



ONE POINT ENERGY SOLUTIONS

RETROFIT WITH EC TECHNOLOGY

**PRODUCTS
CATALOGUE**



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OUR RANGE OF SOLUTIONS

RESIDENTIAL APARTMENT



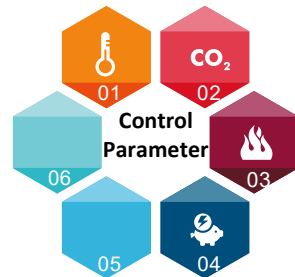
PRODUCTS

- Fresh Air & Exhaust Fan Unit
- Pre-Filter
- Electrostatic Precipitator
- Ventilation Fan
- Fine Filter

PRODUCTS

- Fresh Air & Exhaust Fan Unit
- Duct Heater & Strip Heater
- AHU, TFA & VAV
- Pre-Filter
- Fire/Smoke Damper
- Volume Control Damper
- Energy Recovery Ventilator

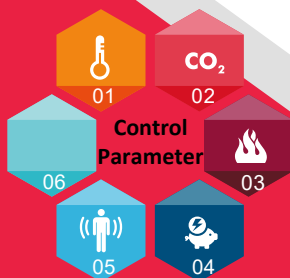
COMMERCIAL & IT



PRODUCTS

- Fresh Air & Exhaust Fan Unit
- Duct Heater & Strip Heater
- AHU, TFA & VAV
- Pre-Filter
- Fire/Smoke Damper
- Volume Control Damper
- Fine-Filter
- Constant Volume Regulator
- Dedicated Outdoor Air System
- Zone Regulation Device
- Zone Regulation Exhaust Valve
- Diffuser
- Architectural Louver
- Grille

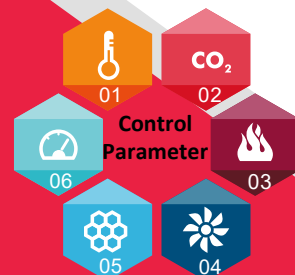
HOTEL ROOM



PRODUCTS

- Exhaust Fan Unit
- TFA
- Pre-Filter
- Fire/Smoke Damper
- Volume Control Damper
- Jet Nozzle
- Grille
- Ventilation Fan & Air Scrubber
- Diffuser

COMMERCIAL KITCHEN



OUR RANGE OF SOLUTIONS

DATA CENTER



PRODUCTS

- Fresh Air & Exhaust Fan Unit
- Pre-Filter
- Fire/Smoke Damper
- Volume Control Damper
- Hepa-Filter

PRODUCTS

- Fresh Air & Exhaust Fan Unit
- Duct Heater & Strip Heater
- AHU, TFA & VAV
- Pre-Filter
- Fire/Smoke Damper
- Volume Control Damper
- Hepa-Filter
- Constant Volume Regulator
- OT Plenum
- Energy Recovery Ventilator
- Dust Collector
- Diffuser
- Architectural Louver
- Low Leak Pressure Relief Damper
- Return Air Riser
- Zone Regulation Device
- Laminar Flow Diffuser

CLEAN ROOM & PHARMACEUTICAL



PRODUCTS

- Fresh Air & Exhaust Fan Unit
- Pre-Filter
- Fire/Smoke Damper
- Volume Control Damper
- Dust Collector
- Fine-Filter
- Duct Heater & Strip Heater
- AHU, TFA & VAV
- Jet Nozzle Grille
- Ventilation Fan
- Diffuser
- Low Leak Pressure Relief Damper

INDUSTRIAL



- Indoor Air Quality
- Fire/Smoke Control
- Temperature Control
- Ventilation Control
- Air Filtration
- Room Pressurisation
- Noxious Gas Control
- Occupancy Sensors
- Energy Saving

OUR RANGE OF PRODUCTS

RETROFIT WITH EC TECHNOLOGY



Outdated fans are one of the main causes of excessive energy consumption in existing air conditioning systems. Modern, energy-efficient fans, on the other hand, easily achieve system efficiencies of 70%. The more efficient components enable electricity savings of up to 50%.

The energy saving EC-motors are developed and manufactured in **Germany**. Through the combination of know-how and innovative manufacturing technology we attain a quality that meets the **highest standards**.

AIR HANDLING UNIT



The requirements on a ventilation system are not always the same. In many applications, all that is required is a straightforward exchange of air, whereas in other applications the requirements can be very exacting with regard to temperature, humidity and purity of the air. Our air handling units have a modular design and can be individually configured. Both, in the high-tech area and for classic building technology, our air handling units deliver clean air at the right tempered room climate. Weather-proof and explosion-proof designs are possible, as well as TÜV certified hygiene variants.

AIR CURTAINS



An air curtain is a fan-powered device that creates an invisible air barrier over the doorway to separate efficiently two different environments, without limiting the access of the people or vehicles.

The energy saving air screen reduces heating and cooling costs by up to 80% while protecting the internal climate and increasing people comfort.

It keeps the atmosphere clean from pest and insects, dust, airborne, pollution, smells, odour's and stops draughts and cold or hot air entrance.

KITCHEN EXHAUST UNITS



Ventilation is very important in large and commercial kitchens. With our fans, we replace the dirty and greasy exhaust air with fresh air. The kitchen exhaust units are integrated into pipe systems and are adapted to requirements in kitchens. For a central extraction system on the roof, roof fans with IEC standard motors are ideally suited.

In addition to the hygienic and maintenance-friendly casing and the motor outside of the air flow, very hot media can also be exhausted using these fans.

OUR RANGE OF PRODUCTS

VIBRATION ISOLATORS



Mechanical vibration and vibration-induced noise are common sources of occupant complaints in modern buildings. Vibration is caused by reciprocating motion from rotating components within mechanical equipment. All reciprocating, or rotating equipment should be isolated to reduce transmission of vibration into the structure. We provide technical assistance in the selection and specification of tailor-made isolation systems and vibration isolation products that enable building owners to install diverse types of HVAC equipment without worry of vibration problems.

Ventilation systems require continuous and constant airflow. Under-performing fans are inefficient and can consume most of the building's energy. Given the growing concern for environmental conservation, it is imperative to use Plug Fans - EC fans, which provide reliability, optimum efficiency and environmental benefits due to their low energy. The combination of the integrated power electronics motor, together with the flexible production of impellers and efficient sheet metal handling makes it possible to manufacture fan modules for various applications.

PLUG FANS



INDUSTRIAL UNIT



AIR WASHER UNIT



FRESH AIR UNIT



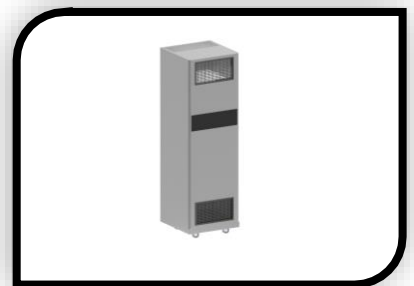
AHU



OPERATOR CABIN

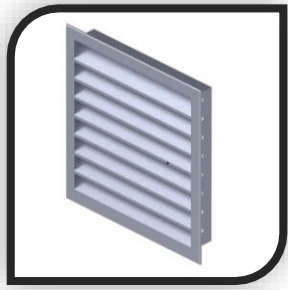


LT & STARTER PANEL

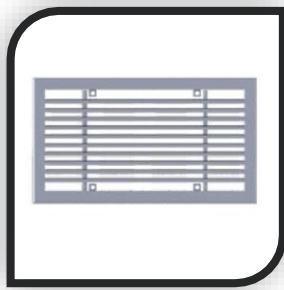


PORTABLE CHEMICAL FILTER UNIT

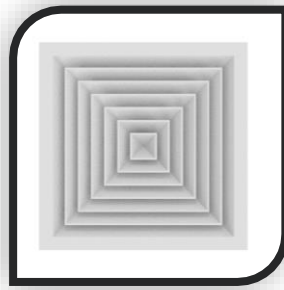
SUPPLY AIR DISTRIBUTION



LOUVER



GRILLE



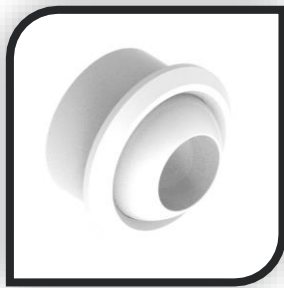
DIFFUSER



JET NOZZLE



SPOT DIFFUSER



EYE - BALL



CIRCULAR DIFFUSER



CURVE GRILLE

CONTROL DAMPERS



**RECT. MANUAL
DAMPER**



**RECT. MOTORIZED
DAMPER**

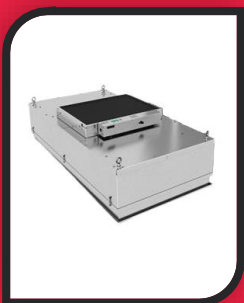


WM FIRE DAMPER



GRAVITY DAMPER

CRITICAL ENVIRONMENT CONTROL



FAN FILTER UNIT



VAN DIFFUSER



OCCUPANCY SENSOR



TEMPERATURE SENSOR

CLEAN ROOM VALIDATION

AIR VELOCITY TEST

Air velocity test is important to conduct periodic monitoring of filter attributes such as uniformity of velocity across the filter (and relative to adjacent filters). Variations in velocity can cause turbulence that increases the possibility of contamination. Velocities of unidirectional air should be measured 6 inches from the filter face and at a defined distance proximal to the work surface for HEPA filters in the critical area. Velocity monitoring at suitable intervals can provide useful data on the critical area in which aseptic processing is performed. HEPA filters should be replaced when non uniformity of air velocity across an area of the filter is detected or airflow patterns may be adversely affected. We execute recovery tests for clients across Industries. These tests demonstrate the ability of the clean room to remove particulate by purging the area with filtered air.

HEPA TERMINAL FILTER EFFICIENCY & INTEGRITY TESTING

HEPA filters are an essential component in any Clean Room design. In fact, their use is dictated by GMP regulations. In a properly designed HVAC system for a pharmaceutical facility; HEPA filters are essential for maintaining the cleanliness (classification) of an area. Therefore, GMP regulations and ISO 14644 guidelines dictate that HEPA filters shall be periodically tested to verify their efficiency and integrity. HEPA filters will lose their efficiency over time due to clogging, they may be ineffective due to improper installation or they could be damaged (holes rips) during installation or plant maintenance activities. To verify the integrity of HEPA / ULPA filters and to stay in conformance with various standards and / or governing agency requirements, filters should be tested and evaluated at potentially twice annually. Proper documentation and certification also helps predict potential performance issues and increases filter life.



EC TECHNOLOGY

As a forward-thinking company, we identified long ago that a sensible processing of energy is of crucial ecological and economic significance – particularly with regard to CO2 emissions and rising energy prices.

Therefore our engineers and technicians are constantly working to improve the energy efficiency of our products – and with success: Our motors with modern EC technology are more than 90% efficient and save up to 50% in energy as opposed to conventional motor technology. The low energy consumption not only contributes towards protecting the environment but at the same time also reduces our customers' operating costs.

EC technology is much more than an "energy efficient wonder". EC motors are maintenance free and silent. The integrated, intelligent controller allows a continuous control and further additional functions like pressure, volume flow, or air quality control. Our EC products fulfil the strictest requirements when it comes to energy efficiency, cost effectiveness and high air quality.

ADVANTAGES

- ✓ Very High Efficiency
- ✓ Energy and cost saving (lower energy costs, reduced energy bill)
- ✓ Integrated monitoring function (motor temperature, locked rotor and many more)
- ✓ Very Simple connection (Plug & Play)
- ✓ Expanded functionality (control of pressure, flow, speed, temperature, air quality, tachometer, alarms, etc.)
- ✓ Compact design

Providing sustainable business solutions and after sales services in the field of HVAC industry



We will advise you **free of charge** and **without obligation** so feel free to connect with our sales representative

