

Polygon

VENTILATION SYSTEM PRODUCT MANUAL

AKAN ENTERPRISE GROUP(ZHEJIANG)CO.,LTD.

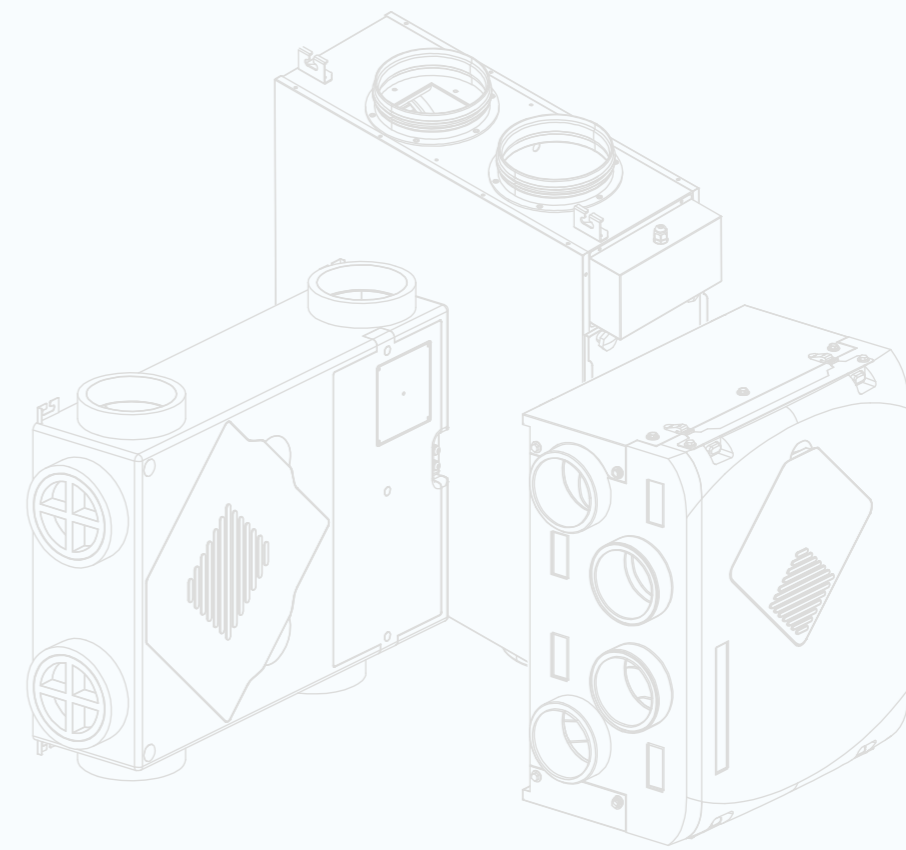
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Accommodation Ventilation System





Brand Introduction

POLYGON Pipe is a well-known plastic piping system solution provider, specializing in the R&D, production and sales of plastic products of piping system, with leading technology production equipment. The products cover water supply and drainage, ground-source heat pumps, co-layered drainage, siphon rainwater, municipal engineering, HVAC systems and other fields.

1700000
Factory Scale

3000
Group Employees

500
Key Technical Personnel

20000+
Marketing Network

330+
City Coverage

30+
Countries and Areas of
Production and Sales



Baodi, Tianjin

• Baodi, Tianjin City [100,002m²]



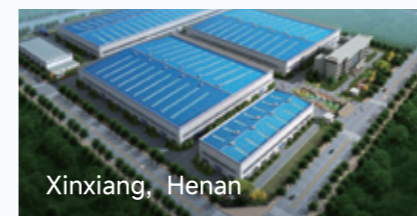
Huzhou, Zhejiang

• Huzhou, Zhejiang Province [193,000m²]



Heyuan, Guangdong

• Heyuan, Guangdong Province [20,000m²]



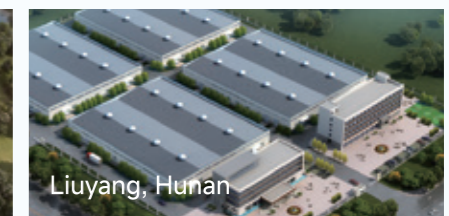
Xinxiang, Henan

• Xinxiang, Henan Province [99,733m²]



Jiangjin, Chongqing

• Jiangjin, Chongqing City [80,000m²]



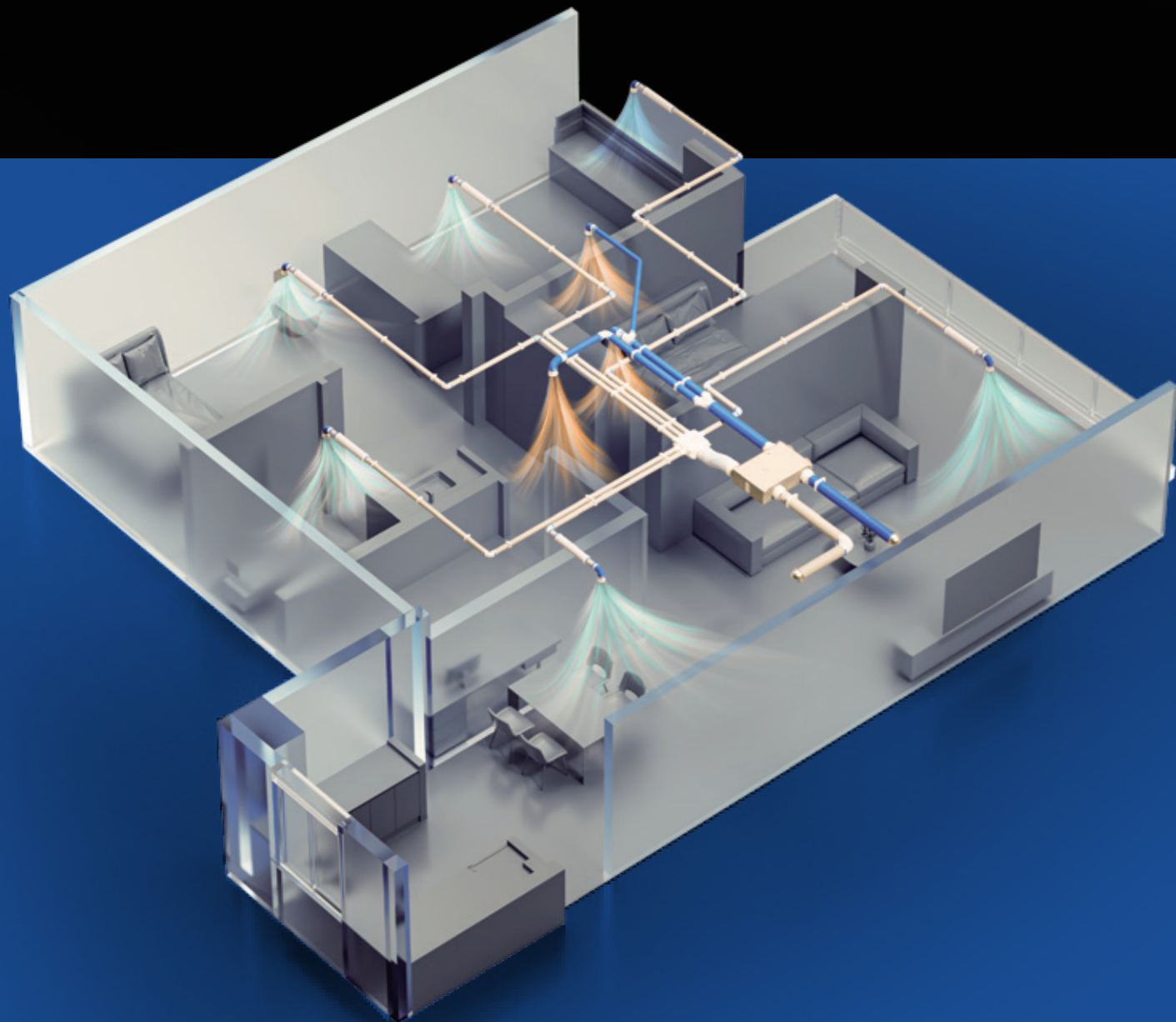
Liuyang, Hunan

• Liuyang, Hunan Province [110,000m²]

POLYGON

POLYGON is a dedicated supplier of comfortable systems and a guide for a comfortable lifestyle that focuses on creating a healthy indoor environment quality (temperature and humidity, air cleanliness, oxygen content, and quietness). In 2015, the group established a heating, ventilation, and air conditioning (HVAC) division, dedicated to the research and development of HVAC system products, and officially launched the "POLYGON" brand in 2016, participating in the ISH exhibition and entering the market.

The company has a professional ventilation laboratory that ensures the operational effectiveness of the entire system from the main unit, distribution, to control, aiding in product innovation, research and development, and implementation. POLYGON Ventilation has now become a leader in domestic healthy whole-house ventilation systems, and its products are widely used in various places such as residences, apartments, office buildings, hotels, and schools.



Seven Major Production Bases

Shanghai, Zhejiang, Chongqing, Henan, Hunan, Tianjin, Guangdong



Efficient Production

Automated production lines; digital management and logistics; currently the only manufacturer in China with a shield tunnel pipe production line.



Stringent Testing

"Three inspections" system for raw materials, in-process, and finished products; passed ISO management system certification.



Association Membership

Member units of the Comfortable Home Division and Fresh Air and Water Purification Division of the China Metal Structure Association.



Effect Assurance

Equipped with a professional fresh air laboratory, capable of testing air volume, fresh air rate, static pressure, heat exchange efficiency, noise, PM2.5 filtration efficiency, and other factors to ensure the effectiveness of the system.



System Advantages

One-stop provision of fresh air system products, convenient, reliable, and guaranteed.



Industry Honors

Top ten trusted brands by consumers, outstanding contribution awards, social responsibility practice awards, etc.



CNAS Laboratory

Internationally recognized, quality assurance.

patented product:





Enthalpy Difference Laboratory

The laboratory comprises the Enthalpy Difference Control Room, the Enthalpy Difference Laboratory (outdoor side), and the Enthalpy Difference Laboratory (indoor side). The entire laboratory can test airflow up to a maximum of 3500m³/h. Its main function is to test five parameters of the fresh air system: airflow, static pressure, heat exchange efficiency, effective ventilation rate, and input power.



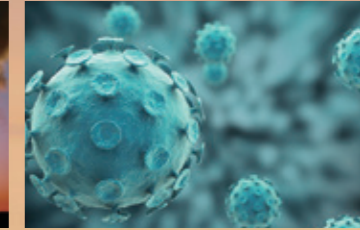
Semi-anechoic Chamber

This chamber is designed to test the noise generated by the fresh air main unit during operation. The room-in-room structure and walls utilizing special sound-absorbing structures create a quiet environment, eliminating external noise interference. During experiments, the setup simulates real-life conditions to ensure the test results are accurate and reliable.



Primary Filtration Laboratory

This laboratory tests the PM2.5 filtration efficiency of the fresh air main unit. It features an extended testing table with auxiliary fans, a dust generation section, a pre-sampling section, the fresh air main unit, and a post-sampling section. By simulating high-pressure dust generation, it recreates outdoor haze scenarios. A dust particle counter measures six sets of data before and after filtration by the fresh air unit, allowing for a comparison to calculate the filtration efficiency.



Sources of Indoor Air Pollution

Outdoor Gaseous Pollution

Common outdoor gaseous pollutants such as vehicle exhaust and garbage incineration, including ozone, are also exacerbating indoor pollution.

Outdoor Solid Pollutants

Solid pollutants such as haze and dust enter the indoor environment and are extremely difficult to clean.

Formaldehyde and Benzene from Decoration

Formaldehyde and benzene from home renovations can linger for up to 15 years, making them hidden health hazards in the home.

Carbon Dioxide

A lack of air circulation or a large number of people can easily lead to excessive levels of carbon dioxide, which is the main culprit for lethargy, dizziness, drowsiness, and stuffiness.

Secondhand Smoke and Kitchen Fumes

Smoking and cooking at home generate high levels of secondhand smoke and fumes, which are harmful to health.

Various Odors

Common areas such as kitchens and bathrooms often produce various pollutants that affect the quality of life.

Pollen and Dust Mites

Flowers and plants release tiny pollen into the air, and a large amount of dust mites exist deep in beds and sofas. These can easily trigger allergic symptoms such as rhinitis.

Bacteria and Viruses

These are significant but often neglected pollutants. Damp environments are prone to breeding bacteria, and air conditioners that are not cleaned for a long time become breeding grounds for bacteria and viruses.



About POLYGON

POLYGON is dedicated to creating a healthy indoor environment (temperature, humidity, air cleanliness, freshness, and quietness) as a provider of comfortable system solutions and an advocate for comfortable living.

POLYGON is one of the subsidiary brands under the AKAN Enterprise Group. Established in 2015, the group's HVAC division focuses on researching and developing HVAC system products. In 2016, POLYGON was officially established as a brand and made its debut at the ISH Exhibition, entering the market. With a professional fresh air laboratory, the company ensures the operational effectiveness of the entire system from the main unit to distribution and control, facilitating product innovation and development.

POLYGON has been deeply involved in the HVAC market for many years, focusing on the research and development of cutting-edge technologies such as indoor air purification, fresh air, and temperature and humidity control. It holds multiple product patents and has participated in the formulation of national and local HVAC industry standards.

The research and development laboratory continuously refines and upgrades its capabilities, integrating advanced production technologies from Europe to create comfortable indoor system solutions suitable for the Chinese environment.

Currently, the company has established seven major production bases in China. Its products and systems are widely used in various locations such as residences, apartments, office buildings, hotels, and schools, committed to creating efficient, healthy, safe, energy-saving, and comfortable living environments for consumers.





Eight Advantages of Polygon Ventilation System

- High airflow and low noise
- Anti-mold and anti-static
- Pressure-resistant and impact-resistant
- Flexible installation with quick plug-in connection

- Wide range of accessories
- Easy installation without structural damage
- Flexible and bendable
- Smooth long-distance airflow



Integral Forming

EPP integral forming delivers a lightweight, durable structure and enables convenient, flexible installation.



Safe and Healthy

EPP material is degradable and harmless to the human body, eliminating the need for conventional rubber insulation boards and glue for field insulation, saving time and effort.



Long Service Life

Chemical molecules have extremely strong stability, ensuring long-term use.



Excellent Insulation

EPP material has excellent heat resistance and strong thermal stability.

EPP *Fresh*
POLYGON EPP
VENTILATION PIPE

Polygon Main Pipe Accessories



POLYGON EPP Fresh Air Main Pipe

DN125(1m) DN160(1m) DN180(1m)



Gray EPP Fresh Air Main Pipe

DN200



Gray EPP Fresh Air Main Pipe - Flame Retardant

DN125(1m) DN160(1m) DN180(1m)



EPP Round Pipe Elbow

DN125×90° DN160×90° DN200×90°



EPP Round Pipe Coupling

DN125 DN160 DN200



EPP Round Pipe Coupling - Flame Retardant

DN125 DN160 DN180



EPP Round Pipe Elbow - Flame Retardant

DN125×90° DN160×90°



EPP Round Pipe Tee

DN125 DN160



EPP Round Pipe Tee - Flame Retardant

DN125 DN160



EPP Round Pipe Reducer

DN160/DN125



EPP Round Pipe Reducer - Flame Retardant

DN160/DN125



EPP Round Pipe Clamp

DN125/DN160/DN180 (General) DN200

Polygon Main Pipe Accessories



Air Pipe Insert Socket

DN160-125	DN200-160
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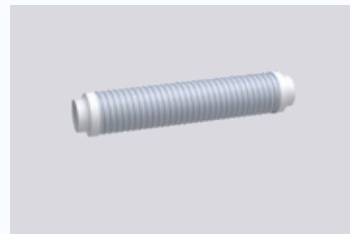
Air Pipe Insert Socket

DN125	DN160	DN200
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Silencing Pipe - Kit

Φ130(1m)	Φ130(0.6m)	Φ165(1m)
Φ165(0.6m)	Φ205(1m)	



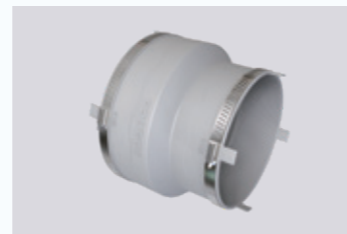
Silencing Pipe - Type II

DN110(0.6m)	DN110(1m)
DN160(0.6m)	DN160(1m)



Gray ABS Straight Flange Air Outlet

DN125	DN160	DN200
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Flange Flexible Connection

DN158-98	DN158-108	DN158-123
DN158-145	DN158-158	DN193-158
DN198-193		



Universal Buckle Pipe

DN110(2m)	DN160(2m)
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Adjustable universal pipe clamp

φ110-230

Product Advantages

Flexible and sturdy

Corrugated structure is flexible, easy to bend, and eliminates air surge risk. With a ring stiffness of over 8, it delivers excellent pressure resistance.

High-quality and environmentally friendly

Made via high-density PE-HD extrusion. Unlike traditional PVC ducts, it requires no adhesive bonding, making it safer and more eco-friendly, with a longer lifespan. Each meter weighs over 280g for guaranteed quality.

Insulation and noise reduction

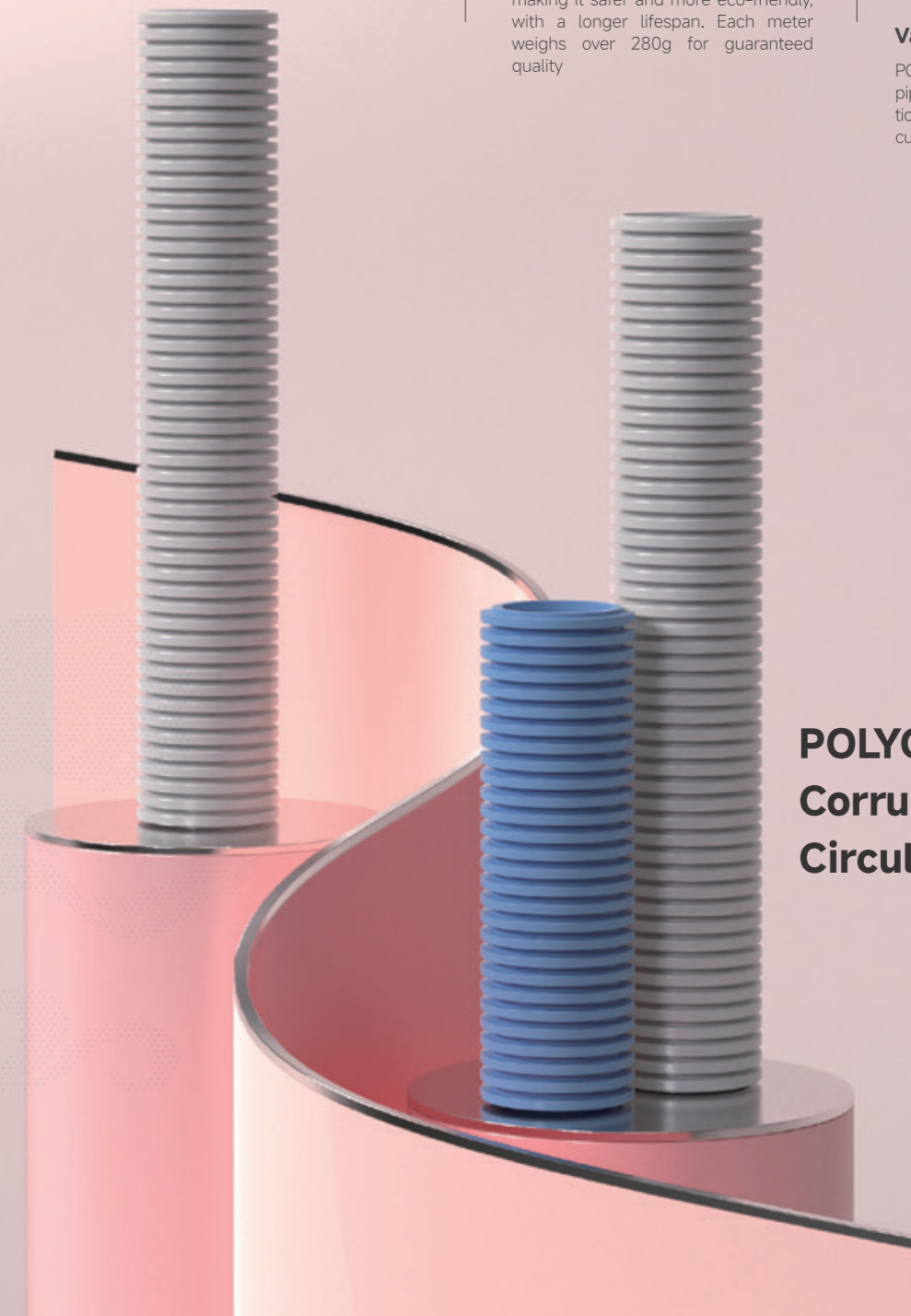
Double-wall hollow structure reduces noise and provides insulation.

Efficient air delivery

Smooth inner wall minimizes air resistance. Quick plug-in connections create a seamless, airtight seal, for easy maintenance and cleaning.

Various choices

POLYGON EPP flexible corrugated round pipes are available in multiple specifications and colors to meet diverse customer needs.



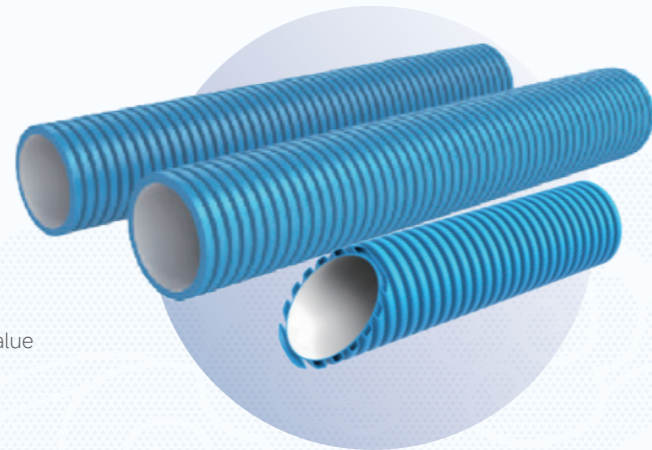
POLYGON PE Flexible Corrugated Circular Pipe *Fresh*

POLYGON PE Flexible Corrugated Round Pipe

Sky Blue ●

Insulation and noise reduction, light sound of air supply, light weight and sturdy.

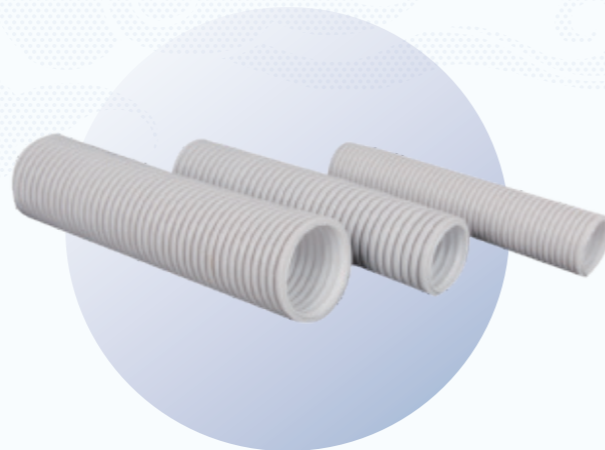
- Smooth airflow
- Insulated for noise reduction
- Sterile and environmentally friendly
- High aesthetic value



Elegant Grey ●

Resistant to mold and bacteria in humid environments, effectively preventing secondary pollution.

- Anti-mold and antibacterial
- Efficient airflow
- Quiet airflow
- Sterile and environmentally friendly
- Flexible and sturdy



Application Examples



POLYGON PE flexible corrugated round pipes, complete with accessories, offer flexible installation options and a wide range of diameters for various applications.

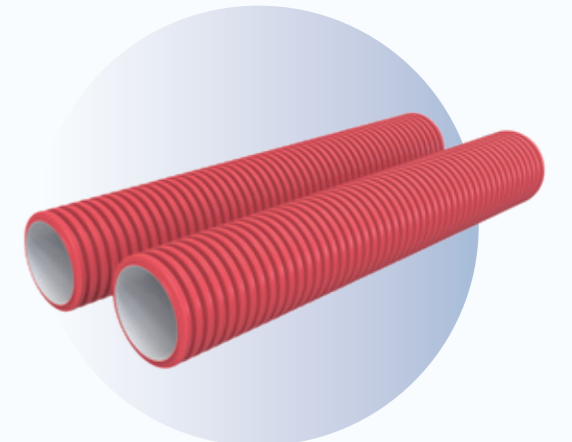
Residential buildings, villas, offices, restaurants, bars, hotels, etc.

POLYGON PE Flexible Corrugated Circular Pipe

China Red ●

Insulated for noise reduction, light sound of air supply, light weight and sturdy.

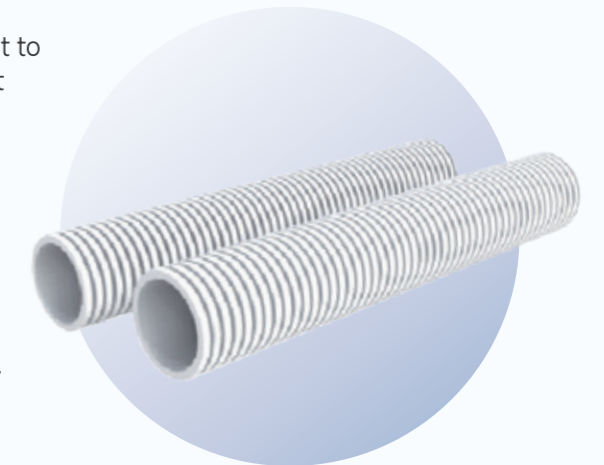
- Smooth airflow
- Insulated for noise reduction
- Sterile and environmentally friendly
- High aesthetic value



Moon White ○

Enhanced with anti-mold and anti-static properties, resistant to molding in humid environments and dust accumulation dust accumulation in dry environments, effectively preventing secondary pollution.

- Dual protection
- Efficient airflow
- Insulated for noise reduction
- High-quality and environmentally friendly
- Flexible and sturdy



Specifications

POLYGON PE Corrugated Round Pipe Specifications				
Sky Blue PE-HD Fresh Air Flexible Corrugated Round Pipe -Environmentally Friendly	China Red PE-HD Fresh Air Flexible Corrugated Round Pipe -Environmentally Friendly	Elegant Gray PE-HD Fresh Air Flexible Corrugated Round Pipe -Flame Retardant	Elegant Gray PE-HD Fresh Air Flexible Corrugated Round Pipe -Antibacterial	Moon White PE-HD Fresh Air Flexible Corrugated Round Pipe -Antibacterial
DN75(50m)	DN75(50m)	DN63(50m)	DN63(50m)	DN75(50m)
DN90(40m)		DN75(50m)	DN75(50m)	DN90(40m)
DN110(20m)		DN90(40m)	DN90(40m)	DN110(30m)
DN110(30m)		DN110(30m)	DN110(20m)	
DN160(2m)		DN110(40m)	DN110(30m)	
DN160(3m)		DN160(2m)	DN160(2m)	
DN200(3m)			DN160(3m)	

POLYGON Fresh Air Flexible Corrugated Round Pipe Accessories



Corrugated Pipe Coupling

DN75 DN90 DN110 DN160 DN200



Corrugated Pipe Coupling
- With Air Valve

DN75



Corrugated Pipe Reducer

DN110/DN75 DN160/DN110 DN200/DN160



Corrugated Pipe Elbow

DN75 DN90 DN110 DN160 DN200



Corrugated Pipe Y-Type Tee

DN110/DN75 DN160/DN110 DN200/DN160



Corrugated Pipe Y-Type Tee
- With Air Valve

DN110/DN75 DN160/DN110



Corrugated Pipe Equal-Diameter
Oblique Tee

DN75 DN110 DN160



Corrugated Pipe
Reducing Oblique Tee

DN110/DN75/DN110 DN160/DN110/DN160
DN200/DN160/DN200



Corrugated Pipe Equal-Diameter
Tee - with Air Valve

DN110



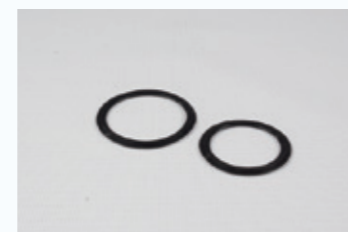
Corrugated Pipe Reducing Coupling

DN90/2-DN63



Seal Ring - EPDM - Flange Air Outlet

DN100 DN125 DN160 DN180



Seal Ring - EPDM -
Fresh Air Corrugated Round Pipe

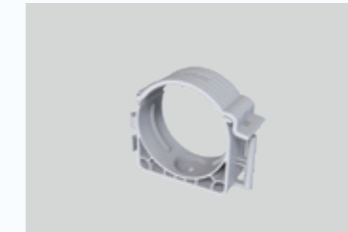
φ63 φ75 φ90 φ110 φ160 φ200

POLYGON Fresh Air Flexible Corrugated Round Pipe Accessories



SUS201 Corrugated Pipe Clamp

DN63(0.35mm) DN75(0.35mm) DN90(0.35mm)



Gray New Type Corrugated
Round Pipe Clamp - Type II

DN63 DN75 DN90 DN110 DN160 DN200



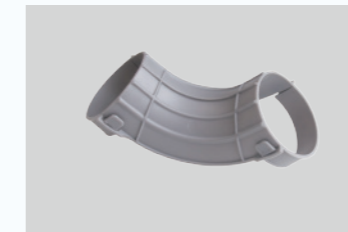
Gray Insulated Round Pipe Clamp

DN75/DN110 (General)



Corrugated Pipe Quick-Insert
Coupling

DN63



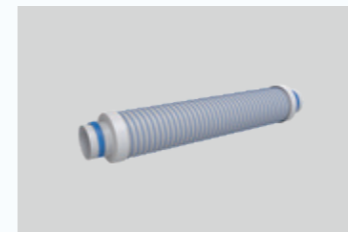
Corrugated Pipe Elbow

DN75



New Type Corrugated Pipe Cutter

DN63 DN75 DN90



End Silencing Pipe - Type II

DN75 DN90



ABS Fresh Air Distributor Plug

General



Direct Distributor - New Type

DN63 DN75 DN90

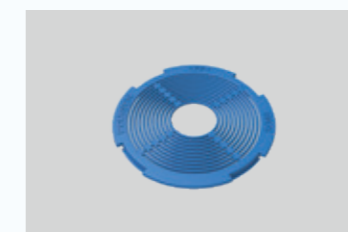
*Only suitable for EPP fresh air diffusers and sheet metal fresh air diffusers



ABS Direct Distributor

DN63 DN75 DN90

*Only suitable for ABS fresh air diffusers



Blue Simple Air Volume Balancing
Valve - for Corrugated Round Pipe

DN63 DN75 DN90



**POLYGON PE
Fresh Air Shield Pipe**

High Airflow, Small Size

POLYGON PE Fresh Air Tunnel Pipe

Product Advantages

Tunnel Advantages

The unique tunnel structure delivers superior pressure resistance, minimizing ground pressure and making it an ideal choice for underground air duct installations.

High-quality and environmentally friendly

Made from high-density PE-HD using extrusion molding, this pipe eliminates the need for adhesive bonding (unlike traditional PVC ducts), resulting in enhanced safety, better eco-friendliness, and a longer service life.

Dual protection

Integrated anti-mold and anti-static components resist mold growth in humid conditions and dust buildup in dry environments, effectively preventing secondary contamination.

Insulation and noise reduction

Double-wall hollow structure reduces noise and provides insulation.

Flexible and sturdy

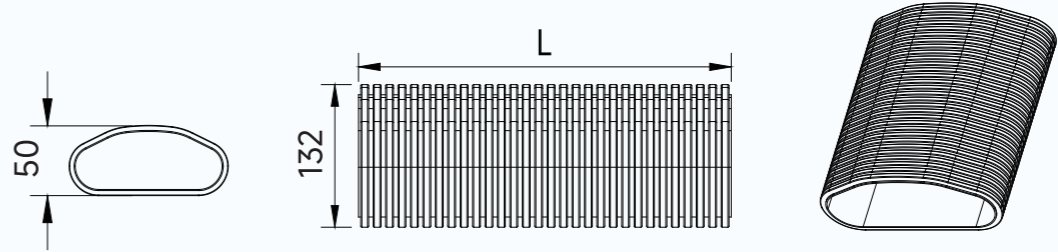
Corrugated construction is highly flexible and bendable, preventing air leakage along the pipe, while delivering a high compression resistance of up to 7kN/m².

Efficient air delivery

The smooth inner wall minimizes air resistance, and the quick plug-in connection prevents air leakage, enabling efficient airflow and easy maintenance and cleaning.

Specifications

Model	Outer Diameter	Inner Diameter
132×52 (20m×2)	132×50	122×41



Polygon PE Fresh Air Tunnel Pipe features a low height, superior pressure resistance, and flexibility to navigate over beams, making it suitable for both overhead and underground air duct applications. low floor height, more pressure-resistant, flexible over beams, suitable for both top and underground air ducts.

POLYGON PE Fresh Air Tunnel Pipe

Applications



Fresh Air Corrugated Tunnel Pipe Fittings



Light Gray PE-HD Fresh Air Flexible Corrugated Tunnel Pipe - Antibacterial

132x52 (40m)



Air Volume Distribution Box of Tunnel Flat Pipe-5 port

5-132x52/2-163x68



Air Volume Distribution Box of Tunnel Flat Pipe-4 port

4-132x52/1-163x68



Tunnel Pipe Rotating Joint

132x52



Tunnel Pipe Vertical 90° Elbow

132x52



Tunnel Pipe Horizontal 90° Elbow

132x52



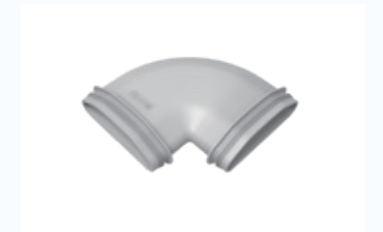
Tunnel Pipe Sealing Connector -Type II

132x52



Tunnel Pipe Sealing Transition Joint

132x52



ABS Tunnel Pipe Horizontal 90° Elbow

132x52



ABS Tunnel Pipe Vertical 90° Elbow

132x52



ABS Tunnel Pipe Horizontal Circular Transition Joint

132x52/DN75 132x52/DN90



ABS Tunnel Pipe Horizontal Circular Transition Joint

132x52/DN75 132x52/DN90

Fresh Air Corrugated Tunnel Pipe Fittings



Internal Insert Tunnel Pipe-to-Circular Pipe Horizontal Transition Joint

132×52/DN75 132×52/DN90



External Insert Tunnel Pipe-to-Circular Pipe Horizontal Transition Joint

132×52/DN90



Internal Insert Tunnel Pipe Circular Pipe 90° Transition Joint

132×52/DN75 132×52/DN90



Tunnel Pipe Horizontal Indoor Air Outlet Adapter

132×52/DN125



Tunnel Pipe 90° Square Grille Bearing Port

132×52



Tunnel Pipe 90° Indoor Air Outlet Adapter

132×52/DN125



Tunnel Flat Pipe Air Volume Adjusting Valve

132×52



Tunnel Louver Air Valve

132×52



Tunnel Pipe Plug

132×52



Tunnel Pipe Plastic Pipe Clamp

132×52



Tunnel Pipe Metal Pipe Clamp - Type II

132×52



Seal Joint - Tunnel Pipe Sheet Metal Distributor Use

132×52

Fresh Air ABS oval tubes and accessories



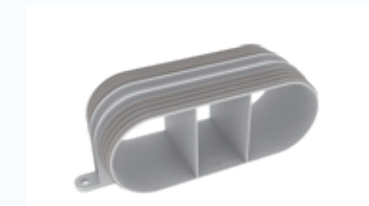
ABS Oval Pipe

163×68 (1.2m)



Oval Pipe Horizontal 90° Elbow

163×68



Oval Pipe Sealing Connector

163×68



Circular-to-Oval Pipe Horizontal Transition Joint

DN125-163×68



Circular-to-Oval Pipe Horizontal Transition Joint

DN160/2-163×68



Oval Pipe Vertical 90° Elbow

163×68

POLYGON Aperture Air Valve

Control Air Like Controlling Light

Airtight | Precise | Focused

POLYGON Aperture Air Valve

Q: How does the fresh air system control the airflow at each outlet?

A: By controlling the aperture—just like a camera lens controls light

Inspired by the aperture of a camera, the design allows adjusting the airflow precisely by sliding the knob to make the blades concentrically contract, reducing the ventilation area.

Product Advantages

Ultrasonic Technology

Uses ultrasonic welding for a seamless, airtight structure. Airtight that is stable, durable, and safe for indoor air quality.

Carefully Selected Materials

Selects high-quality ABS pure new material, healthy and reliable, quality guaranteed.

Adjustable at Will

Can be adjusted freely during the installation and commissioning stage, allowing precise control of the airflow at each outlet.

Ten-level Adjustment, Smooth and Unobstructed

More stable, more precise, no air leakage, no obstruction in the middle, reducing air loss, reducing dust accumulation.



Maximum Gear

Minimum Gear



Max ◀ 9876543210 ▶ Min



Aperture Air Valve
- Sheet Metal Distributor Use

DN75 DN90 DN110



Aperture Air Valve
- ABS Distributor Use

DN75 DN90

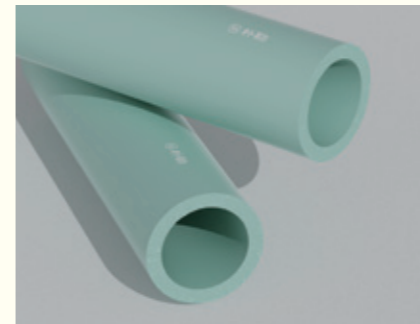
Polygon

Fearless of Rain and Snow Insulated and Antibacterial

Sky Blue Fresh Air Flexible Insulated Round Pipe

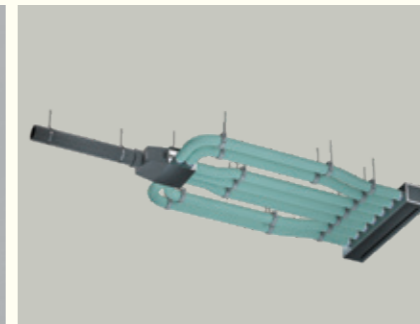
- 
 Soundproofing and
Noise Reduction
- 
 Healthy and
environmentally
friendly
- 
 Flexible
Installation
- 
 Mold-proof and
Antibacterial
- 
 Insulation and
Anti-condensation

Sky Blue Fresh Air Flexible Insulated Round Pipe



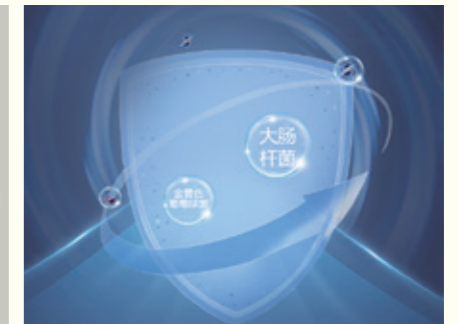
Soundproofing and Noise Reduction

The outer insulation cotton is thick, dense, shock-absorbing, and noise-reducing, providing a quiet and comfortable environment.



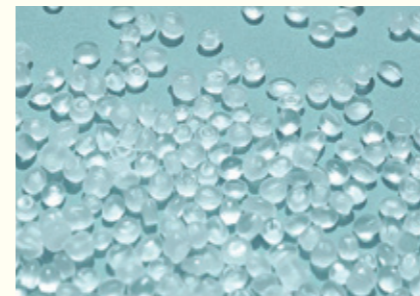
Flexible Installation

Corrugated structure, flexible and bendable, easy to bend during installation, efficient and labor-saving.



Mold-proof and Antibacterial

The pipeline contains silver ion components, which inhibit the growth of mold and bacteria. Raw materials added with antistatic masterbatch reduce secondary pollution.



Healthy and environmentally friendly

The pipeline adopts high-quality PE-HD material, odorless, environmentally friendly, and safe. Resistant to acetic acid corrosion, safe and environmentally friendly.



Insulation and Anti-condensation

B1-grade flame-retardant rubber-plastic insulation pipe, fireproof and flame-retardant, moisture-proof and anti-condensation.

Product Parameters

Specifications	DN75	DN110
Material	PE-HD	PE-HD
Inner Diameter	63mm	98mm
Outer Diameter	75mm	110mm
Insulation Thickness	16mm	18mm

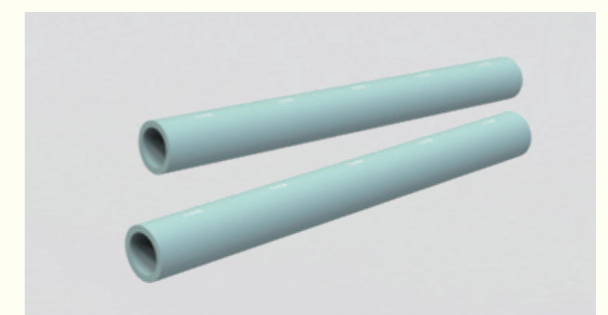
Application : Suitable for all-air air conditioning, environmental control units, ventilation systems with insulation requirements



EPP Fresh Air Insulation Distributor

Can be matched with EPP Fresh Air Insulation Distributor, EPP material for insulation and shock absorption, aluminum foil rubber-plastic insulation cotton added in the inner layer, making the system connection more secure!

PDB125-8 PDB160-14 PDB160-17



Insulation Sleeve - Sky Blue - Polygon

B1 flame retardant, safe and reliable; can be wrapped around the air duct to prevent moisture, insulation, and condensation.

72×16×1000 105×18×1000



Multi-opening design

Split design, easy disassembly, easy for maintenance



Pressure balance

Balances pressure, distributes fresh air reasonably



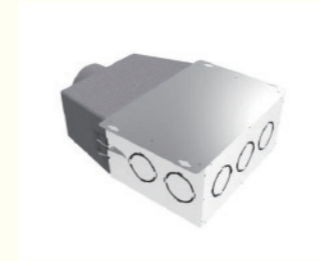
Humanized design

Made of galvanized steel plate, with sound-absorbing layer inside, humanized design with side inspection port



Fresh Air *Fresh*
Purification Box

Fresh Air Purification Box



EPP Fresh Air Distributor

Split design, upper part made of EPP material for noise reduction, lower part made of sheet metal with internal insulation cotton lining, multi-opening split design, easy disassembly, easy maintenance, flexible installation.

PDB160-14 PDB125-7 PDB160-12



Sheet Metal Fresh Air Distributor

Made of sheet metal, sturdy and fireproof, safe and reliable; with internal insulation cotton lining, multi-opening design, flexible installation, easy disassembly, easy maintenance.

PDB160-6 (DN110) PDB200-6 (DN110) PDB160-14 PDB200-14



ABS Fresh Air Distributor

Available in 7-port and 8-port models (7-port is smaller in size). Made from virgin ABS for high strength, lightweight durability, and long service life. Internal acoustic insulation reduces noise. Dual inspection covers enable easy cleaning and maintenance. Streamlined duct lowers air resistance for uniform airflow. Gasket-sealed interfaces minimize air leakage. Compatible with DN63, DN75, DN90 PE corrugated pipes.

PDB160-7 PDB160-8

Low Resistance Sleek Elegance

Pearlescent Silver
Stainless Steel Spherical
External Air Outlet

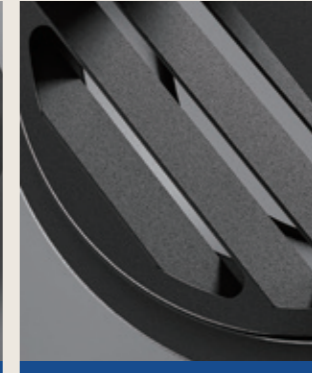


● Pearlescent Silver Stainless Steel Spherical External Air Outlet

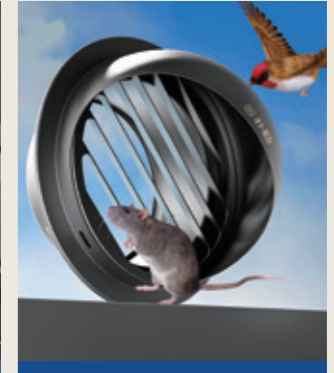
PRODUCT FEATURES



PREMIUM 304
CORROSION-RESISTANT
AND RUST-PROOF



LARGE AIRFLOW
LOW RESISTANCE



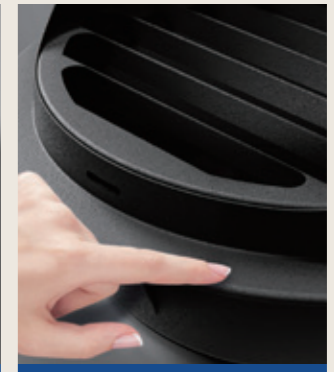
BIRD AND RODENT-PROOF
NOT EASILY BLOCKED



TRIANGLE RING BUCKLE
QUICK AND FIRM



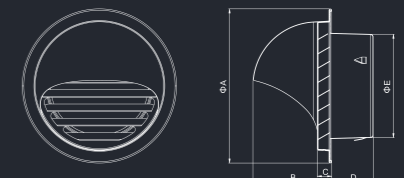
OVERFLOW DESIGN
FEARLESS OF RAIN BACKFLOW



QUALITY GUARANTEED
BEAUTIFUL AND NON-PEELING

TECHNICAL PARAMETER

Specifications	φA	B	C	D	φE	Suitable
PSS-110S	145	70	15	42	105	EPP round pipe
PSS-160S	188	83	20	50	155	
PSS-100S	145	70	15	42	95	Corrugated round pipe
PSS-140S	188	83	20	50	137	



Fresh air *Fresh* indoor air outlet



Ventilation
and air exchange



Independent and
detachable



Versatile
appearance



Environmentally
friendly material



Flexible
installation



Anti-aging

Polygon New Air Indoor Air Outlet



Ivory White ABS Supply and Exhaust Air Outlet Kit

Carefully crafted from ABS, ensuring safety, environmental protection, and long-lasting aesthetics without discoloration. Equipped with standard filter cotton to prevent mosquitoes and insects. The panel and cover can be separated for easy cleaning and replacement of the filter cotton.

DN100 DN125



Pearl white air inlet - diffuser

Made of pure new ABS material, environmentally friendly and moisture-proof; easy and stable installation; adjust the air volume by rotating the middle disc without blocking, according to personal preference; intricate star pattern, aesthetically pleasing.

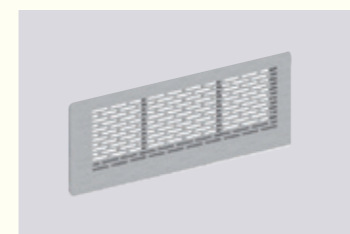
PP75/C PP100/C



Pearl White Air Supply Outlet - Diffusion

Pure new ABS material, environmentally friendly and moisture-proof; easy and sturdy installation; built-in filter, mosquitoes and dust are all blocked, detachable for cleaning; straight louver design, low resistance, reducing air loss.

PP75/C PP100/C



Rectangular Stainless Steel Indoor
Air Outlet for Tunnel Flat Pipe

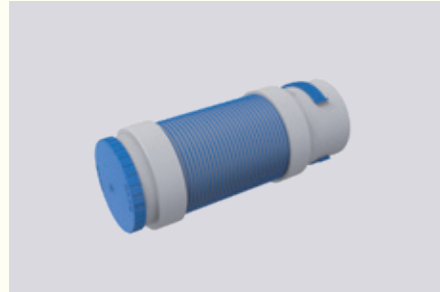
150×130



Filter for Flat Pipe Stainless
Steel Rectangular Indoor Air Outlet

G3

Polygon New Air Indoor Air Outlet



Indoor Air Outlet Adapter - Type II

The main body is made of PP+TPE material, healthy and environmentally friendly; low internal air resistance; universal bending and stretching, convenient installation; standard with dust cover to protect the system from secondary pollution.

DN63-75 DN75-75 DN75-100 DN90-100 DN110-100



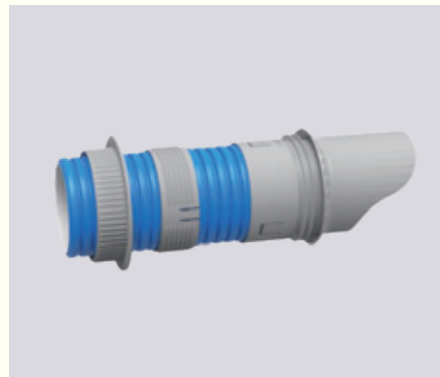
Indoor Air Outlet Adapter

One end connects to the corrugated round pipe, and the other end connects to the end indoor air outlet, which can be widely used for air supply or exhaust and can be installed on walls, floors, or ceilings.

Double-port adapter: two corrugated round pipes connect to one adapter.
Single-port adapter: one corrugated round pipe connects to one adapter.



Product Name	Specifications
Indoor Air Outlet Adapter	DN 125-2×DN75
	DN 125-2×DN90
	DN 100-1×DN63
	DN 125-1×DN75
	DN 125-1×DN90



Gray One-Piece Through-Wall External Air Outlet

Tool-Free Indoor Installation: One-piece design for quick, safe setup — no high-altitude work or extra tools needed.

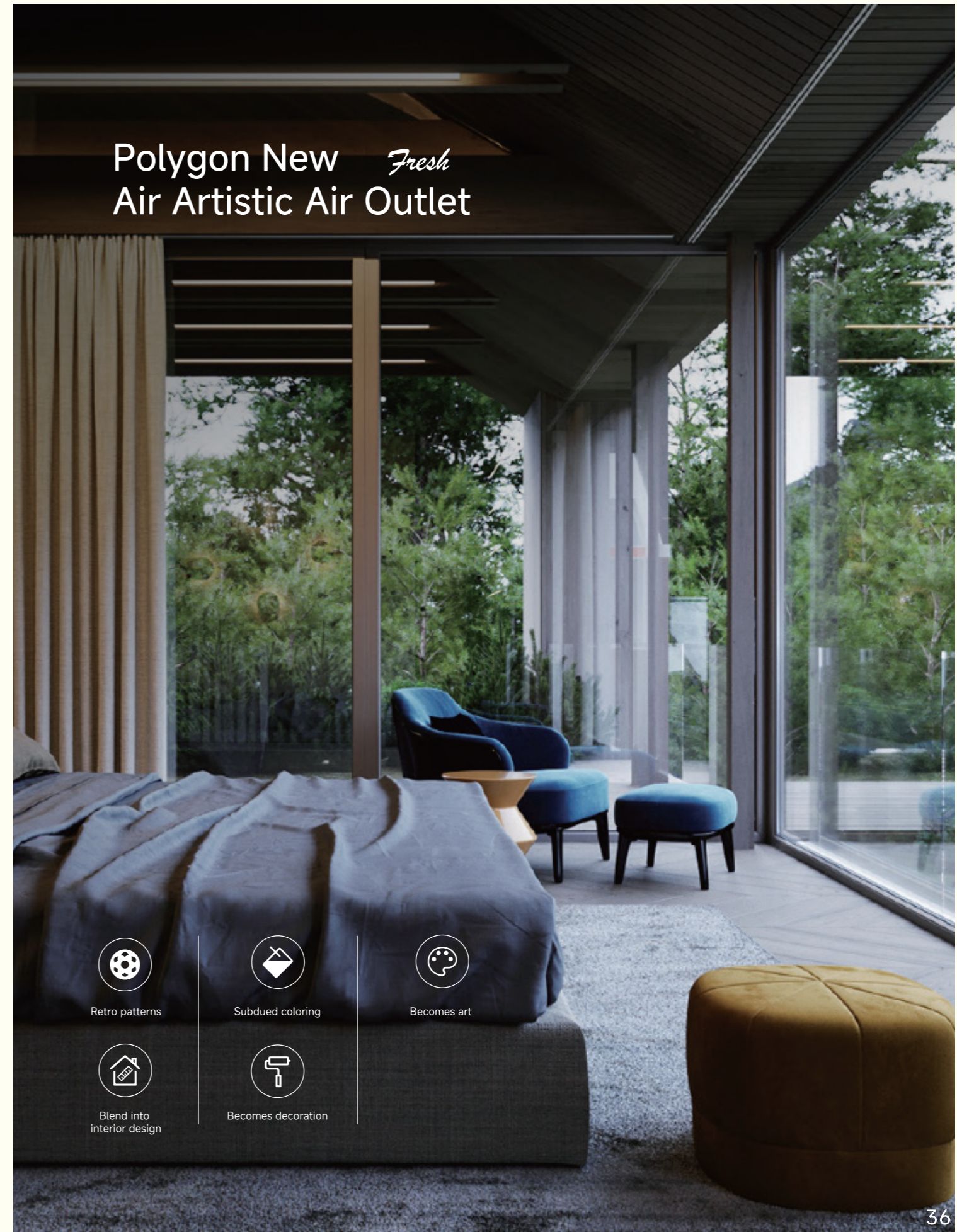
Premium&Durable Material : Made of ASA & TPE for corrosion, UV, and water resistance, with a long lifespan.

All-Round Protection: Grille blocks birds/insects; drain holes prevent rain backflow.

Max Airflow Efficiency: Straight-pipe design delivers more airflow with less resistance.

Flexible Connection & Rotation:Seamlessly links to HD-PE pipes; 360° rotatable fitting for space-saving, tool-free adjustment.

DN75 DN110



- Retro patterns
- Subdued coloring
- Becomes art
- Blend into interior design
- Becomes decoration

New style art outlet

Square artistic air vent



Product Name	Ivory White Full Air Outlet - Retro Type
Specifications	PM125F/Q
Material Number	1420M0630-023



Product Name	Pearl Black Metal Air Outlet - Retro Type
Specifications	PM125F/Q
Material Number	142040530-024



Product Name	Coffee Crop Metal Air Outlet - Retro Type
Specifications	PM125F/Q
Material Number	142040630-025



Product Name	Ivory White Metal Air Outlet - Fashion Type
Specifications	PM125FMQ
Material Number	142040530-026



Product Name	Pearl Black Full Air Outlet - Fashion Type
Specifications	PM125F/Q
Material Number	142040630-027



Product Name	Coffee Brown Metal Air Outlet - Fashion Type
Specifications	PM125F/Q
Material Number	142040630-028



Product Name	Ivory White Metal Air Outlet - Simple Type
Specifications	PM125F/Q
Material Number	1420440630-019



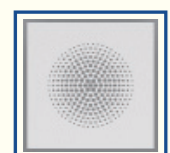
Product Name	Pearl Fruit Metal Air Outlet - Simple Type
Specifications	PM125F/Q
Material Number	142040630-020



Product Name	Coffee Brown Metal Air Outlet - Simple Type
Specifications	PM125F/Q
Material Number	142040630-021



Product Name	Silky Silver Metal Air Outlet - Simple Type
Specifications	PM125FIQ
Material Number	142040630-022



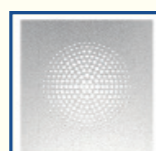
Product Name	Collection Ivory White Metal Air Outlet - Elegant Type
Specifications	PM125F/Q
Material Number	142040630-029



Product Name	Pearl Black Metal Air Outlet - Elegant Type
Specifications	PM125F/Q
Material Number	142040630-030



Product Name	Coffee Brown Metal Air Outlet - Elegant Type
Specifications	PM125F/Q
Material Number	1420440630-031



Product Name	Controlled Silver Metal Air Outlet - Elegant Type
Specifications	PM125FMQ
Material Number	142040630-032

New style art outlet

Rectangular artistic air vent



Product Name	Ivory White Full Air Outlet - Simple Type
Specifications	PM132x52MR Material
Material Number	142040530-033



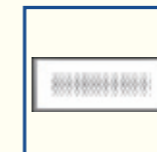
Product Name	Matte Black Metal Phoenix Mouth - Minimalist Type
Specifications	PM132x52FR
Material Number	142040630-034



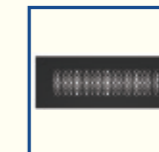
Product Name	Coffee Brown Metal Air Outlet - Compact Type
Specifications	PM132x52F/R Material
Material Number	142040630-035



Product Name	Brushed Tin Metal Gankou - Portuguese Type
Specifications	PM132x52F Wave
Material Number	142040630-036



Product Name	Ivory White Metal Air Outlet - Elegant Type
Specifications	PM132x52FR Material
Material Number	142040530-043



Product Name	Matte Fruit Metal Air Outlet - Elegant Type
Specifications	PM132x52FR
Material Number	142040630-044



Product Name	Coffee Brown Metal Phoenix Mouth - Pizzazz Type
Specifications	PM132X52F/R
Material Number	142040630-045



Product Name	Brushed Tin Metal Gankou - Elegant Type
Specifications	PM132X52F Ni
Material Number	1420M0630-046



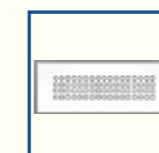
Product Name	Ivory White Metal Phoenix Mouth - Retro Type
Specifications	PM132X52Ten Thousand R
Material Number	142040630-037



Product Name	Matte Black Metal Phoenix Mouth - Retro Type
Specifications	PM132x52FR Science
Material Number	142040630-038



Product Name	Coffee Brown Metal Phoenix Mouth - Retro Type
Specifications	PM132X52Monthly R
Material Number	142040630-039



Product Name	Ivory White Metal Air Outlet - Fashion Type
Specifications	PM132X52FR
Material Number	142040630-040



Product Name	Matte Fruit Metal Phoenix Mouth - Fashion Type
Specifications	PM132x52
Material Number	142040630-041



Product Name	Coffee Chaff Metal Phoenix Mouth - Fashion Type
Specifications	PM132x52R
Material Number	142040630-042

Healthy Whole House Fresh Air System



● Excellence

Striving for perfection, precise airflow control

● Tranquility

Infinite serenity, immersed enjoyment

7 Seven Major Production Bases at Headquarters

Shanghai, Zhejiang, Chongqing, Henan, Hunan, Tianjin, Guangdong

Efficient Production

Automation of production lines; Management, logistics informationization; Currently, one of the few manufacturers in China with shield tunneling pipe production lines

Strict Testing

Raw materials undergo the "three inspections" system; Certified through ISO 9001 management system

VIP Member Unit of Association

China Building Metal Structure Association promotes the overall rate of fresh air and clean water separation

CNAS CNAS Laboratory

Internationally recognized, ensuring quality

System Advantages

One-stop supply of new BES series products, convenient and guaranteed

保 Effect Guarantee

Equipped with professional airflow network test benches, able to test airflow volume, static pressure, wave resistance, color rendering, and other parameters to ensure the effectiveness of the system

Industry Honors

Ranked among the top ten brands trusted by consumers, highlighting contributions to practicality, social responsibility, and implementation of the actual situation