



## EMPOWERING ENERGY AND INDUSTRY: DELIVERING FRESH AIR FOR A SUSTAINABLE FUTURE

Air Pollution Control System | Industrial Blower | Ventilation System | Steel Fabrication



# About Us

"Hanza Environment Technology Factory" is located in the heart of the industrial city of ( ICAD 2 ) Abu Dhabi the factory is specialized in the manufacturing of environmental related products and it highly concentrates on the Air Filtration equipment's. Our technology complies with international and GCC standards. Approved by Local Environment Authorities; Abu Dhabi Environment Agency.

In our automated workshop and by our qualified team we produce jet pulse air filtration and its components. Components contain centrifugal fans mild steel or stainless steel, axial fans, activated carbon filters, filter bags, filter cages, rotary feeders, screw conveyors, dust suppression system, paint booths, silo & silo filters.

## Our Vision

To ascend as the leading innovator in environmental filtration solutions.

## Our Mission

To achieve manufacturing excellence with high international standards through process and product innovation, thus contributing to customer value. Hanza Envirotec is also committed to provide the highest customer support for its environmental solutions.





# Application



Mining



Energy



Manufacturing



Material Handling



Industrial Process



Abrasive Blasting



Aerospace



Construction



Automotive



Marine



Medical/Pharmaceutical



Food Processing

# Air Pollution Control System

## Jet Pulse Bag Filter

Jet Pulse Bag Filters are traditionally recognized as standard dedusting filters. HANZA ENVIROTEC has innovated and enhanced the designs of these filters to offer an array of advantages including:

- » Extended filter bag lifespan
- » Minimized pressure drops
- » Superior air to cloth ratios
- » Space- efficient design
- » Reduced emission levels
- » Decreased power usage
- » Optimised performance metrics

We pride ourselves on offering tailor-made bag filters specifically designed based on individual application requirements. These filters are especially suitable for environments with substantial airflow, elevated temperatures or when handling challenging materials.

**“Customized Design and Manufacturing of Dust Collector system for industrial environment”**



Jet pulse baghouse filter



## Capacity & Design Flexibility

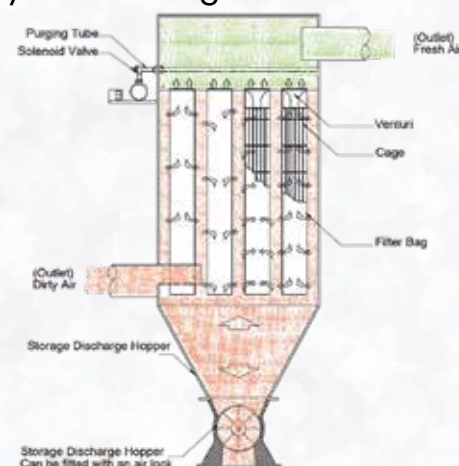
Typically, these Pulse Jet Bag Filters can accommodate air volumes ranging from 1,000 to 500,000 M<sup>3</sup>/Hr. These figures can be achieved through either standalone units or flexible modular configurations.

Note: Safety and adherence to HANZA ENVIROTEC operational guidelines are paramount when operating our Pulse Jet Bag Filters. Always ensure regular maintenance and checks.

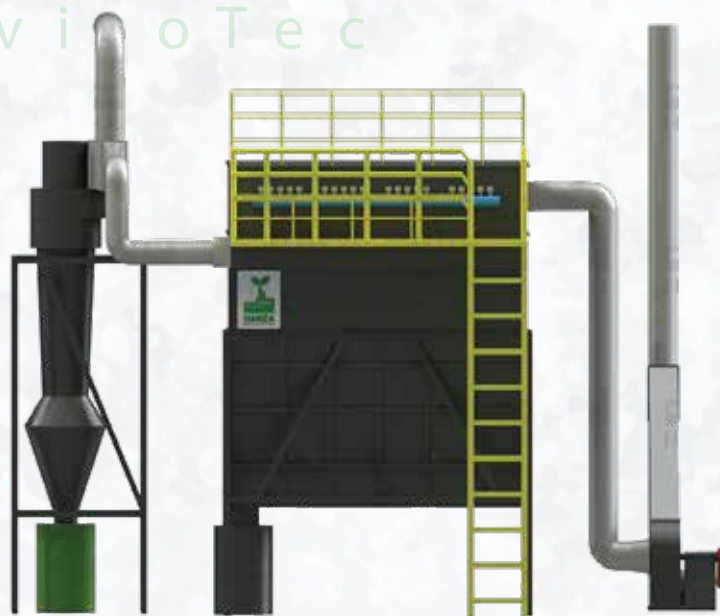
HANZA ENVIROTEC Air Quality Management System especially the Pulse Jet Bag Filter, boasts exceptional filtration capabilities. It can significantly reduce emission levels as approved by authority.

Acknowledging that emission criteria can vary from one region to another, HANZA ENVIROTEC ensures its devices inclusive of the pulse jet bag filters can be customized to meet specific local regulations.

This adaptability ensures the highest standards in maintaining pollution control benchmarks.



- » Hight Efficiency in dust collection
- » Energy Efficiency
- » Longer filter life
- » Versatility
- » Environmental compliance
- » Improved air quality
- » Space efficiency
- » Cost- Efficient
- » Scalability



Jet pulse bag filter with cyclone

## Jet Pulse Cartridge Filter

Proudly pioneered the design and manufacturing of the Cartridge Type Jet Pulse Dust Collector also known as the Pleated Bag Cartridge Filter. Our primary aim in introducing the Cartridge Type Filter was to achieve space efficiency while delivering results on par with hose bag type filters.

**Convenient Design:** Features a low-profile design with front-loading capabilities for easy cartridge removal and insertion.

**Continuous Operation:** Engineered for uninterrupted and continuous duty performance.

**Efficiency:** Demonstrates a reduced pressure drop when compared to Hose Bag Type Bag Filters.

**Modularity:** Boasts a modular design adaptable to various requirements, ranging from 1,000 to 500,000 M3/Hr.

**Turnkey Solution:** Delivered in a ready-to-operate condition ensuring minimal setup time.

**Space-Efficient:** Thoughtfully crafted to maximize functionality while

**Capacity:** From 1,000 to 500,000 M3/Hr.

- » Hight Filtration Efficiency
- » Longer filter life
- » Energy Efficiency
- » Self- Cleaning Mechanism.
- » Compact Design,
- » Versatility
- » Reduced Emissions
- » Cost -Efficient
- » Improved airflow
- » Adaptability



Jet Pulse Cartridge Filter



**Tailored Solutions:** We offer both customized and standard configurations to meet specific client needs.

**Advanced Filtration:** Our filters utilize cutting-edge surface filtration technology for optimal results.

**Discharge Flexibility:** Multiple options are available for discharge devices, catering to diverse requirements.

**Material Versatility:** We provide a selection of fabric materials, each tailored for different applications, ensuring maximum efficiency and longevity.

### Applications & Design

Our Cartridge Type Jet Pulse Dust Collectors and Cartridge Filters are ideal for ambient temperature environments and are specifically designed to handle free-flowing dust or materials. With various dedusting filtration media tailored for diverse applications these dust collectors stand out for their compactness and continuous operation with minimal downtime. A distinct feature is the timed pulses of compressed air that move counter to the main airflow. This unique design coupled with a temporary reversal through a cleaning blast via a venturi, ensures thorough cleaning of the cartridge surface.

### Range & Usage

HANZA ENVIROTEC proudly presents an extensive assortment of Cartridge Type Jet Pulse Dust Collectors and Cartridge Filters with capacities ranging from **1,000 to 500,000 M3/Hr.**



Jet pulse cartridge filter -Circular

## Cyclone Separator

The Cyclone Separator commonly known as the cyclone dust collector, represents a foundational and time-tested mechanical method for separating hefty dust particles from the airstream. This mechanism is driven by the centrifugal cyclonic/vortex effect arising from tangential rotation. This industrial solution is especially beneficial in scenarios where the dust particle size is substantial, serving as a primary separator to lessen the dust burden on subsequent filtration devices or even acting as a safeguard against potential sparks.

**Efficiency and Power Utilization:** At HANZA ENVIROTEC, we've harnessed our expertise as leading dust collector manufacturers to devise a range of cyclone dust collectors that champion both efficiency in dust separation and energy conservation. This balance culminates in enhanced emissions control, reduced strain on bag houses or dust collection systems, elongated filter bag lifespan and optimal product recovery.

Cyclone separator can achieve high collection efficiencies, typically separating 99% of the dust particle greater than 10 microns in size from the AIV steam.



Cyclone



Cyclone with dust collector



## Silo Filter

In various industries, particularly those dealing with bulk materials, the process of storing, discharging and conveying can often lead to the release of dust and particulate matter. HANZA ENVIROTEC Silo Filter stands as an innovative solution designed to manage and reduce these emissions, ensuring a cleaner and safer environment for both the workforce and the surrounding locality with mechanical components.

This unit can efficiently handle significant grain loadings even as high as 100 grains per cubic foot. Additionally, its design minimizes the need for frequent maintenance.

## Industrial Vacuum Units

Handling fine industrial dust mandates a vacuum system equipped with advanced filtration mechanisms. Delfin's centralized vacuum cleaners are outfitted with high-efficiency filtration units, including options for CARTRIDGE FILTER and HEPA filters. With an expansive filter surface area these units are designed to reduce downtime and maintain optimal performance during extended operations.



## Wet Scrubber System

In environments where sparking dust poses risks of combustion or explosions, wet scrubbers serve as the preferred dust collection method. These systems primarily use water to neutralize or “scrub” particles. While compact compared to dry fabric dust collectors, wet scrubbers necessitate consideration for corrosion and potential secondary water pollution.

**Function:** Air laden with dust traverses a horizontal chamber meeting submerged baffle plates that wet the dust. Once wetted the dust descends to a hopper while air ascends finally being extracted through terminal filters. An ID exhaustor is positioned at the final outlet for effective air removal.

**Design:** HANZA ENVIROTEC Packed Bed Scrubber is tailored for each application, ensuring cost-effective and efficient gas cleansing. Unique packing media provides vast surface area for maximum gas and liquid interaction.

**Efficiency:** The design ensures optimal scrubbing efficiency, compactness and minimal pressure drops. Multiple configurations and options are available to suit diverse applications.

- » Effective pollution removal
- » Versatility
- » Cooling of Hot Gases
- » Simultaneous particulate and gases removal
- » Compact Design
- » Control of flammable dust
- » Gas Absorption
- » Lower fire and Explosion Risk
- » Regulatory Compliance
- » Adjustable to process requirements



Wet Scrubber with VOC unit



Wet Scrubber System



## Painting Booth Filter System

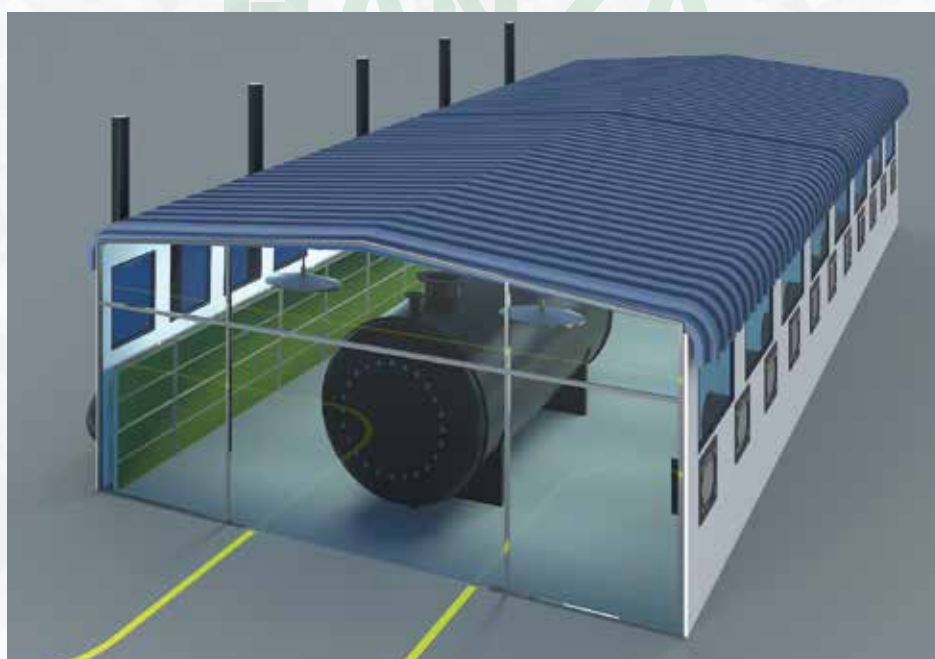
At HANZA ENVIROTEC we acknowledge the significance of maintaining a clean, efficient and safe painting environment.

Our Industrial Paint Booth Filter Unit embodies our commitment to delivering top-tier solutions, ensuring seamless painting operations while prioritizing environmental and workplace safety.

**Capacity : 5000 m<sup>3</sup>/hr to 1,000000 m<sup>3</sup>/hr +**



Paint booth media's

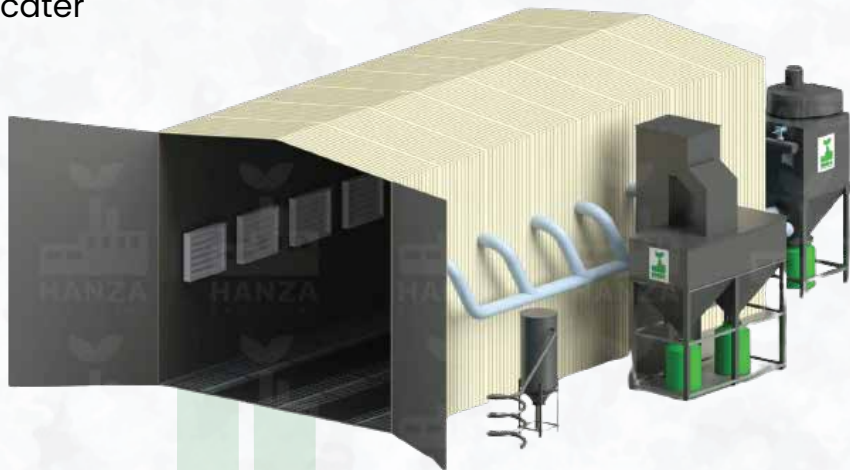


Paint booth room

## Blasting Rooms & Equipment's

HANZA ENVIROTEC recognizes the unique operational demands of each customer. Instead of offering one-size-fits-all solutions we believe in crafting tailor-made blast rooms to cater to your distinct needs.

- » Dust Collector
- » Recovery Unit
- » Bucket Elevator
- » Blasting POT
- » Screw Conveyor's
- » De Humidifier



## Fume Extractor System

At HANZA ENVIROTEC we pride ourselves on being at the forefront of the manufacturing industry with our specialization in state-of-the-art Fume Extractor Systems.

Our mission is unwavering: we are steadfastly dedicated to ensuring a pristine and secure environment through our advanced fume extraction technologies.

- » Improved air quality
- » Space- saving design
- » Portable and versatile
- » Reduced Health Risks
- » Enhanced work efficiency
- » Easy to install and use
- » Energy Efficient
- » Cost- effective
- » Regulatory compliance
- » Flexible filtration Options





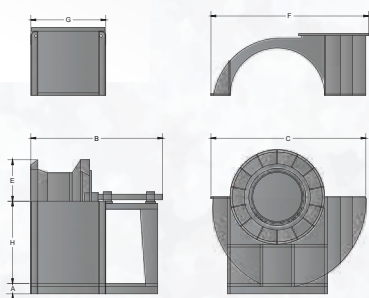
# Industrial Blower

## Centrifugal Fan Direct Drive

Hanza Envirotec proudly presents its cutting-edge industrial centrifugal blower/fan equipped with a Direct Drive feature and renowned for its exceptional efficiency. Our versatile fan is tailored to meet the diverse needs of industrial applications, including HVAC systems, dust collectors, ventilation setups, extraction processes and more.

**Broad Capacity Range:** 1000m<sup>3</sup>/hr to 250,000 m<sup>3</sup>/hr+

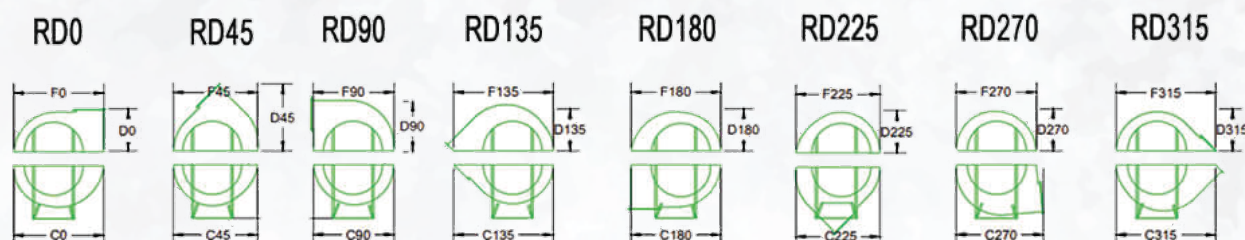
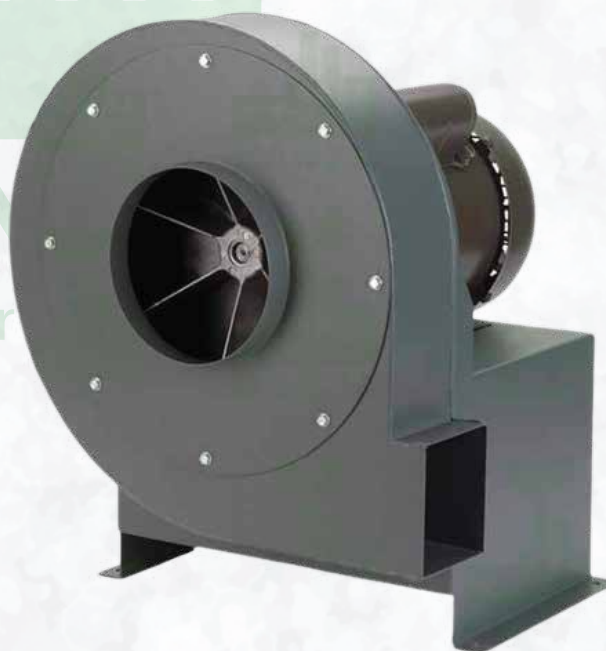
Our Direct Drive technology sets our industrial centrifugal blower/fan apart from the competition offering a range of distinct advantages



**Enhanced Efficiency:** Direct Drive eliminates the need for transmission components, reducing energy losses and ensuring higher overall efficiency. This leads to lower energy consumption and reduced operational costs.

**Reduced Maintenance:** Our Direct Drive system requires minimal maintenance, contributing to a longer lifespan and reduced downtime compared to belt-driven alternatives.

**Improved Reliability:** Direct Drive fans are known for their durability and reliability, making them a dependable choice for critical industrial processes.



## Centrifugal Fan Belt Driven

Hanza Envirotec takes pride in introducing its industrial centrifugal blower/fan, featuring a reliable Belt Driven system known for its exceptional efficiency. Our fan is designed to cater to the diverse needs of industrial applications, including HVAC systems, dust collectors, ventilation setups, extraction processes and more.

**Wide Capacity Range:** Our industrial centrifugal blower/fan offers a manufacturing capacity ranging from 1000 m<sup>3</sup>/hr to an impressive 500,000 m<sup>3</sup>/hr, suitable for both small-scale and large-scale industrial applications.





## Material Handling Fans

At HANZA Envirotec, we offer a comprehensive range of Material Handling Fans meticulously designed to handle various materials from fine sawdust and sand to heavy plastic pellets and grains. Our Material Handling Fans are engineered to excel in challenging environments, ensuring efficient and reliable material transport and management.

**High Air Volumes:** With the capacity to move air volumes of up to 100,000 cfm our fans are optimized for efficient material transport and ensuring that materials are effectively conveyed to their destination.



## Axial Fan

HANZA Envirotec is pleased to introduce our range of Axial Fans, designed to cater to a wide array of applications from household comfort to industrial requirements. Axial fans derive their name from their unique operating principle. Where fan blades rotate around an axis, pushing air parallel to the axis. These fans are versatile, efficient and capable of handling significant air volumes making them essential in various settings. Choosing HANZA Envirotec Axial Fans means opting for efficient, versatile and reliable ventilation solutions suitable for a wide range of applications.

Contact us today to explore how our Axial Fans can enhance air circulation, improve indoor air quality and contribute to your environmental sustainability goals.

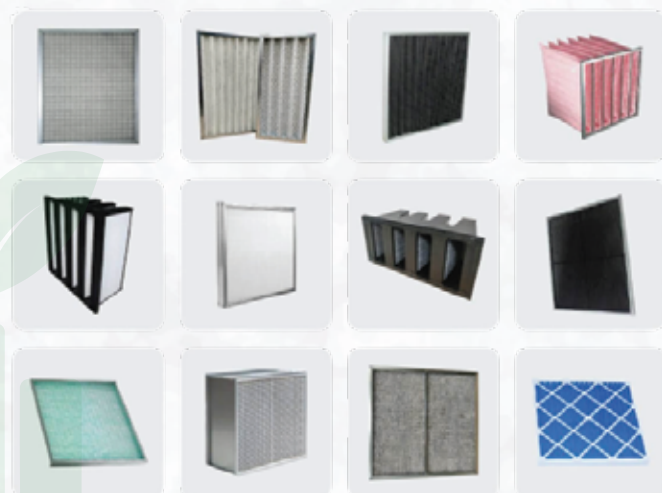
**Capacity:** Our Axial Fans have a capacity of up to 50,000 m<sup>3</sup>/hr, ensuring that they can effectively meet the needs of various industrial and commercial scenarios.



# Indoor Air Quality (IAQ) Solution

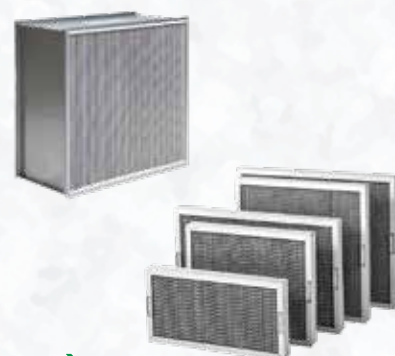
## HVAC Filters

Welcome to HANZA ENVIROTEC your trusted supplier of top-tier HVAC filters designed to elevate indoor air quality, ensuring that you and your loved ones breathe cleaner, healthier air. We take pride in our commitment to quality, innovation and personalized solutions, making us the preferred choice for both.



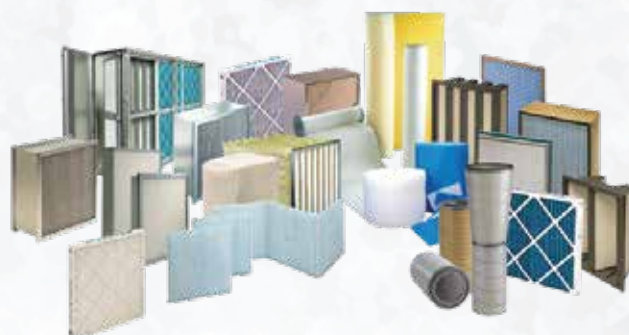
## Aluminum Filters

HANZA ENVIROTEC is a leading manufacturer and supplier of diverse Aluminum Washable Filters, specializing in our premium Metafil series. Our commitment to quality, innovation and superior performance has positioned us as the trusted choice for businesses seeking top-tier filtration solutions.



## High Efficient Air Filters (HEPA, Pre Filter)

At HANZA ENVIROTEC we are at the forefront of delivering cutting-edge solutions for air purification, specializing in High Efficiency Pre Filters and HEPA Filters for both industrial and residential sectors. Our commitment to cleaner, healthier air is evident in the superior technology and efficiency of our filtration systems.





## Filters and Filter Media's

HANZA ENVIROTEC is a renowned manufacturer and supplier of a comprehensive range of filters and filter media tailored to meet the diverse filtration needs of various industries. Our commitment to quality, innovation and customization has made us a trusted partner for businesses seeking top-tier filtration solutions.



## Pocket Filters

HANZA ENVIROTEC is a renowned manufacturer and supplier of various types of Pocket Filters, designed to deliver exceptional dust removal efficiency and unparalleled performance in air filtration. Our commitment to quality and innovation has made us a trusted partner for businesses seeking top-notch filtration solutions.



## Activated Carbon Filter

At HANZA ENVIROTEC we are committed to creating a cleaner, healthier, and more sustainable environment. With a focus on cutting-edge solutions, we specialize in the production and distribution of premium-quality activated carbon for removing air particles and emissions from both water and air sources.



## Volatile Organic Compound (voc)

Volatile Organic Compounds (VOCs) are a diverse group of organic chemicals that are gaseous at room temperature and can have a significant impact on indoor air quality. These compounds are emitted by a wide range of products, including paints, aerosols, cleaning agents and adhesives. Continuous exposure to high levels of VOCs can pose health risks, making their management crucial for ensuring a safe environment.



# Ventilation System

## Roof Ventilation System

HANZA ENVIROTEC continually pushes the boundaries of innovation and excellence. Our newest product, the Roof Ventilation Fan is a testament to our dedication to offering technologically advanced solutions tailored for today's industrial challenges.



## Exhaust Fans

Premium Exhaust Fans in U.A.E Crafted with precision and made from high-quality materials. HANZA ENVIROTEC heavy-duty exhaust fans are a testament to engineering excellence in the U.A.E.



## Rigid Ventilation

Rigid Ventilation for Optimal Airflow In the dynamic world of industrial ventilation. HANZA ENVIROTEC stands at the forefront, consistently introducing innovations tailored to meet contemporary needs.



## Industrial Duct Ventilation Systems

Pioneers in Industrial Duct Ventilation Systems At its core, industrial duct ventilation serves as the mechanized conduit for facilitating pristine outdoor air inflow while effectively expelling indoor contaminants.





# Filter Accessories

## Screw Conveyor

Elevate the efficiency of your bulk material handling with HANZA ENVIROTEC Screw Conveyor system. Designed meticulously for horizontal or slightly inclined operations, our conveyors optimize your manufacturing process by facilitating the smooth transition of materials from Point A to Point B.



## Rotary Feeder & Air Lock Valve

Step into the future of effective air seal maintenance with HANZA ENVIROTEC state-of-the-art rotary airlocks. Precision-engineered to manage discharge material flow from dust collectors and various processes. Our rotary airlocks are your answer to maintaining a flawless air seal.



## Dampers

HANZA ENVIROTEC we pride ourselves on being premier suppliers of high-quality butterfly-type dampers, catering to the diverse and dynamic needs of the Middle Eastern market. Dampers are instrumental in regulating and controlling the flow of air and gas in chimneys, ducts, flue-gas stacks and other HVAC applications.



## Filter Bags

Premium Filter Bags for Comprehensive Applications  
At HANZA ENVIROTEC we stand at the zenith of innovation & quality in the UAE and across the Middle East. Recognized as leading suppliers, we specialize in crafting state-of-the-art filter bags tailored to cater to a myriad of applications, be it gas, liquid or dust filtration.



Nonwoven dust filter bag	Continuous Temperature	Peak Temperature	Description	Resistance to Acids	Resistance to Alkalis	Resistance to Oxidation	PH Value
Polypropylene	90°C	100°C	PP	excellent	excellent	restricted	1-14
Acrylic	125°C	140°C	AC	good	good	good	3-11
Yadi	150°C	160°C	Yadi	excellent	excellent	excellent	3-13
Polyester	130°C	150°C	PE	restricted	moderate	good	4-12
Polyphenylensulfide	190°C	200°C	PPS	excellent	excellent	moderate	1-14
Polyamid	204°C	250°C	Nomex	good	excellent	good	3-14
Polysulfonamide	250°C	300°C	PSA	excellent	excellent	excellent	3-14
Polymide	260°C	300°C	P84	good	moderate	good	3-13
Polytertrafluoroethylene	250°C	280°C	PTFE	excellent	excellent	excellent	1-14
Glass fiber	260°C	300°C	BQ	good	good	good	3-11

## Filter Cages

Filter Cage Supplier in the UAE & Middle East, We understand the criticality of synergizing the Filter Bag with its Supporting Cage. This synchronization is paramount for attaining optimal filter unit performance. As industry leaders in the UAE and across the Middle East we pride ourselves on providing comprehensive filter solutions that enhance and extend operational excellence.





## Cartridge Filter

HANZA ENVIROTEC has established a robust presence in the (UAE) and the broader Middle East region. Committed to environmental sustainability and innovative filtration solutions we stand as a leading supplier of cartridge filters tailored for a diverse array of different applications.



## Solenoid Valve

**Pulse Valves: A Testament to Craftsmanship and Innovation** In the sophisticated domain of dust collection our offerings stand out reflecting the pinnacle of European design and technological advancement. We are committed to delivering a wide spectrum of pulse valves, meticulously engineered to meet diverse operational demands. Our core strength is anchored in our nimbleness, unparalleled technical expertise and an unwavering pursuit of perfection. This combination ensures we address even the most complex requirements with efficiency and precision. Each of our pulse valves is a beacon of resilience and meticulous design. Crafted for longevity, their efficient opening and closing mechanisms optimize air flow and paving the way for enhanced energy conservation.



## Sequential Timer

**Sequential Timer for Pneumatic Cleaning:** A Synthesis of Precision and Reliability at Hanza Envirotec, we are more than just providers; we are pioneers in the Middle Eastern market. Rooted in the heart of the UAE we specialize in offering state-of-the-art sequencers pivotal for controlling the pneumatic cleaning of industrial dust collector systems.



# Steel Fabrication

## Structure Steel Fabrication

HANZA ENVIROTEC we pride ourselves on being industry leaders in the realm of structural fabrication with a rich legacy of expertise, we not only design but also manufacture an array of robust structures tailored to the specific needs of our clients.



## Tank & Silo Manufacturing

HANZA ENVIROTEC our prowess in specialized design and fabrication doesn't just end with structures. We've carved a niche for ourselves in the domain of tank and silo manufacturing, catering to a diverse market that spans various industries.



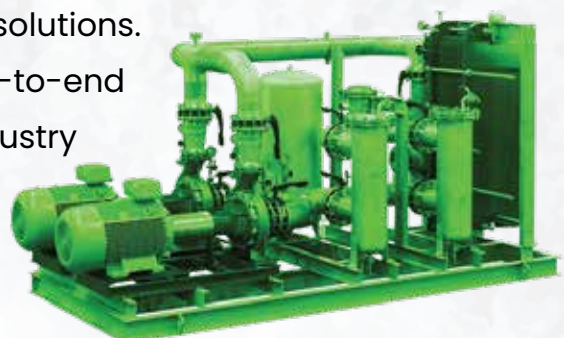
## Piping Spool Fabrication

In the dynamic world of piping, HANZA ENVIROTEC stands out as a beacon of precision and excellence. Our formidable expertise in piping spool fabrication positions us at the forefront of the industry, delivering solutions that are both innovative and reliable.



## Skid Package Manufacturing

At HANZA ENVIROTEC we're more than just a manufacturer; we're an innovator in the field of skid package solutions. With precision engineering and a focus on end-to-end integration, we have set benchmarks in the industry for delivering state-of-the-art skid packages.





# Service

## Filtration Equipment Service

### Innovating Clean Air Solutions

HANZA ENVIROTEC we don't just manufacture cutting-edge jet pulse filters and dust collectors; we ensure they deliver enduring value throughout their lifecycle. We recognize the critical importance of operational efficiency, safety and sustainability in every industry we serve. Thus, we are proud to expand our commitment to a holistic service model.



## Blower Refurbishment & Service

### Driving Airflow Excellence

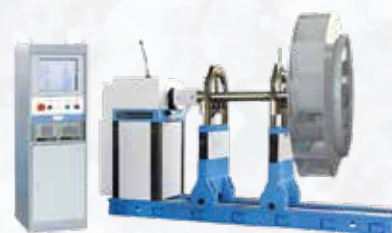
HANZA ENVIROTEC we specialize in the design and manufacture of high-quality centrifugal fans and blowers. But our commitment to airflow solutions goes beyond just manufacturing. We believe in ensuring the longevity and efficiency of every product we craft.



## Dynamic Balancing

### Precision in Every Rotation

HANZA ENVIROTEC we are not only recognized for our superior manufacturing of fan impellers but also for the precision and care with which we ensure their performance. In the world of rotating equipment, the smallest imbalance can lead to inefficiencies, increased wear and even potential equipment failure.



## Plant Machinery & Equipment's Service

### Ensuring Operational Excellence in Every Detail

HANZA ENVIROTEC our dedication goes beyond creating superior machinery and equipment solutions. We understand that for our clientele, maintaining optimal operational efficiency is paramount. That's why we have expanded our horizons to offer unparalleled service and maintenance for plant machinery and equipment.



## Hydro Washing

### Precision, Purity, Performance

HANZA ENVIROTEC our commitment to industrial excellence doesn't stop at creating and maintaining equipment. We understand that cleanliness and purity play an essential role in ensuring optimal performance, longevity, and safety of plant machinery and structures. This realization has driven us to specialize in the domain of Hydro Washing.



## Abrasive Blasting & Painting

### Restoration, Renovation, Revitalization

HANZA ENVIROTEC we believe that excellence in industrial maintenance encompasses both deep cleansing and aesthetic restoration. With this philosophy at our core, we proudly offer comprehensive Abrasive Blasting and Painting services, designed to rejuvenate plant equipment, machinery and steel structures.



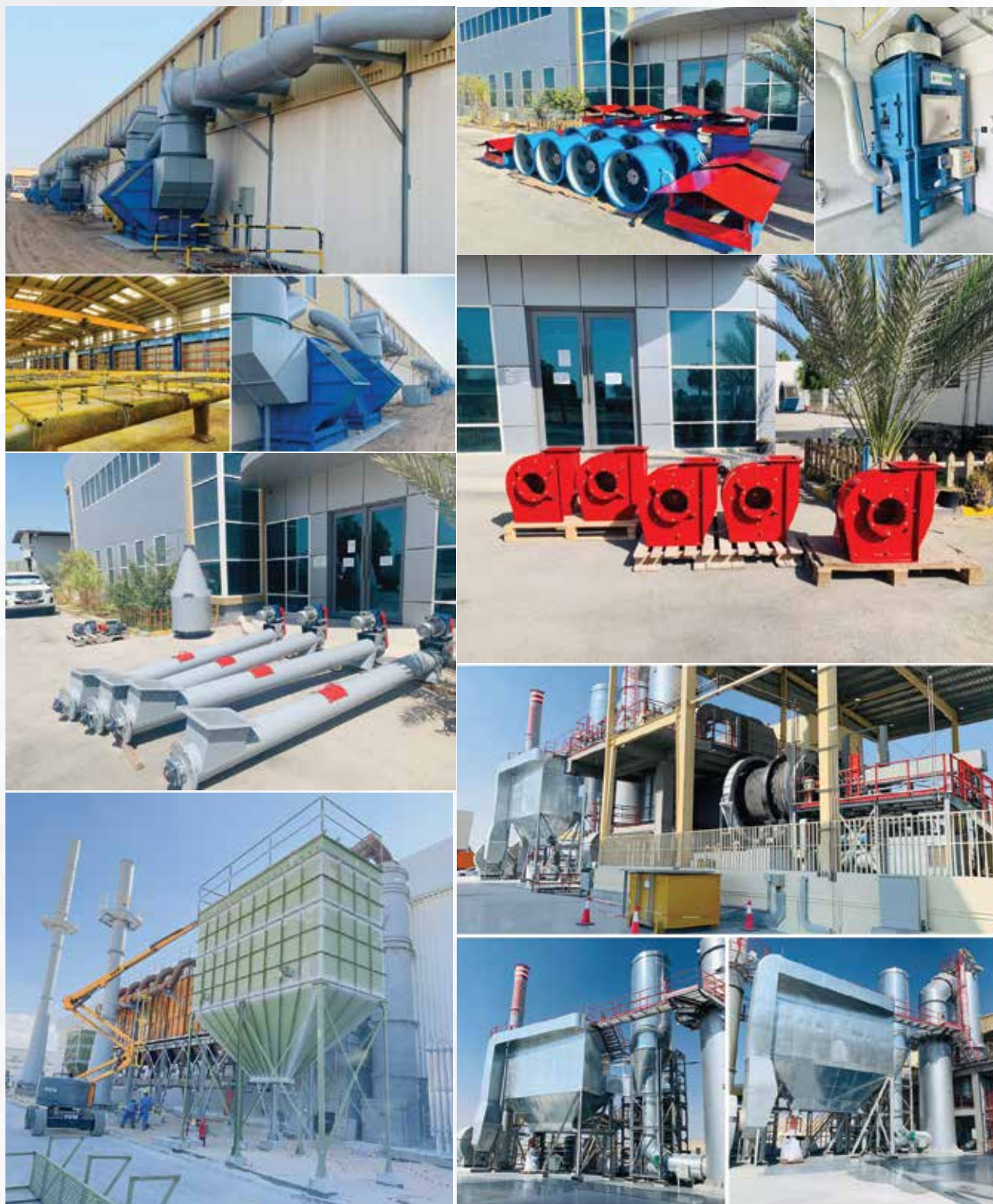


# Gallery





# Gallery





# Gallery





**DOING THE RIGHT THING  
AT THE RIGHT TIME**



ISO 9001:2015



ISO 45001:2018



ISO 14001:2015



**Hanza Environment Technology Factory LLC**

☎ (+971) 2 4454 054    ✉ [info@hanza-envirotec.com](mailto:info@hanza-envirotec.com)

🌐 [www.hanza-envirotec.com](http://www.hanza-envirotec.com)

📍 P.O.Box: 402, Abu Dhabi, UAE