

Greenfieldxp[®]
Innovating today for a greener tomorrow



AIR HANDLING UNITS

Pure innovation

 www.greenfieldxp.com



PREMIUM AIR SOLUTIONS *Engineered for Excellence...*



Environment

Energy recovery from extracted air by refrigerant circuit, rotary heat exchanger and crossflow plate heat exchanger.



Indoor Air Quality

High-efficiency filtration meeting top standards, with optional active polarization filters for hospitals, labs, and cleanrooms.



Flexible Design

Modular construction allows for flexible configurations to suit specific project requirements, including size, components, and installation layout.



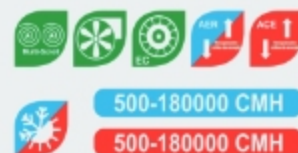
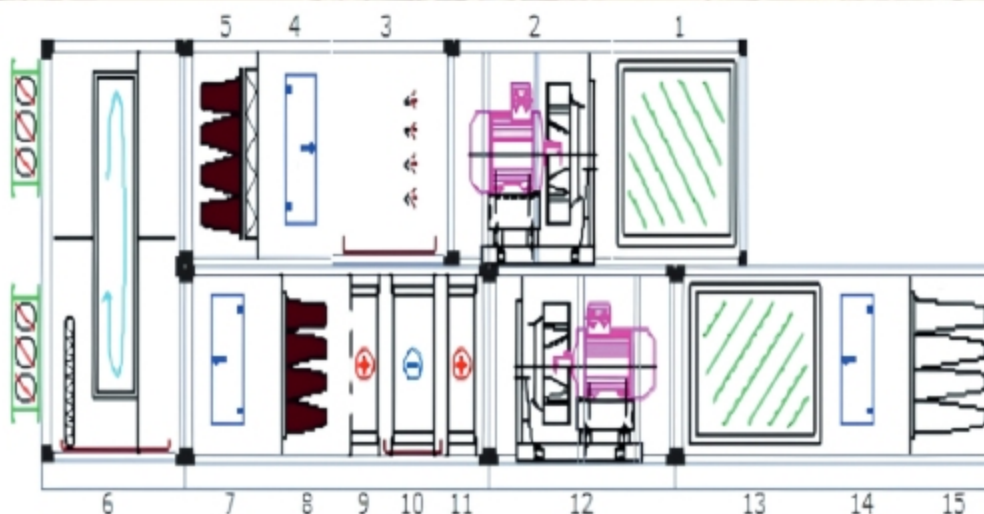
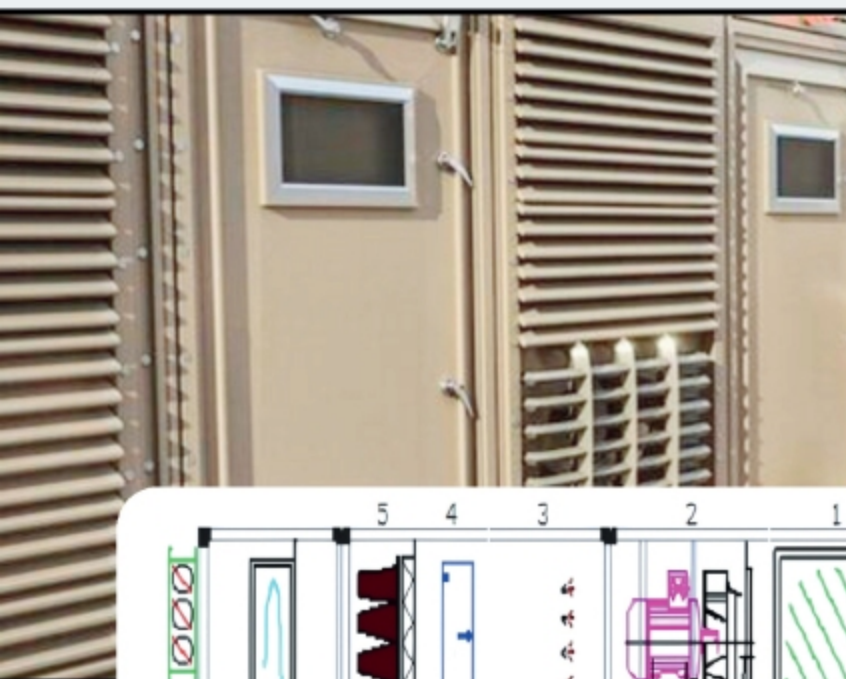
Energy Saving

High efficiency ventilation section with electronic plug fans, with high available pressure and low energy consumption.



Structure

Rigid chassis with 50 mm sandwich panels for indoor/outdoor use. Easy access and maintenance via removable hinged panels.



VARIOUS MODULES & ACCESSORIES *Limitless...*

Recognising Features:

- Robust
- Simplified design
- Easy in operation
- Long lasting components

Constructional Features EN1886:

Chassis resistance	D1
Air leaks	L1
Therman transmittance	T2
Thermal bridge factor	TB3
By pass filters factor	F8



Attenuators

Reduce noise from airflow and equipment, ensuring quieter AHU operation.



Record Actuator

Controls the opening and closing of dampers or valves in AHUs for precise airflow and temperature regulation.



Water Coil | Dx

Cools or heats air using chilled or hot water from a central system. Directly cools air using refrigerant in a closed-loop system.



Electric Coil

Heats air using electric resistance elements for precise temperature control in the AHU.



Filters

Remove dust and particles from air to improve indoor air quality.



Differential Pressure Control

Monitors and maintains optimal pressure difference across filters or components to ensure efficient AHU operation and timely maintenance.



Plug fan | Centrifugal

Efficient, compact fan providing uniform airflow with low noise. Uses rotating impellers to move air at high pressure for effective ventilation.



Crossflow Plate Heat Exchanger

Transfers heat between two air streams crossing at right angles, improving energy efficiency without mixing the airstreams.



Mixing Section

Blends fresh outdoor air with return air for balanced ventilation and energy efficiency.



Rotary Heat Exchanger

Recovers heat and moisture from exhaust air to improve energy efficiency and indoor comfort.



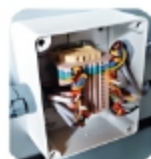
Temperature, Humidity, CO₂, Differential Pressure Sensors

Track temperature, humidity, CO₂, and pressure for optimal AHU performance and air quality.



Dual Hinges - Removal

Allows panels to open wide or be removed easily, providing quick access for maintenance and cleaning.



Junction Boxes

Provide safe, organized connections for wiring and allow simple assembly and integration of AHU modules.



Parallel Flow Heat Exchanger

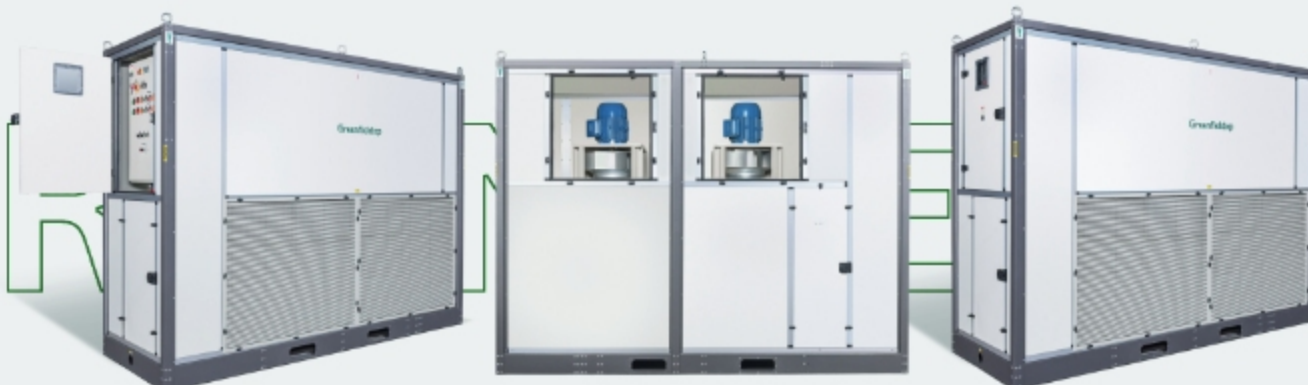
Transfers heat between air streams flowing in the same direction to enhance energy recovery.



3 Ways Valve + Actuator

Regulates water flow and temperature by automatically adjusting between heating, cooling, or bypass in AHU systems.

Years of *devotion* and *care* has been put in



An Air Handling Unit (AHU) is the core of HVAC systems, providing clean, conditioned air by regulating temperature, humidity, and quality. Suitable for all building types, AHUs ensure comfort, efficiency, and energy savings.

OUR INNOVATIVE SOLUTIONS *The best you can get...*



Amazingly **Reliable**

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