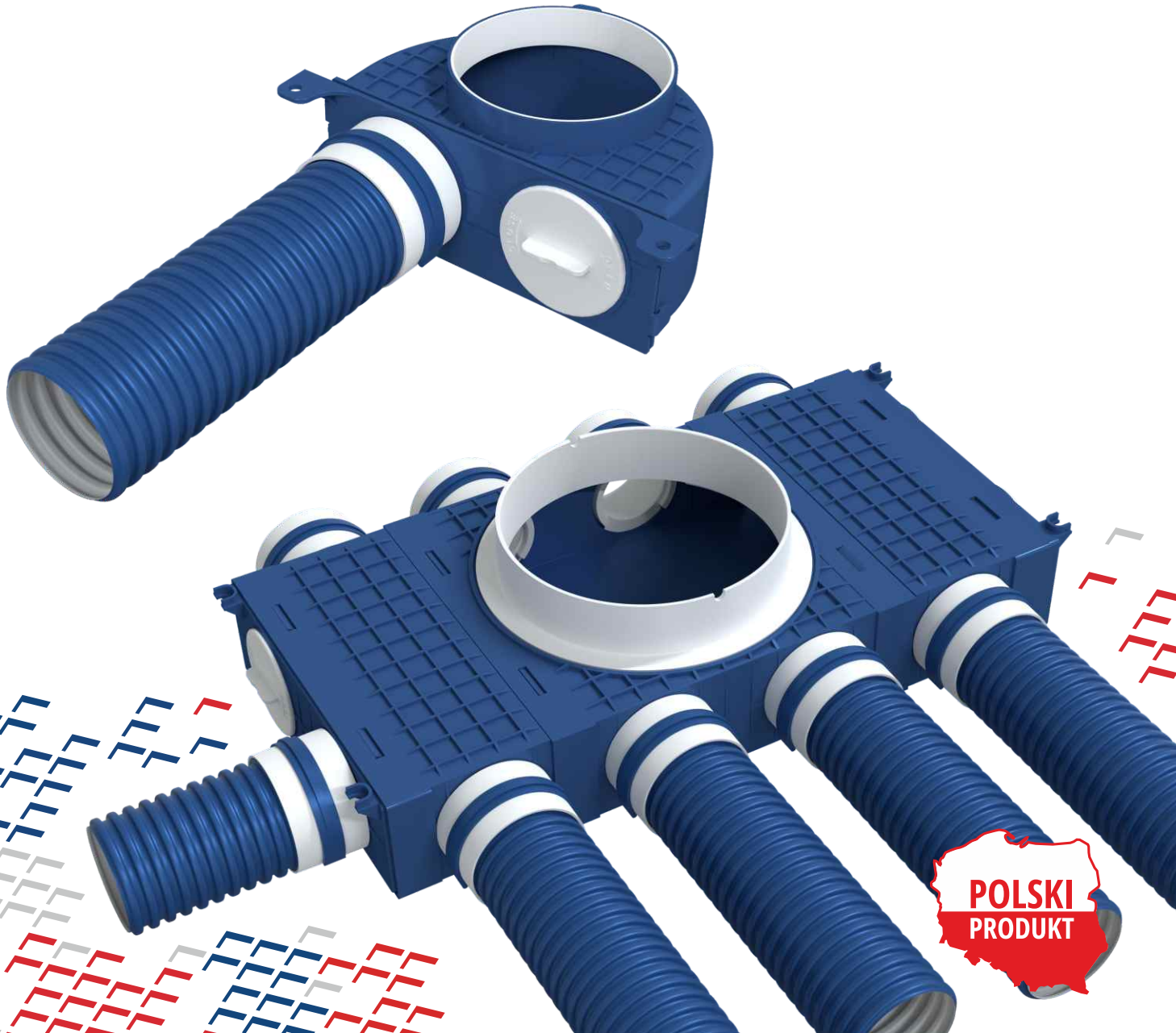
Ventiflex
VENTILATION SYSTEMS

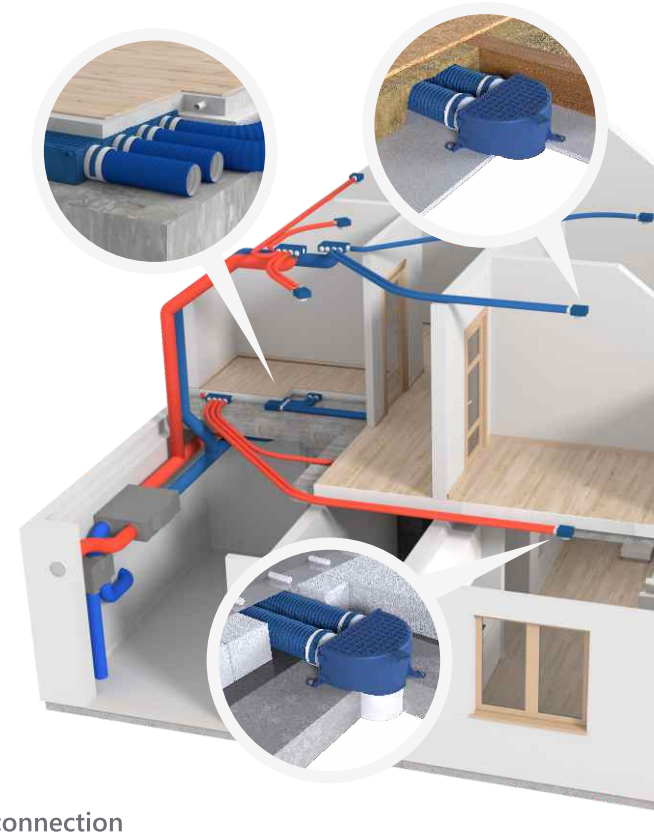
PRODUCT CATALOG



Ventiflex PLUS

VENTIFLEX system of Ground-Therm consists of elastic ventilation ducting, plenum boxes, manifolds and extra elements ensuring easy assembly of any set of mechanical ventilation with recovery of the energy.

The ducting of the Ventiflex system can be easily hidden in the screed, ceilings or under the plaster.



Hygiene properties

Anti-static, antifungal and antibacterial properties of the inner coating provide required cleanliness of the system - the inner coating stops mold and fungi occuring in the most commonly used solutions for ventillation installations - the high hygiene of the supplied air.

Press-fit connection

Easy assemby without specific tools. High flexibility of ventilation ducting allows for quick and easy installation without the use of additional fittings, e.g. pipe elbows or tees.

Aesthetics

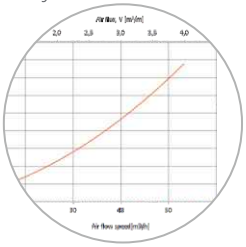
Combination of light weight and great stiffness of the Ventiflex ducting lets for hidding the installation inside the concrete ceiling or under the screed in the insulation layer-the aesthetics of the system.

Low pressure loss

Minimal number of the joints and fitting and gentle bending of the piping guarantee the minimal pressure loss of the installation.

No air noise

Regarding the maximum flux of the air, which causes no noise, the installation characterizes with great acoustic properties.

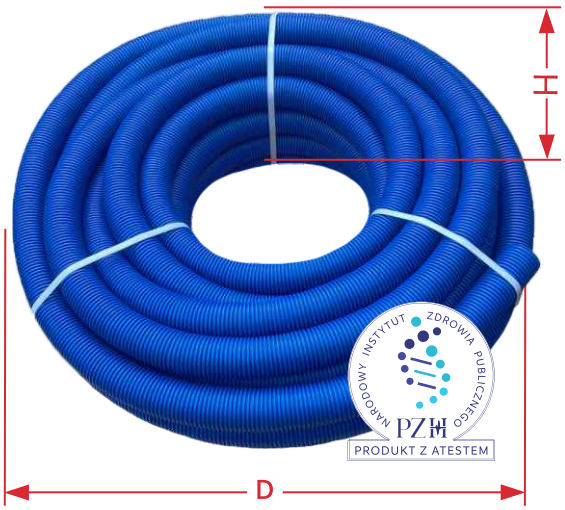


Ventiflex Flexible Duct VTX

The VENTIFLEX® ducts are designed to construct mechanical ventilation systems i.e. manifold ventilation. Due to the enlarged internal diameter, it is possible to let noiseless over the complete range of airflow 40 m³/h.

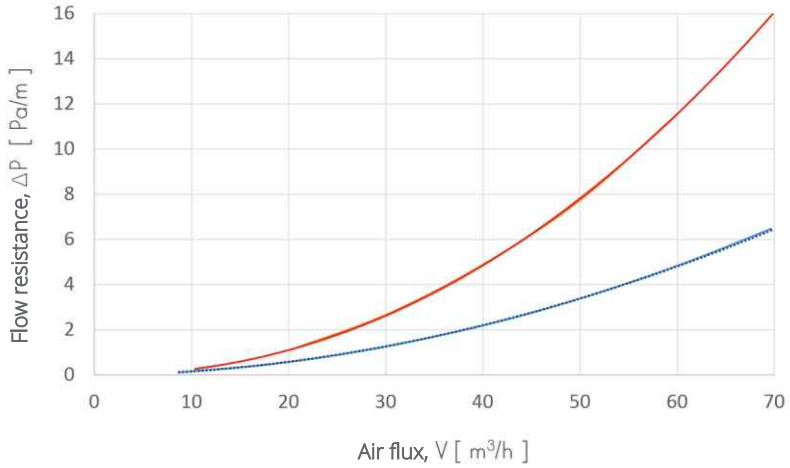
They can also be used to distribute cool air from the ground heat exchanger and warm heating air e.g. from the fireplace heating-through the special heating system.

Owing to small diameters, the ducts can be totally hidden in the floor under the screed, under plasters in the framing construction or in the wall grooves. Because of the high circumferential stiffness, they can be placed in the ceiling being poured e.g. filigran ceiling.



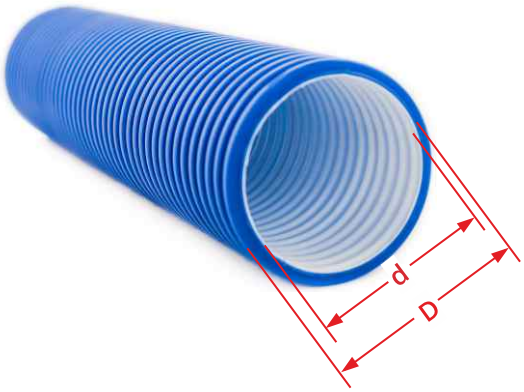
Flow resistance

Duct DN75
Duct DN90



Material

High quality polyethylene, bactericidal, fungicidal and antistatic internal layer with an addition of silver.



Dimensions

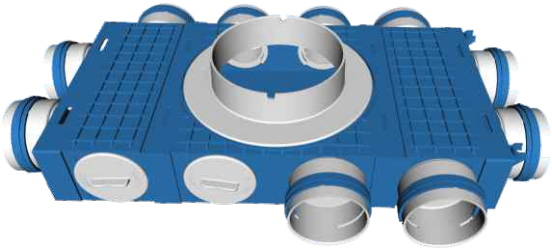
Symbol	D [mm]	d [mm]	Roll				Discount group
VTX-DN 75	77	68	D=1,1 m	H=0,4 m	L=50 m	M=13 kg	GR0
VTX-DN 90	91	78	D=1,3 m	H=0,5 m	L=50 m	M=18 kg	GR0

Cutter NCVT+75

The knife for cutting ventilation ducts. It helps to cut VENTIFLEX duct, exactly between notches, so it fits precisely into spigot. It is made of powder-coated hard lancet steel.

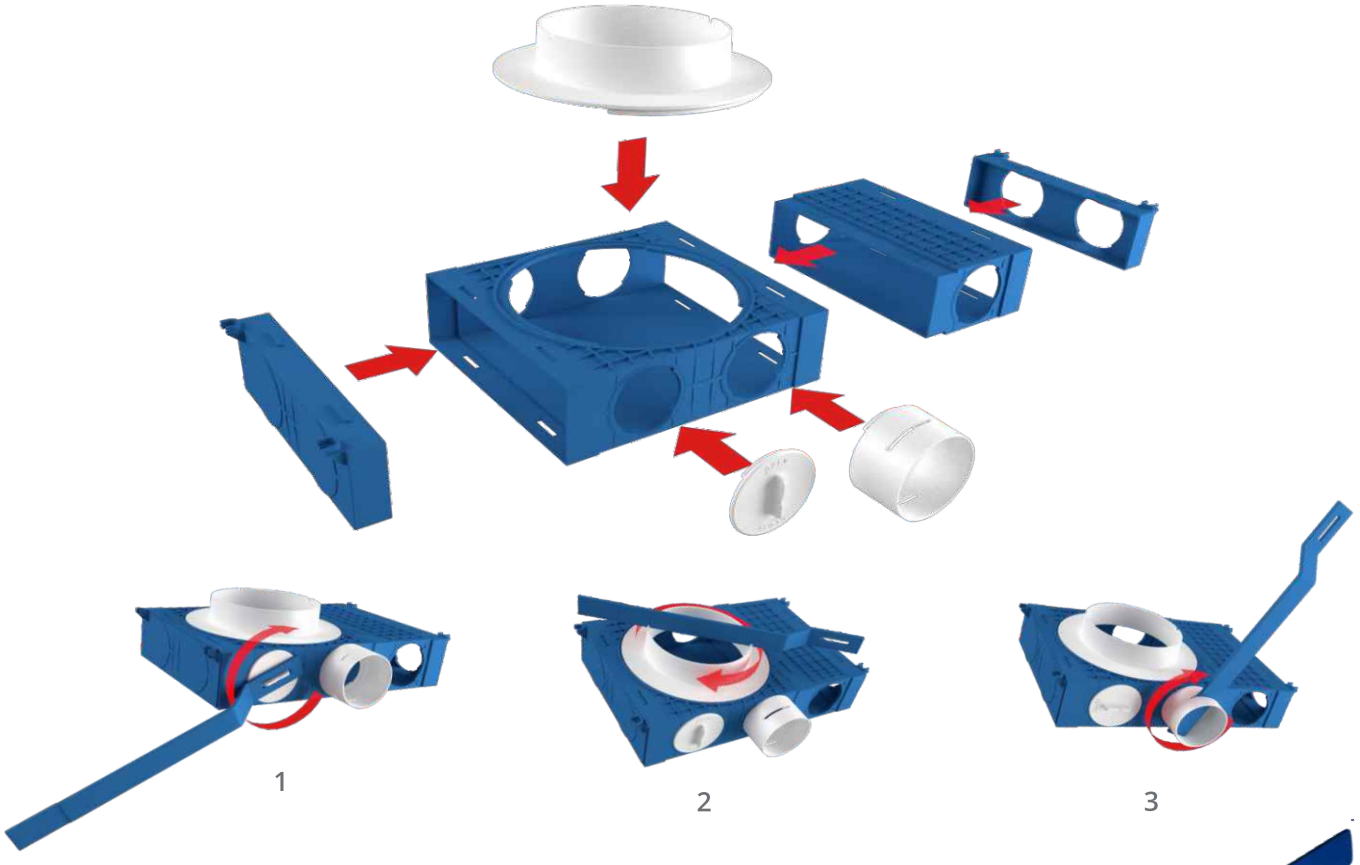
Ventiflex PLUS - Modular Fittings System

This system consists of the set of 11 general purpose plastic elements from which any type of the plenum box or manifold for the manifold ventilation system can be assembled in a minute. Thanks to the mounting spanner it is very easy. The connections between the modules are very tight, and the spigots perfectly fit into the ventilation duct.



Each element of the Ventiflex Plus system contains micro-silver particles protecting against the growth of bacteria and fungi. This is confirmed by tests in an independent laboratory.

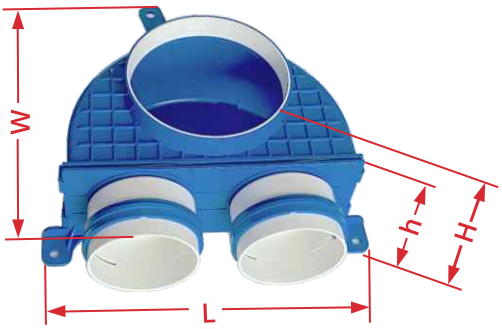
Assembling the modules



Mounting spanner

The mounting spanner is used to tighten the end of cup ZAVT+75 and spigots: KRVT+75, KR-125, KR-160, KR-200 to the base and segment modules. It is made of powder- coated steel.

PLENUM BOX



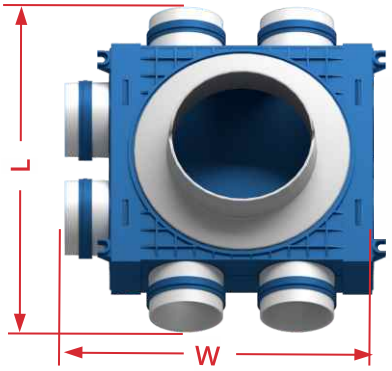
The basic element of the system constituting the base to which diffusers are connected with or without the use of an extension. The box can have 2 or 1 spigots (the set includes an additional blanking cup). Kit for self-assembly.

Material: ABS with the addition of microsilver particles.

Dimensions

Symbol	W [mm]	L [mm]	h [mm] H [mm]	M [kg]	Discount group
MSR-1-2xDN75-DN125	231	270	92 113	0,43	GR1

6-SPIGOT MANIFOLD



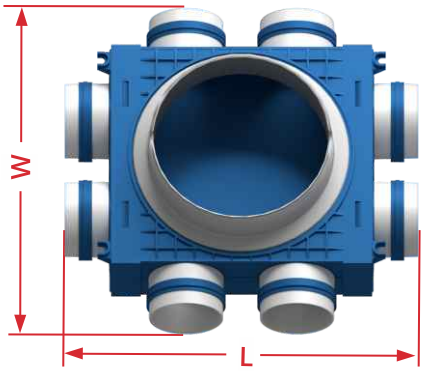
5 or 6-port manifold with circular connection DN160. Designed for installation on both the supply and exhaust side. Equipped with one blanking cup for DN75 socket. A kit for self-assembly.

Material: ABS with the addition of microsilver particles.

Dimensions
*height of the manifold with / without the connection spigot

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
MRO-6xDN75/DN160	333	359	131 (88)*	1,21	GR1

8-SPIGOT MANIFOLD



7 or 8-port manifold with circular connection DN160. Designed for installation on both the supply and exhaust side. Equipped with one blanking cup for DN75 socket. A kit for self-assembly.

Material: ABS with the addition of microsilver particles.

Dimensions
*height of the manifold with / without the connection spigot

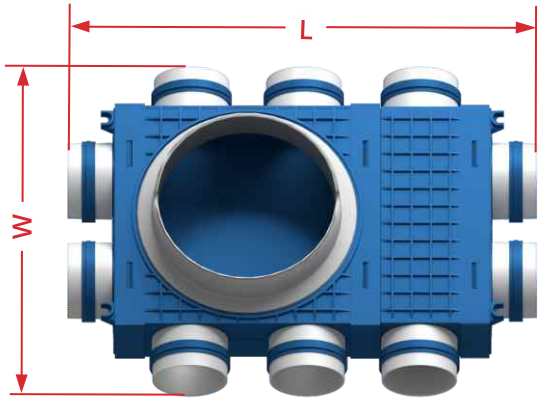
Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
MRO-8xDN75/DN200	359	387	131 (88)*	1,28	GR1

10-SPIGOT MANIFOLD

9 or 10-port manifold with circular connection DN200. Designed for installation on both the supply and exhaust side. Equipped with one blanking cup for DN75 socket. A kit for self-assembly.

Material: ABS with the addition of microsilver particles.

Dimensions
*height of the manifold with/without the connection spigot



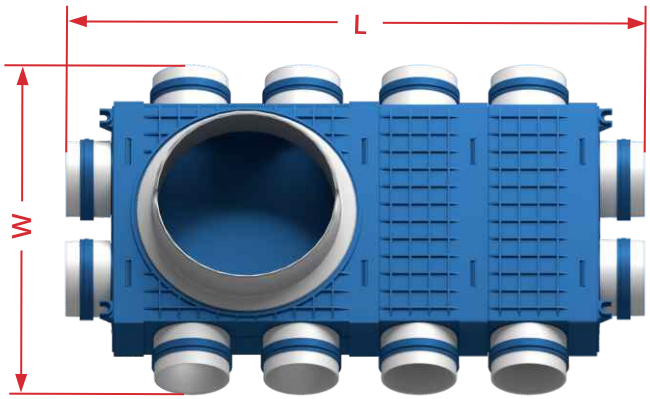
Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
MRO-10xDN75/DN200	359	500	131(88)*	1,73	GR1

12-SPIGOT MANIFOLD

11 or 12-port manifold with circular connection DN200. Designed for installation on both the supply and exhaust side. Equipped with one blanking cup for DN75 socket. A kit for self-assembly.

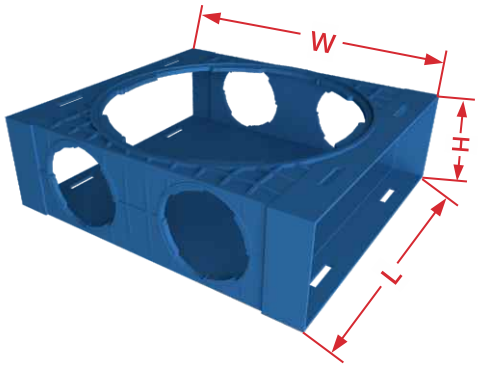
Material: ABS with the addition of microsilver particles.

Dimensions
*height of the manifold with/without the connection spigot



Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
MRO-12xDN75/DN200	359	614	131 (88)*	2,20	GR1

BASIC MODULE



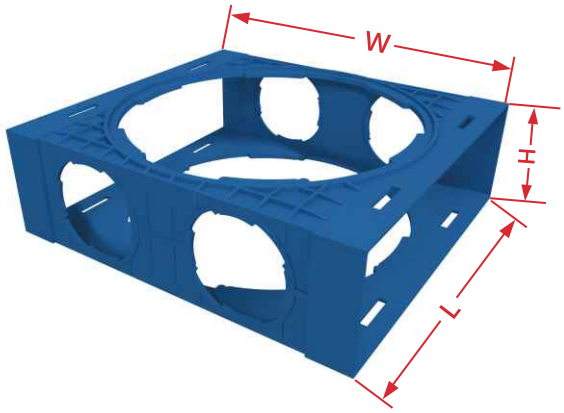
The system basic element being the base which the plenum boxes and flat manifolds can be constructed on.

Material: ABS with the addition of microsilver particles.

Dimensions

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
MBVT+75	276	250	88	0,47	GR1

BASIC MODULE PASS-THROUGH



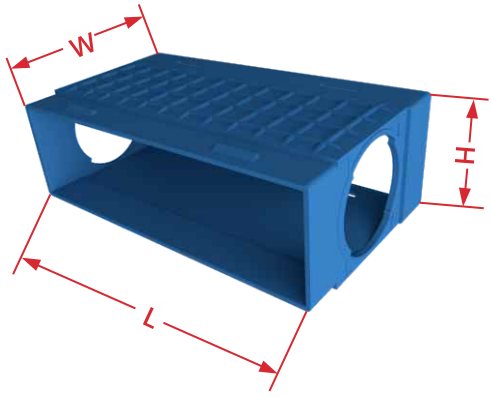
The system element that allows to create a pass-through manifolds. Building this type of manifolds makes it possible to reduce the numer of holes in the ceiling for ventilation shafts.

Material: ABS with the addition of microsilver particles.

Dimensions

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
MBPVT+75	276	250	88	0,30	GR1

EXTENSION MODULE



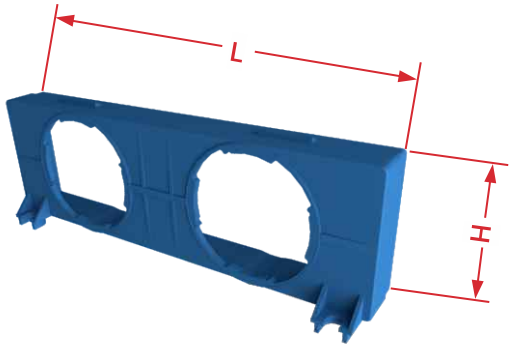
The system extension element that makes it possible to extend the basic module to such a length to create any type of the flat manifold. It can also be used to construct the plenum boxes with a large number of inlet ducts and a large diameter outlet when it is necessary to supply/discharge large streams of air.

Material: ABS with the addition of microsilver particles.

Dimensions

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
MSVT+75	140	250	88	0,36	GR1

COVER WITH HOLES



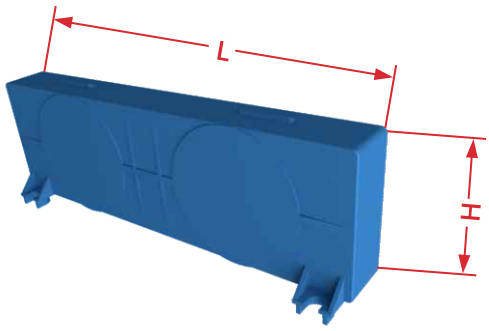
The cover with holes is the closure for the plenum box sides. It is used to connect additional side spigots Dn75.

Material: ABS with the addition of microsilver particles.

Dimensions

Symbol	L [mm]	H [mm]	M [kg]	Discount group
DOVT+75	248	78	0,09	GR1

COVER WITHOUT HOLES



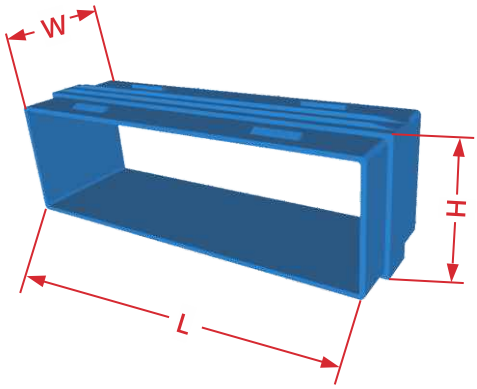
The cover without holes is the closure for the sides of plenum boxes or manifolds.

Material: ABS with the addition of microsilver particles.

Dimensions

Symbol	L [mm]	H [mm]	M [kg]	Discount group
DPVT+75	248	78	0,12	GR1

COUPLING



The coupling enables two basic modules to be connected together. This element makes it possible to construct the manifold, where two vertical ducts i.e. the inlet and outlet one can be connected, which may supply air to the next floor.

Material: ABS with the addition of microsilver particles.

Dimensions

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
LMVT+75	80	255	88	0,24	GR1

SPIGOT DN75 WITH CLAMP

The spigot that enables the VENTIFLEX ventilation duct to be connected to any selected hole in the manifold or plenum box. It is attached with the bayonet mount and tightly adheres to the surface of the modules, where it is mounted.

Material: ABS with the addition of microsilver particles.

Dimensions

Symbol	d [mm]	H [mm]	M [kg]	Discount group
KRVT+75	79	53	0,05	GR1

BLANKING CUP DN75

This element is used to plug the unused holes for the spigots DN75. It is attached similarly to the spigot DN75, using the bayonet mount, and tightly adheres to the surface of the modules, where it is mounted.

Material: ABS with the addition of microsilver particles.

Symbol	M [kg]	Discount group
ZAVT+75	0,02	GR1

SPIGOTS DN125, DN160, DN200

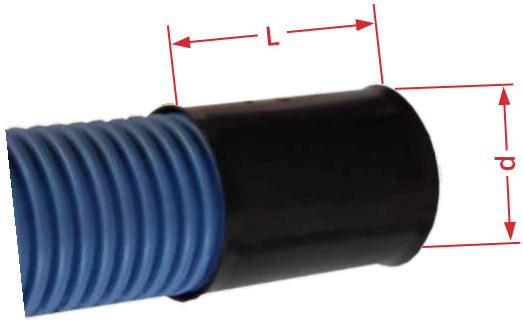
The spigot DN125 is used when the plenum box is constructed and is designed to attach the diffuser valves. The spigots DN160 and DN200 are used when the manifolds are constructed and are designed to connect the manifold to the duct supplying or discharging air to/from the air handling unit.

Material: ABS with the addition of microsilver particles.

Dimensions

Symbol	Typ	D/d [mm]	H [mm]	M [kg]	Discount group
KR-125	Nipple	230/125	43	0,19	GR1
KR-125Muff	Muff	230/127	20	0,14	GR1
KR-160	Nipple	230/160	43	0,19	GR1
KR-200	Nipple	230/200	43	0,18	GR1

EXTERNAL COUPLER



The coupler is designed to connect the VENTIFLEX 75 pipes. Sealing is provided by the UV-DN75 seals.

Material: Polyethylene

Dimensions

Symbol	d [mm]	L [mm]	M [kg]	Discount group
ZV-75	79	115	0,05	GR1
ZV-90	93	143	0,10	GR1

SEAL FOR DUCT

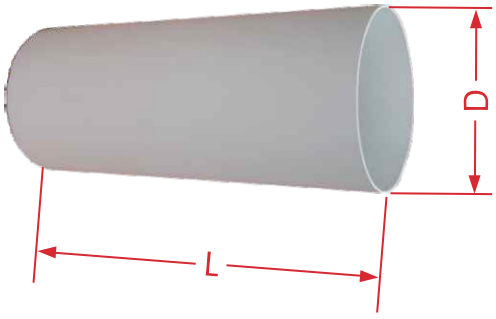
The seal is placed on the VENTIFLEX flexible pipes to ensure tight connection between the pipe, manifold, plenum box and coupling. To obtain better tightness, it is recommended to use two seals per one spigot.

Material: EPDM

Dimensions

Symbol	D [mm]	d [mm]	M [kg]	Discount group
UVX-DN75	78	62	50 pcs. 0,17	GR1

SPIGOT DN125 EXTENSION



Extension is used to connect the diffuser valve to the plenum box when there is the passage through the ceiling. It is adapted to mount the intake and exhaust diffusers AN-DN125N, AN-DN125W and PR-TA-125 adjustable damper.

Material: PCV

Dimensions

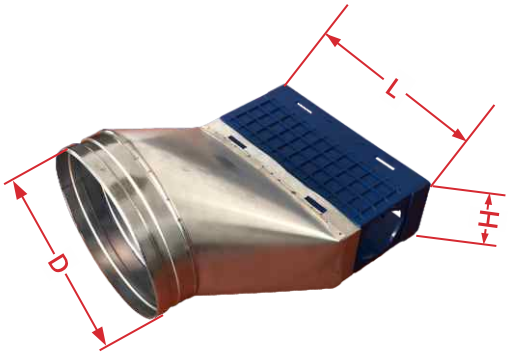
Symbol	L [mm]	D [mm]	M [kg]	Discount group
PO-DN125x300	300	125	0,25	GR1
PO-DN125x500	500	125	0,42	GR1
PO-DN125x1500	1500	125	1,25	GR1

REDUCTION MSVT+75 ON DN160 OR DN200 STUB

This module consists of extension module joint with metal reduction, enables to join circular ducts DN160 or DN200 on one side of modular system.

Material: Galvanized steel + ABS with the addition of microsilver particles

Dimensions



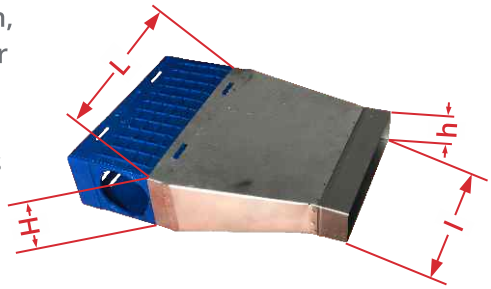
Symbol	D [mm]	L [mm]	H [mm]	Discount group
RED-DN160/MS-VT+75	160	250	88	GR1
RED-DN200/MS-VT+75	200	250	88	GR1

REDUCTION MSVT+75 ON 200x50 OR 220x90 FLAT CHANNEL

This module consists of extension module joint with metal reduction, enables to join rectangular ducts 200x50 mm on one side of modular system.

Material: Galvanized steel + ABS with the addition of microsilver particles

Dimensions



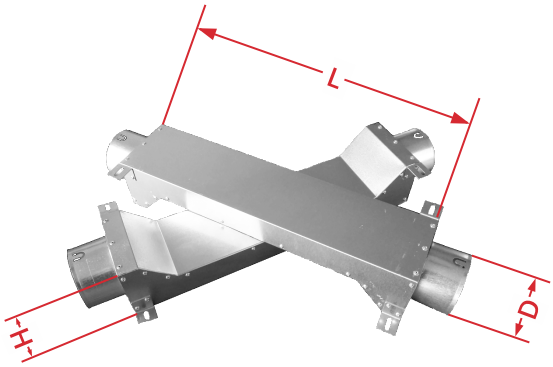
Symbol	l [mm]	h [mm]	L [mm]	H [mm]	Discount group
RED-200x50/MS-VT+75	200	50	250	88	GR1
RED-220x90/MS-VT+75	220	90	250	88	GR1

BY-PASS

It ensures the trouble-free crossing of one, two or three ducts simultaneously.

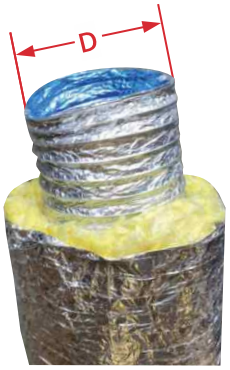
Material: Galvanized steel + ABS with the addition of microsilver particles

Dimensions



Symbol	L [mm]	H [mm]	D [mm]	M [kg]	Discount group
OPK-DN75	500	80	75	0,35	GR2

FLEXIBLE DUCT VENTIFLEX MASTER



Strong and very flexible ducts that ensure direct and fast connection of the recuperator and manifolds.

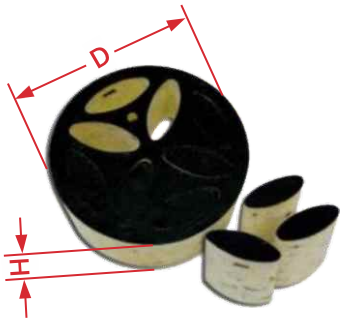
Material: Polyethylene with bactericide and fungicide, reinforced with unwoven fabric and steel spiral outside: polyethylene laminated aluminium foil.

Dimensions

Symbol	D [mm]	L [m]	M [kg]	Discount group
VTM-160	165	10	5,1	GR2
VTM-200	203	10	6,0	GR2
VTM-250	254	10	7,0	GR2

CONTROL DAMPER WITH ACOUSTIC ATTENUATOR

The damper makes it possible to adjust air flow and effectively dampen noise of the ventilation system. It is very helpful at short distances between the manifold and diffuser. The air flow can be easily adjusted by changing the number of plugged holes.



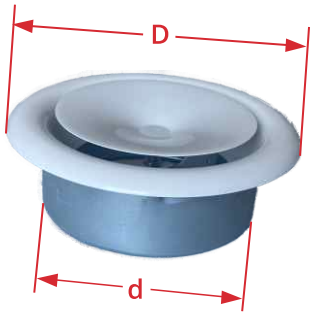
Material: Polyurethane foam

Dimensions

Symbol	D [mm]	H [mm]	M [kg]	Discount group
PR-TA-125	125	50	5 pcs. 0,2	GR2

DIFFUSER VALVES

The intake diffuser valve-AN-DN125N is used to adjust the air volume supplied to the room. The exhaust diffuser valve-AN-DN125W is used to adjust the air volume discharged from the room. Both valves are installed directly on the plenum box spigot or on the extension of this spigot.



Material: Powder- coated steel

Dimensions

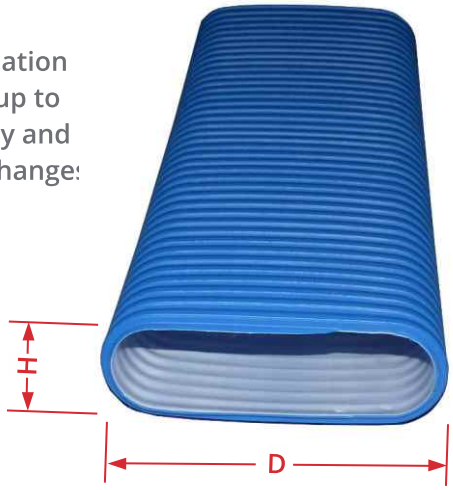
Symbol	d [mm]	D [mm]	M [kg]	Discount group
AN-DN125N	125	160	0,25	GR2
AN-DN125W	125	160	0,25	GR2

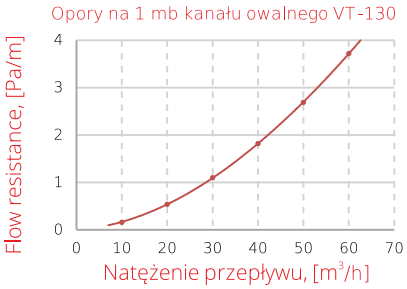
Ventiflex VT-130

The VT-130 system allows to install a recuperation system where the height of the installation space is 50 mm.

OVAL FLEXIBLE DUCT VT-130

The 52 mm high ventilation duct allows it to fit into 50 mm of insulation layer. Owing to its shape, it is possible to obtain air flow rate even up to 50m3/h without noise. Due to its bending radius (1.0 m horizontally and 0.5 m vertically) it is necessary to use of elbows to obtain sudden changes of the direction.



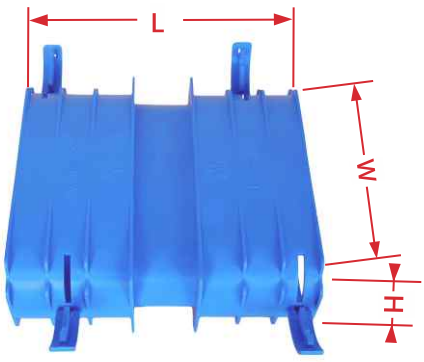


Material: polyethylene with an antistatic and bactericidal internal layer

Dimensions

Symbol	D [mm]	H [mm]	Roll				Discount group
OV-VT-130	130	50	D=1,1 m	H=0,15 m	L=20 m	M=11 kg	GR2

COUPLER FOR VT-130 OVAL DUCTS

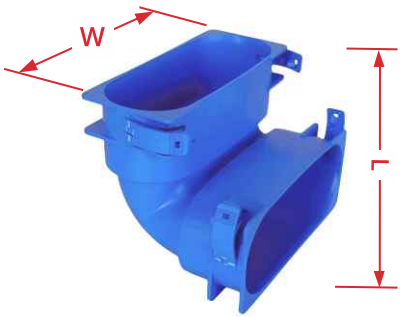


The coupler allows to connect VT-130 oval ducts.
Material: polypropylene

Dimensions

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
OV-ZKO-130	136	150	52	0,05	GR2

90° VERTICAL ELBOW FOR VT-130 OVAL DUCTS

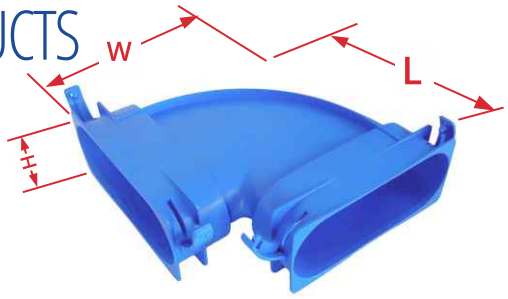


The elbows are used where bend radius of the VT-130 ducts are insufficient.

Material: polypropylene
Dimensions

Symbol	W [mm]	L [mm]	M [kg]	Discount group
OV-KPI-130	136	100	0,06	GR2

90° HORIZONTAL ELBOW FOR VT-130 OVAL DUCTS

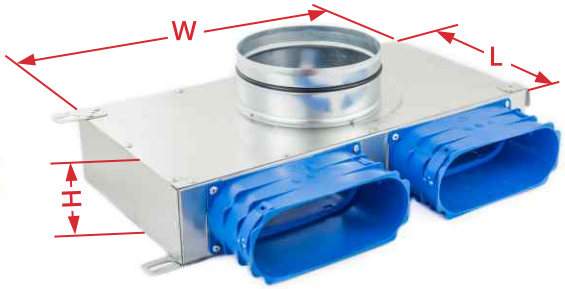


The elbows are used where bend radius of the VT-130 ducts are insufficient.

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
OV-KPO-130	180	180	54	0,07	GR2

PLENUM BOX OF VT-130 OVAL DUCT

The plenum boxes are designed to install in the VT-130 systems at the air intake and exhaust side.



Material: galvanized steel, spigots: polypropylene
Dimensions: (without spigots – spigots are 60 mm long)

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
OV-KLO-1x130/DN125	180	180	60	0,55	GR2
OV-KLO-2x130/DN125	180	180	60	0,65	GR2
OV-RKO-2x130/DN125	350	180	60	1,0	GR2

MANIFOLD OF VT-130 OVAL DUCT WITH CIRCULAR OUTLET

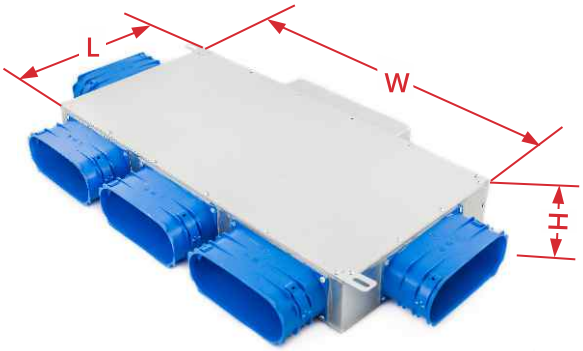
3- or 5-spigot manifolds with circular DN160 or DN200 outlet.
They are designed to install both at the air intake and exhaust side.

Material: galvanized steel, spigots: polypropylene
Dimensions: (without spigots – spigots are 60 mm long)

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
OV-RKO-3X130/DN160	500	200	60	1,7	GR2
OV-RKO-5X130/DN200	500	250	60	2,3	GR2

MANIFOLD OF VT-130 OVAL DUCT WITH RECTANGULAR OUTLET 200x50

3- or 5-spigot manifolds with rectangular outlet 200x50.
They are designed to install both at the air intake and exhaust side.



Material: galvanized steel, spigots: polypropylene
Dimensions: (without spigots – spigots are 60 mm long)

Symbol	W [mm]	L [mm]	H [mm]	M [kg]	Discount group
OV-RKO-3X130/200X50	500	200	60	1,3	GR2
OV-RKO-5X130/200X50	500	250	60	2,1	GR2

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