> heatpex.pl



VSIV

INSULATED MASS FLOW DUCTWORK 125 mm | 160 mm | 200 mm **VILV**

75 mm | 90 mm





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ARIA ADURO system components 22

Supply/exhaust diffuser





Discover all the advantages of MVHR air distribution ducting system





Complete air distribution system:

only 6 basic elements



Boxes





Connectors



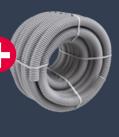


Couplings





Semi-rigid ventilation duct



High flexibility

ARIA CONNECT with its **modular design** makes it easy to adjust to the specific requirements of any building. This helps to **reduce the number of parts** required to build the installation, **limit the space occupied by the ventilation system to a minimum** and to **keep the costs** of the entire project down.

Distribution boxes can be joined horizontally or vertically, increasing the number of connections needed.

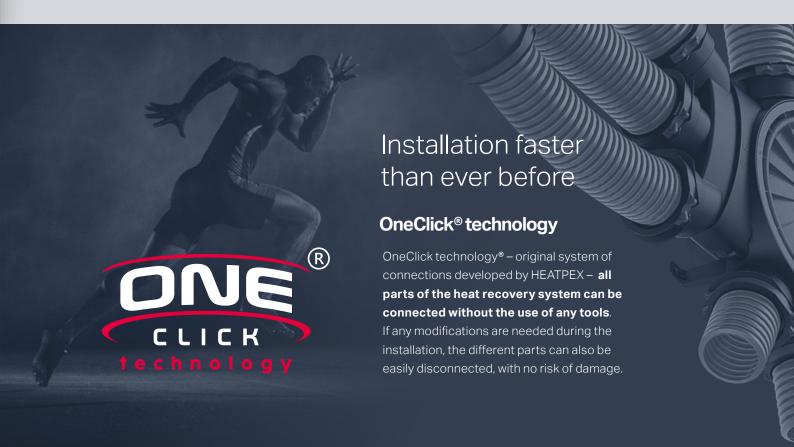


Vertical connection

System 75 mm - 20 sockets System 90 mm - 16 sockets

Horizontal connection

System 75 mm – 14 sockets System 90 mm – 12 sockets





Highest airtightness level (ATC 1)

Quiet and energy-efficient MHRV system

ARIA CONNECT air distribution system has the highest airtightness class **ATC 1 (according to EN 17192 standard)** due to its ingenious OneClick Technology and a choice of **high quality construction materials**.

The ATC 1 airtightness class replaces and surpasses the previous classification standards, making it **THREE times** better than the old D class. This is achieved without any additional sealing material during the installation works. The ATC 1 airtightness class has been confirmed by tests performed by an independent laboratory.

EN 17192













Antibacterial comes as standard

Breathe fresh and clean air at all times

The entire ARIA CONNECT air distribution system is treated with the **Ultra-Fresh®** antimicrobial additives to make it resistant to microbes (99.99% reduction).

The antibacterial additives which include silver phosphate glass as its main ingredient are used by 300 global brands around the world. This has been **confirmed by independent lab tests** according to ISO 22196 standards.

The smooth inner surface of the air duct **keeps dirt deposits to a minimum**.

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Low-pressure loss

The careful design of every single part of the system and the **smooth inner surface of the pipes allows for keeping the low pressure loss**.



Low noise level

The optimal airflow through different parts of the system and double wall pipes helps to reduce the level of noise generated by the flowing air, particularly useful at night time.



SYSTEM 90 mm

Distribution box

Distribution box with OneClick technology® is connected directly to the MHRV unit and used to supply fresh air into habitable rooms or extract used air from the "dirty" rooms.



Main advantages

Sockets with gaskets and rings in the OneClick® technology (10x75 mm or 8x90 mm in basic configuration) allowing for quick and convenient installation of ventilation pipes.

Modular construction enables expansion with additional distribution boxes using horizontal (14x75 mm / 12x90mm sockets) and vertical connectors (20x75 mm/ 16x90 mm sockets).

High mechanical resistance thanks to the use of a specialized additive in the form of a plasticizer.

Designed to be connected to the main **central** connector or the main **side** connector.

ARIA MVHR system is the only one on the market with **the highest airtightness class – ATC 1** according to EN 17192, which guarantees **quiet operation and greater energy saving**.

SYSTEM	Length	Width	Height	Number of sockets	Material	Weight	Airtightness class	Catalogue number
75 mm	498 mm	360 mm	106 mm	10	PP	1,47 kg	ATC1	52300000100W
90 mm	522 mm	470 mm	106 mm	8	PP	1,85 kg	ATC1	52309000100W

^{*} The distribution box is delivered pre-assembled and aesthetically packaged.







SYSTEM 90 mm

Plenum box

The plenum box with OneClick® technology is the element on which we mount supply / exhaust diffusers.



Main advantages

Adaptable mounting flaps with height adjustment.

Sockets with gaskets and rings in the OneClick® technology (3x75 mm or 2x90 mm) allowing for quick and convenient installation of ventilation pipes.

High mechanical resistance thanks to the use of a specialized additive in the form of a plasticizer.





Ribs for easy cutting.

Smooth airflow adjustment thanks to a dedicated damper.

ARIA MVHR system is the only one on the market with **the highest airtightness class – ATC 1** according to EN 17192, which guarantees **quiet operation and greater energy saving**.

SYSTEM	Length	Width		Diffuser connec- tion diameter (internal)	75 connection height	125 mm pipe height	Material	Weight	Airtightness class	Catalogue number
75 mm	248 mm	315 mm	447 mm	125 mm	95 mm	349 mm	PP	0,75 kg	ATC1	52337500100W
90 mm	263 mm	315 mm	454 mm	125 mm	106 mm	349 mm	PP	0,78 kg	ATC1	52329000100W

^{*} Delivered factory assembled, complete with plugs and gaskets. Aesthetically packaged

SYSTEM 90 mm

Main central connector 125/160/200 mm

The connector is used to join the distribution box with supply or exhaust (insulated) pipes attached to the MVHR unit. It is installed in the central slot of the distribution box.



Main advantages

Fits both ventilation systems: 75 mm and 90 mm.

The connector is used to attach mass flow ducts (ARIA ADURO) for the transmission of large air flows to/from the heat recovery unit. The connector's standard diameters make it possible to also connect metal (SPIRO) or other ducts.

The connector allows for standard connections of pipe of 125, 160 and 200 mm diameter. It comes equipped with high quality gaskets for all 3 dimensions.

Additionally you connect **150 mm and 180 mm pipes**, however they **require separate additional sealing**. **To minimise pressure losses**, during installation, the smaller unused connection diameters should be cut off.

The connector has grooves that facilitate cutting off the unnecessary part.

ARIA MVHR system is the only one on the market with **the highest airtightness class – ATC 1** according to EN 17192, which guarantees **quiet operation and greater energy saving**.

Height	Maximum diameter	Material	Weight	Airtightness class	Catalogue number
171 mm	249 mm	PP	0,29 kg	ATC1	52410900100W







SYSTEM 90 mm

Main side connector 125/160 mm

The connector is used to join supply or exhaust (insulated) pipes to either side of the distribution box.



Fits both ventilation systems: 75 mm and 90 mm.

The connector is fixed to the oval slot on either side of the distribution box, replacing the 3x75 mm or 2x90 mm module.

The connector is used to attach mass flow ducts (ARIA ADURO) for the transmission of large air flows to/from the heat recovery unit. The connector's standard diameters make it possible to also connect metal (SPIRO) or other ducts.

It allows for the connection of **125mm and 160mm pipes**. The connector is provided with gaskets for 125 and 160 mm diameters. Gaskets ensure a tight and rigid connection. **The connector has a groove** to facilitate the severance of 160 mm diameter, in case the 125mm is required. This is recommended in order to minimise pressure losses.

ARIA MVHR system is the only one on the market with **the highest airtightness class – ATC 1** according to EN 17192, which guarantees **quiet operation and greater energy saving**.

Length	Width	Height	Material	Weight	Airtightness class	Catalogue number
284 mm	216 mm	167 mm	PP	0,26 kg	ATC1	52411000100W

SYSTEM 90 mm

Horizontal coupling

The horizontal coupling is used to connect two or more distribution boxes horizontally.









Main advantages

Fits both ventilation systems: 75 mm and 90 mm.

The coupling plugs into the oval socket of the distribution box replacing the $3x75\ mm$ or $2x90\ mm$ module.

Connecting a second distribution box horizontally increases the **number of available sockets up to 14** (for 75 mm system) or up to 12 (for 90 mm ststem).

The highest airtightness class – ATC1 according to EN 17192, ensures quiet operation and greater energy efficiency.

Length	Width	Height	Material	Weight	Airtightness class	Catalogue number
216 mm	110 mm	92 mm	PP	0,07 kg	ATC1	52411100100W







SYSTEM 90 mm

Vertical coupling

A coupling for connecting two or more distribution boxes vertically.









Main advantages

Fits both ventilation systems: 75 mm and 90 mm. The coupling plugs into the central slot of the distribution box.

Connecting a second distribution box vertically increases the number of available sockets up to 20 (for 75 mm system) or up to 16 (for 90 mm ststem).

The coupling is equipped with **finger loops** for easy installation in the distribution box.

The highest airtightness class – ATC1 according to EN 17192, ensures quiet operation and greater energy efficiency.

Diameter	Height	Material	Weight	Airtightness class	Catalogue number
249 mm	31 mm	PP	0,06 kg	ATC1	52411200100W

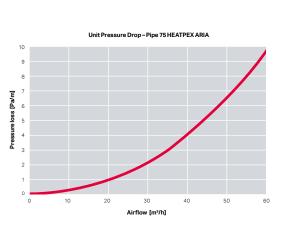
SYSTEM 63 mm

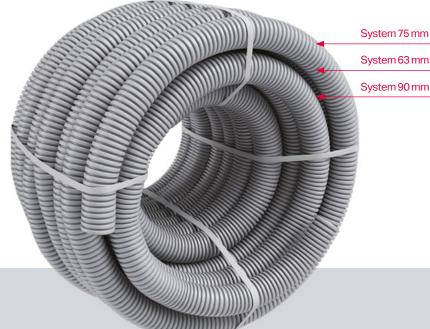
SYSTEM 75 mm

SYSTEM 90 mm

Ventilation pipe with Ultra-Fresh® antibacterial additives

Semi-rigid corrugated pipe made of highest quality high-density polyethylene (PE-HD) with an outer diameter of 75 mm, 90 mm and 63 mm.





Main advantages

All HEATPEX semi-rigid corrugated pipes are made with antibacterial additives (provided by Ultra-Fresh®) **ensuring 99,99% protection against microbes, bacteria, fungi etc**.

The antibacterial efficiency was **confirmed by laboratory tests** and the additives used pose **no health hazard**.

The pipe's semi-rigid characteristic allows for easy routing of ventilation ducts and effortless adaptation to installation requirements, without the need to use any tools, fittings or additional connectors.

The smooth inner surface of the pipe reduces flow resistance to a minimum and makes cleaning easier.

High compressive strength of up to 500N means the pipes can be poured with concrete without the risk of mechanical damage.

Very good noise reduction thanks to the double-walled pipe structure.

ARIA MVHR system is the only one on the market with **the highest airtightness class – ATC 1** according to EN 17192, which guarantees **quiet operation and greater energy saving**.

SYSTEM	Dimensions			Material	Weight	Airtightness class	Catalogue number	
STSTEM	Outer diameter Inner diameter Coil length Material	weigiit	All tigittless class	Catalogue Hullibel				
63 mm	64 mm	52 mm	50 m	PE-HD	0,240 kg/m	ATC1	52006305000W	
75 mm	76 mm	62,5 mm	50 m	PE-HD	0,273 kg/m	ATC1	52007505000W	
90 mm	91 mm	75 mm	50 m	PE-HD	0,400 kg/m	ATC1	52009005000W	



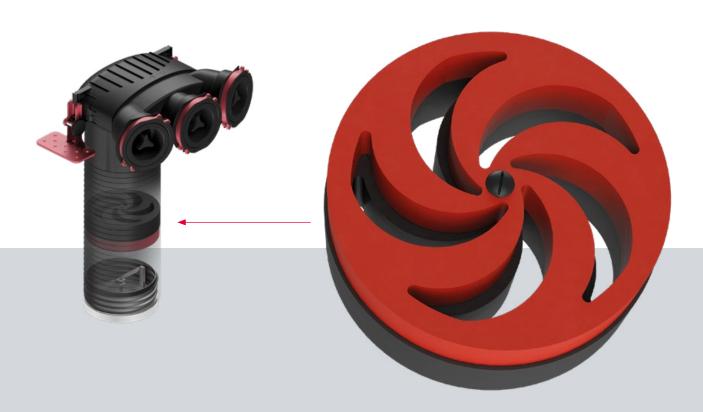




SYSTEM 90 mm

Damper/silencer 125mm

Damper made of polyethylene helps adjust the ventilation system and effectively reduces noise.



Main advantages

Effective noise reduction.

Stepless adjustment of the airflow rate by turning the damper disc.

Easy installation inside the plenum box.

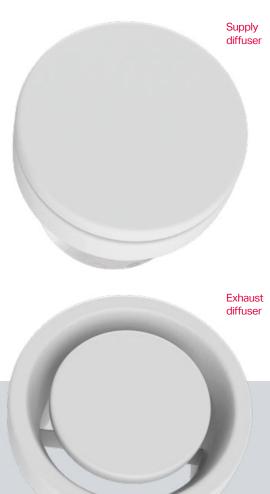
The highest airtightness class – ATC1 according to EN 17192, ensures quiet operation and greater energy efficiency.

Diameter A	Height B	Material	Weight	Airtightness class	Catalogue number	
128 mm	50 mm	Polietylen	0,05 kg	ATC1	52002400100W	

SYSTEM 75 mm SYSTEM 90 mm

Supply / exhaust diffusers





Main advantages

Designed for installation inside ARIA CONNECT plenum box.

The supply diffuser has additional PE insulation.

All diffusers come with an additional flange provided with a gasket which maintains high level of tightness. Smooth air flow adjustment by rotating air diffuser plate.

Diffuser type	Nominal diameter of the flange	Outer diameter	Height	Material	Weight	Catalogue number
Supply	125 mm	160 mm	60 mm	Stal	0,5 kg	52002100100W
Exhaust	125 mm	160 mm	60 mm	Stal	0,5 kg	52002200100W







ARIA CONNECT additional accessories (available separately)

	Name	Catalogue number
	75 mm distribution box body	52410100100W
	90 mm distribution box body	52413100100W
	75 / 90 mm plenum box body	52410500100W
500	3 x 75 mm module for plenum box / distribution box	52410300100W
	2 x 90 mm module for plenum box / distribution box	52413000100W
	End plug 75 mm	52001000100W
	End plug 90 mm	52413200100W
	Distribution box cover – universal	52410400100W
	Double-socket pipe connector for 75 mm system with a set of 2 gaskets	52011200100W
	Double-socket pipe connector for 90 mm system with a set of 2 gaskets	52011500100W
	Gasket 75 mm	52002000100M
	Gasket 90 mm	52011400100M
	Distribution box end plug – universal	52001100100W



Discover all advantages of ARIA ADURO insulated mass flow ductwork for MVHR





High insulating properties

ARIA ADURO is made of a **lightweight and durable material with insulating properties** – foamed polystyrene with added graphite is biologically resistant to fungi, mould and bacteria. Both – the plastic and graphite added during production – **result in a significant increase in insulation (\lambda=0.029 W/mK) compared to metal ducts insulated with wool. Such high insulation minimizes heat loss and prevents condensation inside and outside the duct.**

\=0.029 (W/mK)

Highest airtightness

The materials used, the patented OneClick® connection system and the design of the individual elements, allow the highest airtightness class – ATC1 according to PN-EN-17192, confirmed by tests performed by an independent laboratory. This means 3 times higher airtightness than systems with class D. The high airtightness is also due to the design of the ARIA ADURO pipe – a monorail made entirely of 1 element and a connector with a gasket, which – thanks to its low profile – does not increase the diameter of the installation.





Original mounting brackets for quick installation

Quick installation – simply attach the bracket to the surface, slide the pipe through and tighten the band.

Modularity – brackets, connected in series or in parallel, can be used for routing two or more ducts next to each other.

Ultra-light elements **require a minimum number** of mounting brackets.

Versatility – one size bracket for all 3 diameters.



50 45 50 25 TO 55 TO 55

Effortless cutting – simple setup

Markers (every 5 cm) help cut the pipe to required length. Wall thickness of only 17 mm lets you easily cut the pipe, using a simple knife.





faster installation

The ARIA ADURO system is 9 times lighter than a traditional ventilation duct based on metal pipes, making it easier to installation to walls or suspension under the ceiling. Thus, the installation is 2 times faster.



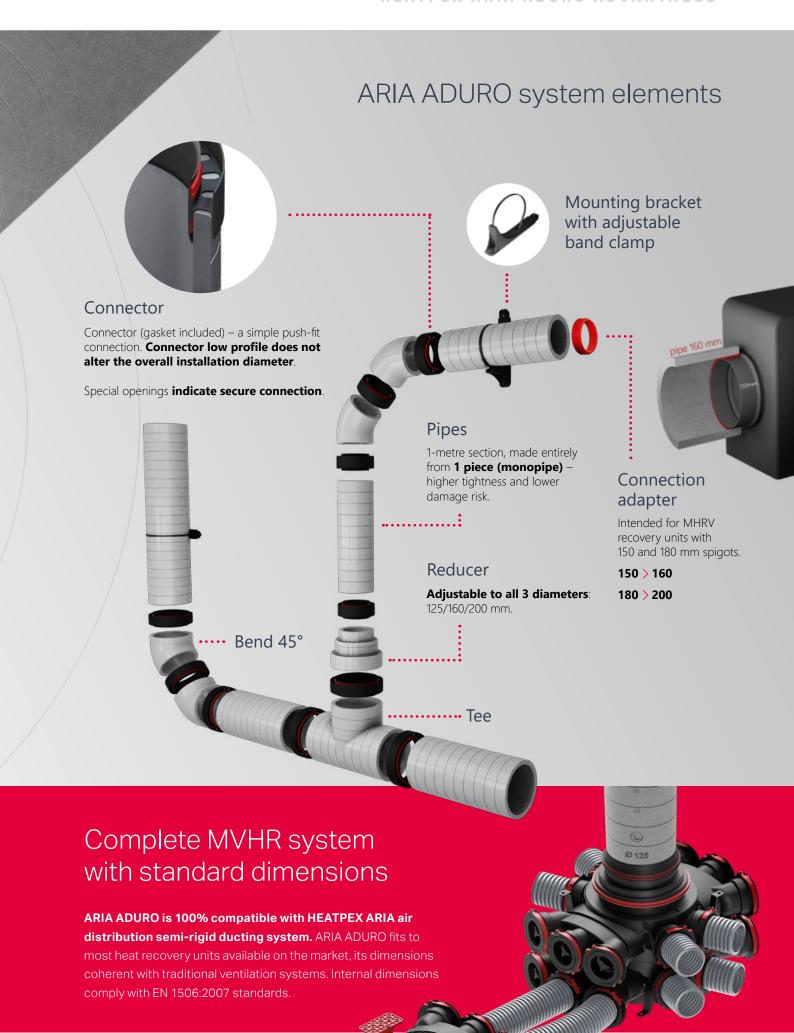
lower airflow resistance

The durable, rigid material with a smooth walls guarantees **no risk** of deformation during installation and reduces flow resistance twice as much as flexible hoses, ensuring quiet and cheaper operation.



Proven solution: OneClick® technology

Thanks to the application of OneClick technology known from HEATPEX ARIA air distribution system, connecting ARIA ADURO elements together is faster and easier than ever before.





Technical data: **System elements**

		Dian	neter				
Name	Designation	inner	outer	Length	Material	Airtightness class	Catalogue number
		mm	mm	mm			
	ADR 125	125	159				52912500100T
Pipe 1 m	ADR160	160	194	1000	EPS	ATC1	52916000100T
	ADR 200	200	234				52920000100T
	ADK 125	125	159	213			52912590100T
Bend 45°	ADK160	160	194	226	EPS	ATC1	52916090100T
	ADK 200	200	234	240			52920090100T
	ADT 125	125	159				52912580100W
Tee	ADT160	160	194	380	EPS	ATC1	52916080100T
	ADT 200	200	234				52920080100T
	ADP 125	125	159	250	EPS,		52912560100W
Damper	ADP160	160	194		galvanized	ATC1	52916060100W
	ADP 200	200	234		steel		52920060100W
	ADL 125	12	25		PP, EPDM	ATC1	52912570100W
Connector	ADL160	16	60	70			52916070100W
	ADL 200	20	00				52920070100W
Reducer	ADD 125/160/200	125/16	60/200	167	EPS	ATC1	52010200100T
Mounting bracket	ADU 125/160/200	125/16	60/200	300	PP, nylon	ATC1	52010100100W
NEW HRV unit	AKR 150/160	150	/160	40	EPDM	ATC1	52011600100T
connection adapter	AKR 180/200	180	/200	40	EPDM	ATC1	52011700100T

Technical data: **Accessories**

Name	Designation	Diameter	Length	Material	Catalogue
		mm	mm		number
Duct silencer	BL 125	125	1000	Aluminum-polyester jacket, galvanized steel, EPDM gaskets, glass wool insulation	52010300100T
	BL160	160			52010400100T
	BL 200	200			52010500100T
Air intake / outlet grille – hooded	AN 125	125	_	Stainless steel	52010600100T
	AN160	160			52010700100T
	AN 200	200			52010800100T
Air intake / outlet grille – flat	KA 125	125	-	Stainless steel	52010900100T
	KA160	160			52011000100T
	KA 200	200			52011100100T

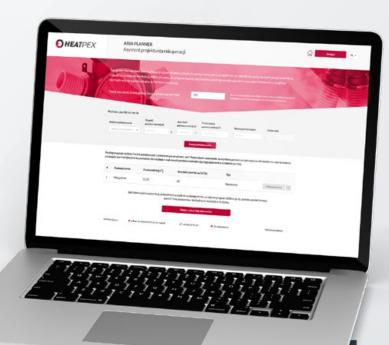
ARIA Planner





Design a heat recovery system in 10 minutes!

ARIA PLANNER - selection software, an easy tool that creates a bill of materials needed for each HRV project.





SIMPLE STEPS

STEP 1

Enter the list of rooms from your floorplan

ARIA PLANNER will automatically select the size of the heat recovery unit and required air flows depending on room type and number of occupants.

It will then create air flow balance for a harmonised supply and exhaust ventilation system.

ARIA PLANNER will also determine the number of supply and exhaust points (diffusers) for each room and calculate the number of required ventilation ducts.



STEP 2

Choose the type of connection to heat recovery unit - SIDE or CENTRAL

You will receive a list of components and air supply requirements, all tailored to your home design



STEP 3

Save and download your design







The design contains calculated air flows, a bill of materials tailored to the selected configuration as well as guidelines on installation of the heat recovery system. The document will indicate where and how to install diffusers, how to route ventilation ducts, and where to place the air intake and exhaust outlets.*

ARIA PLANNER IS AVAILABLE ON OUR WEBSITE www.heatpex.pl







♦ 99% ANTIBACTERIAL PROTECTION



ATC1 TOP AIRTIGHTNESS CLASS





Download the catalogue See how to work with the OneClick® technology

