



PRODUCT CATALOG

Plan fresh and clean air in your home!



reQnet

COMPANY HISTORY

PE-FLEX® is a Polish manufacturer of a complete mechanical ventilation system with heat recovery, designed for single-family houses. Our product range includes both **pipes, plenum and manifold boxes, anemostats, air intakes and outlets, but also many other accessories.**

As the first in Poland in 2009 we introduced to the market **double-walled, corrugated PE-HD flex pipes** in the characteristic green color, which have become **the most popular pipes used in mechanical ventilation**, and the name „peflex” has become a common name for pipes of this type in ventilation. Since then, a lot has changed. Our range has grown significantly, giving customers a number of options, while providing the highest level of hygienic installation and comfort of use, and most importantly **fresh and clean** air in their homes.

It should also be noted that **PE-FLEX®** operates in the Group together with the **manufacturer of intelligent recuperators - reQnet company** and the **manufacturer of hydraulic cabinets and heat pumps - iZZiFAST company**. As a group we provide comprehensive solutions for energy-efficient homes, in the field of recuperation and heat pump heating.

Recuperators reQnet brand are well thought devices for mechanical ventilation systems in single family houses. Creating them we put a special emphasis on **comfort and simplicity of use** and ensuring the best ventilation parameters for the **health of household members.**



Mechanical ventilation PE-FLEX®

Modern mechanical ventilation through regular air exchange in the building, provides **high comfort** of living in rooms. An intelligent and efficient ventilation system guarantees fresh, clean and healthy air in detached houses.

Mechanical ventilation, or recuperation also has a huge impact on the energy efficiency of buildings. In modern, energy-efficient construction, an important issue is to **reduce energy losses**, and the recuperation system allows you to reduce the need for heat by up to **30%** in the entire heat balance. The **heat exchanger** used in the air handling unit ensures energy recovery and moisture recovery, which is important especially in winter.

Efficient recuperation **ensures an optimum level of carbon dioxide** in rooms by **providing fresh, filtered air, removing pollution, viruses, and dust from the premises.**

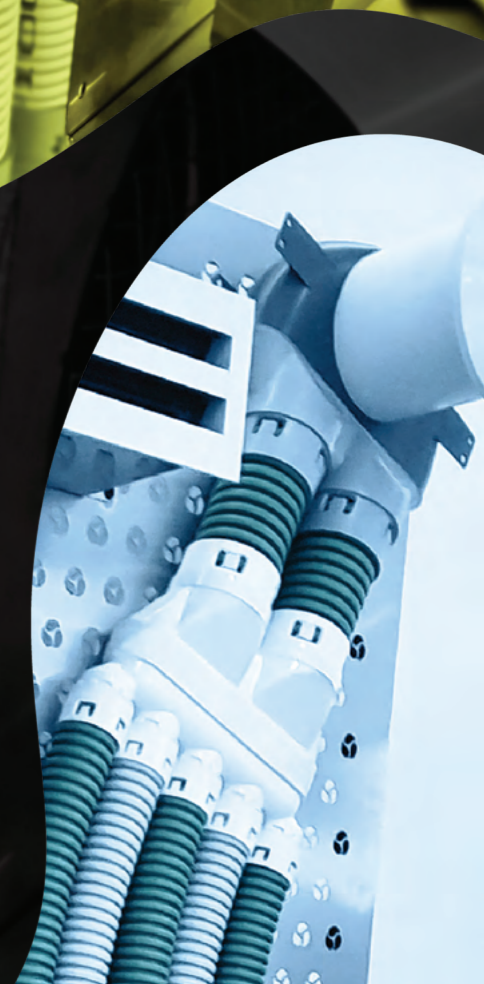
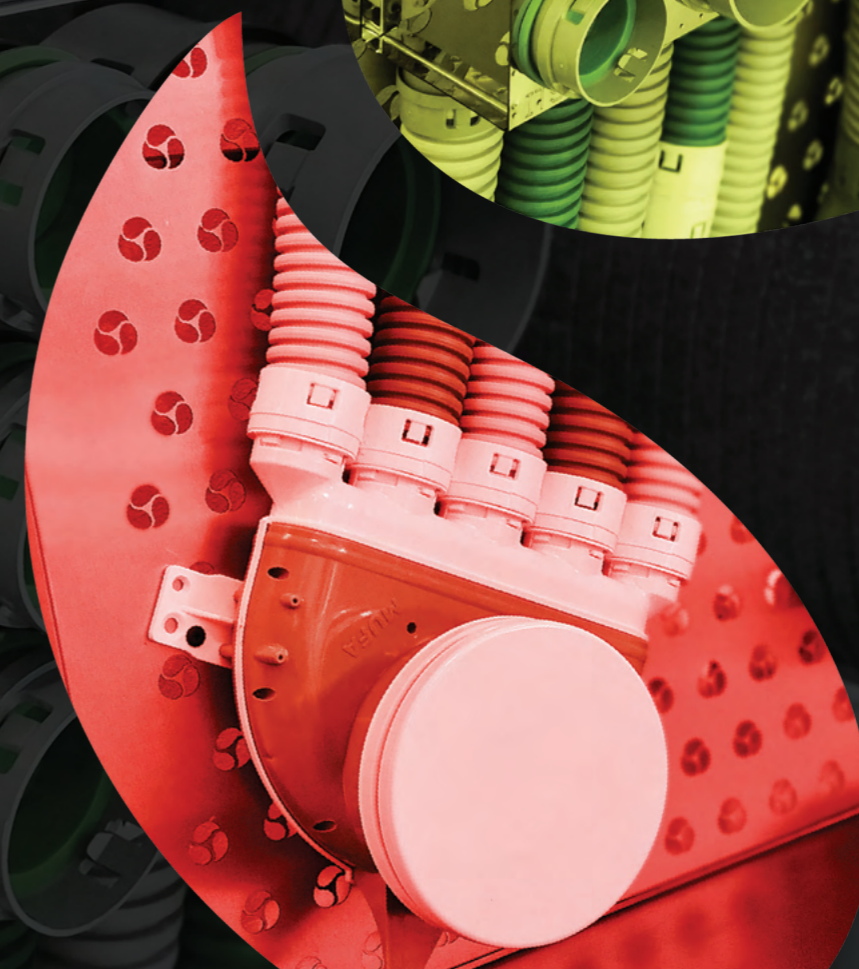
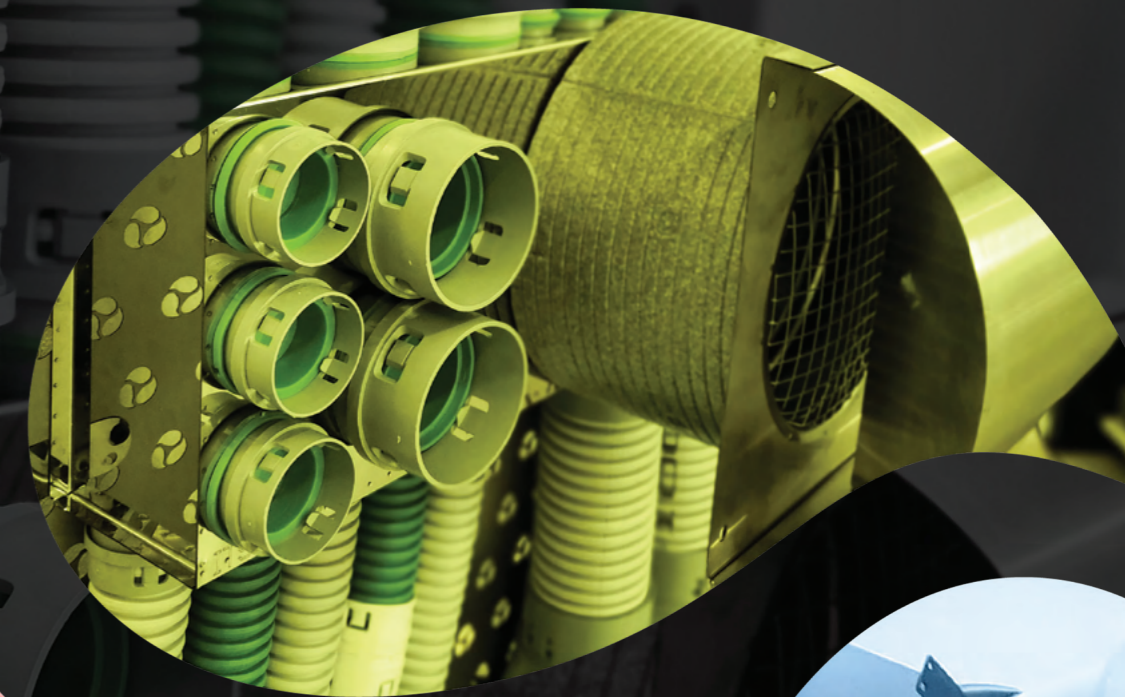
Advantages of mechanical ventilation

- Fresh and clean air all year round
- Optimal levels of carbon dioxide and humidity in the home
- Meeting the technical conditions of the building in accordance with WT 2021
- Filtration of intake air from allergens and smog
- Removal of used air from the house together with contaminants such as dust, viruses
- Energy recovery - supply air is heated by warm exhaust air
- Lower heating costs - savings of up to 50%.
- No need to open windows and associated heat losses
- Full control over the amount of exchanged air
- No need to build expensive and unsightly ventilation chimneys

Plan fresh and clean air in your home!



The most popular ventilation system on the market



Key features of the PE-FLEX® system



Flexibility and ease of configuration

The components of the system allow for any configuration of the system to best suit the building. **The components are compatible with each other** and designed to form a single, sealed ventilation system. **Different duct diameters** and different types and variants of **expansion and manifold boxes** can be used in a single system for the most efficient distribution of the installation.



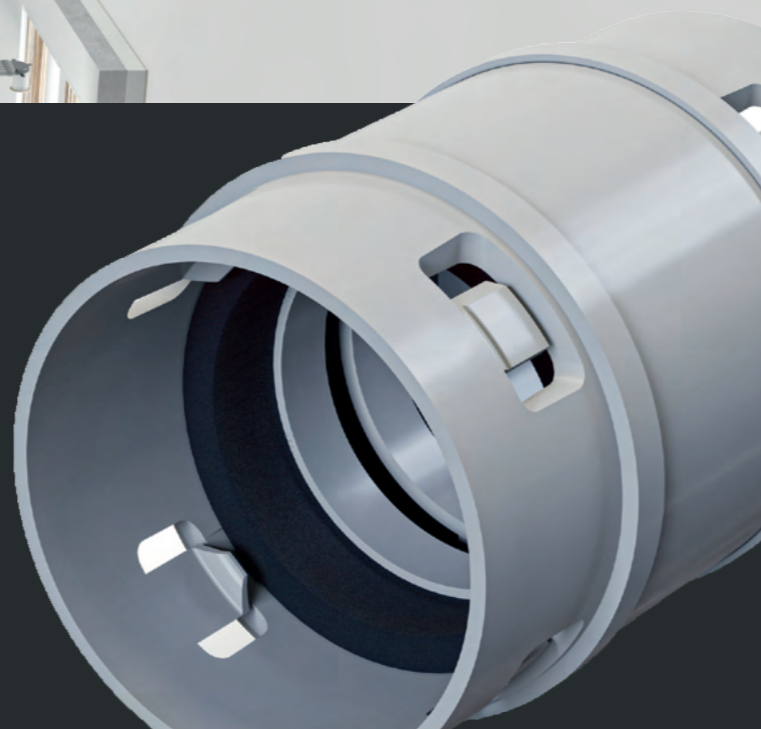
Biological protection

Used materials and additives provide **biological protection** of the ventilation system for the safety and health of users. The Spectra 1000 ventilation duct provides the **highest biological protection** of almost 100%. The inner layer of the duct has **antibacterial, antifungal and antistatic properties**, which additionally reduce the settlement of dirt - dust.

All elements of the system are certified hygienically by the National Institute of Public Health - National Institute of Hygiene.

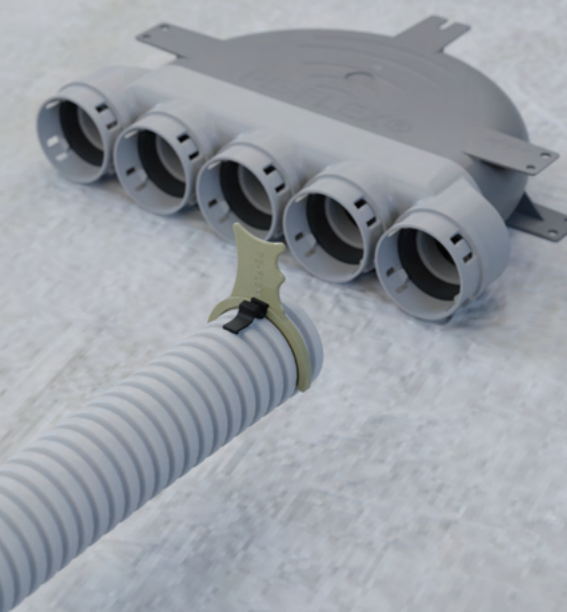
Easy and quick installation

The **CLICK coupler connection system** enables the ducts to be **quickly assembled** to system components such as manifold boxes, plenum boxes and couplers. The **CLICK coupler** enables **easy assembly and disassembly** of the ducts, and thanks to a built-in gasket there is no need for additional sealing of the connection. A dedicated **wire cutter** speeds up the assembly process.



Tightness

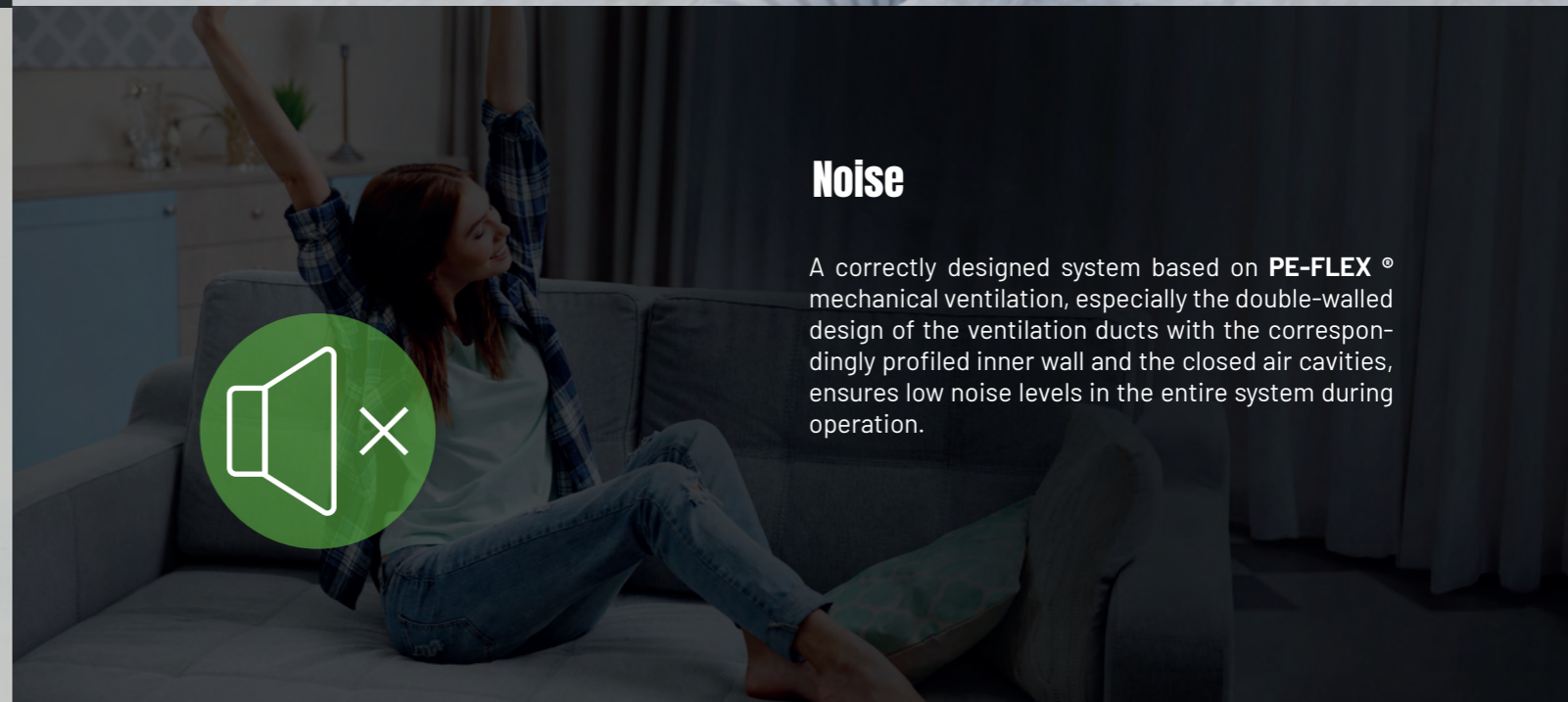
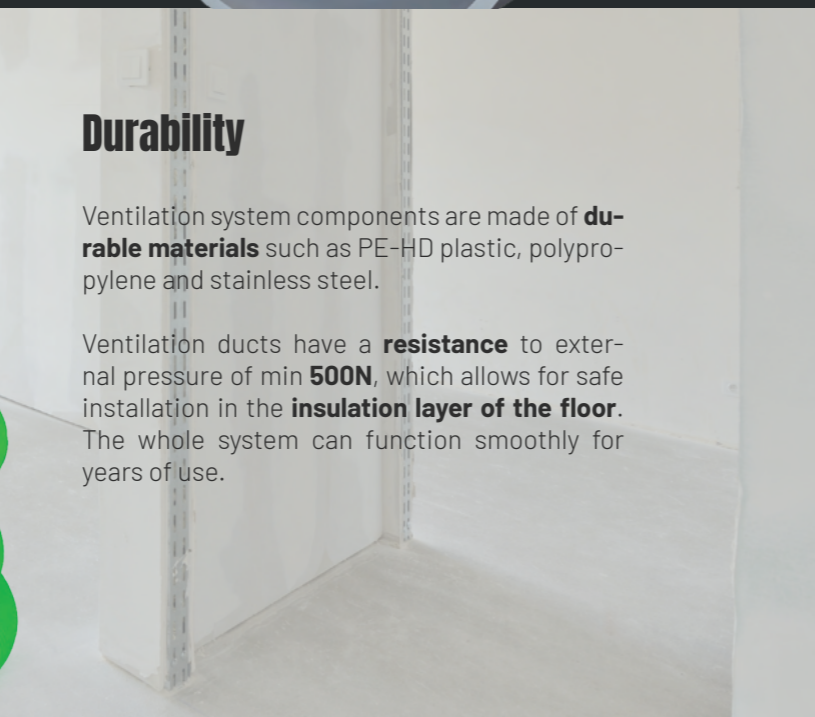
The **coupler on CLICK** is a system solution used in all elements requiring connection with **PE-FLEX®** pipe. The coupler has a **built-in inner gasket** that guarantees a tight connection and a dedicated knife for cutting the ducts, ensures the correct edge of the duct adhering to the gasket. PE-FLEX®-air ducts combined with our plenum boxes and distribution boxes provide a high degree of **airtightness** for the entire system (class „C“ according to EN 12237). PE-FLEX® air ducts have an airtightness class 0



Durability

Ventilation system components are made of **durable materials** such as PE-HD plastic, polypropylene and stainless steel.

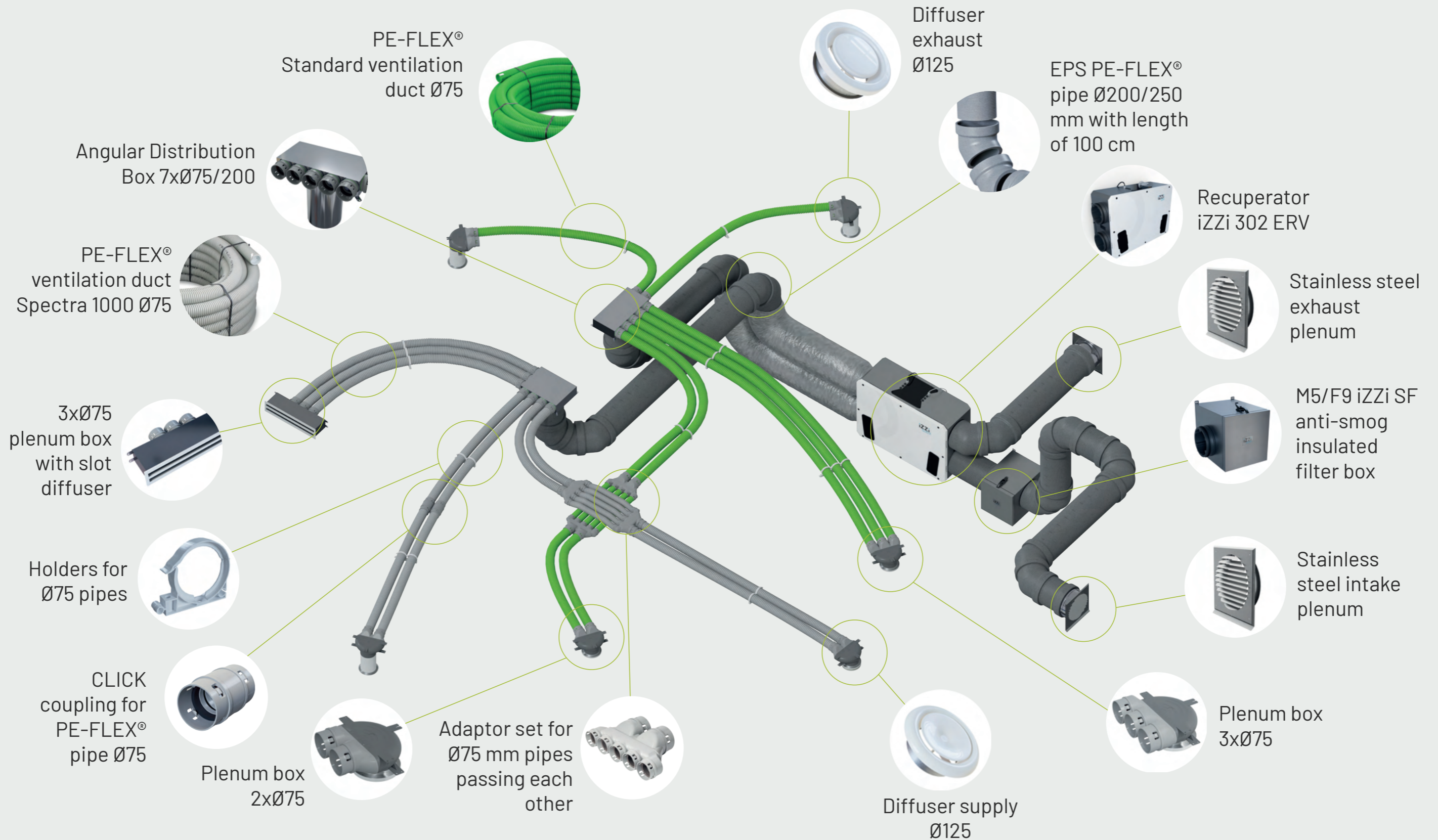
Ventilation ducts have a **resistance** to external pressure of min **500N**, which allows for safe installation in the **insulation layer of the floor**. The whole system can function smoothly for years of use.



Noise

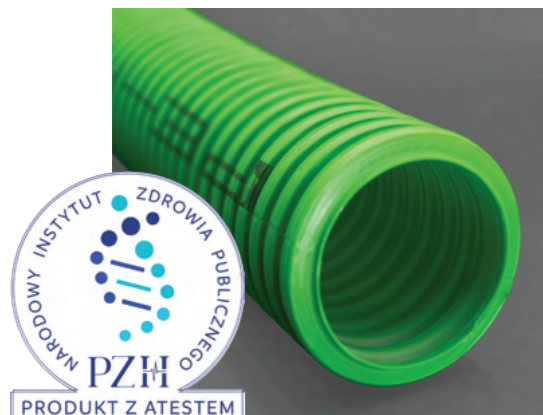
A correctly designed system based on **PE-FLEX®** mechanical ventilation, especially the double-walled design of the ventilation ducts with the correspondingly profiled inner wall and the closed air cavities, ensures low noise levels in the entire system during operation.

Plan fresh and clean air at home with our products!



PE-FLEX® Standard duct

Flexible corrugated ventilation duct, with **antibacterial and antifungal** smooth inner layer. Made of high-quality PE-HD plastic with external dimensions of Ø50, Ø75 lub Ø90.



The product has a hygienic certificate, issued by National Institute of Public Health



Key features

The internal layer has bacteriostatic and fungistatic additives, that inhibit the growth of any microorganisms on the internal surface of the pipe with **biocidal effectiveness up to 60%**.

Two-layer construction of pipes, provides **high durability** and allows for pouring the pipes into structural concrete or placing them in the layer of ceiling insulation.

High flexibility of the ducts, significantly facilitates the installation by free shaping, bending and leading the ducts without the need for additional fittings.

Pipes are fully **odorless**, so they do not emit any odor.

The inner layer has **antistatic** properties, which re-



High impact strength



Ag, Cu, +



Antifungal product



Antibacterial product



Antistatic

duces the settling and accumulation of dust in the tubes, and additionally the smooth surface facilitates cleaning.

The pipes have the **reaction to fire class D-s2,d2**.

The product has a hygienic certificate, issued by Polish National Institute of Public of Health.

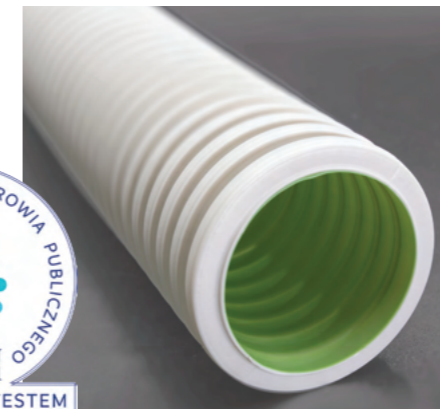
Type of pipe:	PE-FLEX® 50	PE-FLEX® 75	PE-FLEX® 90
Outer diameter [mm]	Ø50	Ø75	Ø90
Inner diameter [mm]	Ø40	Ø60	Ø75
Coil length [m]	100	50	40
Flow capacity [m ³ /h] at 3 m/s	12	30	45

PE-FLEX® SPECTRA 1000 duct

Flexible ventilation duct with a corrugated structure and **the best antibacterial and fungicidal properties**, up to almost 100%. Made of the **highest quality PE-HD** plastic with external dimensions of Ø50, Ø75 or Ø90 mm.



The product has a hygienic certificate, issued by National Institute of Public Health



Key features

Antibacterial and antifungal internal layer confirmed by certificates, with almost **100% biocidal efficiency**, protects ducts against colonization of unwanted and dangerous for humans microorganisms.

The two-layer construction of the ducts, ensures **high compression strength** and allows for pouring the pipes into structural concrete or placing them in the insulation layer of the ceiling.

The high flexibility of the ducts significantly facilitates the installation by free shaping, bending and routing of the ducts without the need for additional fittings.

The inner layer has **antistatic** properties, which reduces the settling and accumulation of dust in the tu-



High impact strength



Ag, Cu, +



Antifungal product



Antibacterial product



Antistatic



Spectra

bes, and additionally the smooth surface facilitates cleaning.

Pipes are fully **odorless**, so they do not emit any odor.

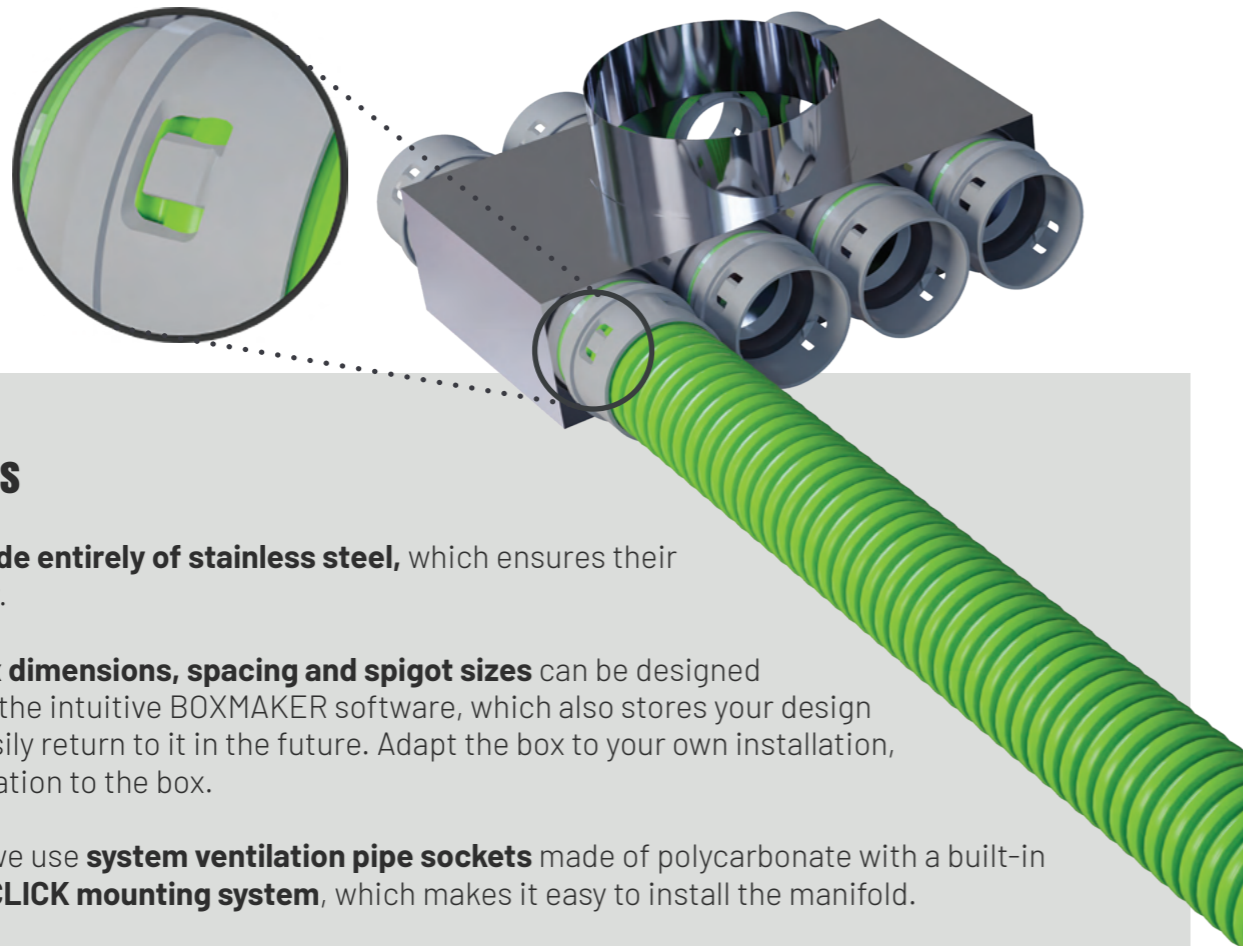
The pipes have the **reaction to fire class D-s2,d2**.

The product has a hygienic certificate, issued by Polish National Institute of Public of Health.

Type of pipe:	PE-FLEX® 50	PE-FLEX® 75	PE-FLEX® 90
Outer diameter [mm]	Ø50	Ø75	Ø90
Inner diameter [mm]	Ø40	Ø60	Ø75
Coil length [m]	100	50	40
Flow capacity [m ³ /h] at 3 m/s	12	30	45

BOXMAKER-manifold boxes

PE-FLEX® manifold boxes are **customized** and manufactured to individual order – they can have any dimensions and spigot arrangement. With **BOXMAKER**, you can design an individual box with a fast lead time. Optimally matched distributors, make it possible to build ventilation systems and connect recuperators **faster, easier and better**.



Key features

Boxes are made entirely of stainless steel, which ensures their long durability.

Individual box dimensions, spacing and spigot sizes can be designed individually in the intuitive BOXMAKER software, which also stores your design so you can easily return to it in the future. Adapt the box to your own installation, not the installation to the box.

In the boxes, we use **system ventilation pipe sockets** made of polycarbonate with a built-in gasket and a **CLICK mounting system**, which makes it easy to install the manifold.

The PE-FLEX® ventilation pipes connected to the plenum and manifold boxes provide a **high degree of airtightness** for the entire system.

The BOXMAKER program also makes it possible, to plan **mounting brackets** on any plane of the box.

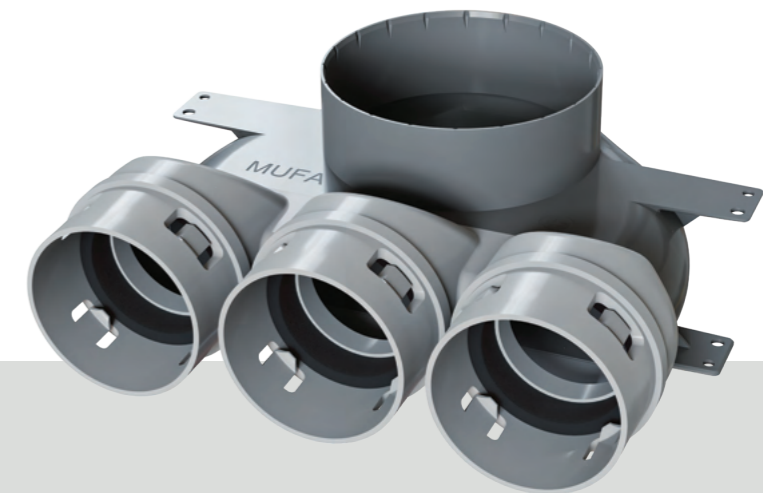
The refined production process for the boxes, **enables projects to be completed in just a few days**.

Hygienically certified by PZH.

Box dimension	Number and size of spigots	Main spigots	Type of box (angle, pass-through)	Mounting ears
Individually specified	to your choice	of type and size	to your choice	to your choice

Plastic plenum boxes

PE-FLEX® PLENUM boxes are used to connect flexible ducts to anemostats. They are made of polypropylene, have sockets with gaskets and are assembled using the **CLICK system**, and are available in various connection versions.



Key features

The boxes are made of **durable plastic**, which allows them to be placed in the insulation layer of the ceiling.

A wide range of box versions, makes it possible to mount the mechanical ventilation system both under the ceiling and directly on the ceiling.

The sockets in the boxes are made of polypropylene and have **pre-installed gaskets** and a **CLICK assembly system**, which greatly speeds up installation and guarantees a tight installation.

PE-FLEX® ventilation ducts connected to plenum boxes and manifold boxes, provide a **high degree of system tightness**.

Anemostats with a diameter of Ø125 mm can be **directly connected** by means of an anemostat frame inserted into the plenum box in the socket version, or by means of a plenum box extension in the nipple version.

Free holes in the box, **can be closed with dedicated plugs** to ensure a tight installation.

The boxes have convenient **mounting brackets**.

The product has a hygienic certificate, issued by Polish National Institute of Public Health.

Number of sockets in plenum boxes	2xØ75	3xØ75	2xØ90	5xØ50

All plastic boxes are offered in two versions:



- with Ø125 mm socket spigot , for direct connection of Ø125 mm diffuser frame



- with nipple spigot Ø123 mm enabling extension of the box stub with our extensions, flexible pipe or any pipe with diameter Ø125

Plastic plenum boxes 2xØ75, 3xØ75, 2xØ90 and 5xØ50 are additionally available in two variants:



- floor mounting - on-floor mounting

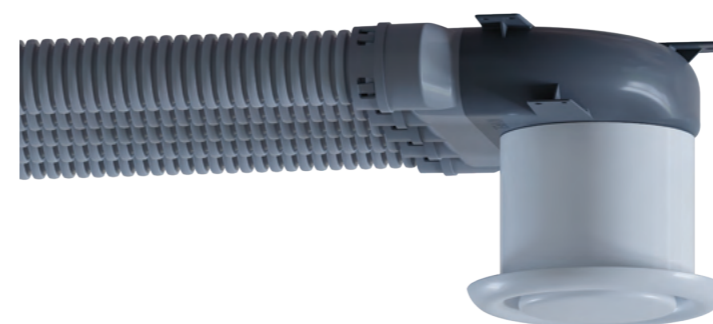


- ceiling mounting - under-ceiling mounting

Number of spigots in plenum boxes	2xØ75	3xØ75	2xØ90	5xØ50
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Plenum box extension

Plastic pipe for extending the connection of the PE-FLEX® plenum box to the diffuser frame. It is designed for boxes made of polypropylene (model 5xØ50, 2xØ75 and 3xØ75, 2xØ90).

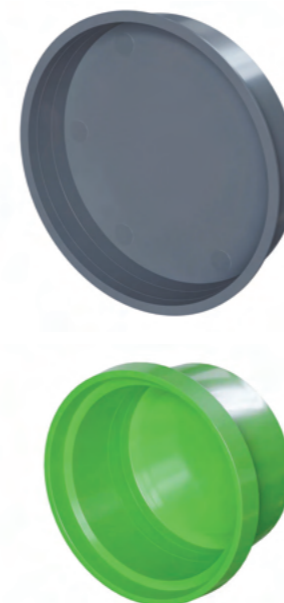


Key features

The extension is designed for nipple boxes with Ø123 mm spigot. It is suitable for direct mounting of the diffuser frame. **Available in different lengths:** from 10 to 150 cm. The product has a **hygienic certificate**, issued by Polish National Institute of Public Health.

Plastic plug

A plug made of PP plastic used to plug unused spigots in plenum boxes of various diameters. The plugs are matched to the diameter of the sockets and the diameter of the stubs for diffusers.



Key features

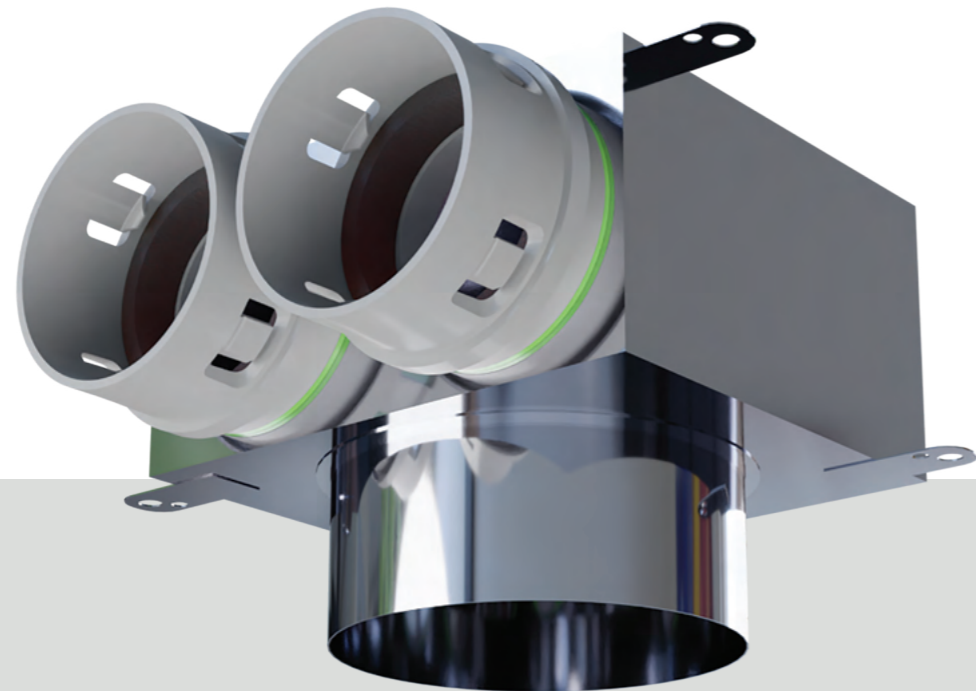
Plugs with diameters **Ø 50mm, Ø 75mm and Ø 90mm** are used to plug unused „CLICK” plastic sockets in plenum and distribution boxes.

Plugs of diameters **Ø 100mm, Ø 125mm, Ø 160mm, Ø 200mm and Ø 250mm** are used in plenum boxes to secure spigots for diffusers or in manifold boxes to secure spigots for ventilation ducts.

Simple push-fit assembly.

Stainless steel plenum boxes

Plenum boxes made of stainless steel have system **sockets** with a built-in gasket and **CLICK** assembly as well as spigots adapted for direct mounting of the diffuser frame. Available in different configurations connectors.



Key features

The plenum boxes are available with **two types of spigots** for the diffuser:

- with adaptation for independent extension of the stub pipe to the diffuser frame: flexible pipe, spiro pipe or plastic pipe
- adapted for direct connection to the diffuser frame

Boxes sockets are made of polypropylene and have a **factory-installed seals** and the **assembly system CLICK**, which significantly speeds up installation and guarantees a tight installation.

Spigots for anemostats are available in two variants: **socket and nipple**, and in three dia-

meters. Additionally, it is possible to extend them.

Depending on the location of the diffuser, the boxes are available **in three variants: angular, pass-through and directional.**

The PE-FLEX® ducts connected to the plenum and distribution boxes provide a **high level of airtightness** throughout the system.

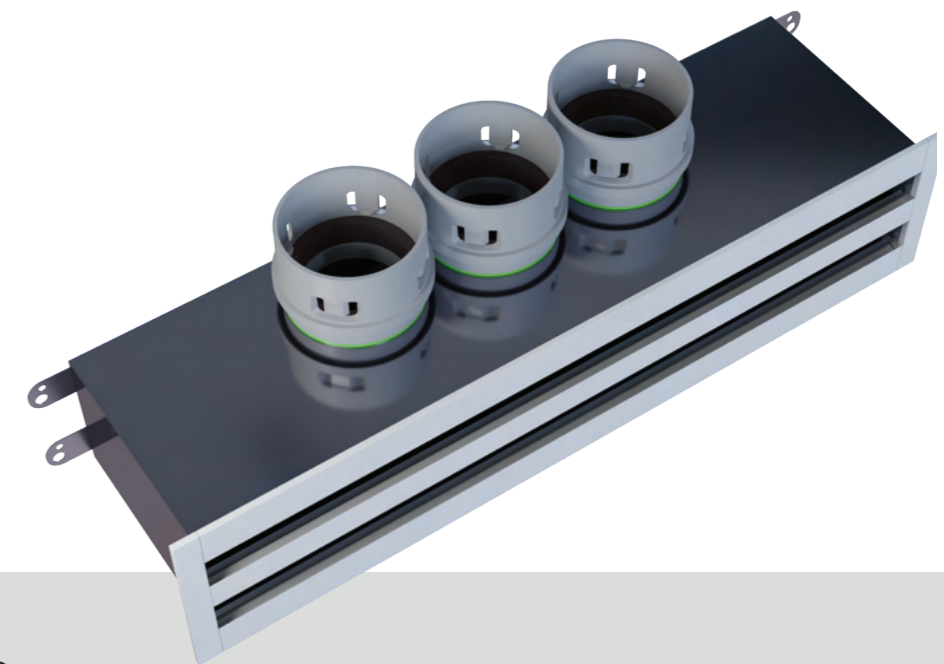
The boxes have a convenient mounting bracket.

The product has a hygienic certificate, issued by Polish National Institute of Public Health.

Duct size	Ø50	Ø75	Ø90
Number of spigots	1-6	1-3	1-3

Plenum box for slot diffusers

The stainless steel plenum box has a system **socket with a built-in seal and CLICK** assembly and is dedicated for slot diffusers. They are available in two versions: angled and pass-through.



Key features

The box is made entirely **of stainless steel**, which ensures its long-term durability.

Sockets in the box are made of polypropylene and have a **factory-installed seals** and the **assembly system CLICK**, which greatly speeds up installation and guarantees a tight installation.

Depending on the location of the slot diffuser, boxes are available **in two variants: angular and pass-through.**

Matching **PE-FLEX® slot diffuser.**

The boxes have convenient **mounting brackets.**

The product has a hygienic certificate, issued by Polish National Institute of Public Health.

Duct size	Ø50	Ø75
Numer of spigots	7	3 or 4

Slot diffuser

The linear slot diffuser is designed for air supply in ventilation **systems and is particularly suitable for** mounting on walls or vertical structures. Each slot is equipped with **independent blades** allowing for easy **change of direction** of the supplied air.



Key features

Allows you **to conveniently direct and adjust the airflow** in different directions.

Original and minimalist design makes it suitable for **modern interiors**.

Fitted with a PE-FLEX® plenum box, which ensures the tightness of the entire installation.

High airflow capacity up to 120m³/h.

Overall length	Internal length	Material	Color
530 mm	495 mm	aluminum + plastic	RAL 9016 white glossy

Adaptor set

A set of adapters (connectors) for non-collision crossing of ventilation ducts or crossing of ducts with other installations, which facilitates installation of ventilation system.



Key features

Complete set for making a duct crossing or crossing over installations, including: adapters, plugs, vent pipe.

The set makes it possible to **cross over PE-FLEX® flexible ventilation ducts**, without having to go over the polystyrene foam in the floor insulation.

It allows PE-FLEX® ventilation pipes **to cross over** with **other installations** without the need for rework.

The sockets in the adapters are made of polypropylene and have a **factory-installed seal** and the **assembly system CLICK**, which significantly speeds up installation and guarantees a tight installation.

It is possible to use plugs and **create other configurations of adapters**.

The product has a hygienic certificate, issued by Polish National Institute of Public Health.

Set 1	Set 2	Set 3
<ul style="list-style-type: none"> • 2 adapters 5x50/2x75 • 5 metres of Ø50 mm pipe • plug 	<ul style="list-style-type: none"> • 1 pc adapters 5x50/2x75 • plugs 	<ul style="list-style-type: none"> • 2 adapters 5x50/2x75 • 5 metres of SPECTRA pipe Ø50 mm • plugs

CLICK connector for ventilation ducts

System fitting for **connecting flexible PE-FLEX®** ventilation ducts with **integrated gasket and CLICK assembly system**, which ensures high tightness and durability of the connection of two pipe sections. **Does not require** the use of **additional gaskets and sealing tape**.



Key features

The connector is available in **three sizes** according to the diameter of the PE-FLEX® ventilation ducts: Ø 50mm, Ø 75mm and Ø 90mm.

The connector is **made of durable plastic**, which allows it to be placed in the insulation layer of the ceiling.

It has **a built-in factory seals** and **the assembly system CLICK**, which significantly speeds up installation and guarantees a tight installation.

The special design of the latches **prevents the ventilation ducts from dislodging**.

Allows **the use of ventilation ducts' ends**.

The product has a hygienic certificate, issued by Polish National Institute of Public of Health.

Outer diameter table:

Ø50

Ø75

Ø90

PE-FLEX® duct cutter

The PE-FLEX® **duct cutter** makes it possible to **cut ventilation ducts** quickly and evenly. It considerably **improves the assembly of the ventilation system** and enables the pipe to be **tightly connected** to the plenum and distribution boxes.



Key features

Available in three sizes to **suit the diameter of the ventilation ducts**.

Guarantees **fast and precise cutting** of the PE-FLEX® ventilation duct, which consequently ensures tightness of the entire installation.

Facilitates the assembly and significantly reduces the assembly time of the entire installation.

Table with available sizes:

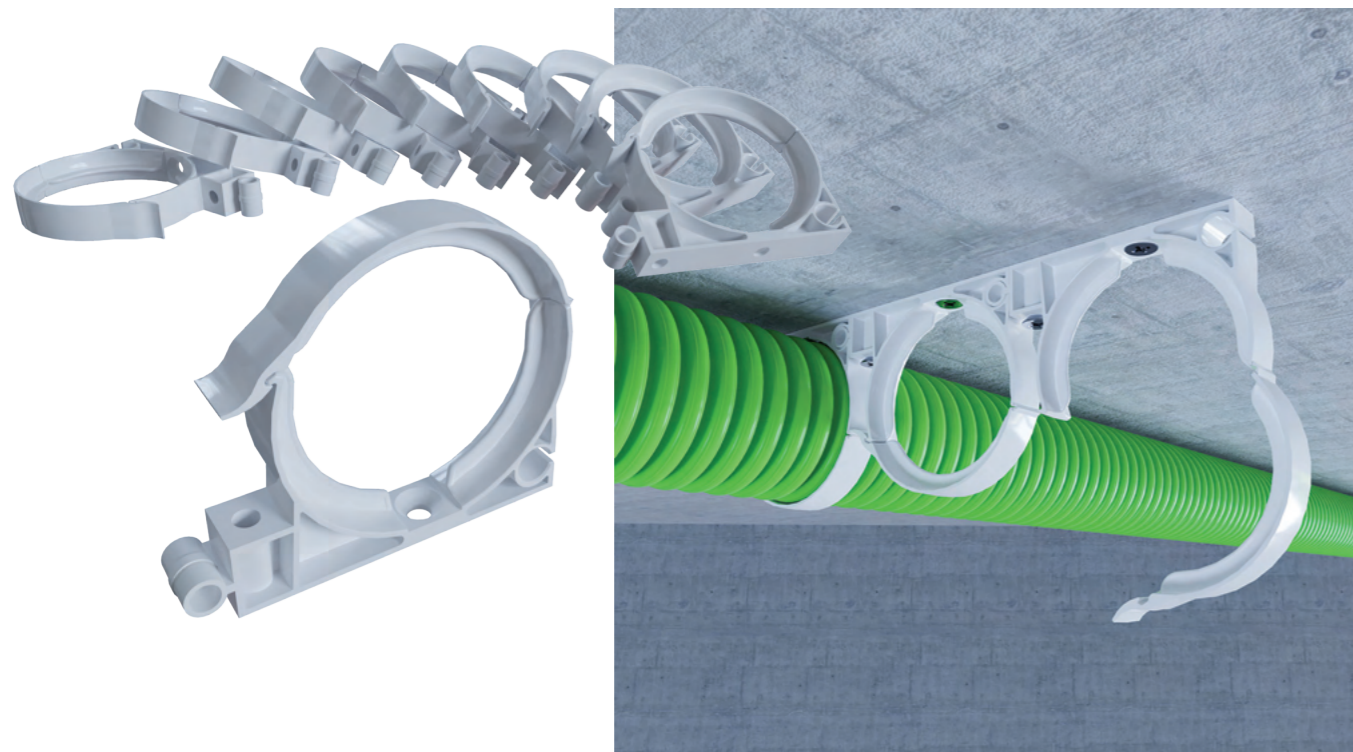
Ø50

Ø75

Ø90

Ducting Clamps

Specially developed holders for PE-FLEX® flexible ducts, **enable quick installation** on ceilings and walls. The clamps can be connected in series with a tongue-and-groove connection, making it possible to install several ventilation ducts in parallel.



Key features

Dedicated pipe clamps **make it easy for one person** to install the PE-FLEX® ventilation system!

Time-saving when installing the entire system.

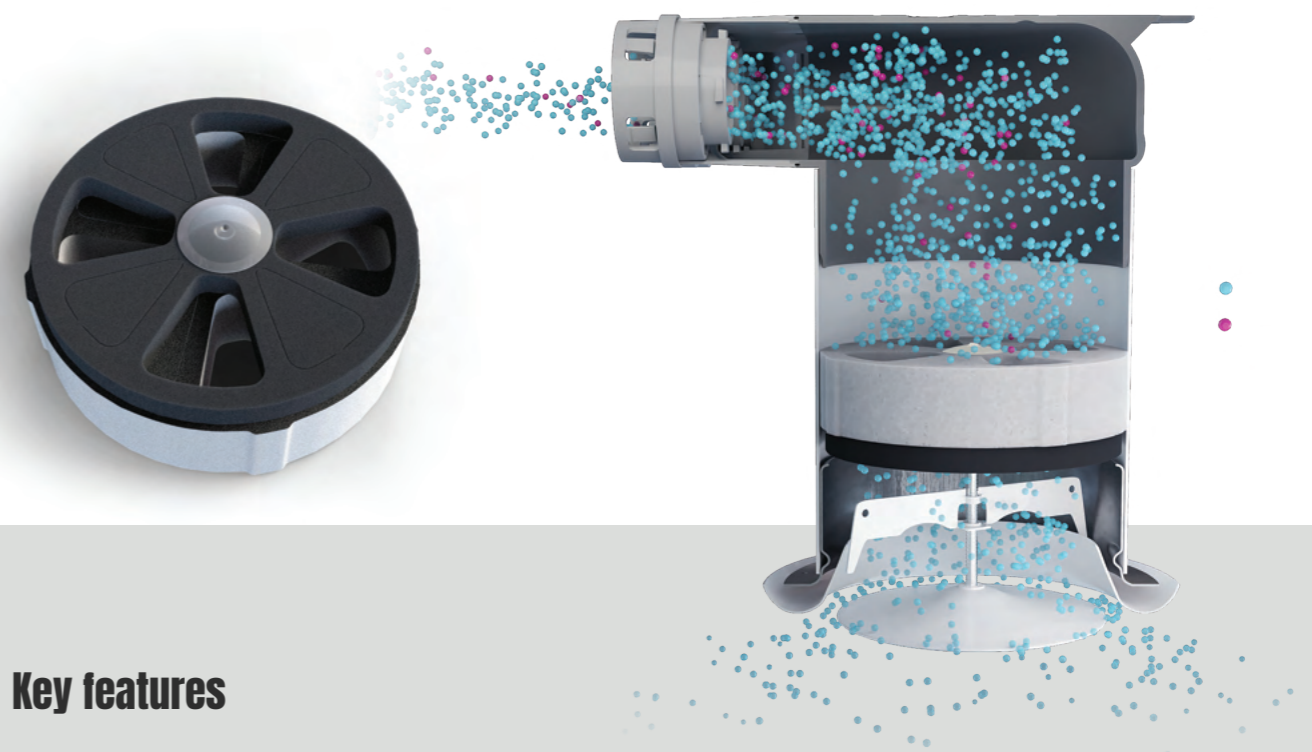
The mounting holes allow the clamps to be fixed to the ground with dowels or screws.

Suitable for flexible ducts with an external diameter of Ø 75 mm.

Closing from the top, facilitates the installation of ducts under the ceiling, and tongue and groove allows for quick connection of brackets

Acoustic foam damper PE-FLEX®

PE-FLEX® damper mounted directly before the diffuser, is used to **smoothly regulate the air flow and suppress noise in ventilation systems**. It is used both on supply and exhaust ducts.



Key features

Allows **convenient and smooth airflow adjustment** without removing the damper from the duct. It is enough to turn the lower ring to expose the oval pass-through openings.

It is especially useful when the air flow in a given point is too high and **the regulation with a diffuser** is impossible or generates a lot of noise.

It is equipped with **additional pass-through** holes intended for removal by the user in the case of a desire to obtain maximum air flow.

It is made of a special plastic acoustic foam with very high damping properties.

Very easy to install directly in front of the diffuser.

diameter	thickness
Ø128 mm	40 mm

Air diffusers with mounting frame

Air diffuser, as the end of air distribution system in mechanical ventilation **enables proper air distribution in rooms**. They are available in two versions: supply and exhaust.



Key features

Modern design to suit contemporary home interiors.

The rotary disc, enables proper **air distribution** in rooms and smooth adjustment of the supply and exhaust air stream.

Low noise level due to additional dampening foam on the rotary disc in the supply valve.

Simple installation with metal clips in the mounting frame or press-fit directly into a circular duct. In addition, it has a **built-in gasket** and holes for screwing it to the ceiling, which protects the diffuser from slipping out.

Easy to measure airflow,

Table with available sizes:

Ø 100 mm

Ø 125 mm

Ø 160 mm

Conical filters for diffusers

A conical FSA filter for anemostats is **mounted directly on the anemostat, protecting** ventilation ducts against pollution. The shape of the cone, reduces pressure loss of the flowing air, while maintaining a large filtration surface area.



Key features

Provides protection against contamination of the exhaust ductwork and the entire recuperation system made of cone-shaped filter fabric that traps dirt such as dust, insects and grease.

The conical filters significantly **extend the working time** of the filters used in the recuperator.

Mounting directly above the anemostat allows easy access and filter replacement.

Table with available sizes:

Ø 80 mm

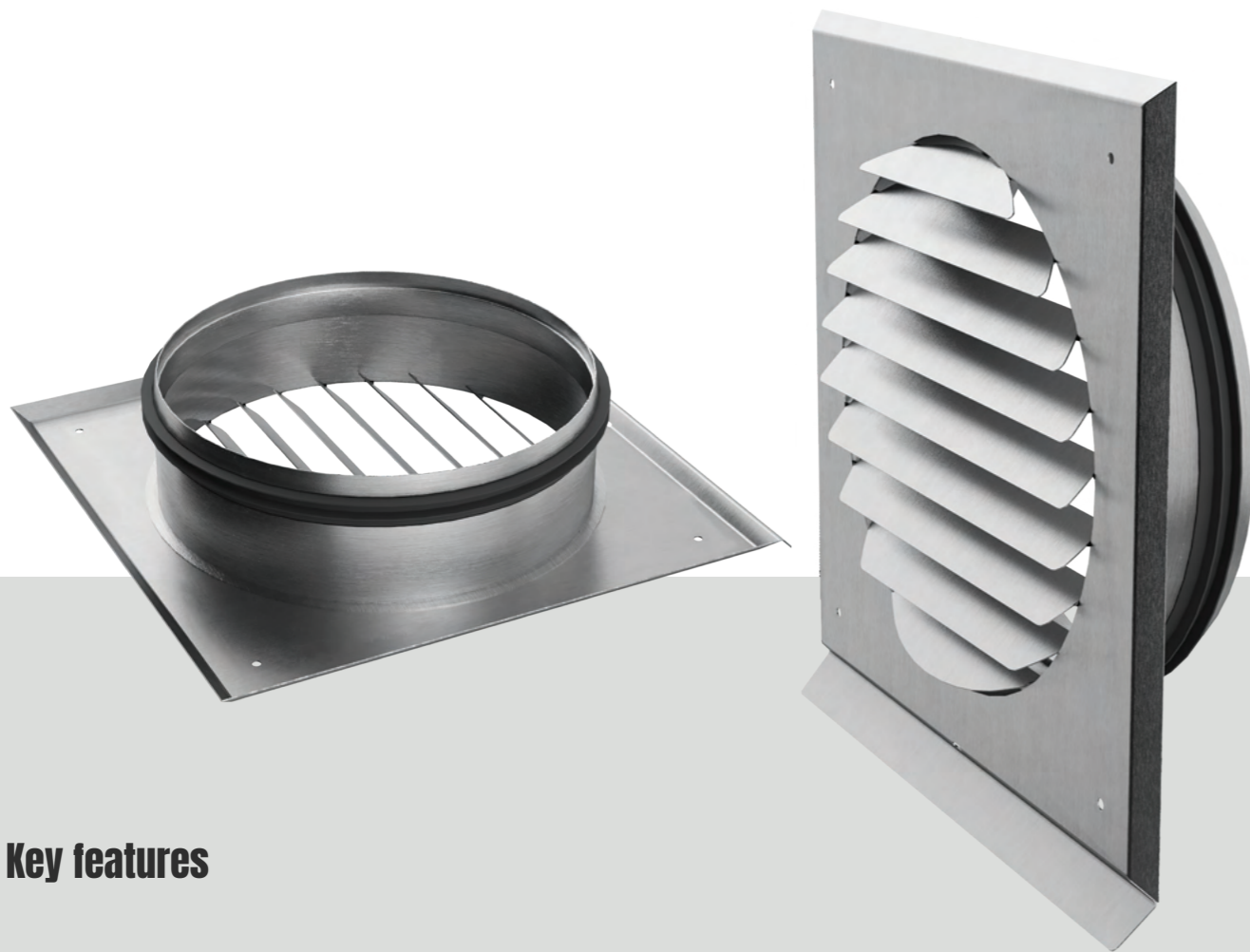
Ø 100 mm

Ø 125 mm

Ø 160 mm

Stainless steel air intake/outlet

Flat, square external grille for the end of air intake and exhaust ducts of recuperation systems, mounted on the external wall of the building or in the roof soffit.



Key features

The fins in the grille are made to **minimize air resistance**.

Made of **high quality stainless steel** for outdoor use without the risk of corrosion.

Additional drip cap protects the facade against stains.

A rubber gasket makes the air intake/exhaust **easy to install** and protects against water leaking from the ventilation duct under the grill.

The air intake is available in three sizes: Ø200, Ø250 and Ø315 mm.

Table with available sizes:

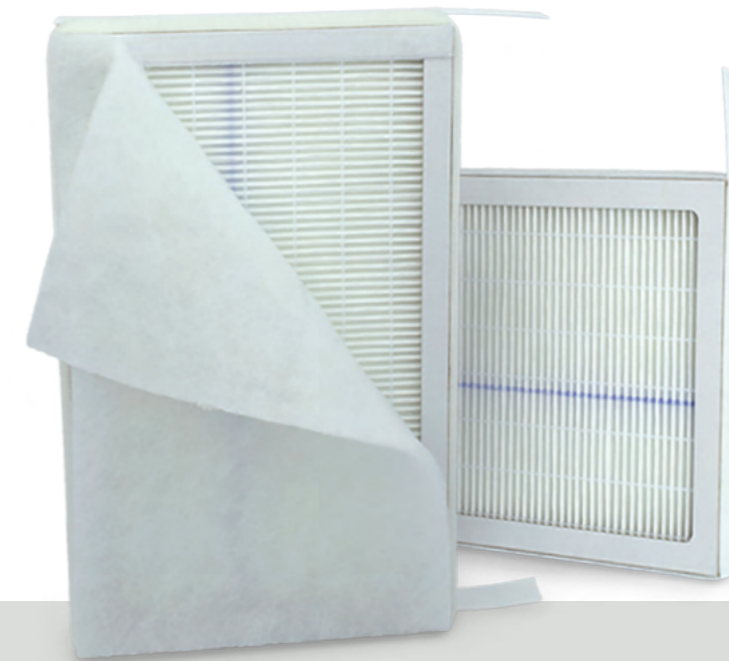
Ø200

Ø250

Ø315

Filters for recuperators

High quality replacement filters with improved parameters for e.g. Zehnder and KOMFOVENT recuperators. PE-FLEX® filters have a **number of improvements** to extend the operating time and improve tightness.



Key features

Larger number of pleats and increased filtration surface in comparison to the original filters, provides greater dust capacity of the filter and extends its operation time without causing large air resistance.

Rigid and durable cardboard filter frame and **foam gasket** ensuring high tightness of the filter installed in the recuperator.

Increased filtration class in comparison with the original ones. Filters are available in 3 classes of filtration: **G4 - standard coarse filter, M5 - with increased filtration parameters and F7 - anti-dust filter.**

Easy to use and replace thanks to comfortable and durable handles allowing to remove the filter and a clear arrow showing the direction of airflow.

Filters **fitted for the most popular models of Zehnder and KOMFOVENT** recuperators.

Filters are available in 3 classes of filtration:

G4

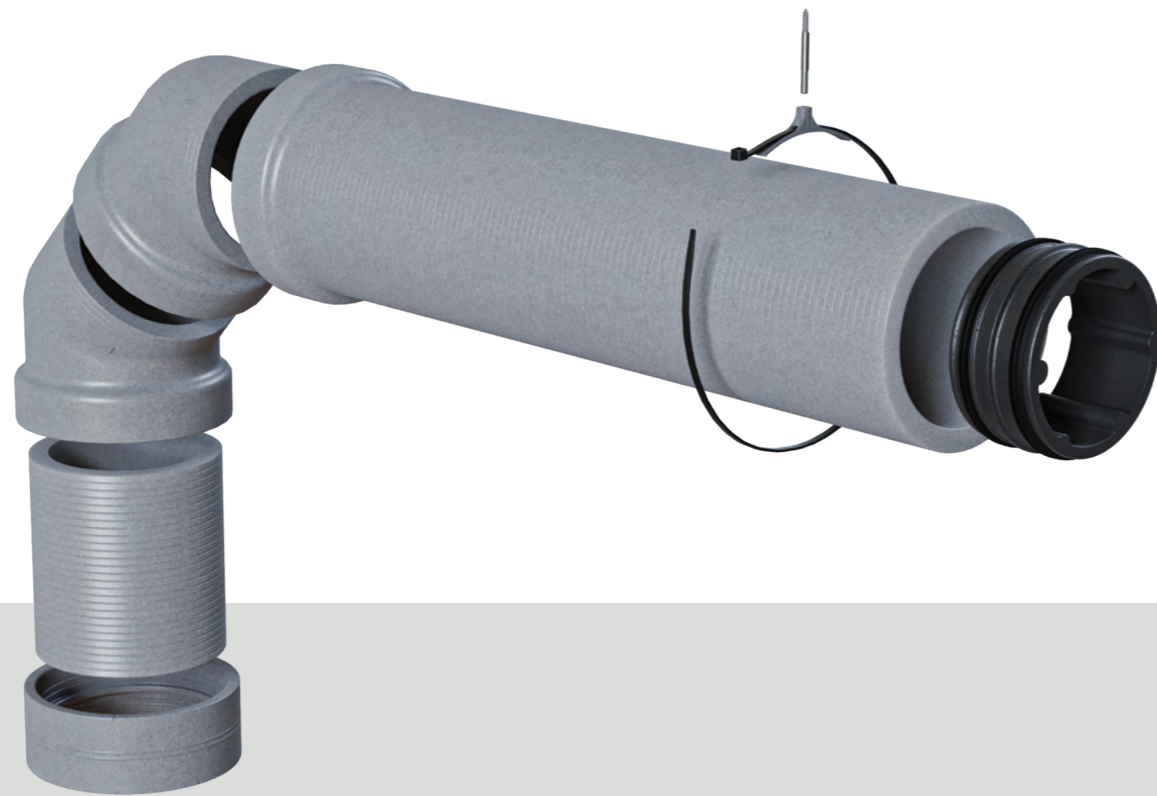
M5

F7

MEET OUR NEW INSULATED EPS SYSTEM FROM PE-FLEX®

The PE-FLEX® EPS air distribution system is an **innovative** way to combine **high installation aesthetics with fast installation speed** and excellent duct insulation.

EPS system was created as a complement to the PE-FLEX® system for air distribution in the building. It is therefore a modern alternative to the rigid spiro ducts and flexible flex ducts used so far, which are used to connect the recuperator with distribution boxes and air intake and outlet.



Key features

INSTALLATION OF THE SYSTEM

The PE-FLEX® EPS air distribution system was designed to minimise heat loss in the building and to enable bridgeless routing of **ventilation ducts** between the air handling unit and the air intake and outlet grilles - from the external insulation of the building to the insulation of the unit.

The PE-FLEX® EPS ventilation system also makes it possible to connect the recupera-

tor to the ventilation system quickly, simply and professionally. EPS ducts connecting the recuperator with manifold boxes ensure high parameters of the whole recuperation system in the house

To ensure optimal operation of the mechanical ventilation system in the house and low noise level we recommend connecting the recuperator with PE-FLEX® EPS system by using **AKUDEK** flexible silencer or a minimum of one meter section of flexible duct **SONODEC** on the supply air duct or all connections of the recuperator.

Up to 25% greater insulation

(thermal resistance) compared to flexible and rigid ducts insulated with wool of the same thickness ensures excellent performance of the installation.

Integrated mounting grommets

with a snap-in system improve assembly and reduce the number of parts needed to assemble the entire system

Up to 25% cheaper installation cost

compared to competitive systems due to the use of integrated sockets and no need for additional fittings.

Compatible with other systems

steel and flex channels with a diameter of Ø200 mm using the system EPP nipple.

2x faster installation

thanks to the use of insulating material and no need for additional insulation of ventilation system components.

8 x lower weight

than the installation of traditional steel ducts insulated with wool is much easier to install and transport.

High resistance to moisture and water

The foamed polystyrene from which the system elements are made guarantees high durability and constant insulation parameters, as well as the absence of problems with wetting the insulation.

Lower air flow resistance

compared to flex insulated ducts, thus increasing air handling unit efficiency and reducing energy consumption.

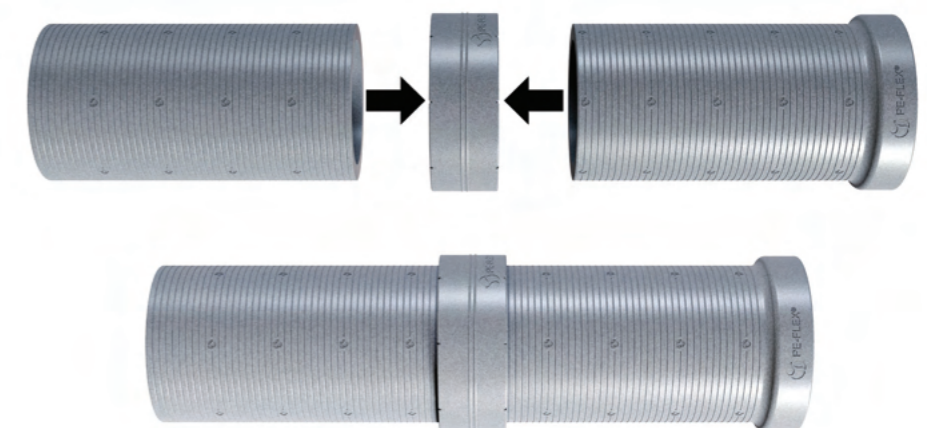
No thermal bridges

and continuity and tightness of insulation along the entire length of the installation, thanks to built-in sockets and system couplings connecting all the elements of the system.

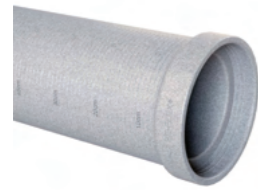
Simplicity of assembly

based on the principle of joining the elements by pressing and cutting them without the need to use professional equipment.

Easy and tight press-fit connection



OF WHICH COMPONENTS DOES THE PE-FLEX® EPS SYSTEM CONSIST?



PE-FLEX® EPS pipe Ø200/250 mm with a length of 100 cm with integrated mounting cup and 25 mm thick walls

Rigid ventilation duct designed for air distribution in mechanical ventilation systems with recuperation. Made entirely of EPS polystyrene with a high density of 40 kg/m³ guarantees very good insulating properties of the pipe along its entire length. Pipe inner diameter is Ø200 mm, outer diameter is Ø250 mm, length 1000 mm.



Elbow EPS PE-FLEX® 45° Ø200/250 mm replacing a socket and allowing to use any piece of EPS pipe

Light and resistant elbow EPS 45° allows to make bends in ventilation installations, and thanks to its compact design and the possibility of joining two elbows together also short right angle bends with the radius of 90°. Smooth inner surface and special profiling minimize resistance of the flowing air on the bend of the installation.



Socket EPS PE-FLEX® Ø250 mm to connect the PE-FLEX® EPS system with standard metal and flexible ducts

The EPS socket is used to join two sections of EPS PE-FLEX® pipe when you want to use a previously cut off section of the pipe without a socket. This minimizes the waste and costs of the whole installation. In the same way we can connect the cut piece of pipe with an elbow.



PE-FLEX® EPP nipple Ø198 mm for connecting SONODEC and steel ducts with a diameter of Ø200 mm

The EPP nipple is made of deformation- and damage-resistant foamed polypropylene, which has very good insulation properties and is water-resistant. This allows for a safe connection without a thermal bridge between the PE-FLEX® ventilation system and standard flexible flex ducts and steel spiro ducts with a diameter of Ø200 mm.



Stainless steel coupler Ø250 mm for connection of Ø250 mm air intake/exhaust grilles

The Ø250 mm coupler is made of weatherproof stainless steel and allows for connection to the bare end of the EPS PE-FLEX® pipe for air intakes and outlets with a diameter of Ø250 mm.

reQnet

New generation of intelligent recuperators



ReQ series recuperators

The reQnet recuperators are designed **to provide maximum indoor air comfort with minimal primary energy consumption**, while maintaining the highest levels of comfort. For this reason, all models feature intelligent control with built-in CO2 and humidity sensors to automatically adjust the ventilation level in the building, while the internet connectivity allows the recuperator to be controlled also outside the home via a mobile app. To maintain the highest air quality, the units can be equipped with an anti-smog or anti-dust filter and an enthalpy heat exchanger (ERV) to minimise the drying out of the air in the building in winter.



Features

The use of an enthalpy exchanger (ERV models) with an innovative polymer membrane that recovers moisture from the exhaust air will maintain maximum air quality comfort at your home.

Smart control based on built-in CO2 and humidity sensors, will automatically adjust the ventilation level taking care of your comfort and optimise electricity consumption.

The built-in Wi-Fi module, by connecting to your home internet network, will allow you to control the recuperator via internet using your mobile device from anywhere in the world.

The recuperator's insulation made of polyethylene foam provides excellent acoustic and thermal insulation with no thermal bridges, as well as low weight.

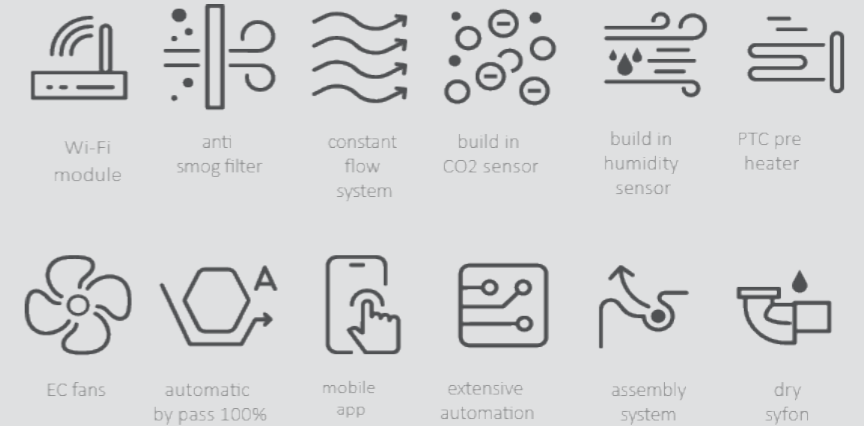
The use of EBM-Papst's state-of-the-art DC radial fans combined with a constant flow system, guarantees low electricity consumption and quiet operation of the recuperator.

The innovative dual supply air filtration system with an F9 class fine filter to protect against so-called smog, is the only one in this class of appliance that will truly protect your family's health.

Extensive automation will enable you to integrate the heat recovery unit into your smart home system and connect a range of optional peripherals.

New level of standard features in recuperators

We want you to enjoy all the benefits we offer. That's why when you opt for our product you get a fully equipped unit - **at no extra charge**. Enjoy 100%, not half.



Control the recuperator via your phone

We have included a Wi-Fi module in each control unit, which connects to your home internet and allows the unit to be conveniently controlled from your phone by anyone in the house - even on the sofa, even on the other side of the world!

The reQnet app provides complete management of your recuperator, without the need to install additional wall controls. It allows you to control multiple operating modes of the unit and allows you to view the current operating parameters remotely.



Vertical air handling unit reQ V.400/550

The recuperators of the reQ V. series are the units with upper spigot exits with the possibility of hanging on the wall. The robust stainless steel casing and excellent acoustic and thermal insulation through the use of polyethylene foam make them ideal for installation in domestic utility rooms. The use of one of the largest counter-flow heat exchangers in this class of recuperators with a surface area of 35 m² ensures high heat recovery. The reQ V. recuperators are available in two versions with capacities of 400 and 550 m³/h and can have an optional moisture recovery exchanger (ERV).

Available versions:

reQ V.400 HRV

reQ V.550 HRV counterflow with heat recovery

reQ V.400 ERV

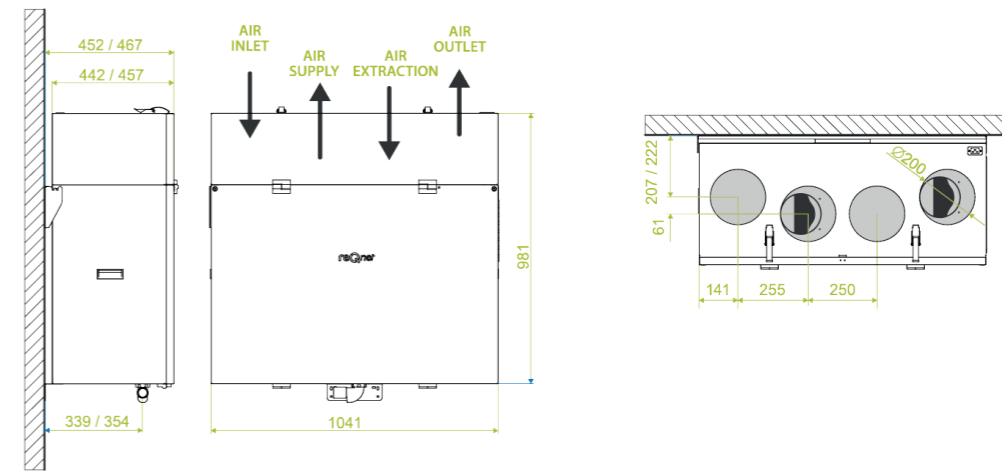
reQ V.550 ERV enthalpic counterflow with heat and moisture recovery

Easy and quick installation

Thanks to its unique flat construction with a laterally placed heat exchanger, the reQ V. recuperator protrudes from the wall by only 47 cm! This allows the recuperator to be conveniently mounted in narrow rooms or garages.

The reQ V. series air handling unit is mainly designed for wall mounting in technical rooms. The original stainless steel mounting bracket included as standard allows the unit to be hung on the wall in a fast and stable manner.

Dimensions:



Model	reQ V.400 HRV / ERV		reQ V.550 HRV / ERV	
	Maximum air flow	400 m ³ /h*		550 m ³ /h*
Heat recovery efficiency	up to 95% (HRV) / do 85% (ERV)**			
Type of exchanger	counterflow			
Type of exchanger	HRV: with heat recovery ERV: with heat and moisture recovery (enthalpic)			
Exchanger material	HRV: plastic ERV: plastic + polymer membrane			
Moisture recovery efficiency	no (HRV) / up to 65% (ERV)			
Energy consumption	100 m ³ /h (50 Pa)	25 W (HRV) 24 W (ERV)	200 m ³ /h (50 Pa)	43 W (HRV) 42 W (ERV)
	250 m ³ /h (100 Pa)	74 W (HRV) 72 W (ERV)	400 m ³ /h (100 Pa)	157 W (HRV) 154 W (ERV)
	400 m ³ /h (150 Pa)	187 W (HRV) 184 W (ERV)	550 m ³ /h (150 Pa)	272 W (HRV) 267 W (ERV)
Sound power level emitted by the housing at a distance of 1 metre	100 m ³ /h (50 Pa)	24 db(A)	200 m ³ /h (50 Pa)	30 db(A)
	250 m ³ /h (100 Pa)	33 db(A)	400 m ³ /h (100 Pa)	42 db(A)
	400 m ³ /h (150 Pa)	43 db(A)	550 m ³ /h (150 Pa)	48 db(A)
Sound power level - nominal value	41 db(A)		45 db(A)	
Fans	radial with EC direct current motors (ebm-papst)			
Energy efficiency class	A***			
Bypass	automatic, 100% supply air bypass			
Communication	built-in wi-fi module control via mobile app (iOS 12.0 and Android 6.0 or newer) and web browser			
Interaction with the smart home system	YES (REST API)			
Diameter of spigots	4 x Ø200 mm			
Filters	pleated class M5**** / ePM10 75%**** (optional air supply: anti-smog F9**** / ePM1 80%****)			
Pre-heater	built-in, continuously variable PTC			
Constant flow system	YES			
Humidity sensor	YES, built in			
CO ₂ sensor	YES, built in			
Housing material	stainless steel			
Dimensions (H x W x D)	784 x 1202 x 432 mm			

* with filter class M5
** The reQnet F.350 ERV recuperator, due to its enthalpy exchanger, does not meet the requirements of the „Clean Air 2019“ programme for applications submitted before 15.05.2020. The statement for the „Clean Air 2020“ programme for applications submitted after 15.05.2020 can be found cennik24.pl in the product tab.

*** for moderate climates in accordance with Directive 2009/125/EC and the European Commission Regulation 1254/2014
**** according to EN779
***** according to ISO 16890



Horizontal air handling unit reQ H.400/500

The recuperators of the reQ H. series are floor-standing units with lateral spigot exits with the additional option of hanging on the wall. The slim and robust stainless steel casing and excellent acoustic and thermal insulation, thanks to the use of polyethylene foam make them ideal for installation, for example in domestic attics. The use of one of the largest counter-flow heat exchangers in this class of recuperators with a surface area of 35 m² ensures high heat recovery. The reQ H. recuperators are available in two versions with capacities of 400 and 500 m³/h and can have an optional moisture recovery exchanger (ERV).

Available versions:

reQ H.400 HRV

reQ H.500 HRV
counterflow with heat recovery

reQ H.400 ERV

reQ H.500 ERV
enthalpic counterflow with heat and moisture recovery

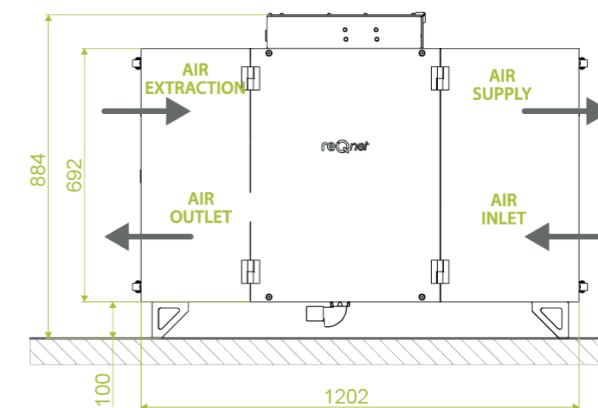
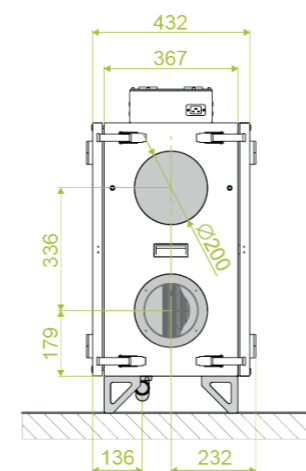
Easy and quick installation

Thanks to the unique slim design with a transversely located heat exchanger, **the width of the reQ H. is only 44 cm, and with the flaps removed only 37 cm**, which makes it possible to pass the recuperator even through the smallest loft hatch.

The reQ H. series air handling unit is mainly designed for standing installation in attics and technical rooms. Dedicated feet allow the recuperator to be placed stably on the floor and the condensate drain can be easily connected.

Wall mounting using the original stainless steel mounting bracket is also possible.

Dimensions:



Model	reQ H.400 HRV / ERV		reQ H.500 HRV / ERV	
Maximum air flow	400 m ³ /h*		500 m ³ /h*	
	by 150 Pa (HRV)		by 150 Pa (HRV)	
	by 200 Pa (ERV)		by 200 Pa (ERV)	
Heat recovery efficiency	up to 95% (HRV) / up to 85% (ERV)**			
Type of exchanger	counterflow			
Type of exchanger	HRV: with heat recovery			
	ERV: with heat and moisture recovery (enthalpic)			
Exchanger material	HRV: plastic			
	ERV: plastic + polymer membrane			
Moisture recovery efficiency	no (HRV) / up to 65% (ERV)			
Energy consumption	100 m ³ /h (50 Pa)	23 W (HRV) 21 W (ERV)	200 m ³ /h (50 Pa)	42 W (HRV) 39 W (ERV)
	250 m ³ /h (100 Pa)	68 W (HRV) 65 W (ERV)	400 m ³ /h (100 Pa)	143 W (HRV) 140 W (ERV)
	400 m ³ /h (150 Pa)	170 W (HRV) 167 W (ERV)	500 m ³ /h (150 Pa)	267 W (HRV) 261 W (ERV)
Sound power level emitted by the housing at a distance of 1 metre	100 m ³ /h (50 Pa)	30 db(A)	200 m ³ /h (50 Pa)	38 db(A)
	250 m ³ /h (100 Pa)	41 db(A)	400 m ³ /h (100 Pa)	47 db(A)
	400 m ³ /h (150 Pa)	48 db(A)	500 m ³ /h (150 Pa)	51 db(A)
Sound power level - nominal value	41 db(A)		45 db(A)	
Fans	radial with EC direct current motors (ebm-papst)			
Energy efficiency class	A***			
Bypass	automatic, 100% supply air bypass			
Communication	built-in wi-fi module control via mobile app (iOS 12.0 and Android 6.0 or newer) and web browser			
Interaction with the smart home system	YES (REST API)			
Diameter of spigots	4 x Ø200 mm			
Filters	pleated class M5**** / ePM10 75%**** (optional air supply: anti-smog F9**** / ePM1 80%****)			
Pre-heater	built-in, continuously variable PTC			
Constant flow system	YES			
Humidity sensor	YES, built in			
CO ₂ sensor	YES, built in			
Housing material	stainless steel			
Dimensions (H x W x D)	784 x 1202 x 432 mm			

* with filter class M5
** The reQnet F.350 ERV recuperator, due to its enthalpy exchanger, does not meet the requirements of the „Clean Air 2019“ programme for applications submitted before 15.05.2020. The statement for the „Clean Air 2020“ programme for applications submitted after 15.05.2020 can be found cennik24.pl in the product tab.

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***** according to ISO 16890



Universal air handling unit reQ F.350 ERV

The reQ F.350 ERV air handling unit is a recuperator with an ultra-slim casing and universal ceiling, floor or wall mounting without the need to connect a condensate drain. The unit features an enthalpy heat exchanger with moisture recovery (ERV) as standard to ensure an optimum building climate all year round and minimise the drying out of building air in winter. The robust stainless steel construction and excellent acoustic and thermal insulation thanks to the PE foam filling ensure that the recuperator can even be installed in suspended ceilings. The reQ F. unit is available with a capacity of 350 m³/h.

Easy and quick installation

Available versions:

reQ F.350 ERV

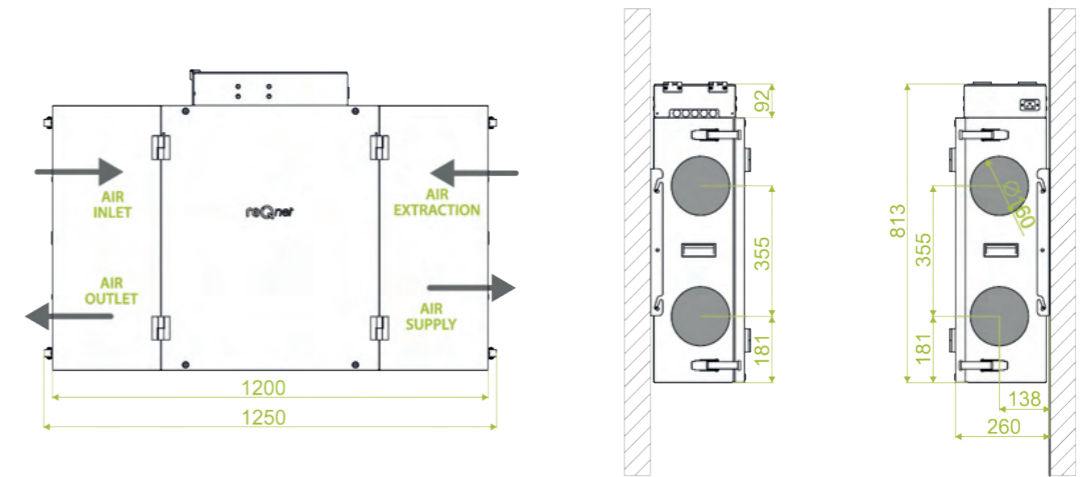
Thanks to its unique low design with a special flat heat exchanger, the height of the reQ F. is only 26 cm! As a result, the ceiling-mounted recuperator takes up very little space and will even fit into small false ceiling spaces.

The unit does not have a condensate drain, so it can be installed practically anywhere in the house. This makes it easier to layout the installation in buildings that are already occupied or where there is no garage or separate boiler room.

A dedicated stainless steel mounting bracket allows for very easy and stable installation under the ceiling or on the wall.



Dimensions:



Model	reQ F.350 ERV	
Maximum air flow	350 m ³ /h by 150 Pa*	
Heat recovery efficiency	up to 85%**	
Type of exchanger	counterflow	
Type of exchanger	ERV: with heat and moisture recovery (enthalpic)	
Exchanger material	plastic + polymer membrane	
Moisture recovery efficiency	up to 65%	
Energy consumption	100 m ³ /h (50 Pa)	33 W
	175 m ³ /h (100 Pa)	68 W
	350 m ³ /h (150 Pa)	270 W
Sound power level emitted by the housing at a distance	100 m ³ /h (50 Pa)	29 db(A)
	of 1 metre	38 db(A)
	350 m ³ /h (150 Pa)	53 db(A)
Sound power level - nominal value	46 db(A)	
Fans	radial with EC direct current motors (ebm-papst)	
Energy efficiency class	A***	
Bypass	automatic, 100% supply air bypass	
Communication	built-in wi-fi module control via mobile app (iOS 12.0 and Android 6.0 or newer) and web browser	
Interaction with the smart home system	TAK (REST API)	
Diameter of spigots	4 x Ø160 mm	
Filters	pleated class M5**** / ePM10 75%***** (optional air supply: anti-smog F9**** / ePM1 80%*****)	
Pre-heater	built-in, continuously variable PTC, maximum power 1 kW	
Constant flow system	YES	
Humidity sensor	YES, built in	
CO ₂ sensor	YES, built in	
Housing material	stainless steel	
Dimensions (H x W x D)	810 x 1210 x 260 mm	

* with filter class M5
 ** The reQnet F.350 ERV recuperator, due to its enthalpy exchanger, does not meet the requirements of the „Clean Air 2019“ programme for applications submitted before 15.05.2020. The statement for the „Clean Air 2020“ programme for applications submitted after 15.05.2020 can be found cennik24.pl in the product tab.

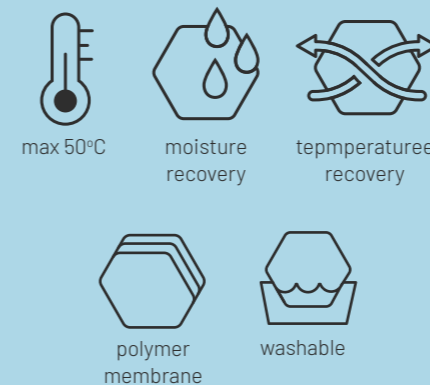
***for moderate climates in accordance with Directive 2009/125/EC and the European Commission Regulation 1254/2014
 **** according to EN779
 ***** according to ISO 16890

Air Handling Unit with enthalpic exchanger



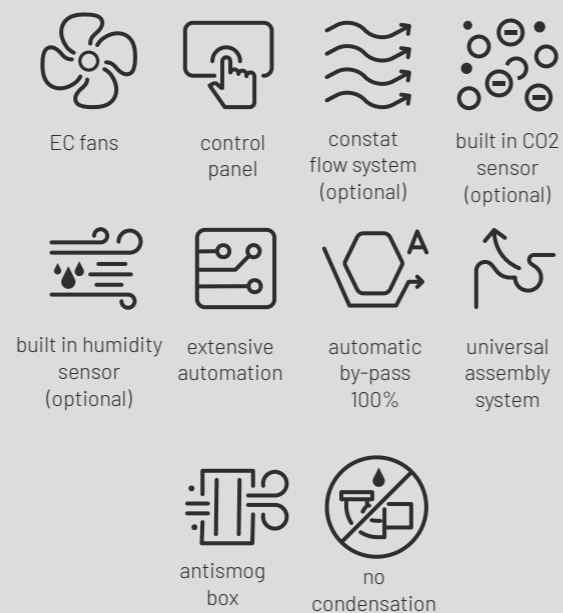
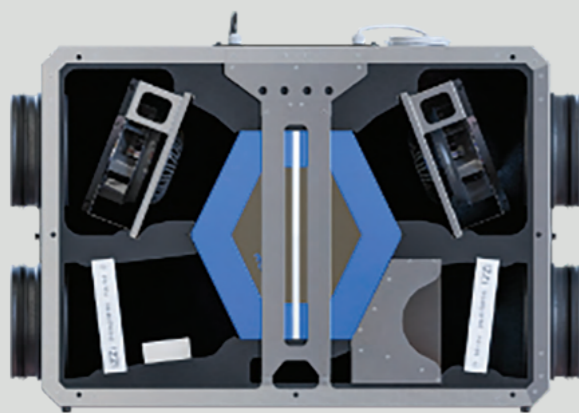
izzi 302 ERV is a compact recuperator with a **modern enthalpy exchanger** with an innovative polymer membrane, which allows to recover, apart from **heat energy, also moisture and latent energy**. The touch control panel, extensive automation as standard and many control modes allow for **simple and convenient control** of the recuperator. Ideally **suited for installation in places where it was previously impossible, such as apartments, finished houses or even in living spaces such as above the false ceiling**.

Enthalpic counterflow heat exchanger with moisture recovery as standard, characterized by high heat and moisture recovery with latent energy, no outflow of condensate and the ability to work even at negative outside temperatures without an additional pre-heater.

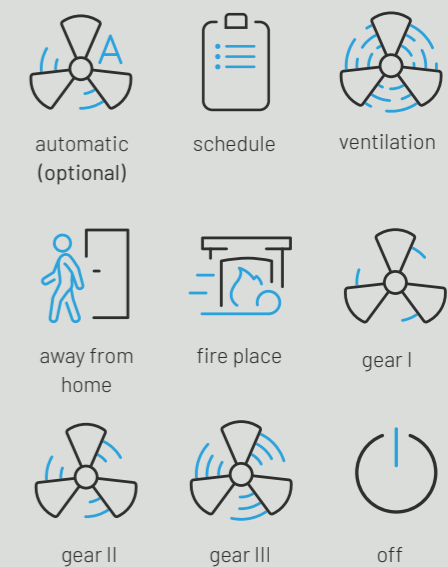


Key features

The highest level of equipment in this class of recuperators, based on our own dedicated solutions and components from renowned global suppliers. Additionally, recuperator can be easily and quickly expanded with modules increasing its functionality.



Touch control panel, extensive automation as standard and **many control modes** allow easy and **convenient control** of the recuperator



Universal installation in any position: under the ceiling, on the wall or on the floor, but also in the living space, for example above the false ceiling.

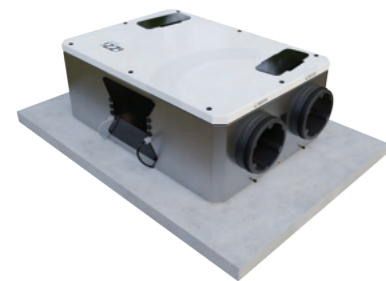
Wall mounting

Low weight and dedicated mounting bracket, makes it easy to hang the recuperator on the wall **even by one person.**



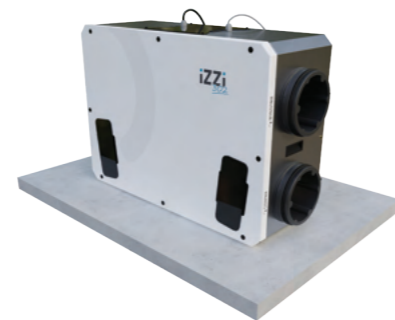
Ceiling mounting

The included mounting bracket allows, you to **quickly and securely** install the device on the ceiling, where it does not take up additional space.



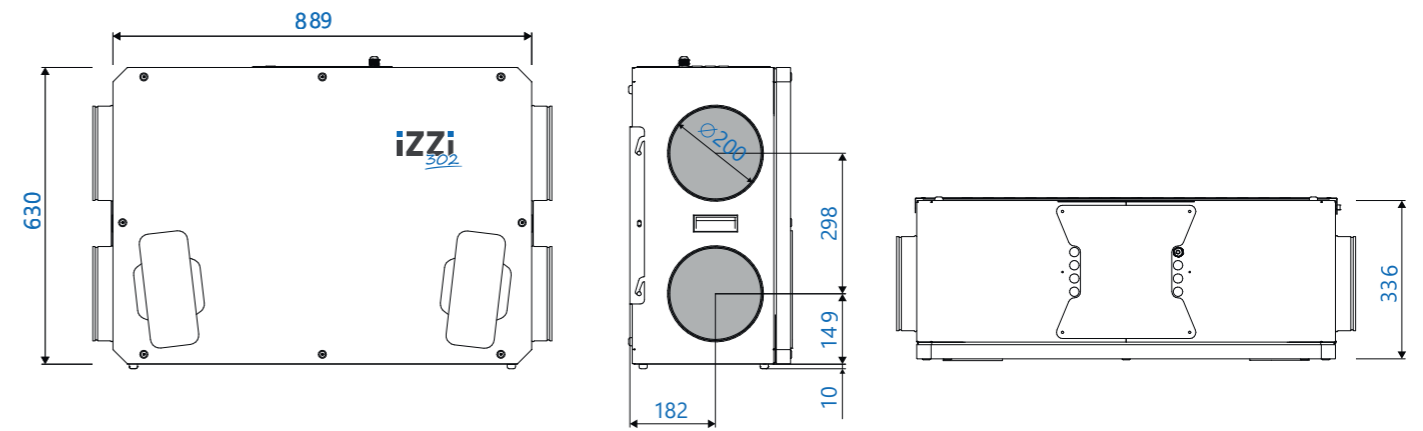
Floor mounting

No condensate drain, makes it possible to set the device on the floor, without using additional feet.



Horizontal installation

In this position, the air handling unit can be installed in really **tight spaces**, or low attics- only service access must be provided.



Model	iZZi 302 ERV		
Maximum air flow	300 m ³ /h at 150 Pa		
Heat recovery efficiency	Up to 95%		
Exchanger type	cross-flow counter-current		
Exchanger type	enthalpic (with moisture recovery)		
Exchanger material	plastic + polymer membrane		
Moisture recovery efficiency	Up to 65%		
Maximum power of fans	165 W		
Gears	I gear (90 m ³ /h at 30 Pa)	II gear (180 m ³ /h at 100 Pa)	III gear (400 m ³ /h at 150 Pa)
Energy consumption	26 W	60 W	165 W
Sound power level emitted by the housing at a distance of distance of 1 meter	30 dB(A)	39 dB(A)	46 dB(A)
Sound power level - nominal value	39 dB(A)		
Fans	radial Redicals with EC direct current motors (ebm-papst)		
Efficiency class energy efficiency class	A*		
Bypass	automatic, insulated, 100% supply air bypass		
Anti-freeze system	negative pressure, works only below -7°C		
Controller	LCD 3.2" with color touch panel		
Controller connection device	4x0.5** shielded cable (3 meters included)		
Filters	pleated class M5*** / ePM10 75%****		
Stub pipe diameter	4 x Ø200 mm		
Condensate drain	no		
Degree of protection	IP 40		
Equipment insulation class	I		
Supply voltage	230V (AC), 50Hz		
Weight (with dedicated rack)	26+2 kg		
Dimensions (LxWxH)	L 889 x W 336 x H 630		

Possibility to **expand the recuperator** with additional modules:

- **Constant flow module** - ensuring **automatic balancing** of the supply and exhaust flow in the ventilation system.
- **CO2/hygro measuring module** with a carbon dioxide and humidity sensor enabling **automatic control** of recuperator's efficiency on the basis of the air quality in the house, ensuring optimal operation of the unit adjusted to a given situation - without the user's interference.

Energy-saving DC fans with reduced noise emission and PE foam insulation allow to maintain **excellent acoustic properties** of the recuperator.

Efficient filtration of supply air by means of pleated filter of high filtration class M5.

Compact casing made of stainless steel, **convenient assembly console** and **two versions** of recuperator: left and right, allow for flexible installation, even in small spaces.

izzi 402 ERV recuperator

izzi 402 ERV is a compact **air handling unit** with an innovative and modular design. It **consists of two independent but interconnected parts**: the upper and lower part, which enable **installation by one person** and easy service access. **Compact dimensions** allow the unit to be mounted in small spaces, even in a closet, **above a washing machine or refrigerator**. The extensive equipment with enthalpy exchanger as standard and touch panel ensures comfortable operation.



Key features

The modular design of the recuperator allows **easy access to the operation and maintenance of the unit**, which consists of two parts upper, where the heart of the device is located, that is: automatics, filters with external inspection hole and EC fans.

The lower suspended part, where the permanent enthalpy exchanger is located, designed to recover thermal energy and moisture together with latent energy from the exhausted air from the premises.



Recuperator izzi 402 ERV, like the 302 ERV has:

- The highest level of equipment in this class of recuperators, based on its own dedicated solutions and components from renowned global suppliers. Additionally the recuperator can be **easily and quickly extended** by **modules** increasing its functionality.

- **Enthalpy counterflow heat exchanger** with polymer membrane as a standard, characterized by **high heat and moisture recovery with latent energy, no condensate outflow and the possibility of operation even at negative outdoor temperatures without an additional pre heater.**

Possibility to expand the recuperator with additional modules:



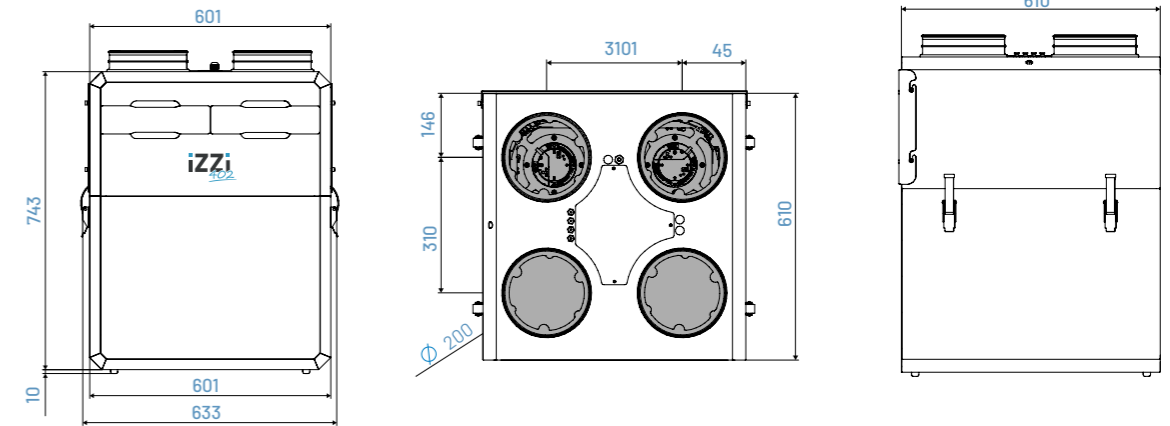
CO₂/hygro measuring module with a carbon dioxide and humidity sensor - enabling automatic control of recuperator's efficiency on the basis of the air quality in the house, ensuring optimal operation of the unit adjusted to a given situation - without the user's interference.



Constant flow module - ensuring automatic balancing of the supply and exhaust flow in the ventilation system.

- **Universal assembly** in vertical position: on the wall or on the floor.
- **Energy efficient** DC fans with reduced noise emission and PE foam insulation allow to keep perfect acoustic properties of the recuperator.
- **Efficient filtration** of supply air by means of pleated filter of high filtration class M5.
- **Compact casing** made of stainless steel, convenient assembly console allow for efficient installation, even in small spaces.

Very compact unit dimensions: 600x600x750 mm make it possible to install it in places where it was not possible before, i.e. in a built-in closet, above a washing machine or refrigerator. Whereas **quiet operation of the device**, inter alia due to the use of special foam insulation and modern DC motors, allows for placement of the recuperator in the living space.



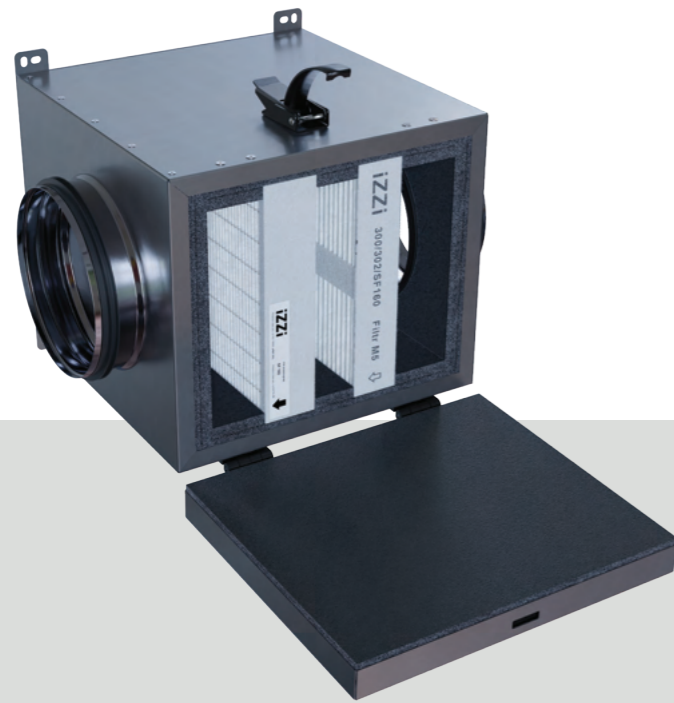
Touch control panel, extensive automation as standard and many control modes allow **easy and convenient control of the recuperator**



Model	iZZi 402 ERV		
Maximum air flow	400 m ³ /h at 150 Pa		
Heat recovery efficiency	Up to 85%		
Exchanger type	cross-flow counter-current		
Exchanger type	enthalpic (with moisture recovery)		
Exchanger material	plastic + polymer membrane		
Moisture recovery efficiency	Up to 65%		
Maximum power of fans	210 W		
Gears	I gear (100 m ³ /h at 50 Pa)	II gear (250 m ³ /h at 100 Pa)	III gear (400 m ³ /h at 150 Pa)
Energy consumption	20 W	73 W	205 W
Sound power level emitted by the housing at a distance of distance of 1 meter	30 dB(A)	39 dB(A)	46 dB(A)
Sound power level - nominal value	39 dB(A)		
Fans	radial Redicals with EC direct current motors (ebm-papst)		
Efficiency class energy efficiency class	A*		
Bypass	automatic, insulated, 100% supply air bypass		
Anti-freeze system	negative pressure, works only below -7°C		
Controller	LCD 3.2" with color touch panel		
Controller connection device	4x0.5** shielded cable (3 meters included)		
Filters	pleated class M5*** / ePM10 75%****		
Stub pipe diameter	4 x Ø200 mm		
Condensate drain	no		
Degree of protection	IP 40		
Equipment insulation class	I		
Supply voltage	230V (AC), 50Hz		
Weight (with dedicated rack)	30 kg		
Dimensions (LxWxH)	600x600x700		

Filter box

iZZi SP filter box thanks to **double filtration** (with F9 class fine filter) provides **very high protection** against smog by purifying the supply air by up to 96% (from PM10 smog particles). It also allows the use of anti-dust filters recommended especially for allergy sufferers. The box can **cooperate with most recuperators** available on the market.



Key features

The box has thermal insulation made of **water-resistant foam with additional soundproofing properties**.

The iZZi SF box casing is **made entirely of corrosion-resistant brushed stainless steel**, and the special design ensures **high tightness** of filters and inspection flap.

The applied **double filtration** system provides protection even against the finest smog particles PM1 of size below 1 micrometer.

The filter box allows for **universal left or right installation**, giving great flexibility in the layout of the installation.

The iZZi SF filter box is installed in the ductwork of the air intake or, in case of insufficient space or difficult access for filter replacement, it can be installed in the supply air duct.

Models:	iZZi 160	iZZi 200
Spigot dimension	Ø160	Ø200
Maximum airflow:	do 250 m ³ /h	do 550 m ³ /h

The iZZi SF filter box has a **universal right or left-hand installation**. To change the direction of air flow, simply swap and rotate the filters used, remembering that the M5 pre-filter always comes first.

LEFT-HAND MOUNTING

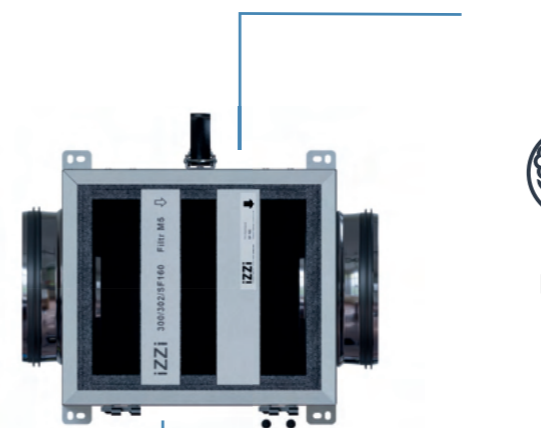


RIGHT-HAND MOUNTING



Double filtration

Highly accurate filtration



Pre-filtration

F7

Spring
Summer



Fine pollen



Mould and fungal spores



Bacteria and viruses

F9

Fall
Winter



Smog



Mould and fungal spores



Bacteria and viruses

M5

Spring
Summer
Fall
Winter



Dust



Pollen



Preliminary dirt
(sand, insects,
seeds and fine hair)



Anti-smog filter box with PTC pre-heater

iZZi SF 200 in the version with pre-heater is a hybrid combining the advantages of a filter box with a set of anti-smog or anti-dust filters that purify the air supplied to the house from health-threatening pollutants and a pre-heater with a modern, continuously controlled PTC heater that supports the operation of the anti-freeze system in iZZi recuperators.



Key features

Advantages of installing a pre-heater:

Frost protection: the pre-heater helps to maintain the right temperature in the heat exchanger in the recuperator, which prevents it from freezing, even when the temperature outside is very low.

Energy saving: by preventing freezing and increasing heat recovery efficiency, the pre-heater saves energy.

No vacuum: switching on the preheater replaces the operation of the vacuum anti-freeze system that causes cold air to be drawn in through leaks in the building.

System reliability: the pre-heater protects the operation of the recuperator in adverse conditions of low temperature and high humidity, increasing its durability and reliability.

Improved air quality: the pre-heater prevents the filters from freezing and increases their efficiency, allowing the supply air to be cleaned more effectively.

Box dedicated for recuperators:



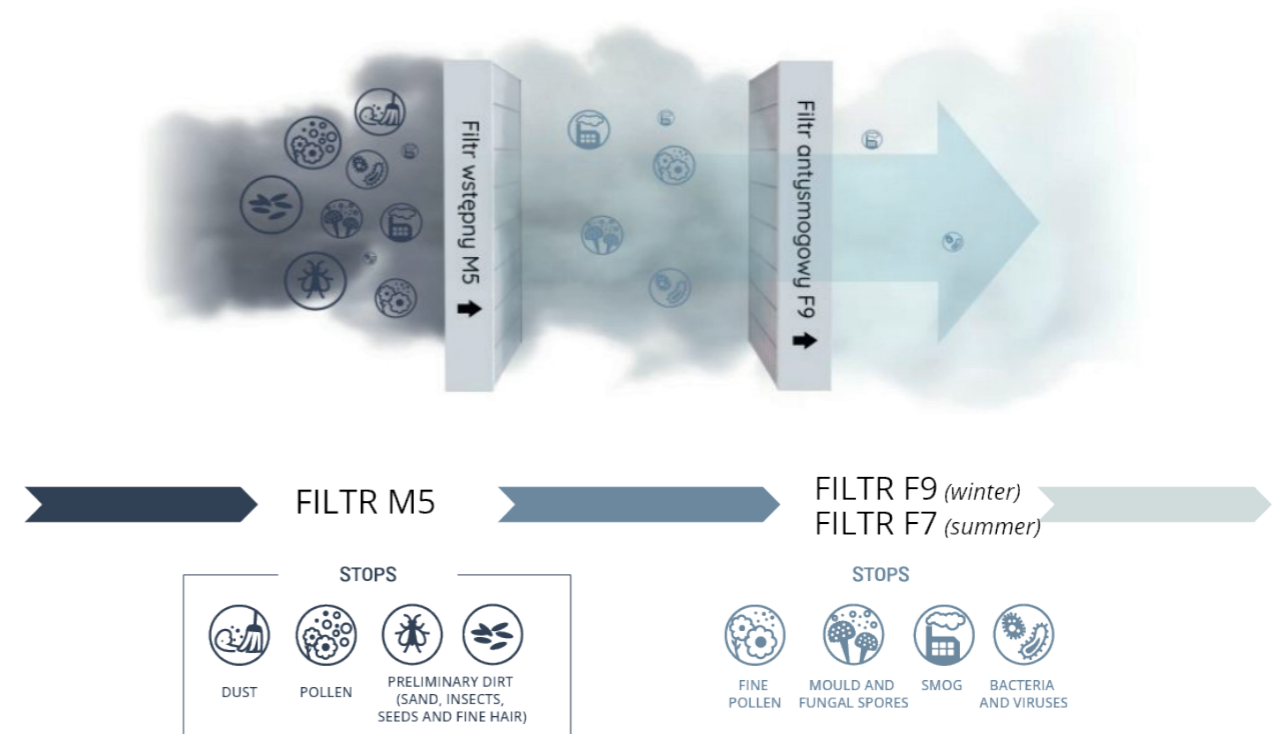
iZZi 302 ERV



iZZi 402 ERV

Stop the smog

Smog is polluted air created by the mixing of smoke and fog and harmful substances contained in exhaust fumes from cars, industry and coal burning. Smog is dangerous to health because it contains toxic substances such as nitrogen oxides and sulphur dioxide, which can cause asthma, respiratory and cardiovascular diseases. In some cities, smog is a particularly serious problem, but it can occur anywhere there is high air pollution.



The two-stage filtration process of the iZZi SF 200 filter box ensures the effective retention of more than 80% of the finest smog particles of the PM1 fraction, which are particularly harmful to our body as they can penetrate directly into the bloodstream through the lungs, spreading through our body to various internal organs. The filtration process is based on the use of two pleated filters, including an accurate F9 rated anti-smog filter, which is responsible for trapping fine PM1 particles. Unfortunately, most of the anti-smog filters on the market only provide protection against the larger PM10 and PM2.5 particles, which is in practice too little protection.

Filtration efficiency for particulate pollutants of different diameters

PM10 (10 µm)	96%
PM2,5 (2,5 µm)	90%
PM1 (1 µm)	83%

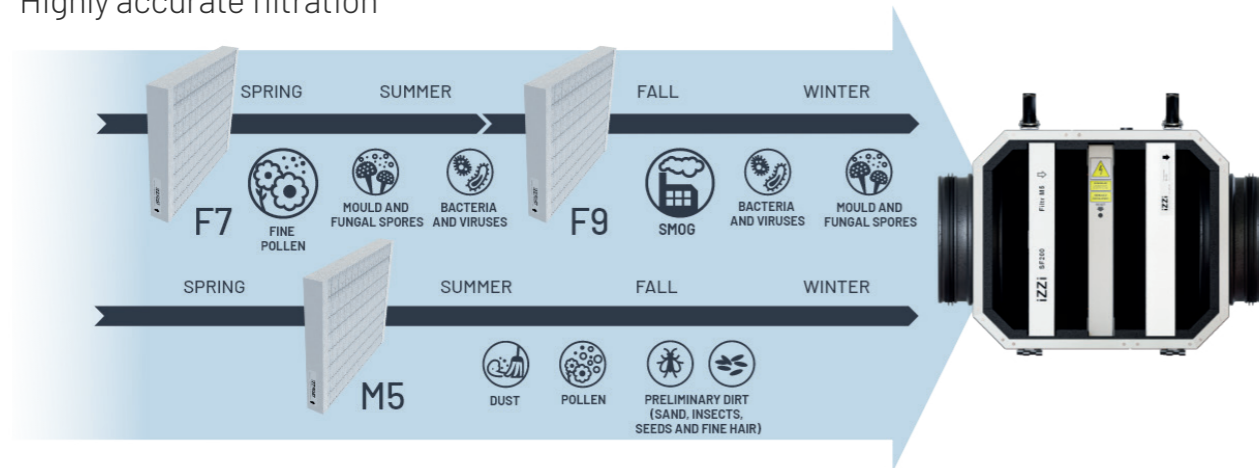
Comfort even down to -15

The enthalpy heat exchanger used in iZZi series reQnet recuperators allows the unit to operate efficiently without need to defrost the exchanger, even when the outside temperature drops to around -7°C. Therefore, the iZZi recuperators do not have a built-in pre-heater. However, when it is colder, in order to protect the heat exchanger, the recuperator automatics switches on the vacuum anti-freeze system, which consists in temporary decrease of the supply fan speed. All additional operating modes, such as ventilation mode and the possibility of changing the fans' capacity, are also blocked for this time.

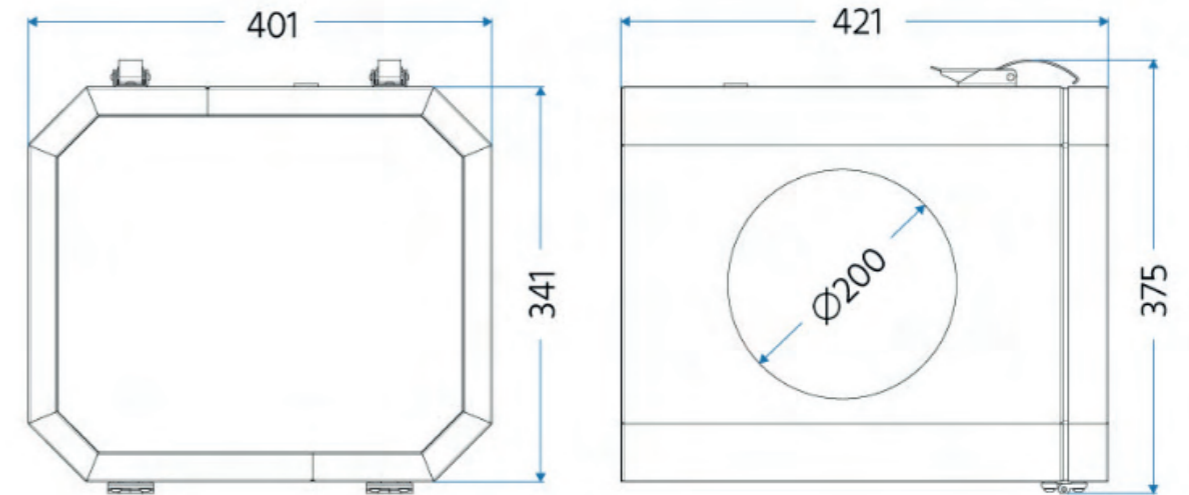
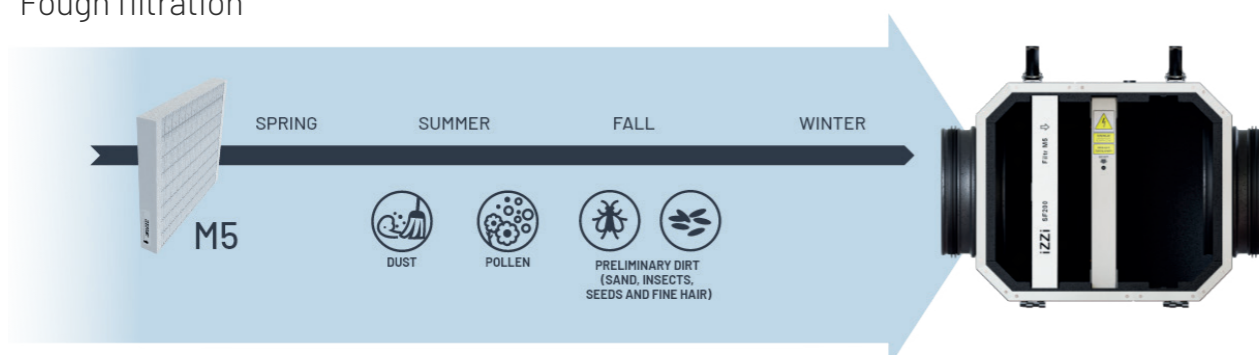
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Possible use of filter boxes during the year:

Highly accurate filtration



Fough filtration



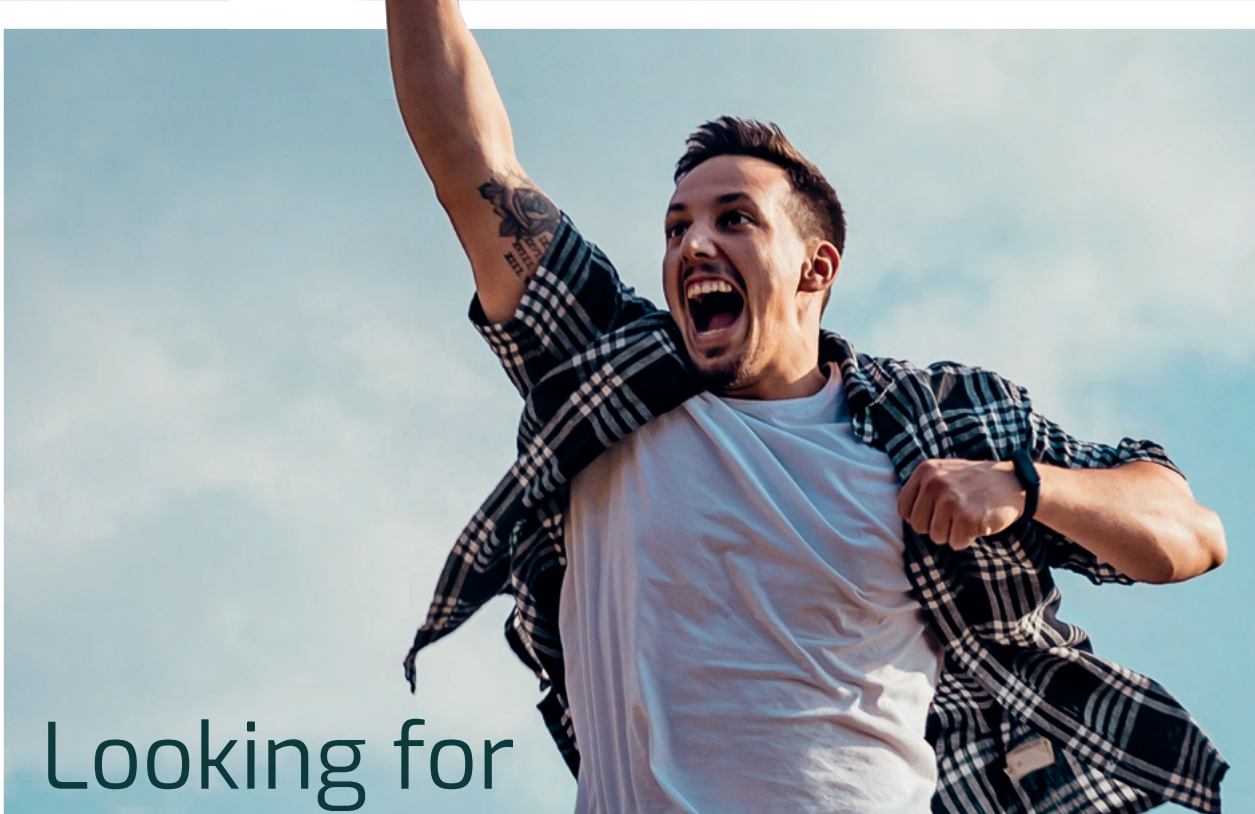
Box model	Anti-smog filter box with PTC pre-heater
Supply voltage	230V AC 50Hz
Rating power	500 W
Protection level	IPX3
Preliminary filter class	M5 / ePM10 75%
Preliminary filter surface	1,1 m2
Filter class(anti-smog)	F9* / ePM1 80%**
Filter class(anti-pollen)	F7* / ePM1 55%**
Fine filter surface	1,7 m2
Maximum air flow	do 550 m3/h
Housing material	stainless steel 46 dB(A)
Internal insulation	closed-cell foam PE 30 mm
Spigot diameter	Ø200 mm
Filter dimensions	350x300x40 mm

CENNIK24.pl is a sales platform, bringing together manufacturers of installation systems, including mechanical ventilation, recuperators and heat pumps. The portal offers all components of **PE-FLEX®** mechanical ventilation and **ReQnet** company recuperators. Buying on **CENNIK24**, you get high quality products at the most favorable prices.

Advantages:

- ▶ buying directly from manufacturers
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- ▶ fast delivery times
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