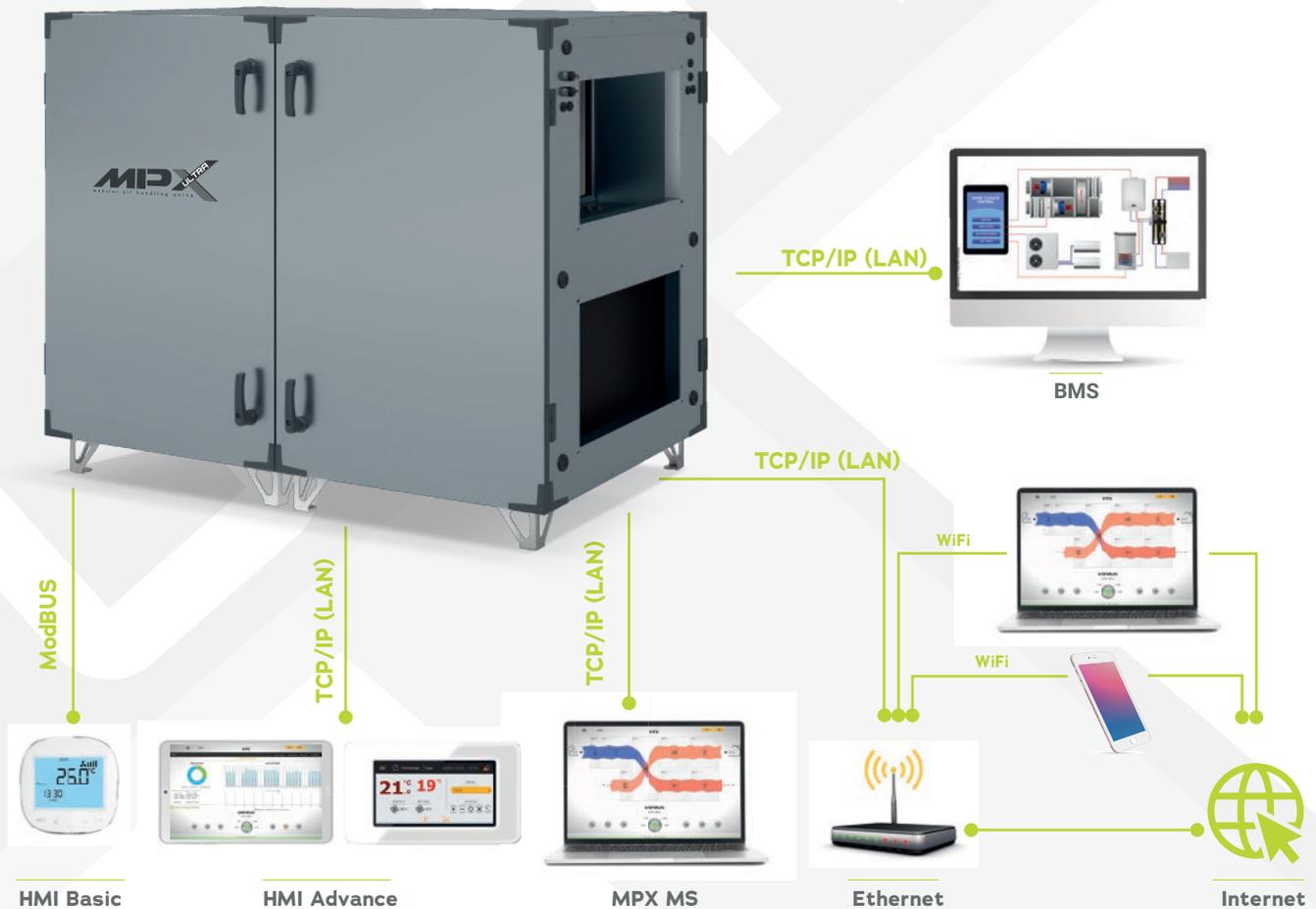
THE MPX ULTRA MANAGEMENT SYSTEM



The MPX Ultra 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.

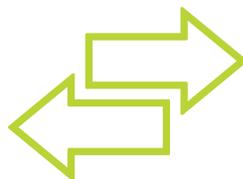
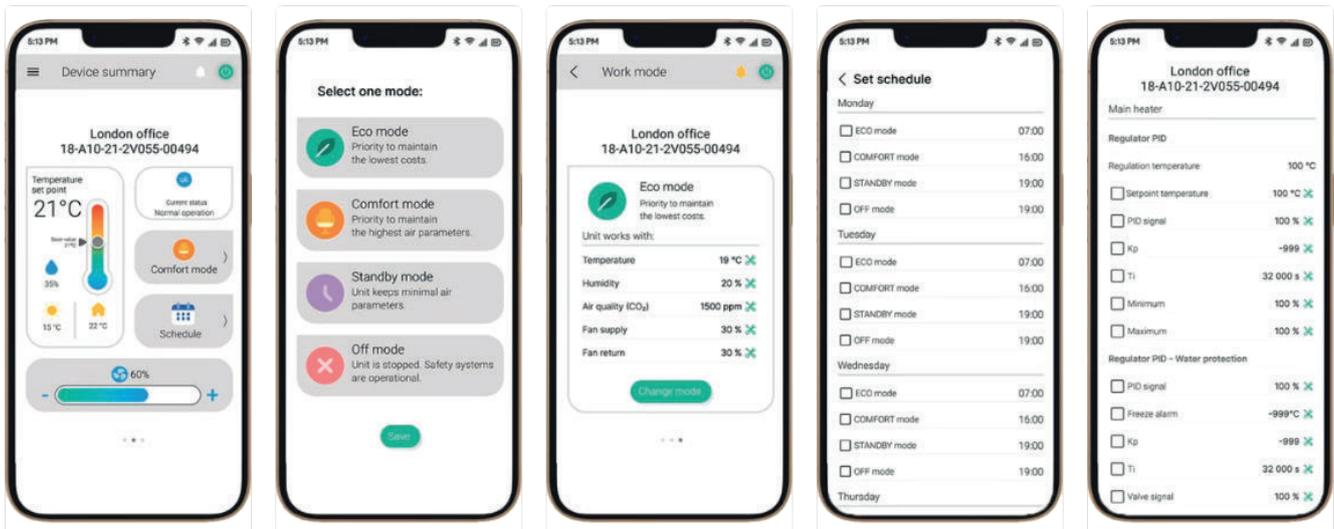
MPX ULTRA MANAGEMENT SYSTEM:

- 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



mHMI APPLICATION

A dedicated mobile app is available which enables commissioning, monitoring and operation & management of the majority of parameters of the MPX ultra - The app connects to the air handling unit using GSM technology (Cloud) or Bluetooth,



THE MPX ULTRA CLOUD BASED CONTROL



Streamline operations, maximise energy savings, and stay in control with a comprehensive cloud-based system that takes air handling to the next level. Built to meet the demands of modern facilities, this solution ensures your equipment works smarter, not harder.

Energy Monitoring & Optimisation



Detailed insights into energy usage to identify trends and unlock potential cost savings

Smarter, Adaptive Control



Optimizes performance by adjusting automatically to changing operational conditions.

Diagnostics & Maintenance

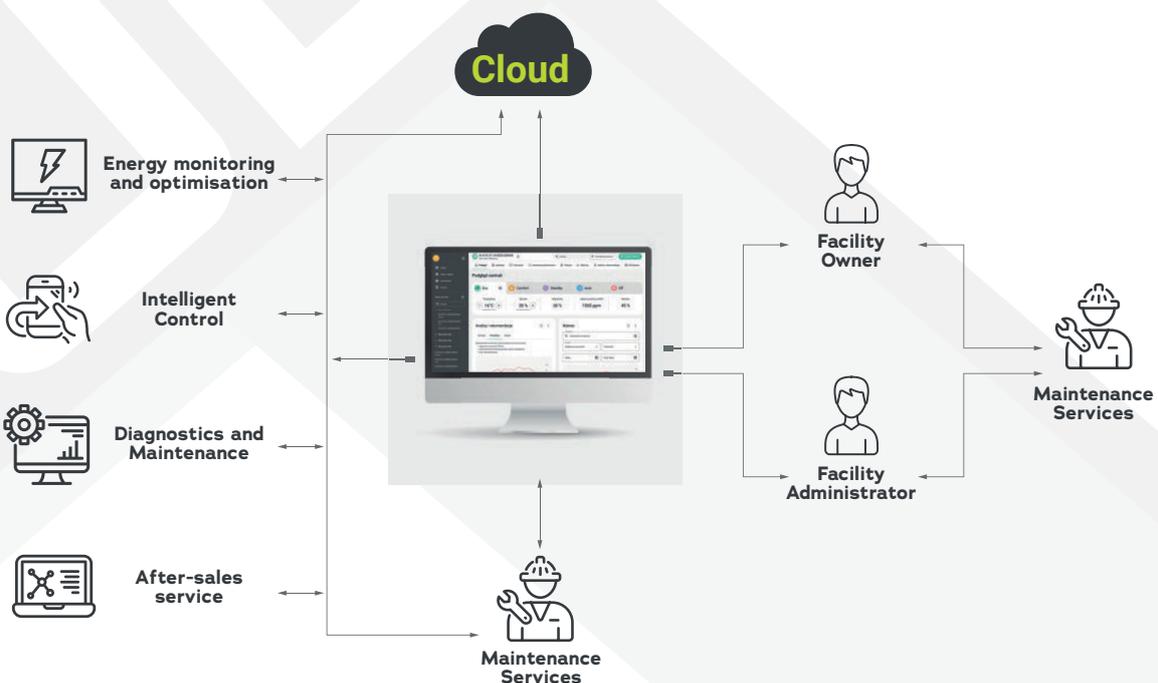


Supports remote monitoring with alerts for faults and timely part replacements.

BMS Integration



Ensures smooth connectivity with existing systems for both local and remote access.





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modular air handling units

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