



Recuperation systems

CATALOG I / 2024

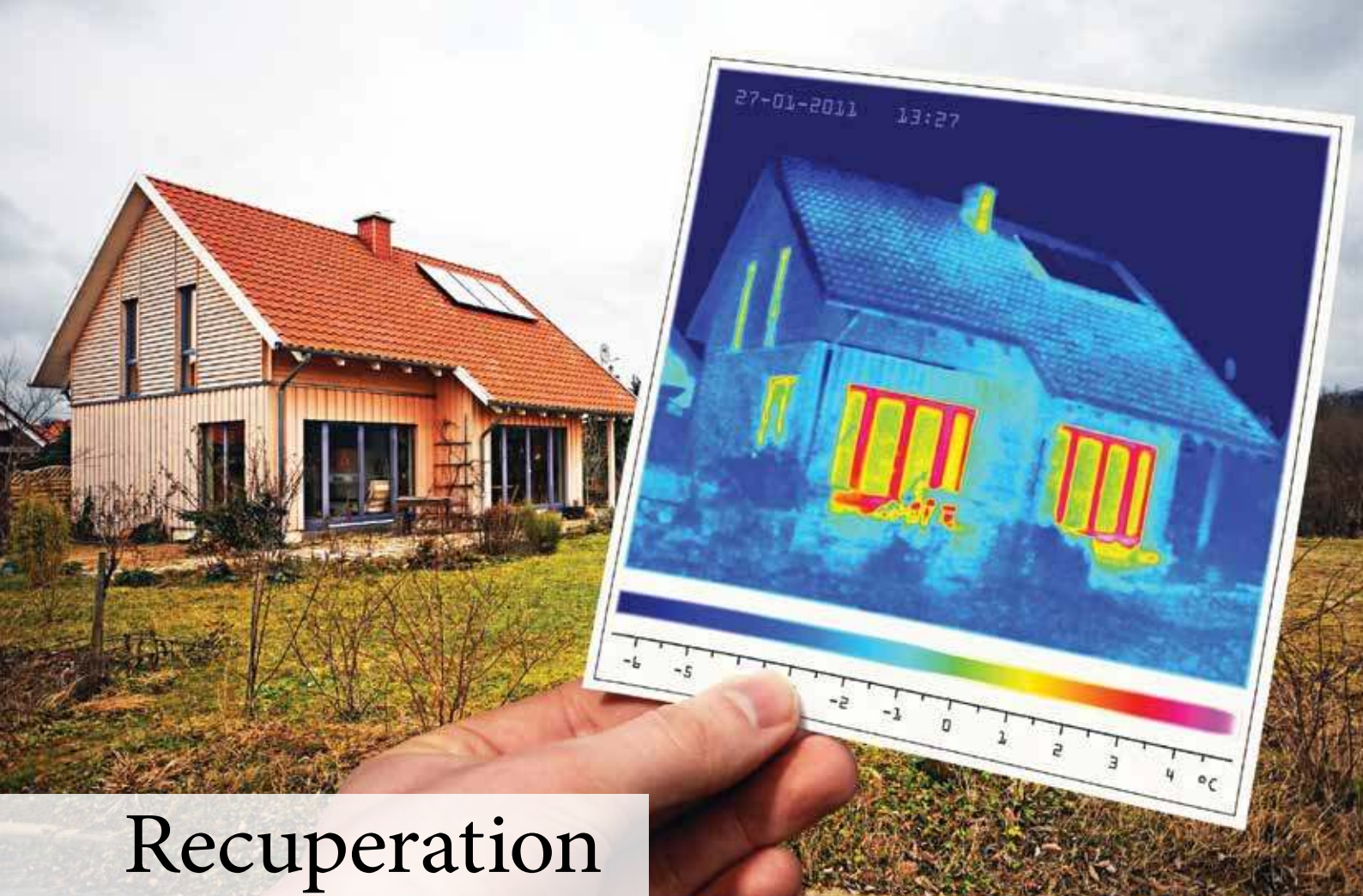
- ◆ RECUPERATORS
- ◆ RECUPERATION DUCTS
- ◆ BOXES AND DISTRIBUTORS





HEAT RECOVERY SYSTEMS - edition I / 2024

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Recuperation

Recuperation System

This is a modern mechanical ventilation system that involves the recovery of heat energy by means of a heat exchanger. This process takes place in a special air handling unit (recuperator) equipped with such an exchanger. The principle of operation of the ventilation system with heat recovery is the delivery and heating of fresh air into a residential building with used air, removed from the building through the heat exchanger.

Method of operation

Recuperation systems are used to reduce energy consumption and daily temperature stabi-

lization inside the building. In addition to heat recovery, recuperation offers many other advantages: the supply of fresh air, reduction of air humidity inside the building, no condensation on windows, no allergens, no insects (flies, mosquitoes), elimination of fungus and mould. Unlike gravity ventilation, mechanical and continuous air exchange is independent of ambient conditions. Mechanical ventilation can be further enhanced using a ground heat exchanger (GHE), in which the air preheats during winter and cools in the summer before entering the house.

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VENT-FLEX

VENT-FLEX System is the latest ventilation solution for houses, apartments and small-volume buildings. VENT-FLEX System consists of flexible ducts, plenum boxes, distribution boxes, by means of which you can quickly and efficiently perform the mechanical ventilation system in compliance with all European Union construction regulations.

One of the main advantages of VENT-FLEX is the flexibility of the system, small dimensions that allow installation in ceilings, walls and ceilings.

VENT-FLEX:

- **Flexible** during installation
- **Available dimensions include:** 63, 75 and 90 mm
 - **Easy installation** – without the need for special tools
 - Completely **tight and durable**
 - **Quiet and efficient**
- **High hygiene level of the installation** – thanks to the antistatic and antibacterial coating of the VENT-FLEX duct, it prevents the formation of fungus and mould, which has a significant effect on the quality of air supplied to the building.
- **No corrosion** – unlike traditional installations made by steel VENT-FLEX system eliminates spiro ducts the need to cut wires, e.g. through angle grinder during assembly which causes tearing off the zinc layer protecting the cable and subsequent corrosion of these places.
- **Quick and easy cleaning** of the entire installation – easy and efficient cleaning of the installation without limitations characteristic of conventional systems, such as, protruding mounting screws or tees, which often make it impossible to clean the installation or restrict the access.
- **Minimum pressure losses** – minimum number of fittings (tees, elbows), which generate point flow resistance significantly affecting the performance and

energy-saving features of the ventilation system.

- Unlike the conventional system, easy installation of VENT-FLEX and minimum number of mounting components ***make it possible to perform installation within 2-3 working days*** in a typical single detached dwelling.

TECHNICAL PROPERTIES

- High mechanical compressive strength of 8 kN/m² according to PN50086-24/ while maintaining high susceptibility to bending
- temperature range from -20°C to +60°C
- elasticity module 1,2 MPa
- elongation at break 50%
- fire resistance UL94 according to PN50068
- high tightness of the system / thanks to the use of EPDM gaskets the system meets tightness class C according to EN 12237
- noise dampening capacity
- resistant to alcohol, fats, oils and petrol
- relatively low air flow resistance
- resistance to atmospheric influences
 - no corrosion as a result
- Hygienic certificate PZH



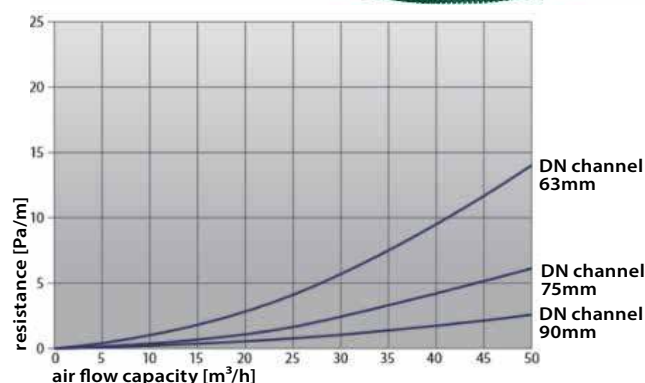
Technical parameters

Vent - Flex, Vent - Flex Premium

VENT-FLEX pipe is used to transport supply and extract air in mechanical ventilation systems in residential buildings. The pipe is manufactured in two variants - VENT-FLEX and VENT-FLEX PREMIUM.

The inner coating has anti-fungal and anti-bacterial additives. Long-term microbiological protection (effectiveness $\geq 99.98\%$) is provided by silver (Ag) and silica (SiO₂) nanoparticles. The inner layer also has antistatic additives, which reduces settling and dust accumulation.

The double-layered pipe is characterised by its high flexibility, allowing a very versatile distribution of the ventilation system. The pipe's construction provides high strength, which makes it possible, for example, to pour concrete.



Type of pipe:	VENT-FLEX			VENT-FLEX PREMIUM		
Outer diameter of pipe B [mm]	Ø63	Ø75	Ø90	Ø63	Ø75	Ø90
Pipe inner diameter A [mm]	Ø54	Ø64	Ø78	Ø54	Ø64	Ø78
Coil length [m]	50			50		
Temperature range for operation, installation and service [°C]	-20 ÷ 50					
Compression resistance	500 N					
(PN-EN 17192:2019-01)	E, s3					
Reaction to fire class	1300 N/mm2					
(PN-EN 13501-1)	Od -200 Pa do +200 Pa					
Modulus of elasticity	polyethylene (HDPE), colour blue			polyethylene (HDPE), UV-resistant, green colour ,		
Working pressure	polyethylene HDPE with biocidal coating, white colour			HDPE polyethylene with antistatic and biocidal micro-silver coating, grey colour		
Material	ventilation air transport					
(outer layer)	50 mb					

CAPACITY

Capacity in m ³ /h:	DN 63			DN 75			DN 90		
	2 m/s	2,5 m/s	3 m/s	2 m/s	2,5 m/s	3 m/s	2 m/s	2,5 m/s	3 m/s
1 pipe	15 m ³ /h	20 m ³ /h	25 m ³ /h	22 m ³ /h	28 m ³ /h	34 m ³ /h	34 m ³ /h	42 m ³ /h	51 m ³ /h
2 pipes	30 m ³ /h	40 m ³ /h	50 m ³ /h	44 m ³ /h	56 m ³ /h	68 m ³ /h	-	-	-
3 pipes	45 m ³ /h	60 m ³ /h	75 m ³ /h	66 m ³ /h	84 m ³ /h	102 m ³ /h	-	-	-

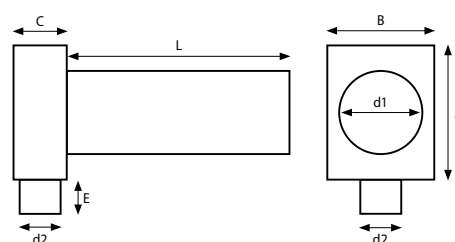
Plenum Boxes

Single Port Plenum Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 1x63/125	201	161	83	125	63	53	330
SK 1x75/125	201	161	92	125	75	53	330
SK 1x90/125	201	161	107	125	90	53	330
SK 1x63/100	201	161	83	100	63	53	330
SK 1x75/100	201	161	92	100	75	53	330

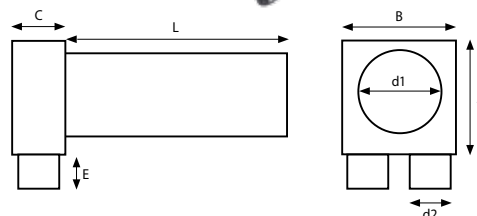


Two Port Plenum Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 2x63/125	171	171	83	125	63	53	330
SK 2x75/125	181	201	92	125	75	53	330
SK 2x90/125	201	221	107	125	90	53	330
SK 2x63/100	171	171	83	100	63	53	330
SK 2x75/100	181	201	92	100	75	53	330

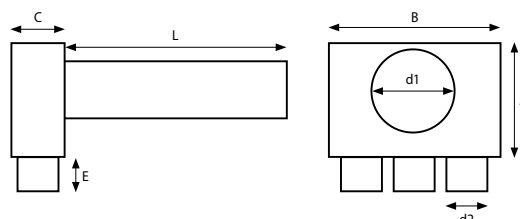


Three Port Plenum Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 3x63/125	171	256	83	125	63	53	330
SK 3x75/125	221	301	92	125	75	53	330
SK 3x75/160	221	301	92	160	75	53	330
SK 3x90/160	201	331	107	160	90	53	330
SK 3x90/200	330	240	106	200	90	53	330



Items marked in red are available in stock.

* We also make elements according to individual customer design.

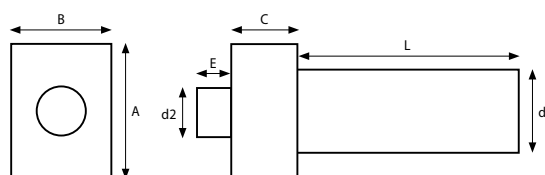
Straight Plenum Boxes

Single Port Straight Plenum Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 1x75/125P	201	152	101	125	75	53	330
SK 1x90/125P	201	152	101	125	90	53	330

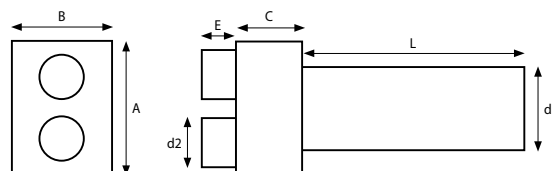


Two Port Straight Plenum Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 2x63/125P	201	152	101	125	63	53	330
SK 2x75/125P	201	152	101	125	75	53	330
SK 2x90/125P	221	152	101	125	90	53	330

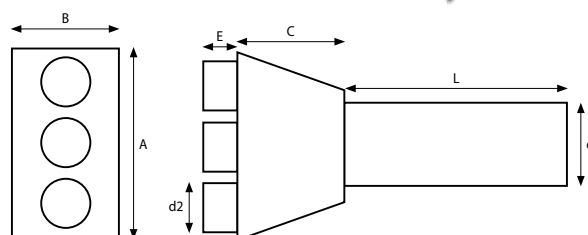


Three Port Straight Plenum Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 3x63/125P	281	152	161	125	63	53	330
SK 3x75/125P	281	152	161	125	75	53	330
SK 3x90/125P	331	152	221	125	90	53	330



Items marked in red are available in stock.

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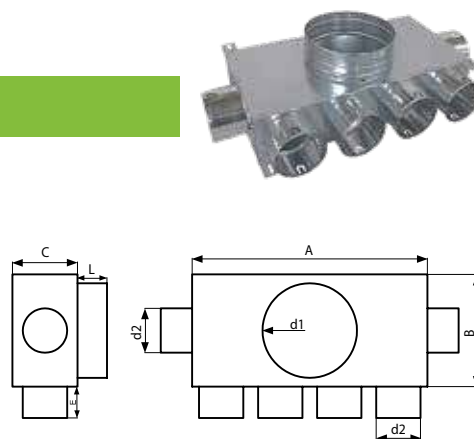
Flat distribution boxes

Six Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 6x63/160	standard	341	181	83	160	63	53	50
SK 6x75/160		401	201	92	160	75	53	50
SK 6x75/200		401	251	92	200	75	53	50
SK 6x63/160I	isolated	341	181	83	160	63	53	50
SK 6x75/160I		401	201	92	160	75	53	50
SK 6x75/200I		401	251	92	200	75	53	50

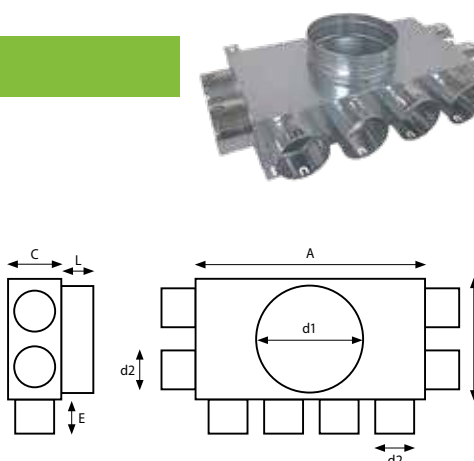


Eight Port Distribution Box

MATERIAL: galvanized / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 8x63/160	standard	341	181	83	160	63	53	50
SK 8x75/160		401	201	92	160	75	53	50
SK 8x75/200		401	251	92	200	75	53	50
SK 8x63/160I	isolated	341	181	83	160	63	53	50
SK 8x75/160I		401	201	92	160	75	53	50
SK 8x75/200I		401	251	92	200	75	53	50

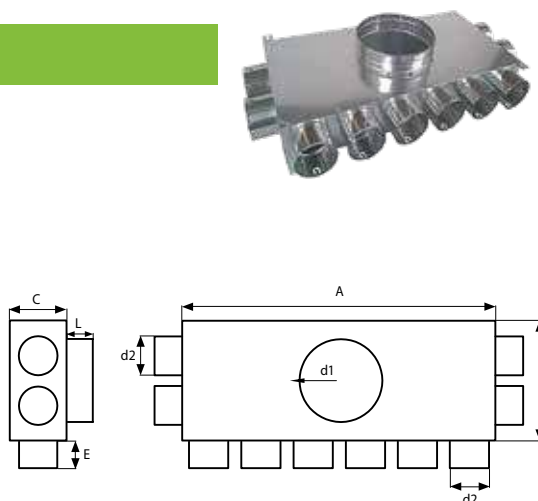


Nine Port Distribution Box

MATERIAL: galvanized / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 10x63/160	standard	511	181	83	160	63	53	50
SK 10x63/200		511	256	83	200	63	53	50
SK 10x75/160		601	251	92	160	75	53	50
SK 10x75/200		601	251	92	200	75	53	50
SK 10x63/160I	isolated	511	181	83	160	63	53	50
SK 10x63/200I		511	256	83	200	63	53	50
SK 10x75/160I		601	251	92	160	75	53	50
SK 10x75/200I		601	251	92	200	75	53	50



Items marked in red are available in stock.

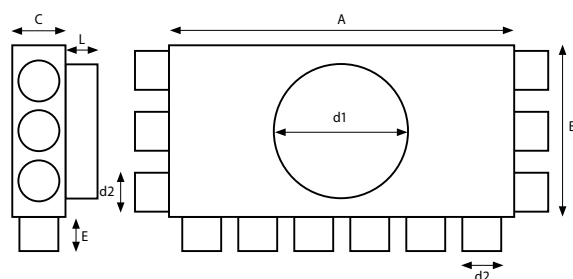
* We also make elements according to individual customer design.

Twelve Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 12x63/160	standard	511	256	83	160	63	53	50
SK 12x63/200		511	256	83	200	63	53	50
SK 12x75/160		601	301	92	160	75	53	50
SK 12x75/200		601	301	92	200	75	53	50
SK 12x63/160I	isolated	341	181	83	160	63	53	50
SK 12x63/200I		341	181	83	160	63	53	50
SK 12x75/160I		341	181	83	160	63	53	50
SK 12x75/200I		341	181	83	160	63	53	50

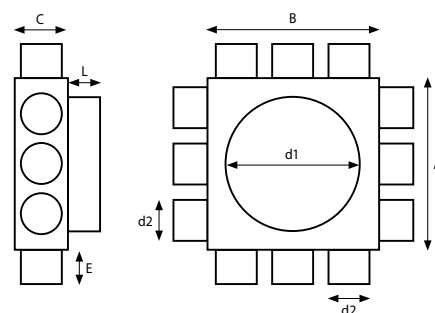


Twelve Port Distribution Box (square)

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 12x63/160KW	standard	256	256	83	160	63	53	50
SK 12x63/200KW		256	256	83	200	63	53	50
SK 12x75/160KW		301	301	92	160	75	53	50
SK 12x75/200KW		301	301	92	200	75	53	50

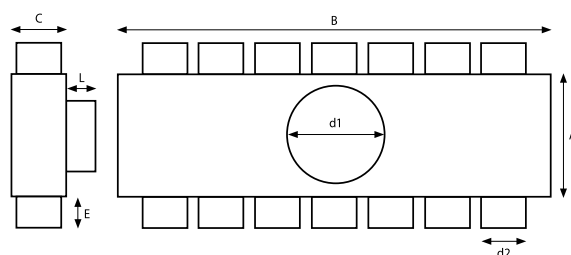


Fourteen Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 14x63/160	standard	201	591	83	160	63	53	50
SK 14x63/200		251	591	83	200	63	53	50
SK 14x75/160		201	701	92	160	75	53	50
SK 14x75/200		251	701	92	200	75	53	50
SK 14x63/160I	isolated	201	591	83	160	63	53	50
SK 14x63/200I		251	591	83	200	63	53	50
SK 14x75/160I		201	701	92	160	75	53	50
SK 14x75/200I		251	701	92	200	75	53	50



Items marked in red are available in stock.

* We also make elements according to individual customer design.

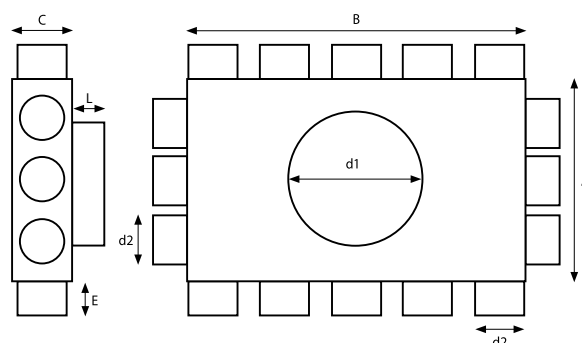
Flat distribution boxes

Sixteen Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 16x63/160	standard	256	431	83	160	63	53	50
SK 16x63/200		256	431	83	200	63	53	50
SK 16x75/160		301	501	92	160	75	53	50
SK 16x75/200		301	501	92	200	75	53	50
SK 16x63/160I	isolated	256	431	83	160	63	53	50
SK 16x63/200I		256	431	83	200	63	53	50
SK 16x75/160I		301	501	92	160	75	53	50
SK 16x75/200I		301	501	92	200	75	53	50

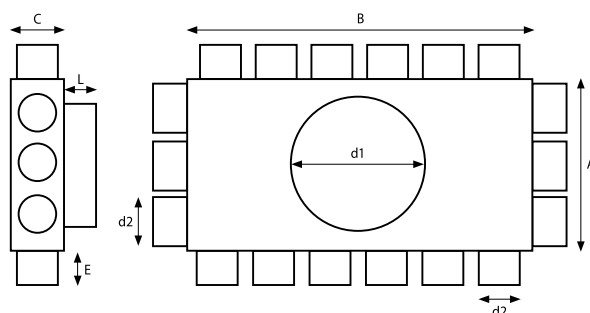


Eighteen Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 18x63/160	standard	256	511	83	160	63	53	50
SK 18x63/200		256	511	83	200	63	53	50
SK 18x75/160		301	601	92	160	75	53	50
SK 18x75/200		301	601	92	200	75	53	50
SK 18x63/160I	isolated	256	511	83	160	63	53	50
SK 18x63/200I		256	511	83	200	63	53	50
SK 18x75/160I		301	601	92	160	75	53	50
SK 18x75/200I		301	601	92	200	75	53	50

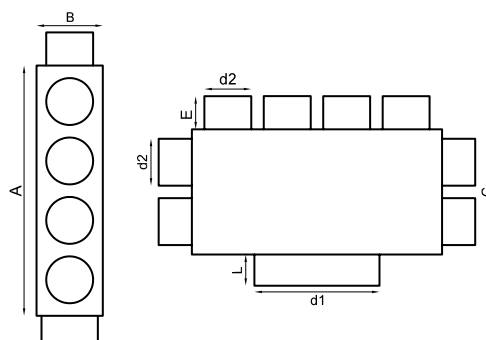


Flat manifolds with rectangular outlet

MATERIAL: galvanised / stainless steel*

SIZE:

Index	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 6x90/200X90	447	240	106	200 x 90	90	53	50
SK 8X90/200X90	447	240	106	200 x 90	90	53	50
SK 8X75/200X90	400	200	93	200 x 90	75	53	50
SK 10X75/200X90	600	250	93	200 x 90	75	53	50
SK 12X75/200X90	600	300	93	200 x 90	75	53	50



Items marked in red are available in stock.

* We also make elements according to individual customer design.

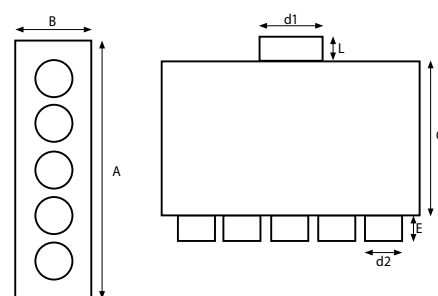
Single row pipe distributors

Five Port Straight Plenum Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 5x75/125P	std	501	152	301	125	75	53	50
SK 5x90/160P		601	202	321	160	90	53	50
SK 5x75/125PI	isol.	501	152	301	125	75	53	50
SK 5x90/160PI		601	202	321	160	90	53	50

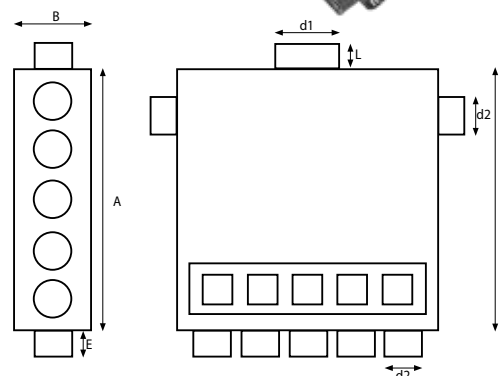


Seven Port Distribution Box with An Adjustable Panel

MATERIAL: galvanised steel

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 7x75/125P	std	500	152	501	125	75	53	50



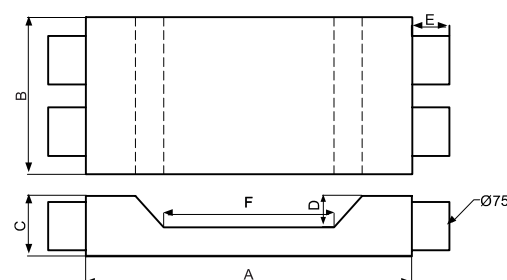
Single and double bottom plate

MATERIAL: galvanised steel

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	D [mm]	F [mm]	E [mm]	d2 [mm]
SK 1x75 TYP A	standard	370	180	85	54	120	53	75
SK 1x75 TYP B		360	120	85	44	140	53	75
SK 1x75 TYP C		480	120	85	44	260	53	75

Index	Type	A [mm]	B [mm]	C [mm]	D [mm]	F [mm]	E [mm]	d2 [mm]
SK 2x75 TYP A	std	460	221	85	44	260	53	75



* We also make elements according to individual customer design.

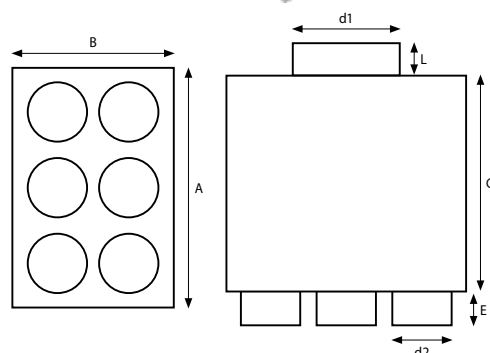
Two-row distribution boxes

Six Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 6x75/160D	standard	301	222	301	160	75	53	60
SK 6x90/160D		356	242	321	160	90	53	50
SK 6x75/200D		301	222	301	200	75	53	50
SK 6x90/200D		356	242	321	200	90	53	50
SK 6x75/160DI	isolated	301	222	301	160	75	53	60
SK 6x90/160DI		356	242	321	160	90	53	50
SK 6x75/200DI		301	222	301	200	75	53	50
SK 6x90/200DI		356	242	321	200	90	53	50

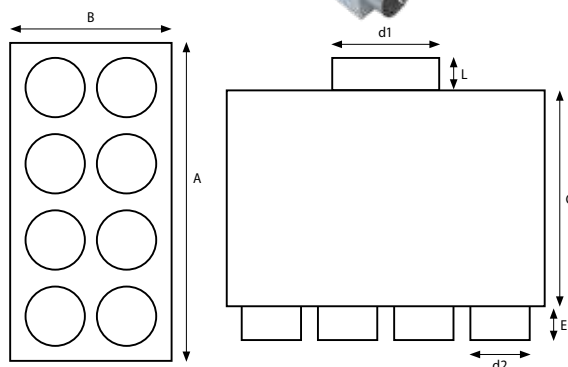


Ten Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 8x75/160D	standard	401	222	301	160	75	53	50
SK 8x90/160D		471	242	321	160	90	53	50
SK 8x75/200D		401	222	301	200	75	53	50
SK 8x90/200D		471	242	321	200	90	53	50
SK 8x75/160DI	isolated	401	222	301	160	75	53	50
SK 8x90/160DI		471	242	321	160	90	53	50
SK 8x75/200DI		401	222	301	200	75	53	50
SK 8x90/200DI		471	242	321	200	90	53	50

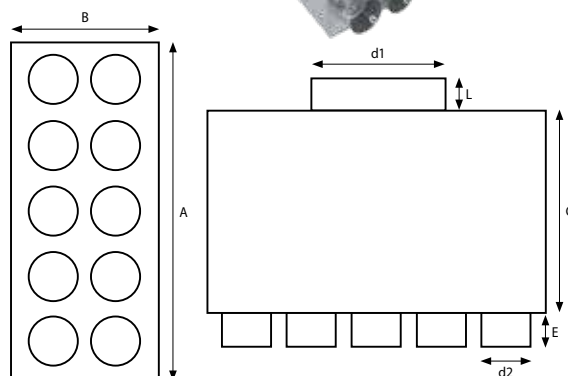


Ten Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Typ	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 10x75/160D	standard	501	222	301	160	75	53	50
SK 10x90/160D		601	242	321	160	90	53	50
SK 10x75/200D		501	222	301	200	75	53	50
SK 10x90/200D		601	242	321	200	90	53	50
SK 10x75/160DI	isolated	501	222	301	160	75	53	50
SK 10x90/160DI		601	242	321	160	90	53	50
SK 10x75/200DI		501	222	301	200	75	53	50
SK 10x90/200DI		601	242	321	200	90	53	50



Items marked in red are available in stock.

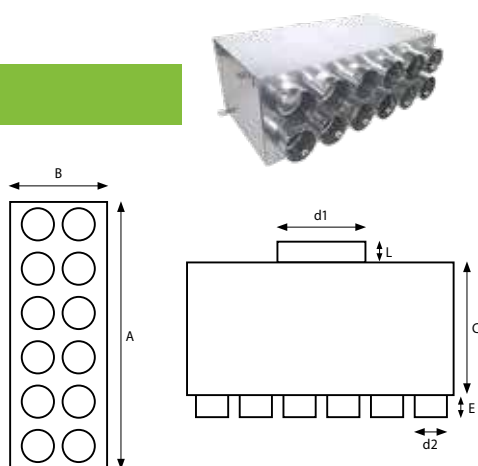
* We also make elements according to individual customer design.

Twelve Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 12x75/160D	standard	601	222	301	160	75	53	50
SK 12x90/160D		701	242	321	160	90	53	50
SK 12x75/200D		601	222	301	200	75	53	50
SK 12x90/200D		701	242	321	200	90	53	50
SK 12x75/160DI	isolated	601	222	301	160	75	53	50
SK 12x90/160DI		701	242	321	160	90	53	50
SK 12x75/200DI		601	222	301	200	75	53	50
SK 12x90/200DI		701	242	321	200	90	53	50

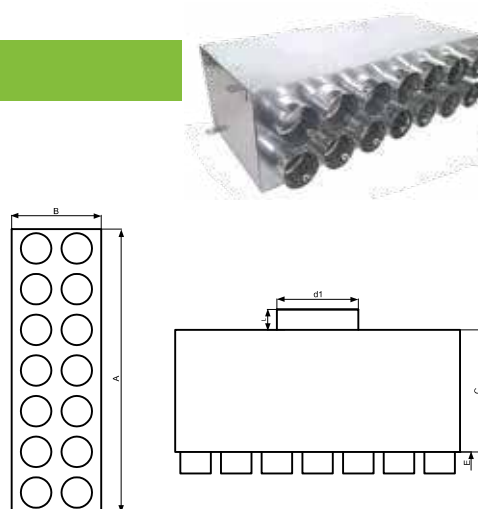


Fourteen Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 14x75/160D	std	701	222	301	160	75	53	50
SK 14x75/200D		701	222	301	200	75	53	50
SK 14x75/160DI	isol.	701	222	301	160	75	53	50
SK 14x75/200DI		701	222	301	200	75	53	50

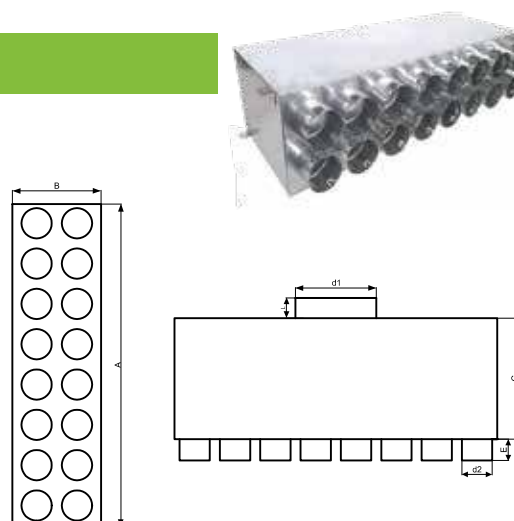


Sixteen Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 16x75/200D	std	801	222	301	200	75	53	50
SK 16x75/200DI	isol.	801	222	301	200	75	53	50



Items marked in red are available in stock.

* We also make elements according to individual customer design.

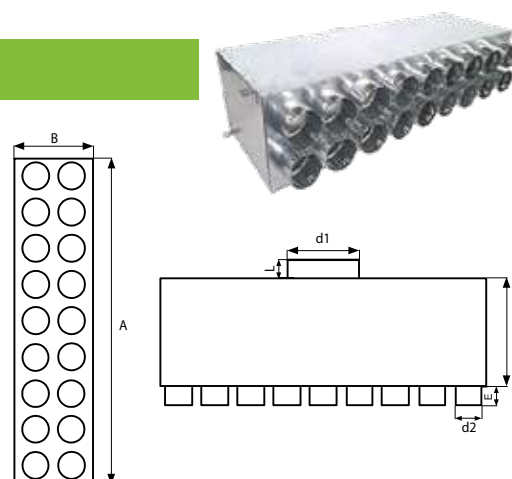
Two-row distribution boxes

Eighteen Port Distribution Box

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 18x75/200D	std	901	222	301	200	75	53	50
SK 18x75/200DI	isol.	901	222	301	200	75	53	50

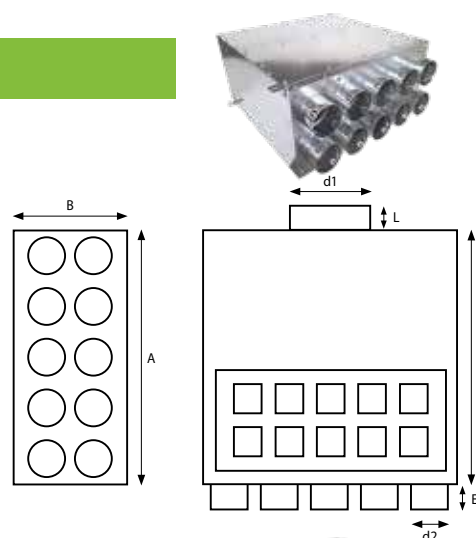


Ten Port Distribution Box with An Adjustable Panel

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 10x75/160P	std	501	257	501	160	75	53	50

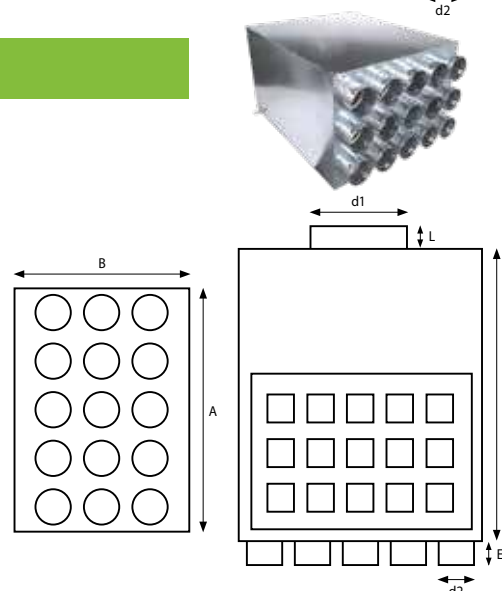


Fifteen Port Distribution Box with An Adjustable Panel

MATERIAL: galvanised / stainless steel*

SIZE:

Index	Type	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
SK 15x75/200P	std	501	362	601	200	75	53	50



* We also make elements according to individual customer design.

Connection Fittings

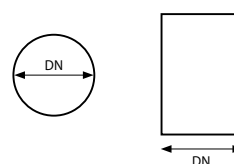
Round Channel Connector

DESCRIPTION: It is used to connect two round flexible ducts.

MATERIAL: plastic

SIZE:

Product name	Index	DN [mm]
Round connector	SK03/Ø	63
Round connector	SK03/Ø	75
Round connector	SK03/Ø	90



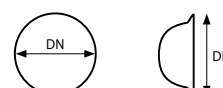
Stopper

DESCRIPTION: It is intended for closing unused ports of the distribution boxes.

MATERIAL: plastic

SIZE:

Product name	Index	DN [mm]
Stopper	SK05/Ø	63
Stopper	SK05/Ø	75
Stopper	SK05/Ø	90
Stopper	SK05/Ø	125



Gasket

DESCRIPTION: It is used to seal the connections between the boxes and the flexible channels.

MATERIAL: rubber

SIZE:

Product name	Index	DN [mm]
Gasket	SK06/Ø	63
Gasket	SK06/Ø	75
Gasket	SK06/Ø	90



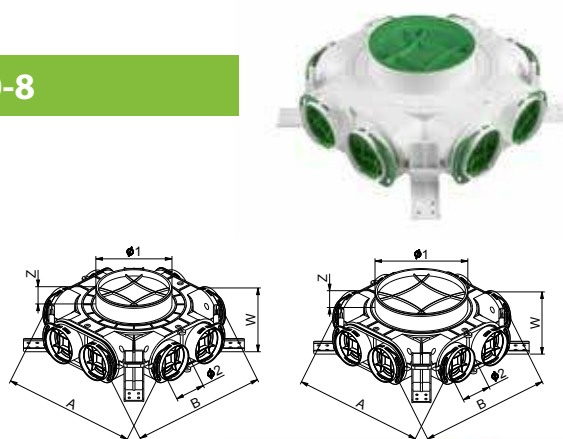
Items marked in red are available in stock.

* We also make elements according to individual customer design.

Plastic boxes and elements

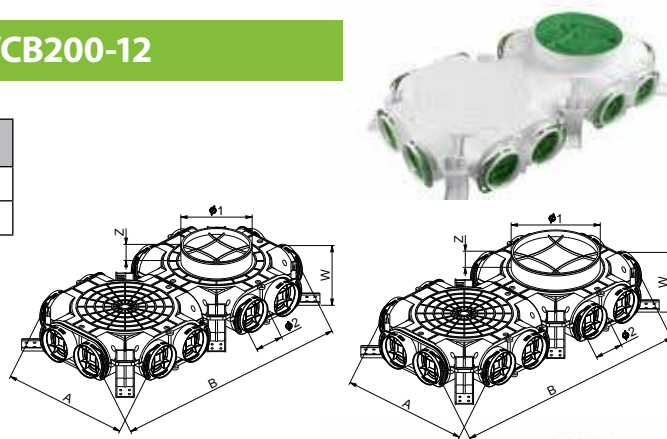
Plastic distribution box VCB160 - 8, VCB200-8

Index	Ø1	Ø2	A [mm]	B [mm]	W [mm]	Z [mm]	Cena
VCB160-8	160	75	347	349	104	38	245
VCB200-8	200	75	347	349	104	38	245



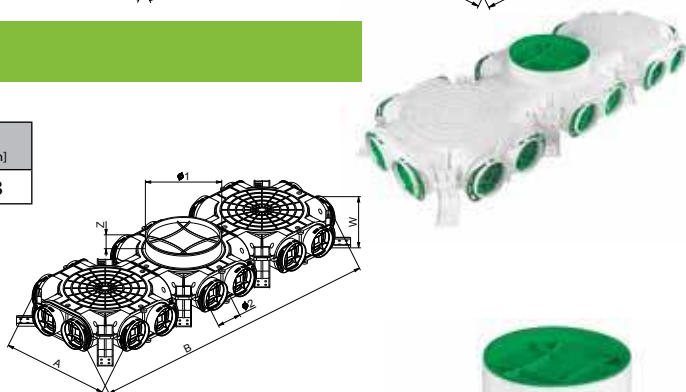
Plastic distribution box VCB160 - 12, VCB200-12

Index	Ø1	Ø2	A [mm]	B [mm]	W [mm]	Z [mm]
VCB160-12	160	75	347	639	104	38
VCB200-12	200	75	347	639	104	38



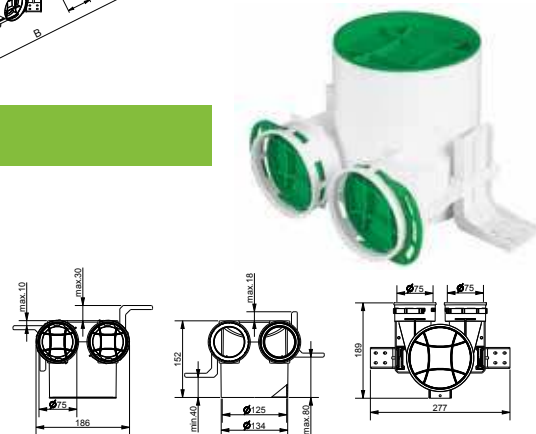
Plastic distribution box VCB200-16

Index	Ø1	Ø2	A [mm]	B [mm]	W [mm]	Z [mm]
VCB200-16	160	75	347	927	104	38



Plastic distribution box VPB125

Index	Ø1	Ø2	A [mm]	B [mm]	W [mm]	Z [mm]
VPB125-2	125	75	189	277	152	40-80
VPB125-3	125	75	195	268	152	40-81

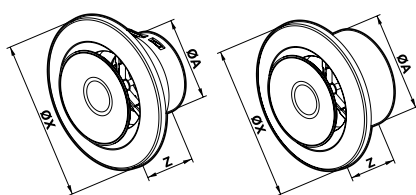


Items marked in red are available in stock.

* We also make elements according to individual customer design.

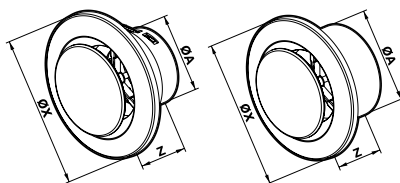
Supply air diffusers VAN

Index	ØA	ØX	Z [mm]
VAN75	75	155	65
VAN125	125	185	60



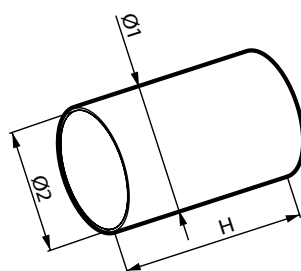
Exhaust air diffusers VAW

Index	ØA	ØX	Z [mm]
VAW75	75	155	65
VAW125	125	185	60



Circular duct

Index	Ø	Ø1	Ø2	H [mm]
KO125-05	125	128	125	500
KO125-10	125	128	125	1000
KO125-15	125	128	125	1500



Cable Knife

Index	Product name
VNK75G/PRX	nóż green
VNK75R/PRX	nóż red

Items marked in red are available in stock.

* We also make elements according to individual customer design.

Round Channel System

A unique system of metal ducts that allows for fast assembly; the ducts are joined using a push-in joint system which eliminates the need for couplers and reduces installation costs as a consequence. The adjustable elbows allow to adjust the radius in the range from 45° to 90° which eliminates the need to purchase similar fittings with various angles and therefore, allows to save time and money.

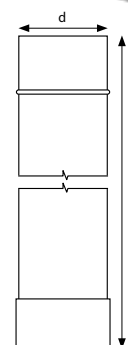
Straight Pipe

DESCRIPTION: The pipe is designed to bring fresh air from the outside to the living space and to remove the used air from living spaces to the outside of the building. Components are joined with a push-in joint system.

MATERIAL: galvanised steel

SIZE:

Product name	Index	d1 [mm]							
Straight pipe	DPO01/ Ø	100	125	150	160	180	200	250	300



45° and 90° Tees

DESCRIPTION: It is used to divide the air stream at 90 and 45 degrees. Components are joined with a push-in joint system.

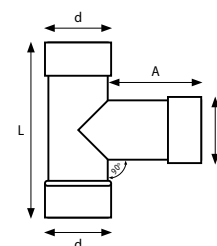
MATERIAL: galvanised steel

SIZE:

Product name	d1 [mm]	L [mm]	A [mm]
Tee	100	260	140
Tee	125	280	140
Tee	150	310	140
Tee	160	320	140

Product name	d1 [mm]	L [mm]	A [mm]
Tee	180	340	140
Tee	200	360	140
Tee	250	450	140
Tee	300	500	140

Note! For 45° tees, please provide DPO06/Ø index



Adjustable Elbow

DESCRIPTION: It is intended to adjust the direction of airflow to any angle within the range from 45 to 90 degrees. Components are joined with a push-in joint system.

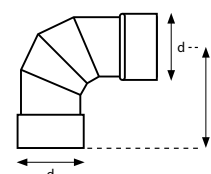
MATERIAL: galvanised steel

SIZE:

Product name	Index	d1 [mm]	A [mm]
Adjustable Elbow	DPOK07/ Ø	100	150
Adjustable Elbow	DPOK07/ Ø	125	175
Adjustable Elbow	DPOK07/ Ø	150	200
Adjustable Elbow	DPOK07/ Ø	160	210

Product name	Index	d1 [mm]	A [mm]
Adjustable Elbow	DPOK07/ Ø	180	230
Adjustable Elbow	DPOK07/ Ø	200	250
Adjustable Elbow	DPOK07/ Ø	250	300
Adjustable Elbow	DPOK07/ Ø	300	350

Items marked in red are available in stock.



* We also make elements according to individual customer design.

Dampers and Reducers

Reducer

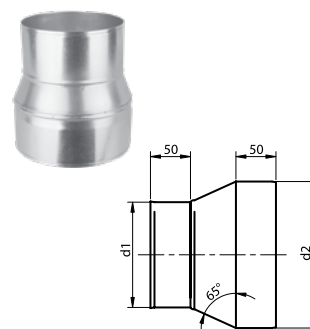
OPIS: It is used to change the diameter of a ventilation duct. Connecting elements with a socket system.

MATERIAL: galvanised steel

SIZE:

Product name	Index	d1 [mm]	d2 [mm]
Reducer	DPOK17/ Ø	100	according to the client's order
Reducer	DPOK17/ Ø	125	
Reducer	DPOK17/ Ø	150	
Reducer	DPOK17/ Ø	160	

Product name	Index	d1 [mm]	d2 [mm]
Reducer	DPOK17/ Ø	180	according to the client's order
Reducer	DPOK17/ Ø	200	
Reducer	DPOK17/ Ø	250	
Reducer	DPOK17/ Ø	300	



Damper With a String or a Handle

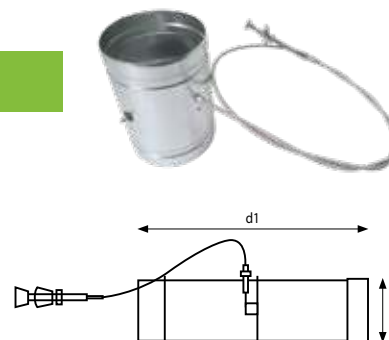
DESCRIPTION: It is used to adjust the air flow by means of a pull cord or handle. Connecting elements with a socket system.

MATERIAL: galvanised steel

SIZE:

Product name	Index	d1 [mm]	L [mm]
Damper	DPOK 09/ Ø	100	150
Damper	DPOK 09/ Ø	125	185
Damper	DPOK 09/ Ø	150	220

Product name	Index	d1 [mm]	L [mm]
Damper	DPOK 09/ Ø	160	240
Damper	DPOK 09/ Ø	180	270
Damper	DPOK 09/ Ø	200	300

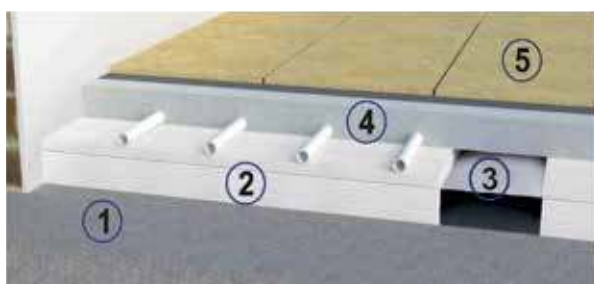


* We also make elements according to individual customer design.

VENT-FLEX PLUS

VENT-FLEX Plus is a system of flat channels that requires only a 50 mm insulation layer. The installation is to be laid down directly on the concrete substrate. The system is equipped with all the components needed to perform even the most complex ventilation system. Quick to install, easy to conceal in ceilings, subfloors, walls.

VENT-FLEX Plus is also ideal for use in the forced hot air distribution system from the HAD fireplace.



1. Substrate (e.g. concrete)
2. Insulation of approx. 50 mm
3. Flat ventilation channel 150x50 mm
4. Screed (primary subfloor) approx. 60 mm
5. Top floor finish (tiles, panels, parquet)





* we also make elements according to an individual project customer

* We also produce components according to individual customer's

VENT-FLEX PLUS

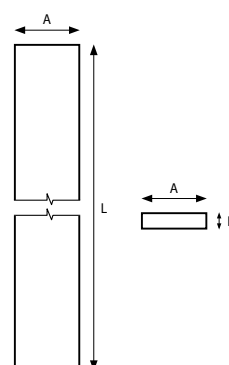
Straight duct

DESCRIPTION: The channel is designed to bring fresh air from the outside to the living space and to remove the used air from living spaces to the outside of the building.

MATERIAL: galvanised steel

SIZE:

Product name	Index	A [mm]	B [mm]
Straight duct	DPP01/size	200	50
Straight duct	DPP01/size	150	50
Straight duct	DPP01/size	200	90



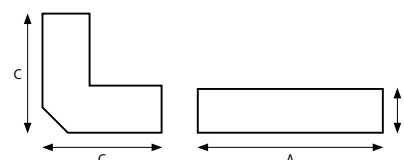
Elbow: wall - ceiling

DESCRIPTION: The elbow is used when the direction of the airflow from the vertical to horizontal and vice versa is to be adjusted.

MATERIAL: galvanised steel

SIZE:

Product name	Index	A [mm]	B [mm]	C [mm]
Elbow: wall-ceiling	DPP03/size	200	50	130
Elbow: wall-ceiling	DPP03/size	150	50	130
Elbow: wall-ceiling	DPP03/size	200	90	130



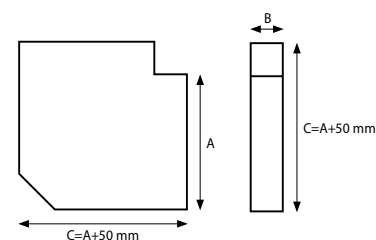
Elbow

DESCRIPTION: The elbow is used when the direction of the airflow is to be adjusted by 90 degrees.

MATERIAL: galvanised steel

SIZE:

Product name	Index	A [mm]	B [mm]	C [mm]
Elbow	DPP05/size	200	50	250
Elbow	DPP05/size	150	50	250
Elbow	DPP05/size	200	90	250



Items marked in red are available in stock.

* We also make elements according to individual customer design.

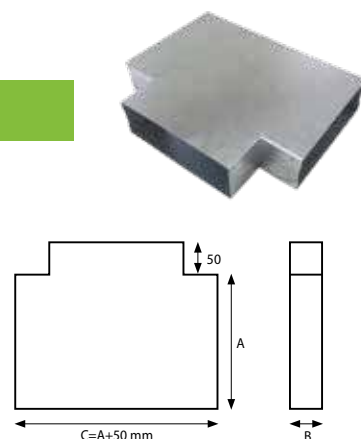
Tee

DESCRIPTION: T-pipe is used to separate air flows.

MATERIAL: galvanised steel

SIZE:

Product name	Index	A [mm]	B [mm]	C [mm]
Tee	DPP06/size	200	50	300
Tee	DPP06/size	150	50	300
Tee	DPP06/size	200	90	300



Connector

DESCRIPTION: It is a component to connect all channels and flat elements with dimensions 200x50 and 150x50.

MATERIAL: galvanised steel

SIZE:

Product name	Index	A [mm]	B [mm]	C [mm]
Connector	DPP18/size	200	50	55
Connector	DPP18/size	150	50	55
Connector	DPP18/size	200	90	55



Fitting with round outlet

DESCRIPTION: The fitting is used for connecting a riser supplying or discharging to/from the flat duct and to connect the diffuser.

MATERIAL: galvanised steel

SIZE:

Product name	Index	Króciec – d1	A [mm]	B [mm]	C [mm]	L [mm]
Fitting	DPP16/size	Ø 100	250	150	50	50
Fitting	DPP16/ size	Ø 125	250	150	50	50
Fitting	DPP16/ size	Ø 160	250	200	50	50
Fitting	DPP16/ size	Ø 160	250	200	90	50

Items marked in red are available in stock.



* We also make elements according to individual customer design.

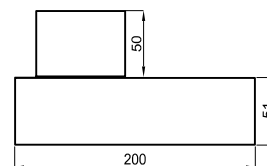
VENT-FLEX Plus

Moulder with transition to Vent-Flex

MATERIAL: galvanised steel

SIZE:

Product name	Index	Króciec	A [mm]	B [mm]	C [mm]	L [mm]
Kształtka Vent flex	DPP VF/2x75x200x50	75	200	200	51	50
Kształtka Vent flex	DPP VF/2x75x150x50	75	200	150	51	50

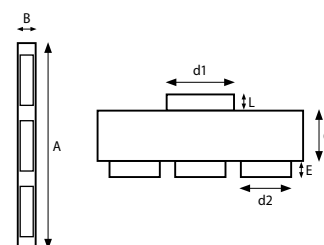


Flat distributor

MATERIAL: galvanised steel

SIZE:

Product name	Index	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
Flat distributor	SK 3x150x50/200x50	605	55	150	200	150	50	50

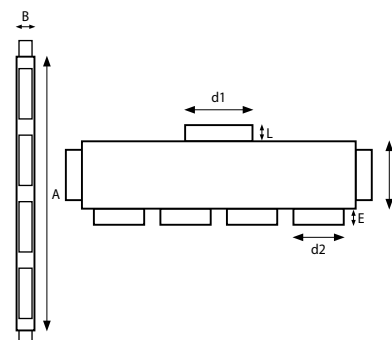


Flat distributor

MATERIAL: galvanised steel

SIZE:

Product name	Index	A [mm]	B [mm]	C [mm]	d1 [mm]	d2 [mm]	E [mm]	L [mm]
Flat distributor	SK 6x150x50/200x50	805	55	200	200	150	50	50



Items marked in red are available in stock.

* We also make elements according to individual customer design.

Air Intakes and Exhaust Vents

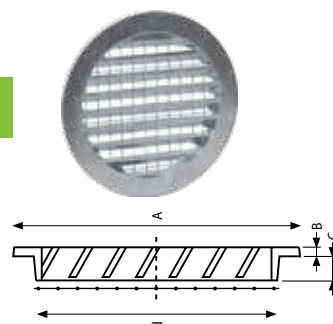
Air intake port / exhaust vent

DESCRIPTION: The air intake is intended to suck fresh air from the outside of the building, while the exhaust vent is intended to eject the used air.

MATERIAL: aluminium

SIZE:

Product name	Index	d [mm]	A [mm]	B [mm]	C [mm]
Air intake port / exhaust ven	DPO60/Ø	160	185	5	15
Air intake port / exhaust ven	DPO60/Ø	200	225	5	15
Air intake port / exhaust ven	DPO60/Ø	250	275	5	15



Spherical air intake / exhaust vent

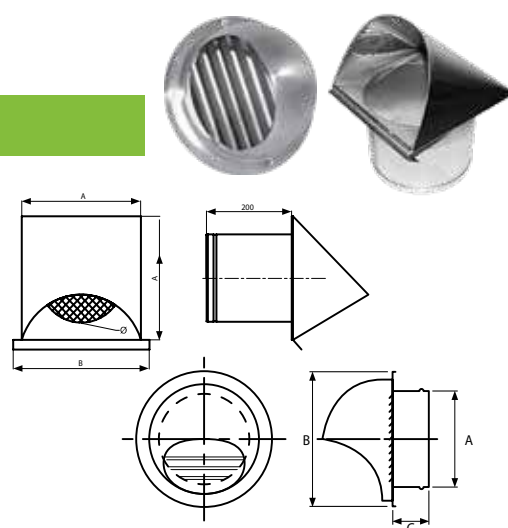
DESCRIPTION: The air intake / exhaust vent with the drip cap.

MATERIAL: chrome-nickel

SIZE:

Product name	Index	d [mm]	A [mm]	B [mm]	C [mm]
Pherical intake	DPO81/ Ø	160	155	192	62
Pherical intake	DPO81/ Ø	200	195	253	62

Product name	Index	d [mm]	A [mm]	B [mm]
Intake with the drip cap	DPO24/Ø	160	190	235
Intake with the drip cap	DPO24/Ø	200	230	230
Intake with the drip cap	DPO24/Ø	250	280	325
Intake with the drip cap	DPO24/Ø	315	345	390



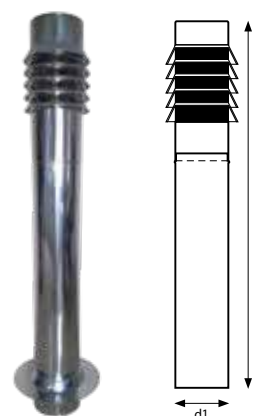
Ground air intake

DESCRIPTION: It is advisable to use the ground air intake in case of the GHE systems.

MATERIAL: stainless steel*

SIZE:

Product name	Index	d1 [mm]	H [mm]
Ground air intake	SK07/Ø	200	1500
Ground air intake	SK07/Ø	250	1500
Ground air intake	SK07/Ø	300	1500



Integrated intake/outlet

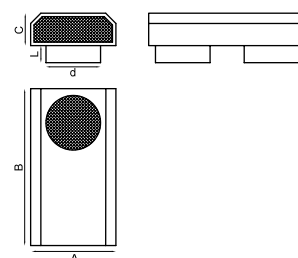
DESCRIPTION: Integrated intake/outlet.

MATERIAL: stainless steel*

SIZE:

Index	d [mm]	A [mm]	B [mm]	C [mm]	L [mm]
SW-RE-CZER/160/02	160	253	463	105	50
SW-RE-CZER/200/02	200	293	543	105	50

Items marked in red are available in stock.



* We also make elements according to individual customer design.

Insulation foams

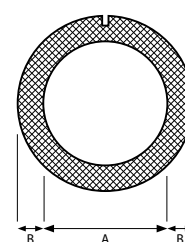
Grey insulation foam

DESCRIPTION: The insulation foam is intended to insulate the flexible ducts in areas where the air supplied to living spaces may be cooled or overheated.

MATERIAL: foamed polyethylene

SIZE:

Product name	Index	A [mm]	B [mm]	L [mb]	Packing [mb]
Grey insulation foam	TER63/13ST	63	13	2	50
Grey insulation foam	TER76/13ST	76	13	2	40
Grey insulation foam	TER89/13ST	89	13	2	26



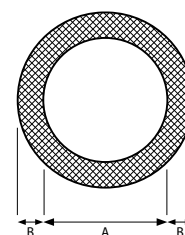
Rubber insulation foam

DESCRIPTION: The insulation foam is intended to insulate the flexible ducts in areas where the air supplied to living spaces may be cooled or overheated.

MATERIAL: rubber

SIZE:

Product name	Index	D [mm]	Insulation thickness [mm]	L [mb]	Packing [mb]
Rubber insulation foam	ACE 63/13	63	13	2	30
Rubber insulation foam	ACE 76/13	76	13	2	28
Rubber insulation foam	ACE 89/13	89	13	2	20



Adhesive rock wool

DESCRIPTION: A self-adhesive rock wool sandwich mat covered with reinforced aluminium foil. The rock wool has a pre-applied adhesive layer over the entire surface protected with a PE film, easy to remove before the installation.

MATERIAL: rock wool

SIZE:

Product name	Index	Width [mm]	Length [mm]	Packing [m ²]
Adhesive rock wool 20 mm	KLIMAFIX 20/10	1 000	1 000	10
Adhesive rock wool 30 mm	KLIMAFIX 30/8	1 000	8 000	8
Adhesive rock wool 40 mm	KLIMAFIX 40/6	1 000	6 000	6
Adhesive rock wool 50 mm	KLIMAFIX 50/5	1 000	5 000	5

Items marked in red are available in stock.



* We also make elements according to individual customer design.

Insulated cables

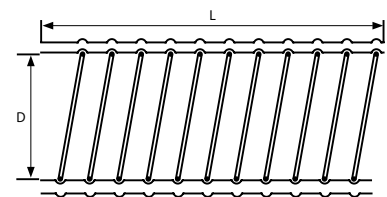
Flex Insulated Aluminium Duct

DESCRIPTION: It is a thermally insulated flexible duct, protecting against heat losses. Hot air distribution with temperature up to 150°C and up to 250°C.

MATERIAL: aluminium, rock wool as insulation coating

SIZE:

Product name	Index	d1 [mm]							
Aluminium conduit l=10 mb	DPO38/Ø	102	127	152	163	203	254	305	315
Aluminium conduit l=5 mb	DPO39/Ø								



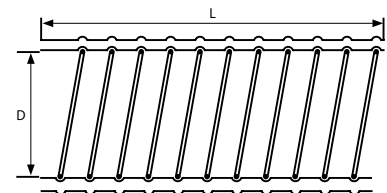
Insulated Aluminium Flexible Duct with Antibacterial Coating

DESCRIPTION: Strong yet very flexible channels for direct and quick connection of the recuperator to the system. Recommended for air supply systems in places, where high hygienic quality of the air is required, such as, kindergartens, schools and single-family houses, especially in case of household members susceptible to allergies.

MATERIAL: polyethylene with fungicide and bactericide, reinforced with non woven fabric and steel spiral; on the outside - aluminium foil laminated with polyethylene

SIZE:

Product name	Index	d1 [mm]							
Aluminium conduit l=10 mb	DPO138/Ø	102	127	152	163	203	254	305	315



Items marked in red are available in stock.

* We also make elements according to individual customer design.

Diffusers

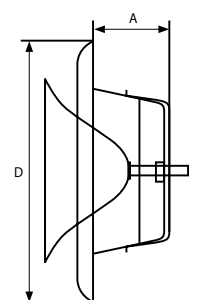
Intake Diffuser

DESCRIPTION: It allows for air supply to a room - full control.

MATERIAL: galvanised steel, powder painting

SIZE:

Product name	Index	d1 [mm]								
Intake Diffuser	DPO30/Ø	100	125	150	160	180	200	250	300	



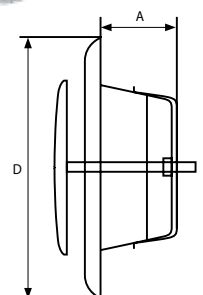
Exhaust Diffuser

DESCRIPTION: It allows for air exhaust to a room - full control.

MATERIAL: galvanised steel, powder painting

SIZE:

Product name	Index	d1 [mm]								
Exhaust Diffuser	DPO31/Ø	100	125	150	160	180	200	250	300	



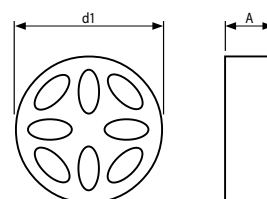
Round Damper with the Silencing Function

DESCRIPTION: Control damper with a silencer. It is intended to control the airflow and to function as a silencer. You can combine them in a series.

MATERIAL: polyurethane

SIZE:

Product name	Index	d1 [mm]	A [mm]
Damper	SK 02/100	100	50
Damper	SK 02/125	125	50



Items marked in red are available in stock.

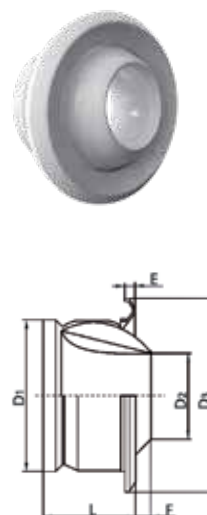
* We also make elements according to individual customer design.

Long range nozzle

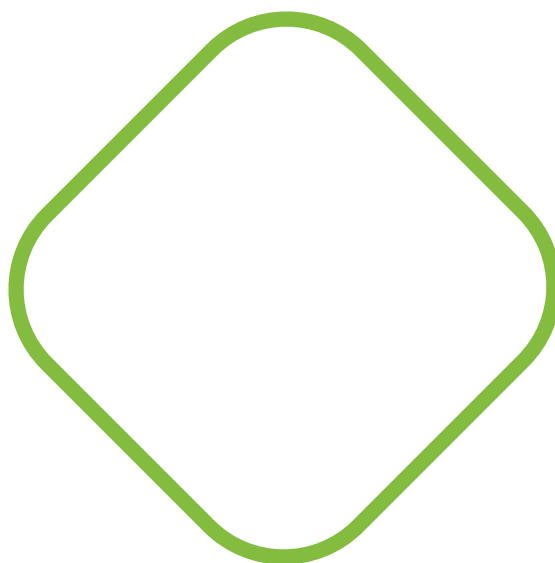
DESCRIPTION: KHA long range nozzles are used in high rooms with large volumes such as theatres, cinemas and industrial halls. With a high volume flow there is The high volume flow rate results in a low sound pressure level. The KHA nozzle can be used for both high and low volume flow rates. It is possible to use the nozzle for both horizontal and vertical discharge. The nozzle can be used for both horizontal and vertical discharge. The design of the swivel lenticular element enables. The design of the lenticular swivel element allows the air discharge angle to be changed by 30° in any direction without. The design of the lenticular swivel element enables changing the air discharge angle by 30° in any direction without changing the resistance and acoustic power. The KHA nozzle has a nipple dimension.

MATERIAL: aluminium, powder painting RAL 9016 (white)

SIZE:



Product name	Index	d1 (mm)	d2 (mm)	d3 (mm)	E (mm)	F (mm)	L (mm)
Long range nozzle	KHA	100	55	148	20	2	95
Long range nozzle	KHA	125	64	185	10	4	89
Long range nozzle	KHA	160	82	210	21	10	123
Long range nozzle	KHA	200	108	273	16	14	127
Long range nozzle	KHA	250	135	301	24	17	175
Long range nozzle	KHA	315	180	380	25	30	180
Long range nozzle	KHA	400	230	483	24	47	223
Long range nozzle	KHA	500	255	625	47	50	270



* We also make elements according to individual customer design.

Mounting Materials

Perforated strap

DESCRIPTION: The perforated strap is intended to suspend or mount galvanised pipes in the channel - ventilation systems.

MATERIAL: perforated galvanised steel strap

SIZE:

Product name	Index	Packing (mb)
Perforated strap	SK08	25



Self-Adhesive Aluminium Insulating Tape

DESCRIPTION: The non-reinforced aluminium tape, flame resistant up to the temperature of 150 degrees.

MATERIAL: aluminium on paper backing, adhesive

SIZE:

Product name	Index	Packing (mb)
Aluminium tape	SK04/50x50	50



Items marked in red are available in stock.

* We also make elements according to individual customer design.

Air Handling Units



* other air handling units available

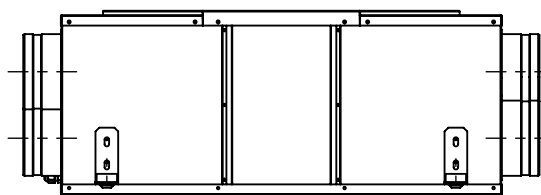
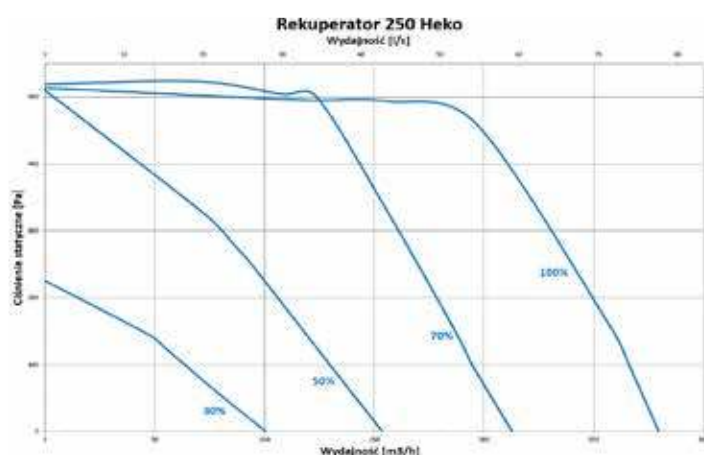
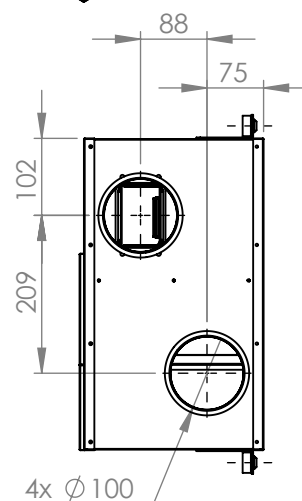
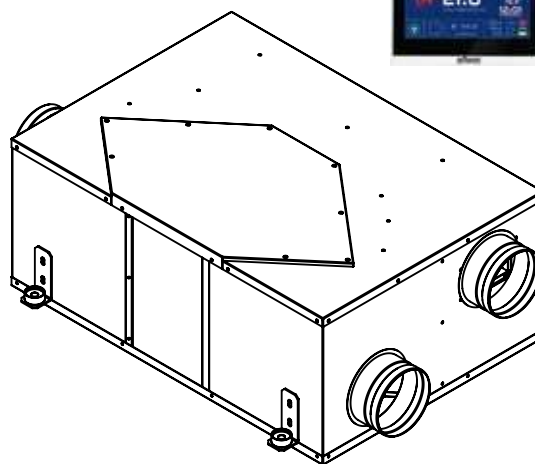
Recuperator 250 Heko

Construction - recuperator structure made of galvanised sheet metal or powder-coated galvanised sheet metal in white. Acoustic and thermal insulation is provided by 6mm thick rubber mat and other materials with thermal and acoustic insulating properties.

Heat exchanger - the most efficient and reliable polystyrene enthalpy exchanger with high heat exchange efficiency (up to 90% efficiency), made by reputable companies with many years of experience and offering their products to the best producers of air handling units on the market.

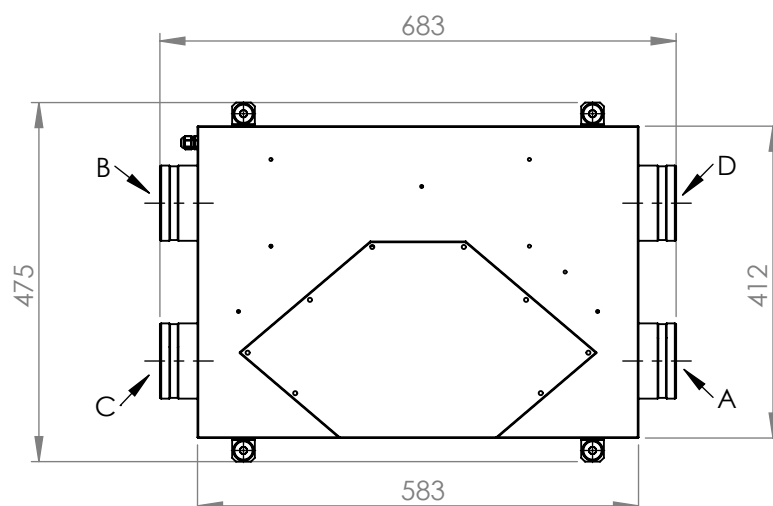
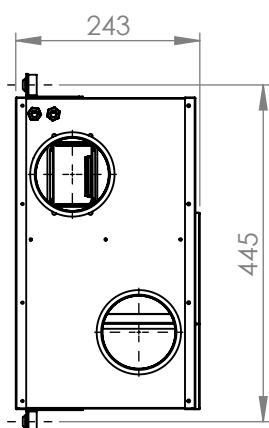
Fans - direct current (EC) motors of the renowned ZHIEL-ABEGG company have been used, thanks to which the air handling unit maintains a constant preset air flow, which guarantees reliability and energy-efficient, quiet operation. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full fan speed range. An unquestionable advantage of the EC motor is its high KPD (up to 90%).

Control - advanced automation makes it possible to precisely adjust the air handling unit's parameters to the current installation and prevailing weather conditions. Continuous regulation of fan rotation, time schedule of settings, anti-freeze control, bypass operation regulation are just some of the controller functions which allow optimisation of the unit's operation.





Technical information	VEKO 250 H Basic	VEKO 250 H Classic	VEKO 250 H Premium
Supply voltage	230V / 50 Hz		
Fan	2x Radial with EC motor Zhiel-Abegg		
Maximum fan power	2 pcs. x 90W		
Maximum fan current consumption	2 x 0,39A		
Fan speed	4230 min ⁻¹		
Maximum discharge air temperature	-20 to +50 °C		
Exchanger type	enthalpic		
Maximum exchanger efficiency	up to 90 %		
Exchanger material	polystyren		
Casing material	galvanized steel	galvanized steel	painted
Insulation	6 mm, foam rubber		
Filter - inlet	G4		
Filter - exhaust	G4		
Air connection diameter	Ø100mm		
Weight	16,3 kg		
Capacity at 100 Pa	265 m ³ /h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	682mm x 474mm x 243mm		
Power of pre-heater	Brak		
Noise level	58 dB	58 dB	58 dB
Energy class	A	A	A
Total appliance power	-	0,18 kW	0,18 kW
Total power consumption of the appliance	-	0,8 A	0,8 A



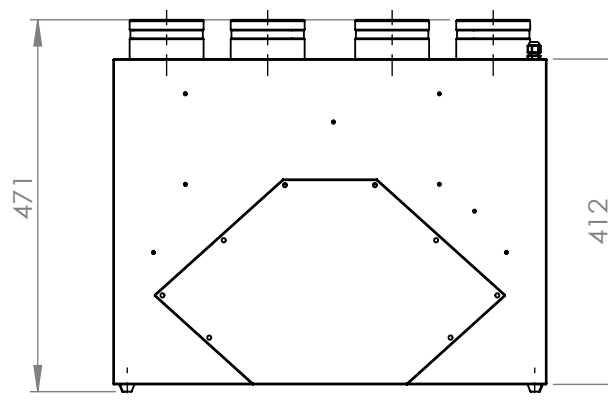
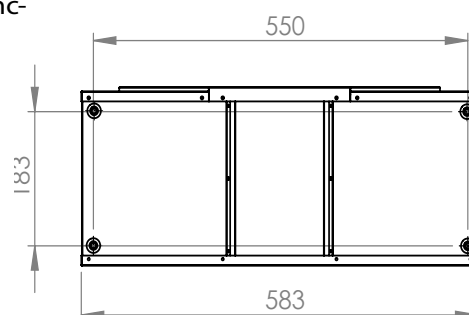
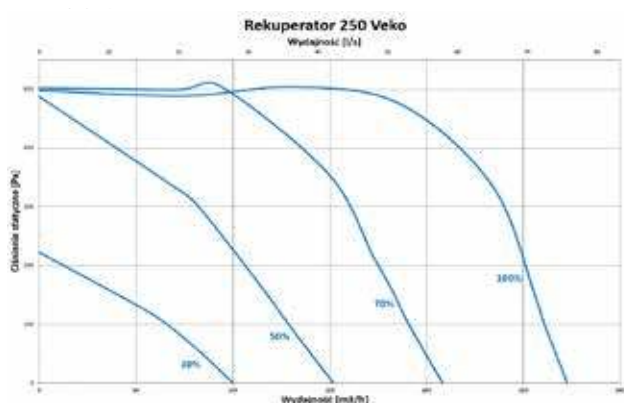
Recuperator 250 Veko

Construction - recuperator structure made of galvanised sheet metal or powder-coated galvanised sheet metal in white. Acoustic and thermal insulation is provided by 6mm thick rubber mat and other materials with thermal and acoustic insulating properties.

Heat exchanger - the most efficient and reliable polystyrene enthalpy exchanger with high heat exchange efficiency (up to 90% efficiency), made by reputable companies with many years of experience and offering their products to the best producers of air handling units on the market.

Fans - direct current (EC) motors of the renowned ZHIEL-ABEGG company have been used, thanks to which the air handling unit maintains a constant preset air flow, which guarantees reliability and energy-efficient, quiet operation. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full fan speed range. An unquestionable advantage of the EC motor is its high KPD (up to 90%).

Control - advanced automation makes it possible to precisely adjust the air handling unit's parameters to the current installation and prevailing weather conditions. Continuous regulation of fan rotation, time schedule of settings, anti-freeze control, bypass operation regulation are just some of the controller functions which allow optimisation of the unit's operation.





ENERGETIC
EFFICIENCY



EASY
ASSEMBLY



GOOD
PRICE



ECO
PROJECT

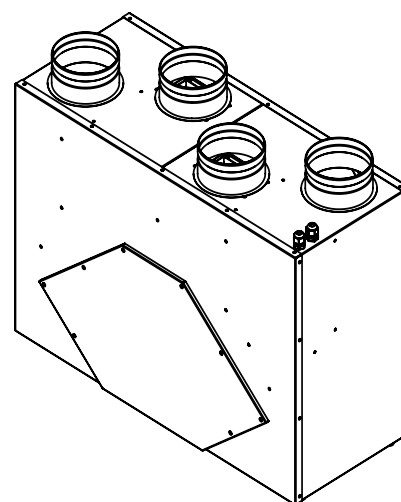
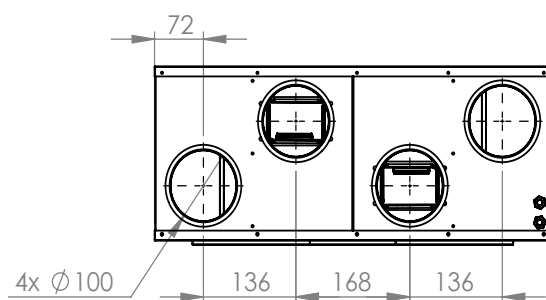
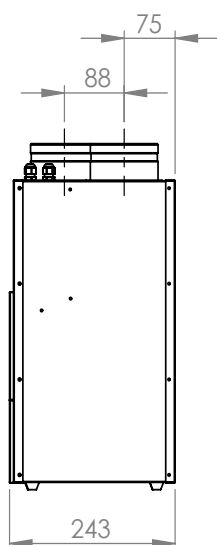


REMOTE
CONTROL



GUARANTEE

Technical information	VEKO 250 H Basic	VEKO 250 H Classic	VEKO 250 H Premium
Supply voltage	230V / 50 Hz		
Fan	2x Radial with EC motor Zhiel-Abegg		
Maximum fan power	2 pcs. x 90W		
Maximum fan current consumption	2 x 0,39A		
Fan speed	4230 min ⁻¹		
Maximum discharge air temperature	-20 to +50 °C		
Exchanger type	enthalpic		
Maximum exchanger efficiency	up to 90 %		
Exchanger material	polystyren		
Casing material	galvanized steel	galvanized steel	galvanised painted steel
Insulation	6 mm, foam rubber		
Filter - inlet	G4		
Filter - exhaust	G4		
Air connection diameter	Ø100mm		
Weight	16,3 kg		
Capacity at 100 Pa	265 m ³ /h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	682mm x 474mm x 243mm		
Power of pre-heater	Brak		
Noise level	58 dB	58 dB	58 dB
Energy class	A	A	A
Total appliance power	-	0,18 kW	0,18 kW
Total appliance current consumption [A]	-	0,8 A	0,8 A



Recuperator PRO MINI 300 V/H

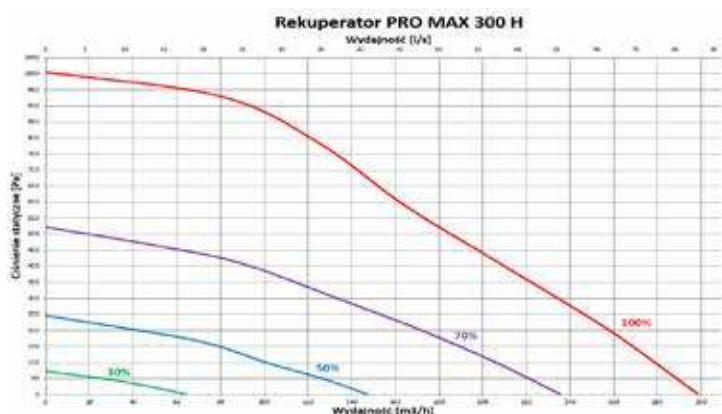
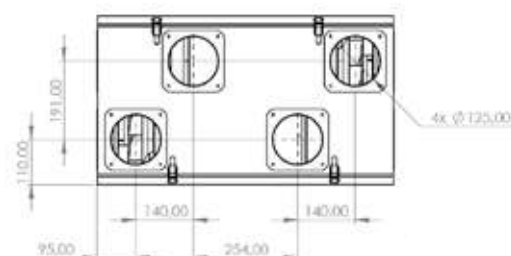
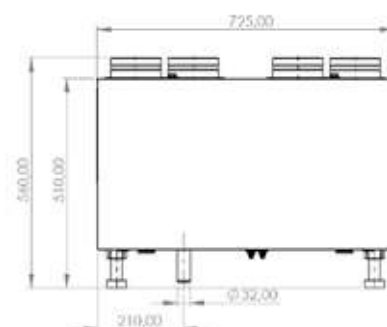
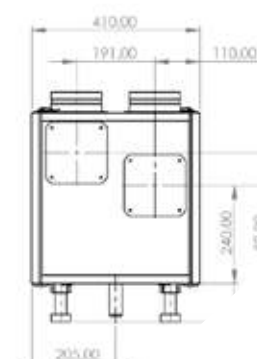
Construction - recuperator structure made of galvanised sheet metal, powder-coated in white. Acoustic and thermal insulation is made of 19mm thick mineral wool and other materials with thermal and acoustic insulating properties.

Heat exchanger - the most effective and reliable cross-flow aluminium heat exchanger with high heat exchange efficiency (up to 90% efficiency), made by reputable companies such as CORE, RECUTECH or ZERN with many years of experience and offering their products to the best producers of air handling units on the market.

Fans - direct current (EC) motors of the renowned ZHIEL-ABEGG company have been used, thanks to which the air handling unit maintains constant preset air data, which guarantees reliability and energy-efficient, quiet operation. Equipped with an external rotor and forward curved blades. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full speed range of the fan. An unquestionable advantage of the EC motor is its high KPD coefficient (up to 90%).

Bypass - the offered AHUs are equipped with a by-pass ensuring, if necessary, the possibility of cooling the room thanks to the direct supply of cool air from outside during the summer period, without the necessity of replacing the exchanger with a summer cassette, which, from the perspective of time and operation, is quite cumbersome.

Control - advanced automatics makes it possible to precisely adjust the air handling unit's parameters to the current installation and prevailing weather conditions. Smooth adjustment of fan rotation, time schedule of settings, anti-freeze control, regulation of bypass operation are just some of the controller functions allowing for optimisation of the unit's operation.





ENERGETIC
EFFICIENCY



EASY
ASSEMBLY



GOOD
PRICE



ECO
PROJECT



REMOTE
CONTROL



GUARANTEE

Technical information	PRO MINI 300 V/H Basic	PRO MINI 300 V/H Classic	PRO MINI 300 V/H Premium
Supply voltage	230V / 50 Hz		
Fan	2x Radial with EC motor Zhiel-Abegg		
Maximum fan power	2 pcs. x 170 W		
Maximum fan current consumption	2x1,75 A		
Fan speed	4000 min ⁻¹		
Maximum discharge air temperature	-20 to +50 °C		
Exchanger type	cross-flow	cross-flow	enthalpy
Maximum exchanger efficiency	up to 90 %		
Exchanger material	aluminium		
Casing material	galvanised painted steel		
Insulation	19 mm, foam rubber		
Filter - inlet	M5		
Filter - exhaust	G4		
Air connection diameter	Ø125 mm		
Weight	28 kg		
Capacity at 100 Pa	V 290 m ³ /h / H 280 m ³ /h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	725 mm x 245 mm x 585 mm		
Power of pre-heater	None	0,5 kW	0,5 kW
Noise level	54 dB	54 dB	54 dB
Energy class	A	A	A
Current consumption of the pre-heater	None	2,17 A	2,17 A
Total unit power	-	0,84 kW	0,84 kW
Total unit current consumption	-	3,8 A	3,8 A
Bypass	Manual	Automatic	Automatic
Internet module	Option	Option	Option

Recuperator PRO MAX 400 H

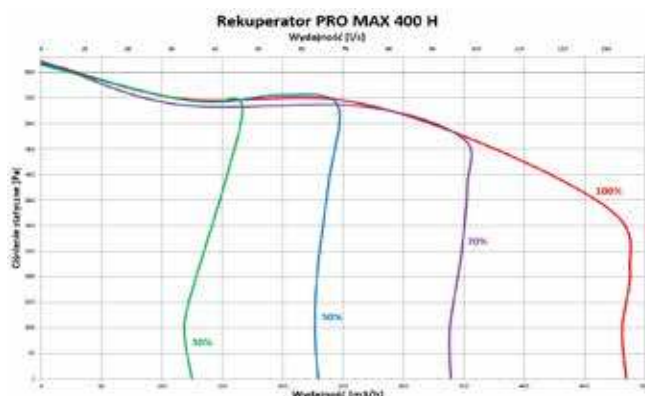
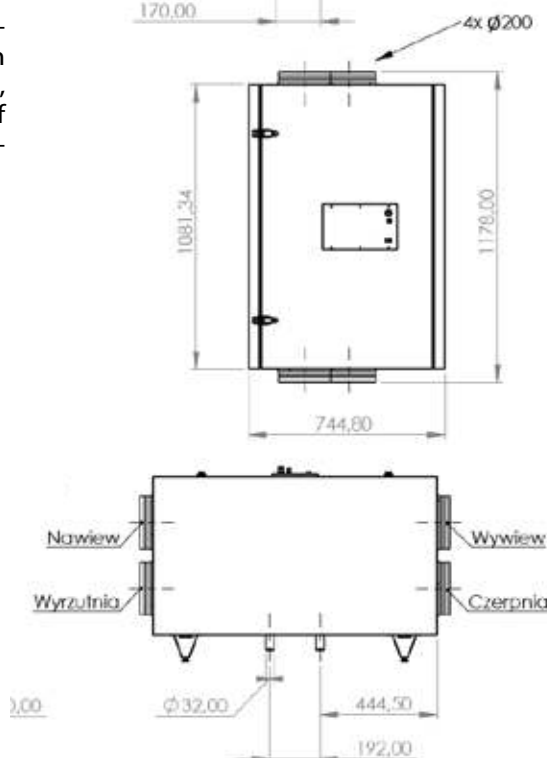
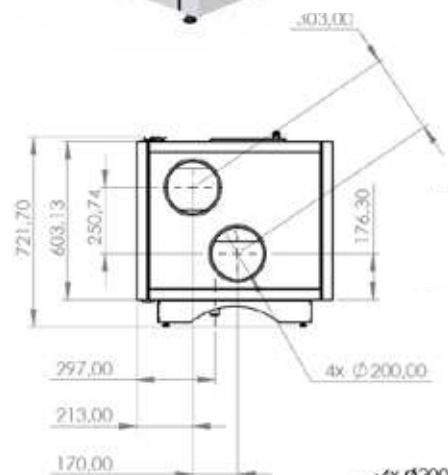
Construction - recuperator structure made of galvanised sheet metal, powder-coated in white. Acoustic and thermal insulation is made of 40mm thick mineral wool and other materials with thermal and acoustic insulating properties.

Heat exchanger - the most efficient and reliable cross-flow polystyrene heat exchanger with high heat exchange efficiency (up to 98% efficiency), made by reputable companies such as CORE, RECUTECH or ZERN with many years of experience and offering their products to the best producers of air handling units on the market.

Fans - DC electromotors (EC) of a renowned ROSENBERG company have been used, thanks to which the air handling unit maintains constant preset air data, which guarantees reliability and energy-efficient, quiet operation. Equipped with an external rotor and forward curved blades. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full speed range of the fan. An unquestionable advantage of the EC motor is its high KPD coefficient (up to 90%).

Bypass - the offered AHUs are equipped with a by-pass ensuring, if necessary, the possibility of cooling the room thanks to the direct supply of cool air from outside during the summer period, without the necessity of replacing the exchanger with a summer cassette, which, from the perspective of time and operation, is quite cumbersome.

Control - advanced automatics allows to precisely adjust parameters of the air handling unit to the current installation and weather conditions. Smooth regulation of fans' rotations, time schedule of settings, anti-freeze control, regulation of bypass operation are only some of the functions of the controller allowing for optimisation of the unit's operation.





Technical information	PRO MAX 400 H Basic	PRO MAX 400 H Classic	PRO MAX 400 H Premium
Supply voltage	230V / 50 Hz		
Fan	2x radial with EC motor ROSENBERG		
Maximum fan power	2 pcs. x 149 W		
Maximum fan current consumption	2x1,09 A		
Fan speed	1390 min ⁻¹		
Maximum discharge air temperature	-20 to +50 °C		
Exchanger type	cross-flow	cross-flow	enthalpic
Maximum exchanger efficiency	up to 98 %		
Exchanger material	polystyrene		
Casing material	painted galvanised steel		
Insulation	40 mm, mineral woola		
Filter - inlet	M5		
Filter - exhaust	G4		
Air connection diameter	Ø200 mm		
Weight	94 kg		
Capacity at 100 Pa	485 m ³ /h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	1178mm x 745mm x 722mm		
Power of pre-heater	1 kW	1 kW	1 kW
Noise level	49 dB	49 dB	49 dB
Energy class	A	A	A
Current consumption of the pre-heater	4,35 A	4,35 A	4,35 A
Total unit power	-	2 kW	2 kW
Total unit current consumption	-	9,5 A	9,5 A
Bypass	Automatic	Automatic	Automatic
Internet module	Option	Yes	Yes

Recuperator PRO MAX 400 V

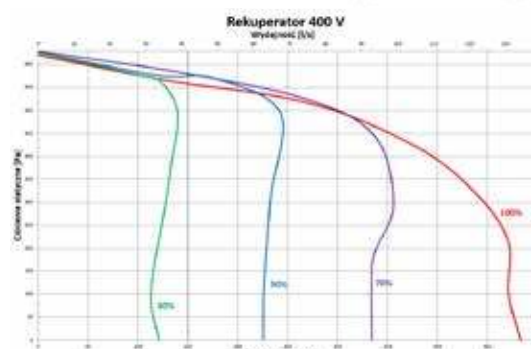
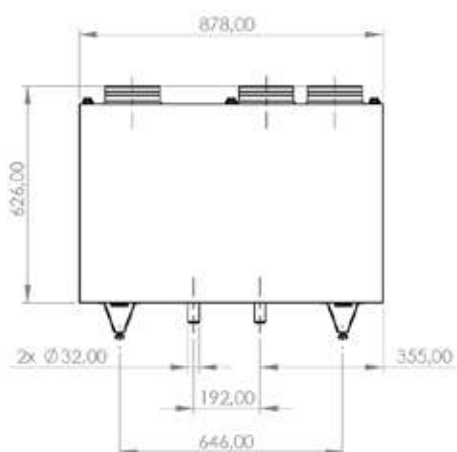
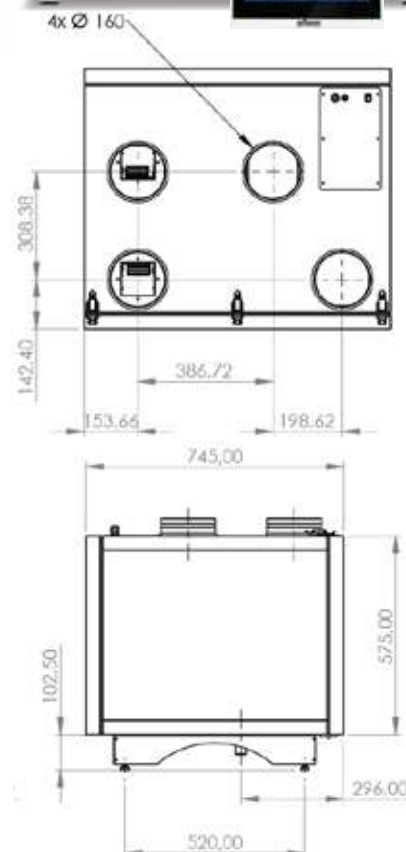
Construction - recuperator structure made of galvanised sheet metal, powder-coated in white. The acoustic and thermal insulation is made of 40 mm thick mineral wool and other materials with thermal and acoustic insulating properties.

Heat exchanger - the most efficient and reliable cross-flow polystyrene or aluminium heat exchanger with high heat exchange efficiency (up to 98% efficiency), made by renowned companies such as RECAIR, PAUL or KLINGENBUR with many years of experience and offering their products to the best producers of air handling units on the market.

Fans - DC electrically commutated (EC) motors of the renowned ROSENBERG company have been used, thanks to which the air handling unit maintains constant preset air data, guaranteeing reliability and energy-efficient, quiet operation. Equipped with an external rotor and forward curved blades. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full speed range of the fan. An unquestionable advantage of the EC motor is its high KPD coefficient (up to 90%).

Bypass - the offered AHUs are equipped with a by-pass ensuring, if necessary, the possibility of cooling the room thanks to the direct supply of cool air from outside during the summer period, without the necessity of replacing the exchanger with a summer cassette, which, from the perspective of time and operation, is quite cumbersome.

Control - advanced automatics allows to precisely adjust parameters of the air handling unit to the current installation and weather conditions. Smooth regulation of fans' rotations, time schedule of settings, anti-freeze control, regulation of bypass operation are only some of the functions of the controller allowing for optimisation of the unit's operation.





ENERGETIC
EFFICIENCY



EASY
ASSEMBLY



GOOD
PRICE



ECO
PROJECT



REMOTE
CONTROL



2
YEARS
GUARANTEE

Technical information	PRO MAX 400 V Basic	PRO MAX 400 V Classic	PRO MAX 400 V Premium
Supply voltage	230V / 50 Hz		
Fan	2x radial with EC motor ROSENBERG		
Maximum fan power	2 pcs. x 149 W		
Maximum fan current consumption	2x1,09 A		
Fan speed	1390 min ⁻¹		
Maximum discharge air temperature	-20 do+50 °C		
Exchanger type	cross-flow	cross-flow	enthalpic
Maximum exchanger efficiency	up to 98 %		
Exchanger material	polystyrene		
Casing material	painted galvanised steel		
Insulation	40 mm, mineral wool		
Filter - inlet	M5		
Filter - exhaust	G4		
Air connection diameter	Ø160 mm		
Weight	68 kg		
Capacity at 100 Pa	470 m ³ /h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	878mm x 745mm x 677mm		
Power of pre-heater	None	2 kW	2 kW
Noise level	49 dB	49 dB	49 dB
Energy class	A	A	A
Current consumption of the pre-heater	13 A	13 A	13 A
Total unit power	-	3,3 kW	3,3 kW
Total unit current consumption	-	14,5 A	14,5 A
Bypass	Automatic	Automatic	Automatic
Internet module	None	Yes	Yes

Recuperator PRO MAX 600 H

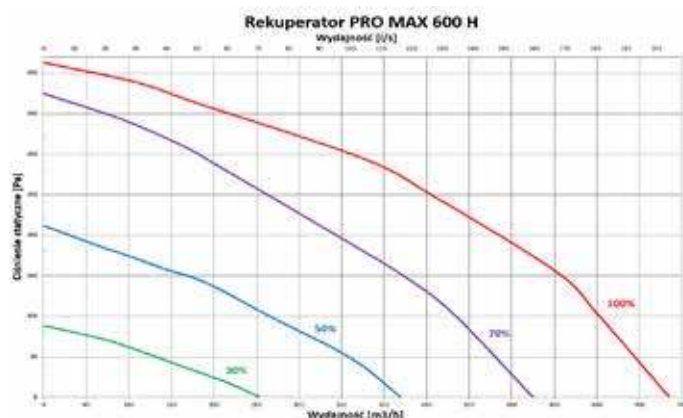
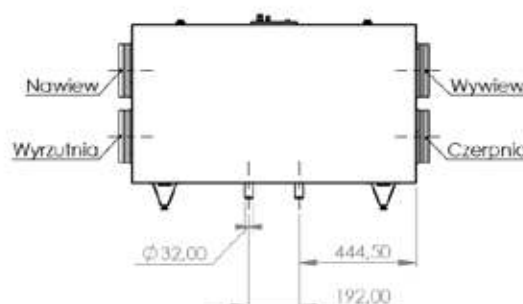
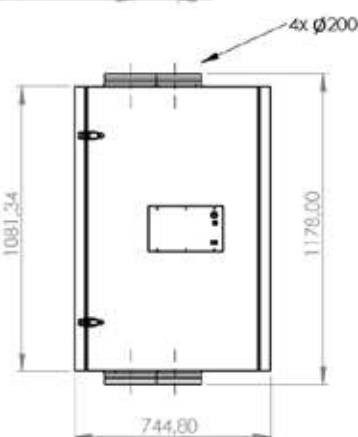
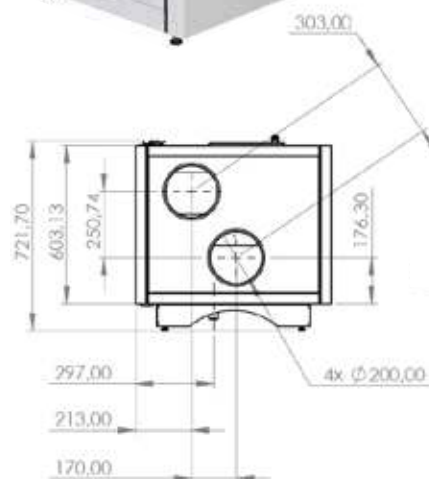
Construction - recuperator structure made of galvanised sheet metal, powder-coated in white. The acoustic and thermal insulation is made of 40 mm thick mineral wool and other materials with thermal and acoustic insulating properties.

Heat exchanger - the most efficient and reliable cross-flow polystyrene or aluminium heat exchanger with high heat exchange efficiency (up to 98% efficiency), made by renowned companies such as RECAIR, PAUL or KLINGENBUR with many years of experience and offering their products to the best producers of air handling units on the market.

Fans - direct current electro commutator motors (EC) of the renowned EBM-PAPST company have been used, thanks to which the air handling unit maintains constant preset air data, guaranteeing reliability and energy-efficient, quiet operation. Equipped with an external rotor and forward curved blades. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full speed range of the fan. An unquestionable advantage of the EC motor is its high KPD coefficient (up to 90%).

Bypass - the offered AHUs are equipped with a by-pass ensuring, if necessary, the possibility of cooling the room thanks to the direct supply of cool air from outside during the summer period, without the necessity of replacing the exchanger with summer cassettes, which, from the perspective of time and operation, is quite cumbersome.

Control - advanced automatics makes it possible to precisely adjust the air handling unit's parameters to the current installation and prevailing weather conditions. Smooth adjustment of fan rotation, time schedule of settings, anti-freeze control, regulation of bypass operation are just some of the controller functions allowing for optimisation of the unit's operation.





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GUARANTEE

Technical information	PRO MAX 600 H Basic	PRO MAX 600 H Classic	PRO MAX 600 H Premium
Supply voltage	230V / 50 Hz		
Fan	2x radial with EC motor EBM-PAPST		
Maximum fan power	2 pcs. x 230 W		
Maximum fan current consumption	2x1,8 A		
Fan speed	2400 min ⁻¹		
Maximum discharge air temperature	-20 do +50 °C		
Exchanger type	cross-flow	cross-flow	enthalpic
Maximum exchanger efficiency	up to 98 %		
Exchanger material	polystyrene		
Casing material	painted galvanised steel		
Insulation	19 mm, foam rubber		
Filter - inlet	M5		
Filter - exhaust	G4		
Air connection diameter	Ø200 mm		
Weight	93 kg		
Capacity at 100 Pa	655 m ³ /h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	1178 mm x 745 mm x 722 mm		
Power of pre-heater	1,7 kW	1,7 kW	1,7 kW
Noise level	49 dB	49 dB	49 dB
Energy class	A	A	A
Current consumption of the pre-heater	None	2,16 A	2,16 A
Total unit power	-	0,84 kW	0,84 kW
Total unit current consumption	-	9,5 A	3,8 A
Bypass	Manual	Automatic	Automatic
Internet module	None	Yes	Yes

Recuperator AIR EXPERT 400 H

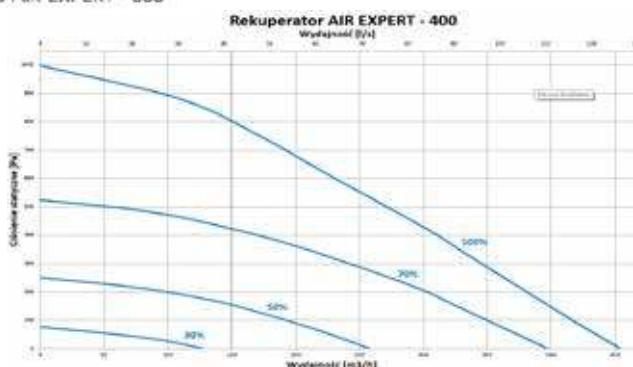
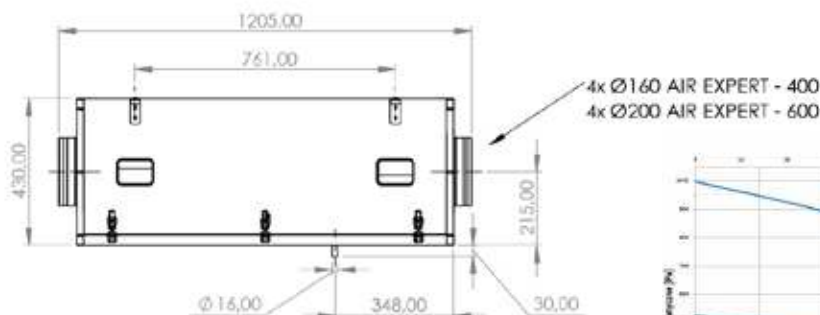
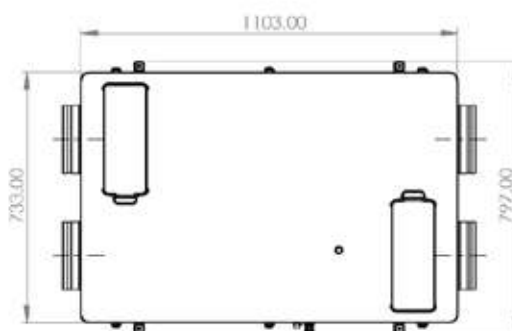
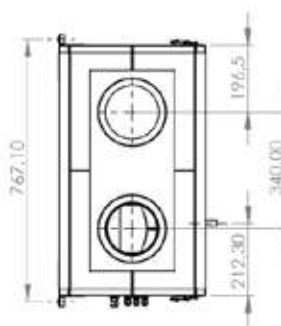
Construction – recuperator structure made of EPP (foamed polypropylene) with excellent thermal insulation and noise reduction properties.

Heat exchanger - the most efficient and reliable cross-flow polystyrene or aluminium heat exchanger with high heat exchange efficiency (up to 98% efficiency), made by renowned companies such as RECAIR, PAUL or KLINGENBUR with many years of experience and offering their products to the best producers of air handling units on the market.

Fans - DC electrically commutated (EC) motors of the renowned ZHIEL-ABEGG company have been used, thanks to which the air handling unit maintains a constant preset air flow, guaranteeing reliability and energy-efficient, quiet operation. Equipped with an external rotor and forward curved blades. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full speed range of the fan. An unquestionable advantage of the EC motor is its high KPD coefficient (up to 90%).

Bypass - the offered AHUs are equipped with a by-pass ensuring, if necessary, the possibility of cooling the room thanks to the direct supply of cool air from outside during the summer period, without the necessity of replacing the exchanger with summer cassettes, which, from the perspective of time and operation, is quite cumbersome.

Control - advanced automatics allows to precisely adjust parameters of the air handling unit to the current installation and weather conditions. Continuous regulation of fan rotation, time schedule of settings, anti-freeze control, bypass operation regulation are just some of the controller functions allowing for optimisation of the unit's operation.





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GUARANTEE

Technical information	AIR EXPERT 400 H Basic	AIR EXPERT 400 H Classic	AIR EXPERT 400 H Premium
Supply voltage	230V / 50 Hz		
Fan	2x radial with EC motor ZHIEL-ABEGG		
Maximum fan power	2 pcs. x 230 W		
Maximum fan current consumption	2x1,75 A		
Fan speed	2400 min ⁻¹		
Maximum discharge air temperature	-20 do+50 °C		
Exchanger type	cross-flow	cross-flow	enthalpic
Maximum exchanger efficiency	up to 98 %		
Exchanger material	polystyrene		
Casing material	EPP / painted galvanised steel		
Insulation	EPP		
Filter - inlet	M5		
Filter - exhaust	G4		
Air connection diameter	Ø160 mm		
Weight	45 kg		
Capacity at 100 Pa	420 m ³ /h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	1205mm x 797mm x 430mm		
Power of pre-heater	None	3 kW	3 kW
Noise level	41 dB	41 dB	41 dB
Energy class	A	A	A
Current consumption of the pre-heater	13 A	13 A	13 A
Total unit power			
Total unit current consumption			
Bypass	No	Automatic	Automatic
Internet module	None	Yes	Yes
CSF module	Option	Option	Option

Recuperator AIR EXPERT 400 V EPP

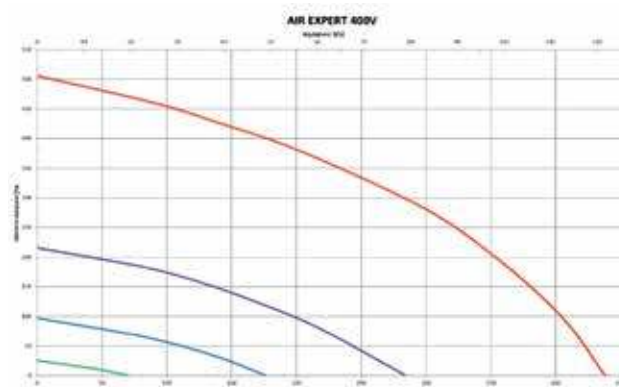
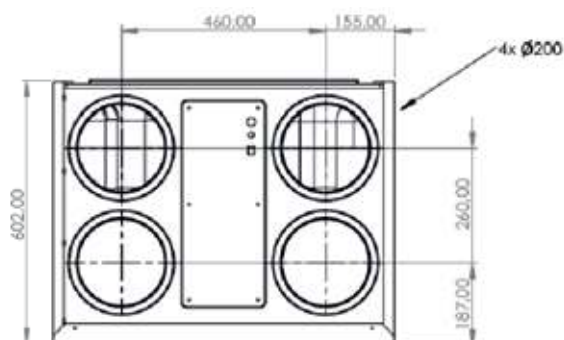
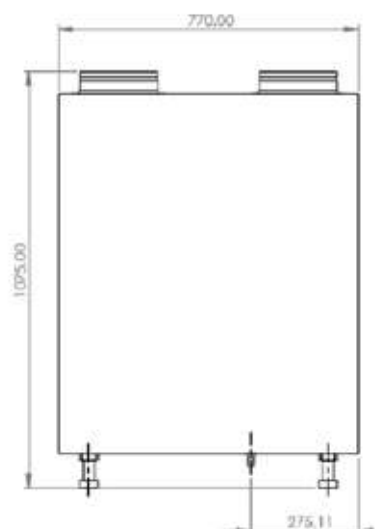
Construction - recuperator structure made of EPP (foamed polypropylene) with excellent thermal insulation and noise reduction properties.

Heat exchanger - the most efficient and reliable cross-flow polystyrene heat exchanger with high heat exchange efficiency (efficiency up to 98%), made by reputable companies such as CORE, RECUTECH or ZERN with many years of experience and offering their products to the best producers of air handling units on the market.

Fans - DC electrically commutated (EC) motors of the renowned ZHIEL-ABEGG company have been used, thanks to which the air handling unit maintains constant preset air data, which guarantees reliability and energy-saving quiet operation. Equipped with an external rotor and forward curved blades. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full speed range of the fan. An unquestionable advantage of the EC motor is its high KPD coefficient (up to 90%).

Bypass - the offered air-handling units are equipped with a by-pass ensuring, if necessary, the possibility of cooling the room thanks to the direct supply of cool air from outside during the summer period, without the necessity to replace the exchanger with a summer cassette, which, from the perspective of the perspective of time and operation, is quite cumbersome.

Control - advanced automatics allows to precisely adjust parameters of the air handling unit to the current installation and prevailing weather conditions. Smooth regulation of fans' rotations, time schedule of settings, anti-freeze control, regulation of bypass operation are only some of the functions of the controller allowing for optimisation of the unit's operation.





Technical information	AIR EXPERT 400 V Basic	AIR EXPERT 400 V Classic	AIR EXPERT 400 V Premium
Supply voltage	230V / 50 Hz		
Fan	2x radial with EC motor ZHIEL-ABEGG		
Maximum fan power	2 pcs. x 170 W		
Maximum fan current consumption	2x0,74 A		
Fan speed	3400 ⁻¹		
Maximum discharge air temperature	-20 do+50 °C		
Exchanger type	cross-flow	cross-flow	enthalpic
Maximum exchanger efficiency	up to 98%		
Exchanger material	polystyrene		
Casing material	EPP/painted steel		
Insulation	EPP		
Filter - inlet	M5		
Filter - exhaust	G4		
Air connection diameter	Ø200 mm		
Weight	32 kg		
Capacity at 100 Pa	420 m ³ /h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	1075mm x 770mm x 602mm		
Power of pre-heater	No	2 kW	2 kW
Noise level	41 dB	41 dB	41 dB
Energy class	A	A	A
Current consumption of the pre-heater	No	8,70 A	8,70 A
Secondary heater power	No	No	No
Current consumption of the secondary heater	No	No	No
Total appliance power	-	2,35 kW	2,35 kW
Total appliance current consumption	-	15,39 A	15,39 A
Bypass	No	Automatic	Automatic
Internet module	Option	Yes	Yes
CSF module	Option	Option	Option

Recuperator AIR EXPERT 600 H EPP

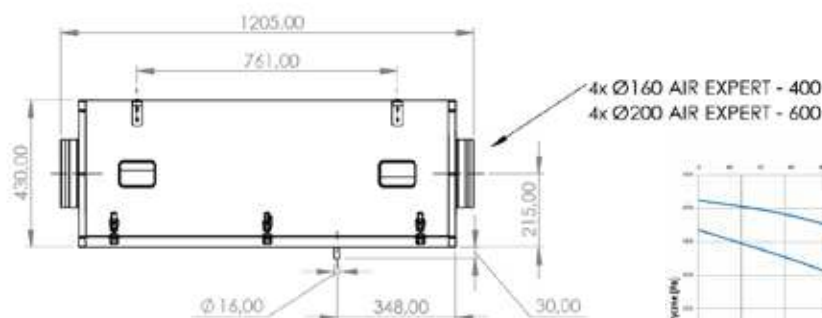
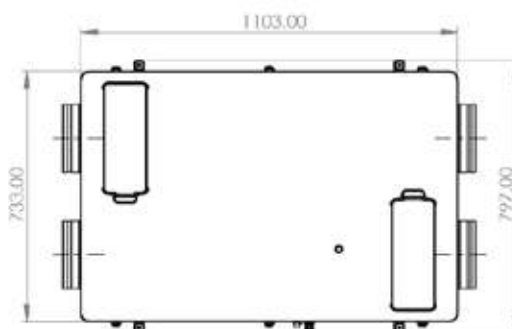
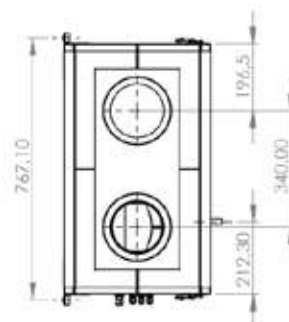
Construction - recuperator structure made of EPP (foamed polypropylene) with excellent thermal insulation and noise reduction properties.

Heat exchanger - the most efficient and reliable cross-flow polystyrene heat exchanger with high heat exchange efficiency (efficiency up to 98%), made by reputable companies such as CORE, RECUTECH or ZERN with many years of experience and offering their products to the best producers of air handling units on the market.

Fans - the fans use direct current (EC) motors of the renowned EBM company thanks to which the air handling unit maintains constant pre-set air data, which guarantees reliability and energy-efficient, quiet operation. They are equipped with an external rotor and forward curved blades. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full speed range of the fan. An unquestionable advantage of the EC motor is its high KPD coefficient (up to 90%).

Bypass - the offered air-handling units are equipped with a bypass ensuring, if necessary, the possibility of cooling the room thanks to the direct supply of cool air from outside during the summer period, without the necessity of replacing the exchanger with a summer cassette, which, from the perspective of time and operation, is quite cumbersome.

Control - advanced automatics allows to precisely adjust parameters of the air handling unit to the current installation and weather conditions. Continuous regulation of fan rotation, time schedule of settings, anti-freeze control, bypass operation regulation are just some of the controller functions allowing for optimisation of the unit's operation.





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Technical information	AIR EXPERT 600 H Basic	AIR EXPERT 600 H Classic	AIR EXPERT 600 H Premium
Supply voltage	230V / 50 Hz		
Fan	2x radial with EC motor EBM-PAPST		
Maximum fan power	2 pcs. x 230 W		
Maximum fan current consumption	2x1,8 A		
Fan speed	2400 ⁻¹		
Maximum discharge air temperature	-20 do+50 °C		
Exchanger type	cross-flow	cross-flow	enthalpic
Maximum exchanger efficiency	up to 98%		
Exchanger material	polystyrene		
Casing material	EPP/painted steel		
Insulation	EPP		
Filter - inlet	M5		
Filter - exhaust	G4		
Air connection diameter	Ø200 mm		
Weight	45 kg		
Capacity at 100 Pa	615 m ³ /h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	1205 mm x 797mm x 430 mm		
Power of pre-heater	No	3 kW	3 kW
Noise level	45 dB	45 dB	415dB
Energy class	A	A	A
Current consumption of the pre-heater	No	13 A	13 A
Total unit power	-	3,46 kW	3,46 kW
Total unit current consumption	-	15 A	15 A
Bypass	No	Automatic	Automatic
Internet module	Option	Yes	Yes
CSF module	Option	Option	Option

Recuperator AIR EXPERT 600 V EPP

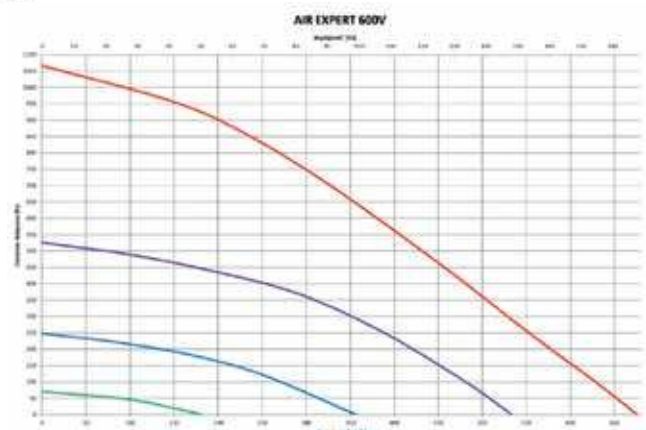
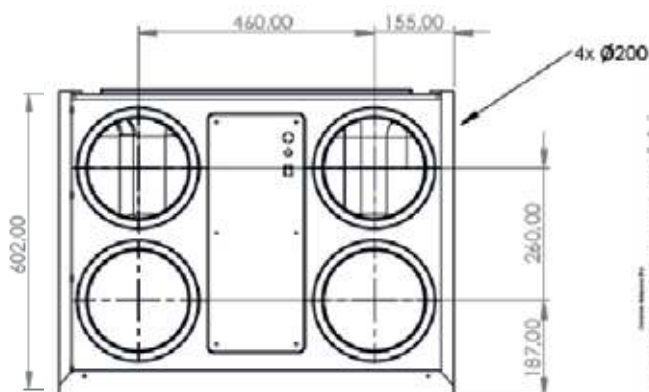
Construction - recuperator structure made of EPP (foamed polypropylene) with excellent thermal insulation and noise reduction properties.

Heat exchanger - the most efficient and reliable cross-flow polystyrene heat exchanger with high heat exchange efficiency (efficiency up to 98%), made by reputable companies such as CORE, RECUTECH or ZERN with many years of experience and offering their products to the best producers of air handling units on the market.

Fans - electric commutator direct current (EC) motors of a renowned ZHIEL-ABEGG company with CONSTANT FLOW technology have been used, thanks to which the air handling unit maintains constant pre-set air data, which guarantees reliability and energy-saving quiet operation. Equipped with an external rotor and forward curved blades. These types of motors are the most innovative energy-saving solution to date. EC motors provide high efficiency and control over the full speed range of the fan. An unquestionable advantage of the EC motor is its high KPD coefficient (up to 90%).

Bypass - the offered AHUs are equipped with a by-pass ensuring, if necessary, the possibility of cooling the room thanks to the direct supply of cool air from outside during the summer period, without the necessity of replacing the exchanger with summer cassettes, which, from the perspective of time and operation, is quite cumbersome.

Control - advanced automatics allows to precisely adjust parameters of the air handling unit to the current installation and weather conditions. Continuous regulation of fan rotation, time schedule of settings, anti-freeze control, bypass operation regulation are just some of the controller functions allowing for optimisation of the unit's operation.





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Technical information	AIR EXPERT 600 V Basic	AIR EXPERT 600 V Classic	AIR EXPERT 600 V Premium
Supply voltage	230V / 50 Hz		
Fan	2x radial with EC motor ZHIEL-ABEGG		
Maximum fan power	2 pcs. x 170 W		
Maximum fan current consumption	2x0,74 A		
Fan speed	3400		
Maximum discharge air temperature	-20 do+50		
Exchanger type	cross-flow	cross-flow	enthalpic
Maximum exchanger efficiency	up to 98%		
Exchanger material	polystyrene		
Casing material	EPP/painted steel		
Insulation	EPP		
Filter - inlet	M5		
Filter - exhaust	G4		
Air connection diameter	Ø200 mm		
Weight	32 kg		
Capacity at 100 Pa	610 m³/h		
Controller type	AERO_3	AERO_4	AERO_4
Room unit	Nano One	Nano Color	Nano Color
Dimensions [length x width x height]	1075mm x 770mm X 602mm		
Power of pre-heater	No	2 kW	2 kW
Noise level	45 dB	45 dB	45 dB
Energy class	A	A	A
Current consumption of the pre-heater	No	8,69 A	8,69 A
Total unit power	-	2,35 kW	2,35 kW
Total unit current consumption	-	15,39 A	15,39 A
Bypass	No	Automatic	Automatic
Internet module	Option	Yes	Yes
CSF module	Option	Option	Option

Control panels

NANO COLOR Control Panel

NANO COLOR is a room panel cooperating with air handling units. Key advantages include:

- large, easy-to-read, touch-screen colour display
- modern transparent user interface
- readout of all temperatures
- filter contamination indicator
- GWC control
- weekly schedule
- on-line control
- by-pass control
- stepless fan speed control (with CSF module)
- control of pre-heater, after heater or cooler
- possibility to download an application for smartphones



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SW-RE-PODZ/0/NANO COLOR

NANO ONE Control Panel

NANO ONE is a room panel cooperating with air handling units. Key advantages include:

- graphic LCD display
- weekly schedule
- by-pass control
- filter contamination indicator
- on-line control
- control of pre-heater, after heater or cooler
- stepless fan speed control (with CSF module)



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SW-RE-PODZ/0/NANO ONE

Accessory equipment

Internet module

iNEXT is a web-based remote access system for air handling units. The main functionality of the iNEXT system is the ability to remotely control different types of controllers, allowing you to:

- check the current settings
- read measurement data
- modify controller settings
- perform remote configuration and service

To communicate with the INTERNET it is necessary to connect to an access device with an Ethernet connection - such as a router or mobile network modem. To operate the Internet service, a computer or other device with Internet access supporting a web browser with Websocket technology support (Mozilla Firefox, Google Chrome, Opera, Apple Safari) is required. The iNext system can also be operated using two dedicated applications on the Android system: iNext application - Google Play - iNext (All devices) Application Ventilation and Thermostats

Google Play - Compit Ventilation (NANO COLOR and AERO 3, 4, 5)



Index
SW-RE-PODZ/0/INEX

CSF module

The AERO CSF module is an additional module which extends the capabilities of AERO 4 with a balanced airflow function. The function maintains the set air flow taking into account the prevailing weather conditions or dirt on the filters. For correct operation of the CSF function, co-operation with the Nano Color panel with at least 8.01 software version is required.

Index
MODUŁ CSF



SHC module

The SHC sensor is designed for the measurement of carbon dioxide concentration and humidity in rooms. It cooperates with NANO COLOR room panels (CLASSIC and PREMIUM version panels).

Humidity measurement range: 0-100%

Carbon dioxide measurement range: 400-2000 ppm

Index
MODUŁ SHC



Accessory equipment

SHK sensor

SHK sensor is designed for humidity and temperature measurement in the ventilation duct. It cooperates with NANO COLOR room panels (CLASSIC and PREMIUM version units). When the set humidity value is exceeded, the capacity of the air handling unit is automatically increased.

Humidity measurement range: 0-100%

Working temperature: 0-55°C

Index
CZUJNIK SHK



SHW sensor

The SHW sensor is designed for measuring humidity in rooms. It cooperates with NANO COLOR room panels (CLASSIC and PREMIUM AHUs). When the pre-set humidity value is exceeded, the air handling unit's capacity is automatically increased.

Humidity measurement range: 0-100%

Working temperature: 0-55°C

Index
MODUŁ SHW



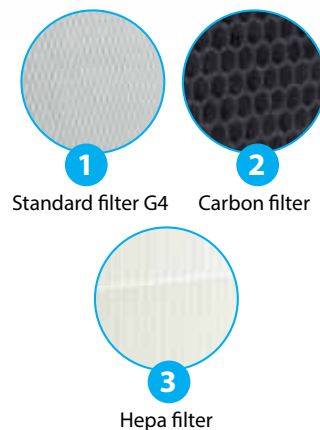
Ducted filter - Air cleaner

The air purifier is an innovative, anti-smog duct filter that effectively filters smog and airborne particles and odours that are part of smog. It features three-stage filtration, high efficiency and easy installation. Designed for use in buildings using mechanical ventilation with or without recuperation. Particularly recommended for sensitive people with respiratory allergies. Efficiency of the PM2.5 triple filtration system > 95%. The effectiveness and quality of the filtration depends on the cleanliness of the filters, so special care should be taken to ensure that the filters are maintained and replaced in good time. Available in black in two sizes.

Filters used:

1. standard G4 filter - eliminates dust and standard smog-forming dusts
2. carbon filter - eliminates odours, including those from smoke or smog
3. hepa filter - retains most (at least 99.97%) of mechanical impurities larger than 0.3 µm, as well as fungal, protozoan and bacterial cells and most viruses

Index	Capacity (m³/h)	Dimension (mm)	Net (mm)	Weight (kg)
FILTR KANAŁOWY BOX 150	300 - 400	538 x 338 x 223	150	6
FILTR KANAŁOWY BOX 200	400 - 600	542 x 396 x 254	200	7



Accessory equipment

Air filter

PRODMAX brand air handling units are equipped with a double air filtration system in three classes:

- G4 (ISO Coarse 70%) retaining dust and large particles
- M5 (ISO ePM 60%) retaining particles with a size of 2.5 to 10 µm (microns) -
- F7 (ISO ePM1 55%) retaining the smallest particles from 0.3 to 1 µm (microns).

The filters are made of high-quality pleated synthetic filter media (mini-pleat pleating). They are characterised by a high filtration surface area and prolonged durability with high filtration performance (with cyclic vacuuming every 2-3 months). The filters are equipped with clear markings on how to install them. No additional components are required to install the filters. A simple replacement procedure ensures comfortable use



Compatibility	G4 [dimension]	M5 [dimension]	F7 [dimension]
VEKO 250	[170x230x8,5mm]	[170x230x8,5mm]	[170x230x8,5mm]
HEKO 250	[170x230x8,5mm]	[170x230x8,5mm]	[170x230x8,5mm]
PRO MINI 300 V/H	[360x106x30mm]	[360x106x30mm]	[360x106x30mm]
PRO MAX 400 V PRO MAX 400 H PRO MAX 600 H	[500x198x45mm]	[500x198x45mm]	[500x198x45mm]
AIR EXPERT 400 V AIR EXPERT 600 V	[299x233x23mm]	[299x233x23mm]	[299x233x23mm]
AIR EXPERT 400 H AIR EXPERT 600 H	[368x310x23mm]	[368x310x23mm]	[368x310x23mm]

The table below presents the efficiency of pollutant retention by filters of each class.

	G4	M5	F7
insects, sand, leaves			
hair, fibers, coarse dust, dust			
plant pollen, fungal spores			
mites, coal dust, animal dander			
bacteria, smog, tobacco smoke			
fine dust, exhaust fumes, viruses			

The more intense the green of the leaf, the higher the filtration efficiency.

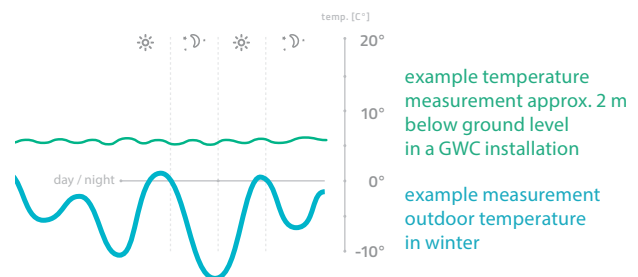
GWC - Ground Heat Exchanger

A **Ground Heat Exchanger**, or **GWC** for short, is an installation located below the surface of the ground and below the freezing zone, where the temperature fluctuates only slightly throughout the year. This system supplies pre-treated. The system supplies pre-treated outside air to buildings with mechanical ventilation equipped with a recuperator.



GWC in Winter how does it work?

In winter, when temperatures can drop to -20°C , preheating. The preheating of air in GWC to $+1^{\circ}\text{C}$ results in real savings on heating.



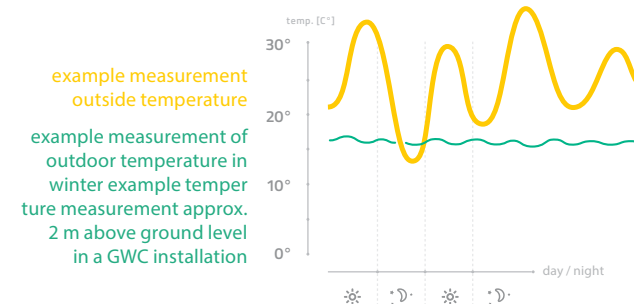
Benefits of using GWC

- The use of GWC in the entire system of supply and exhaust ventilation with recuperation significantly reduces power consumption electricity consumption in the recuperator itself (maintaining the temperature in GWC above 0°C eliminates the need to turn on the heater in winter) and improves the quality of air in the building as well as reduces the cost of heating the building.
- In summer, GWC serves as a fully ecological, almost free of charge air conditioner - minimal power consumption results from the operation of fans forcing air through the installation.
- Protects mechanical ventilation elements (recuperator) against freezing and frost in winter!
- GWC humidifies the flowing air which has a significant impact on the comfort of household members.



GWC in Summer how does it work?

Cooling of air from 35°C to 17°C provides pleasant, cool air flow inside the building. With this solution air conditioning becomes unnecessary, thus saving you considerable money.



Installation guidelines

When designing and installing the system the following recommendations of the manufacturer should be used manufacturer's recommendations and to select air The air flow rate should be selected in accordance with PN guidelines guidelines and the information given in the VENT-FLEX the technical data sheet of the VENT-FLEX product.

RECOMMENDATIONS

WHEN INSTALLING WITH WITH VENT-FLEX:

- The length of a single thread of VENT-FLEX should not exceed 11 m, longer sections up to 15 m under the condition that the pipe is routed. The length of a single line of VENT-FLEX air duct should not exceed 11 m. provided that the bends are kept to a minimum of the duct
- The ceiling plenum boxes should be mounted at least 30 cm distance from the walls, respectively in rooms in the furthest possible corner or over a window. Avoid installation above e.g. sleeping beds.
- Supply and exhaust ducts in the case of leading in case of leading them through insulated, not heated rooms, Insulate with a layer of wool of min. 20 mm thick wool layer or suitable lagging for this purpose
- supply and exhaust air ducts in case of leading through through uninsulated, non-heated rooms, Insulate with a layer of wool with min. 100 mm wool layer or appropriate lagging for this purpose
- Absolutely insulate the intake and the outlet
- Insulate supply ducts in case a cooling device is connected to the system, heating device is connected to the system, i.e. ground heat exchanger, heater/cooler, etc.
- max. temperature of the transported air in VENT-FLEX ducts is 80o C.

The minimum air flow rate for one person is specified in are specified in the PN-83/B-03430 standard and in the in the amendment to this standard PN-83/B-03430/ Az3:2000.

The most important provisions of the above mentioned standards:

- The volume flow rate of ventilation in a residential building is determined by the sum of extracted "dirty" air streams of auxiliary rooms listed below, which should be at least:
 - for a kitchen with an outside window, equipped kitchen with an outside window, equipped with a gas or charcoal stove: **70 m³/h**
 - for a galley with an outside window, fitted with with an electric stove: 30 m³/h in a dwelling up to: **30 m³/h**, for a kitchen with an outside window, equipped with an electric cooker: 30 m³/h in a flat for up to 3 persons, and 50 m³/h for more than 3 persons
 - for a kitchen without an outside window, equipped with an electric cooker: **50m³/h**
 - for kitchens without an external window fitted with with a gas cooker, mechanical ventilation is mandatory exhaust ventilation: 70 m³/h
 - in a bathroom (with or without a toilet): 50 m³/h
 - in a separate toilet: 30 m³/h
 - laundry rooms - min. 2 times of exchange of volume of of air exchange in one hour
 - in an auxiliary windowless room (pantry, vestibule, dressing room): 15 m³/h
 - for a living room separated from the rooms kitchen, bathroom and toilet in a single-family house or a two-level apartment of a multi-family house: 30 m³/h / person.

It is also recommended to design ventilation devices (air handling units) capable of periodically increasing air flow rate to at least 120 m³/h. It is recommended to use ground heat exchanger It is recommended to use Ground Heat Exchanger min. 1 times of air exchange in one hour.

Example of proper air flow rate selection

Room number	Room name	Area [m ²]	Cubature of room [m ³]	Supply air [m ³ /h]	Exhaust [m ³ /h]	Multiplication factor
1	Living room	25	69	100	-	1,5
2	Cabinet	10	28	40	-	1,5
3	Kitchen	14	41	-	80	2,1
4	Pantry	3	8	-	15	1,8
5	WC	3	8	-	30	3,6
6	Wardrobe	4	11	-	15	1,4
Total		59	165	140	140	

Trade offer

SALES OFFER NO

FOR:

PRICE LIST PRODUCTS SUBJECT TO DISCOUNT		
PRODUCT NAME	DISCOUNT	REMARKS
Plenum boxes and distributors VENT-FLEX		
Circular air distribution systems - galvanized Spiro		
VENT-FLEX ducts		
Rectangular air distribution systems VENT-FLEX Plus		
Flexible insulated ducts FLEX type		
Air diffusers, supply air diffusers, ejector hoods		
Thermal insulation		
Air handling units		

Issue date:

Payment period:

Period for execution of the order:

Additional arrangements:

Account manager:

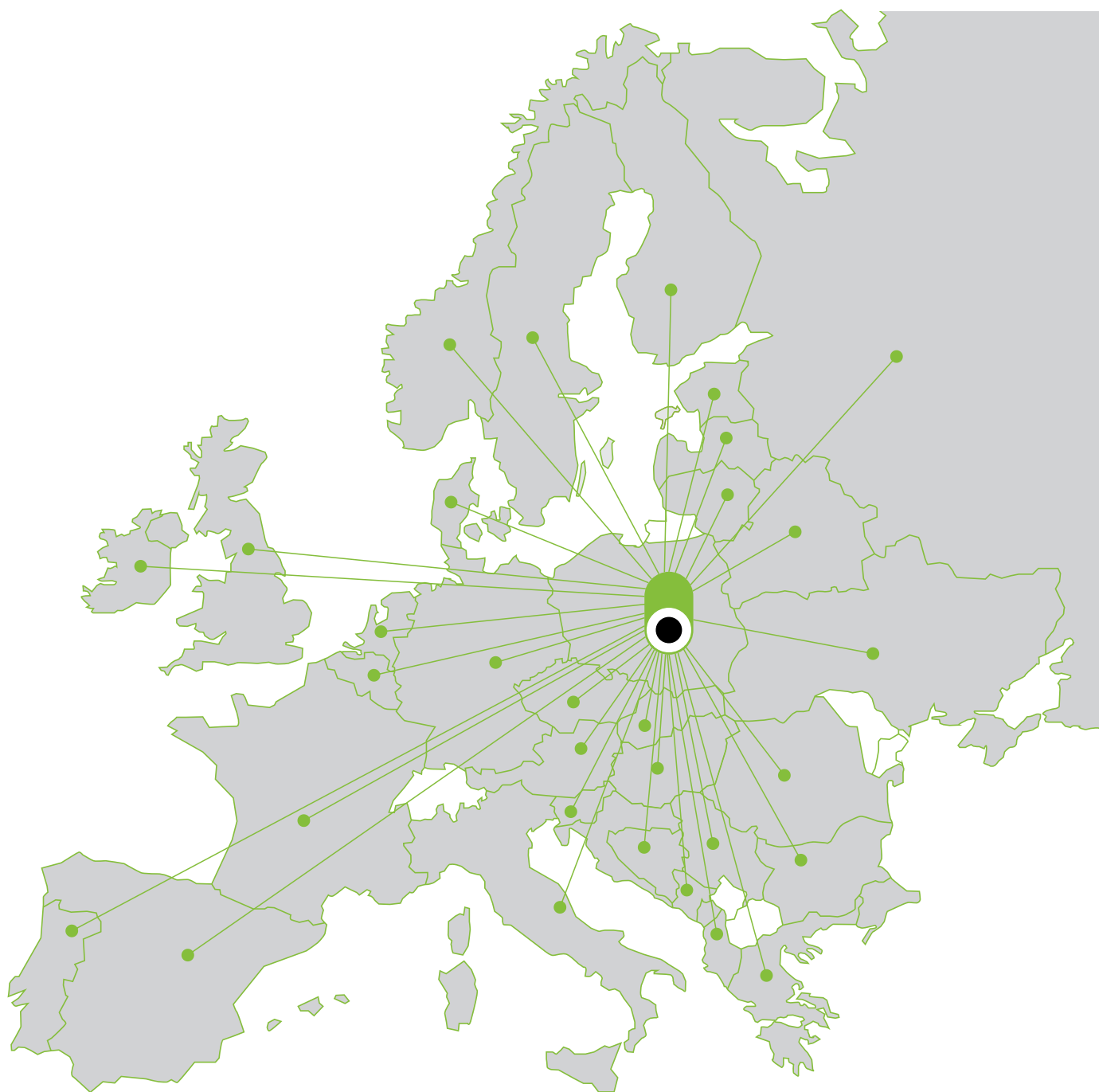


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In the event that, after placing an order by the Customer, circumstances justifying an increase in the price of the ordered goods occur, such as if, after placing an order, circumstances justifying an increase in the price of the ordered goods occur, such as an increase in the price of raw materials or an increase in the exchange rate of a foreign currency, the Seller shall be entitled to increase the price of the goods accordingly, indicating the reason for the increase.

Export department



Export

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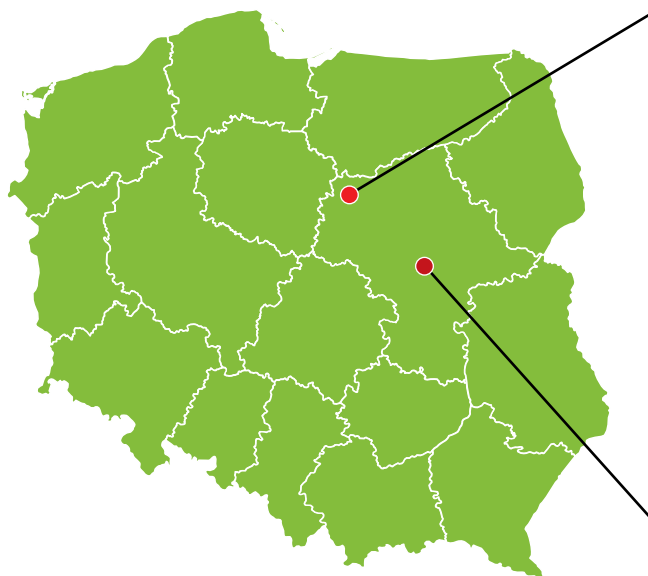
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