



ARIA CONNECT and ARIA FLAT 500 air distribution ducting systems

AIR DISTRIBUTION SYSTEMS FOR SINGLE-FAMILY HOUSING





Optimised airflow throughout the building

Enables precise adjustment of supply and extract air volumes according to the size and function of each room.



Optimisation of material use and costs

More economical system design thanks to the use of smaller duct diameters where higher airflow rates are not required.

Expandability and flexible configuration

Different duct diameters and appropriately selected distribution boxes allow easy system expansion or layout modifications without replacing the entire installation.

Easy and quick installation

Smaller duct dimensions allow easier installation in screed, floors or ceilings – particularly beneficial in low-ceiling residential buildings.

Discover the benefits of **ARIA CONNECT** and **ARIA FLAT 500** air distribution systems

Heat recovery in single-family homes

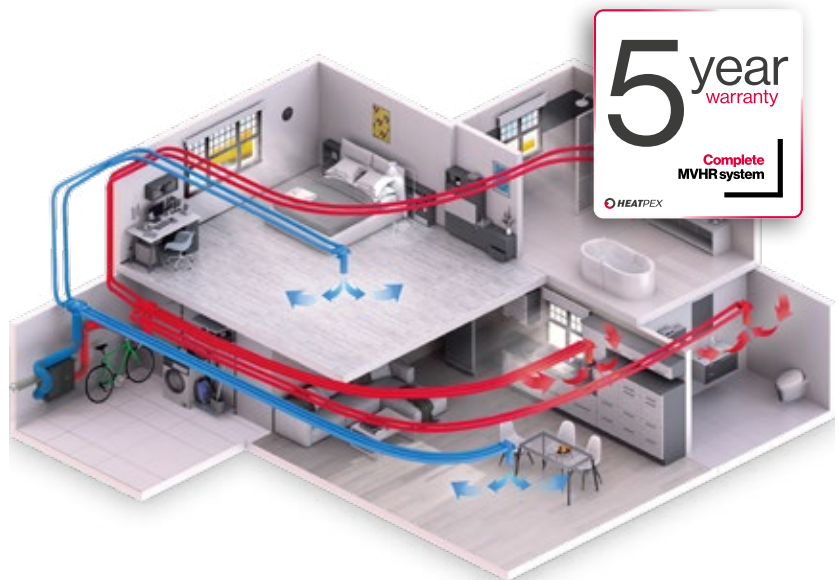
Flexible installation design

Combination of different diameters allows easy adaptation to building conditions, including limited installation space in ceilings or walls.

HEATPEX offers **modern ventilation and heat recovery distribution systems**: ARIA CONNECT (radial) and ARIA FLAT 500 (flat). ARIA CONNECT features traditional round ducts, while ARIA FLAT 500 uses flat ducts designed for modern interiors where space and aesthetics are important. Both systems are manufactured using **OneClick® technology** for quick and easy installation. System planning is simplified with the **free ARIA PLANNER selection software**, which automatically calculates material requirements.

Both systems provide:

- / Energy-efficient installation
- / Clean and hygienic air supply
- / High user comfort
- / Proprietary OneClick® technology ensures fast, tool-free assembly.
- / ATC1 airtightness class guarantees low operating costs.
- / Ultra-Fresh® technology eliminates up to 99.9% of bacteria from the air, supporting a healthy indoor environment.



ARIA
CONNECT

Radial system

Multiple diameters, one unified solution

Complete air
distribution
system:only **6** basic
components

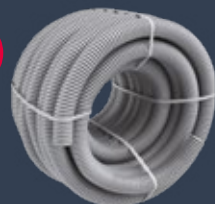
Boxes



Connectors



Couplings

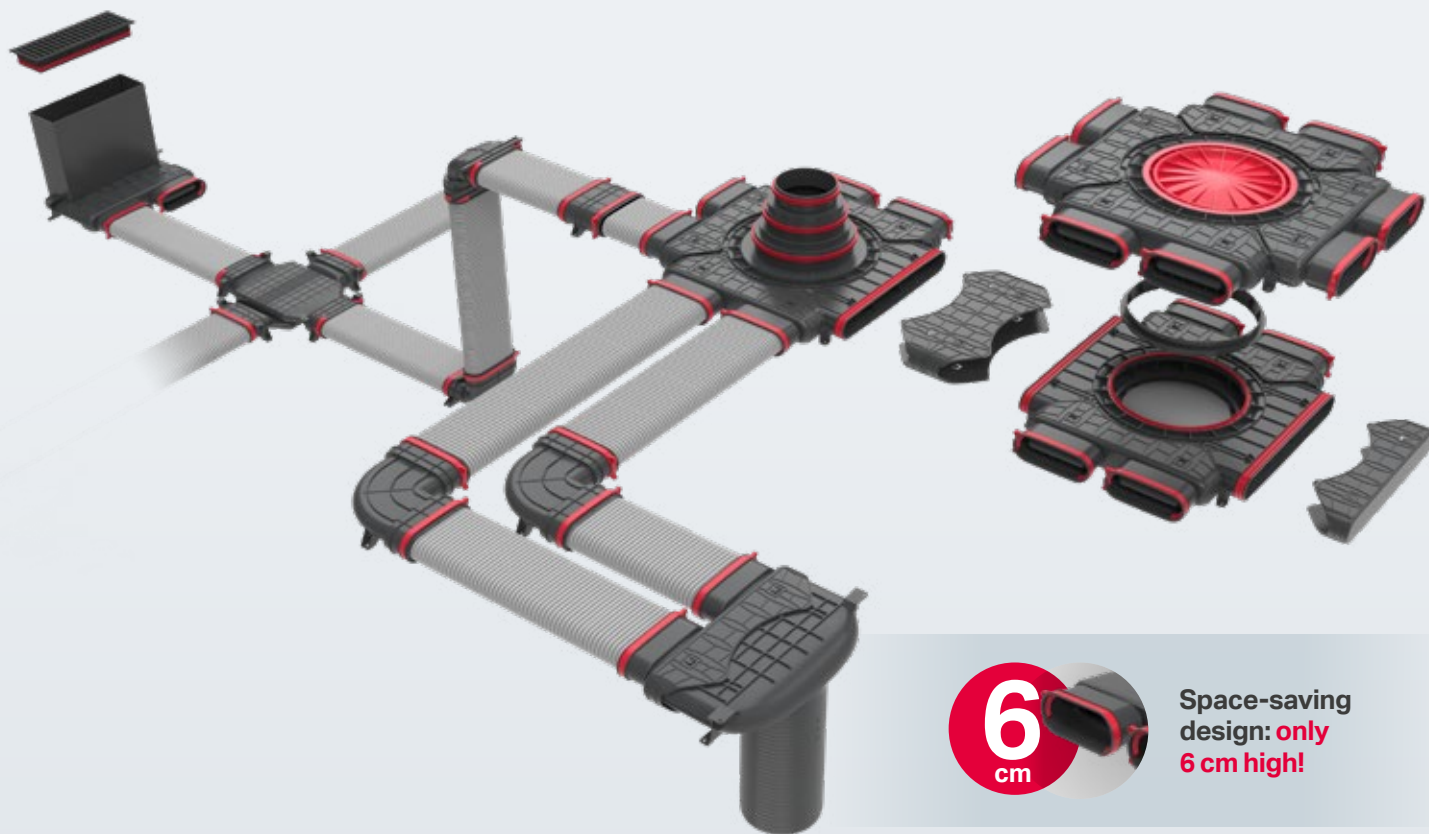
Semi-rigid
ventilation
duct

L=50m

ARIA
FLAT500

Flat system

Expanded possibilities



6
cm

Space-saving
design: **only**
6 cm high!

Combine
radial and flat
systems for
total flexibility

Installation made
easy: **Everything**
clicks into place!

Boxes



Connector



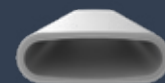
Couplings



Ducting connector, elbows and bypass



**Ventilation
flat channel**



L=25m L=50m

Modular design, **total flexibility**

ARIA
CONNECT**ARIA**
FLAT500**OR**

Vertical connection

(Modular design allows for multiple box configurations)

63 mm system
24 connections

75 mm system
20 connections

90 mm system
16 connections

System
ARIA FLAT 500
16 connections

**OR**

Horizontal connection

(Modular design allows for multiple box configurations)

63 mm system
16 connections

75 mm system
14 connections

90 mm system
12 connections

System
ARIA FLAT 500
12 connections

Unified distribution: integrate radial and flat systems

Easily combine radial and flat components to **suit any installation.**



Installation **faster**
than ever before



OneClick® technology:
Intuitive assembly,
engineered for speed

OneClick® technology is a proprietary connection system developed by HEATPEX. It allows all heat recovery **components to be joined without tools**. Should your plans change during installation, **parts can be easily disconnected and reused with no risk of damage**.



EN 17192

Highest airtightness
rating (ATC 1)

**Quiet, energy-efficient
performance**

Patented OneClick® technology ensures highest tightness class – ATC 1 per EN 17192. Delivers **three times higher airtightness** than Class D. Superior seal **achieved without additional tapes or sealants**. **Only system on market** meeting this stringent standard since 2019. Verified by **independent laboratory testing**. Ensures **whisper-quiet operation and maximum energy savings** for end-user.



ATC1

Low pressure losses and low noise levels

Carefully engineered system components and **smooth inner duct surfaces** minimise pressure losses.



Optimised airflow distribution and **double-wall ducts reduce noise generated by moving air** – particularly important during night-time operation.



Antibacterial protection as standard

Clean, fresh air – every day

HEATPEX ARIA ducts and system components are manufactured using **Ultra-Fresh® antibacterial additive**. Ensures **99.9% antibacterial activity**, confirmed by independent laboratory testing in accordance with **ISO 22196**. Phosphate-silver glass-based technology, used in over 300 global brands. **Smooth internal duct surfaces minimise accumulation of contaminants.**



100%
**ANTIBACTERIAL
PROTECTION**





Durability & strength

System components manufactured from **durable, lightweight polypropylene (PP)**, ensuring **long-term reliability without risk of corrosion or mechanical damage**.

Ducts, distribution boxes and connectors **suitable for installation in concrete**. Important: **Polypropylene (PP) is considered a health-safe material and is 100% recyclable**.

Compact size

Compact dimensions of ARIA CONNECT and ARIA FLAT 500 systems **allow installation within ceiling insulation, roof structures or suspended ceilings**.



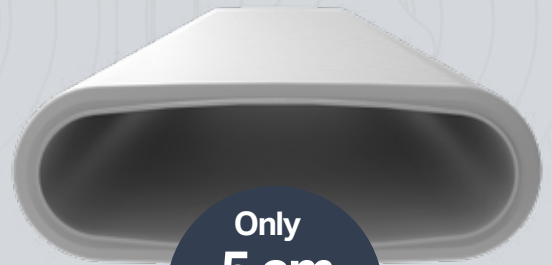
Only
9.5 cm

PLENUM
BOX HEIGHT

Only
10.6 cm

DISTRIBUTION
BOX HEIGHT

ARIA CONNECT RADIAL SYSTEM



Only
5 cm

FLAT
CHANNEL
HEIGHT

Only
6 cm

OVERALL
FLAT SYSTEM
HEIGHT

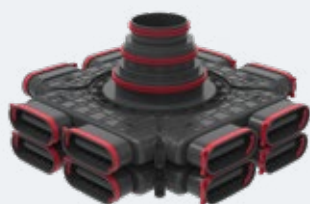
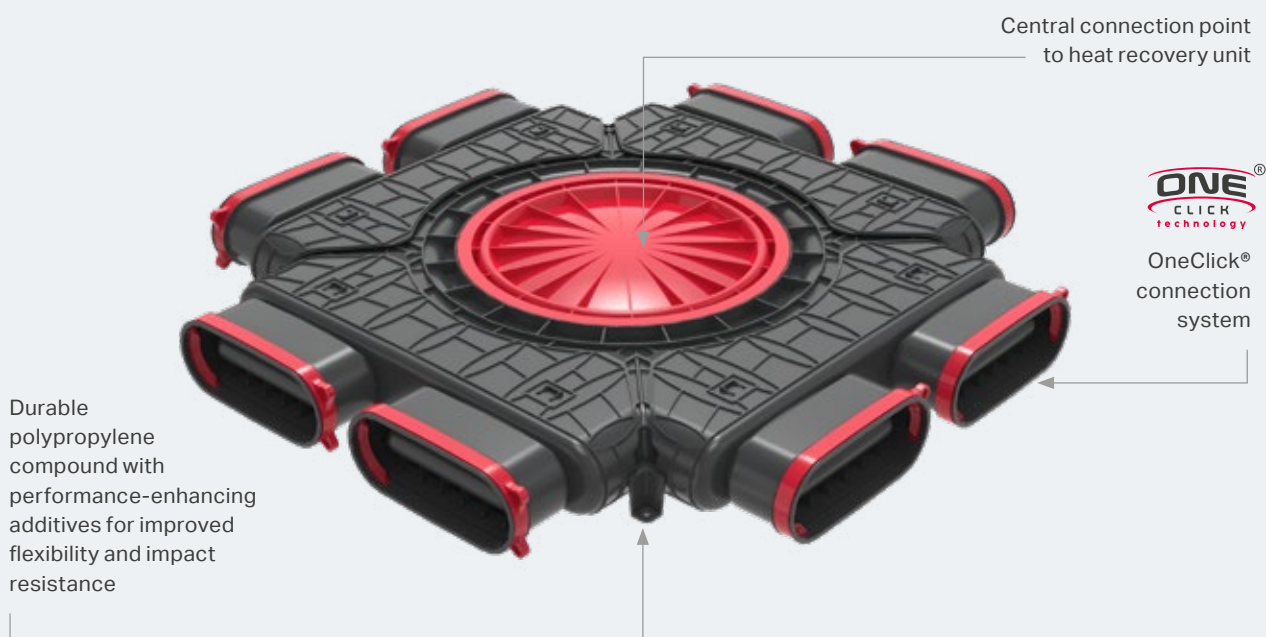
ARIA FLAT 500 FLAT SYSTEM

● FLAT 500 SYSTEM

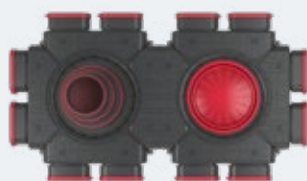
ARIA FLAT 500

flat system distribution box

Distribution box with OneClick® technology, designed for connection to the heat recovery unit. A complete ventilation system consists of at least two boxes: supply box – distributes fresh air to rooms and extract box – collects stale air.

**Vertical connection**

16 connections

OR**Horizontal connection**

12 connections

**Flat and radial system integration**

System	Length	Width	Height	Number of 50 mm connections	Mass	Material	Airtightness class	Catalogue number
FLAT 500	573 mm	573 mm	62 mm	8	1.63 kg	PP	ATC1	54000000101W

Supplied fully assembled with factory-fitted plugs and seals. Securely packaged. All unused ports must remain sealed to maintain airtightness.

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm

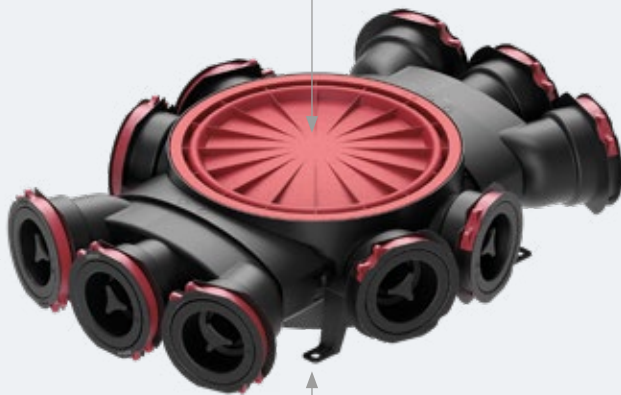
ARIA CONNECT

radial system distribution box

Central connection point
to heat recovery unit



OneClick®
connection
system



Durable polypropylene compound with performance-enhancing
additives for improved flexibility and impact resistance



Vertical connection

63 mm system – 24 connections
75 mm system – 20 connections
90 mm system – 16 connections



Horizontal connection

63 mm system – 16 connections
75 mm system – 14 connections
90 mm system – 12 connections

SYSTEM
63
mm



SYSTEM
75
mm



SYSTEM
90
mm



Flat and radial system integration

System	Length	Width	Height	Number of connections	Mass	Material	Airtightness class	Catalogue number
63 mm	532 mm	421 mm	106 mm	12	1.56 kg	PP	ATC1	52306300100W
75 mm	498 mm	360 mm	106 mm	10	1.47 kg	PP	ATC1	52300000100W
90 mm	522 mm	470 mm	106 mm	8	1.85 kg	PP	ATC1	52309000100W

Supplied fully assembled with factory-fitted plugs and seals. Securely packaged. All unused ports must remain sealed to maintain airtightness.

● FLAT 500 SYSTEM

ARIA FLAT 500

flat system plenum boxes

Plenum box with OneClick® technology, designed for connection of supply or extract diffusers.

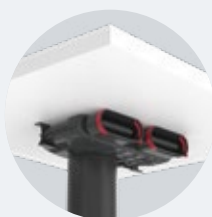
For linear diffusers

For round diffusers



SUITABLE FOR INSTALLATION:

- IN CEILING INSULATION
- WITHIN FLOOR BUILD-UP
- IN SUSPENDED CEILINGS



System	Type of box	Length	Width	Height	Number of connections	Mass	Material	Airtightness class	Catalogue number
FLAT 500	Plenum	258 mm	380 mm	361 mm	2	0.91 kg	PP	ATC1	54000000101W
FLAT 500	Linear plenum	271 mm	337 mm	300 mm	2	0.30 kg	PP	ATC1	54030010001W

Supplied fully assembled with factory-fitted plugs and seals. Securely packaged. All unused ports must remain sealed to maintain airtightness.

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm

ARIA CONNECT

radial system plenum boxes

For **linear** diffusersFor **round** diffusers

System	Type of box	Length	Width	Height	Average approach under anemostat (internal)	Number of connections	Mass	Connector length 125 mm	Material	Airtightness class	Number catalogue
63 mm	Plenum	265 mm	349 mm	446 mm	125 mm	4	0.86 kg	349 mm	PP	ATC1	52346300100W
63 mm	Linear plenum	271 mm	337 mm	300 mm	125 mm	4	1.15 kg	349 mm	PP	ATC1	52346300400W
75 mm	Plenum	248 mm	315 mm	447 mm	125 mm	3	0.75 kg	349 mm	PP	ATC1	52337500100W
75 mm	Linear plenum	271 mm	337 mm	300 mm	125 mm	3	1.15 kg	349 mm	PP	ATC1	52337500400W
90 mm	Plenum	263 mm	315 mm	447 mm	125 mm	2	0.78 kg	349 mm	PP	ATC1	52329000100W
90 mm	Linear plenum	271 mm	337 mm	300 mm	125 mm	2	1.15 kg	349 mm	PP	ATC1	52329000400W

Supplied fully assembled with factory-fitted plugs and seals. Securely packaged. All unused ports must remain sealed to maintain airtightness.

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm

● FLAT 500 SYSTEM

Central main connection

For radial and flat systems

Central connector for primary supply or extract duct (Ø 125 / 160 / 200 mm) to the distribution box. Compatible with ARIA ADURO insulated mass flow ducts. Allows use of both round and flat duct systems and ensures efficient transfer of high air volumes to and from the MVHR unit.



Mounted directly to main socket of the distribution box. / Supports duct diameters: Ø 125 / 160 / 200 mm (with seals included), Ø 150 / 180 mm (without seals) / Seals included for 125, 160 and 200 mm connections in both round and flat systems. / Compatible with intermediate spigots for Ø 150 and Ø 180 mm systems (without seals), SPIRO and other standard radial ducts.

System	Height	Maximum diameter	Material	Mass	Airtightness class	Catalogue number
63 / 75 / 90 mm / FLAT 500	171 mm	249 mm	PP	0.29 kg	ATC1	52410900100W

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm

Side main connection 125/160

For radial system

Side connector for primary supply or extract duct Ø 125 / 160 mm.
Compatible with ARIA ADURO insulated mass flow ducts. Designed to transfer high air volumes to and from the MVHR unit.



Installed in the elliptical socket of the distribution box in place of a 3 × 75 mm or 2 × 90 mm module. / Includes seals for Ø 125 and Ø 160 mm connections to ensure airtight and secure installation. / Compatible with SPIRO and other standard radial ducts.

System	Length	Width	Height	Material	Mass	Airtightness class	Catalogue number
63 / 75 / 90 mm	284 mm	216 mm	167 mm	PP	0.26 kg	ATC1	52411000100W

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm

● FLAT 500 SYSTEM

Vertical coupling

For **radial** and **flat** systems

Coupling for vertical connection of two or more distribution boxes.

Integrated grip
tabs for easier
installation



Mounted in the central socket of the distribution box, with universal compatibility: Ø 63 / 75 / 90 mm systems and FLAT 500. /

Vertical stacking increases available connections: Ø 63 mm system – 24 connections, Ø 75 mm system – 20 connections, Ø 90 mm system – 16 connections / Supplied with integrated plugs for easy installation. / Airtightness class: ATC1 (PN-EN 17192)

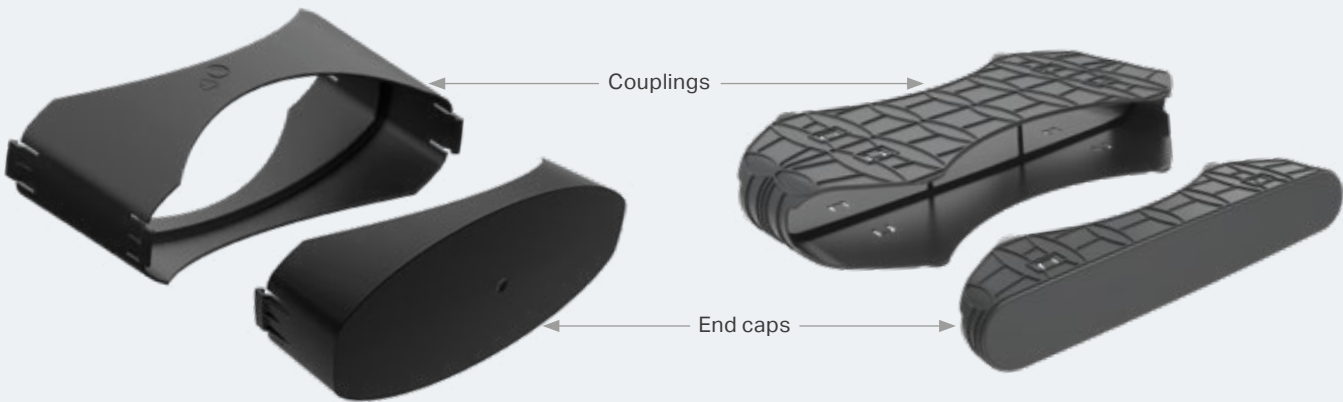
System	Type	Length	Width	Height	Material	Mass	Airtightness class	Catalogue number
63 / 75 / 90 mm / FLAT 500	Vertical coupling	249 mm	249 mm	31 mm	PP	0.06 kg	ATC1	52411200100W

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm ● FLAT 500 SYSTEM

Horizontal coupling and end cap

For **radial** and **flat** systems

Coupling for horizontal connection of two or more distribution boxes.



Radial system



Flat system

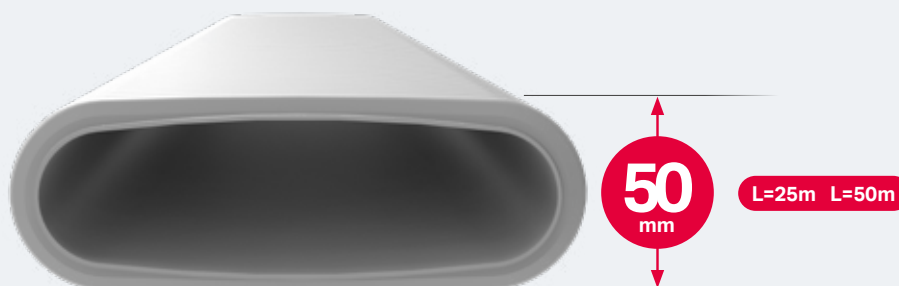


System	Type	Length	Width	Height	Material	Mass	Airtightness class	Catalogue number
63 / 75 / 90 mm	Horizontal coupling	216 mm	110 mm	92 mm	PP	0.07 kg	ATC1	52411100100W
FLAT 500	Horizontal coupling	360 mm	195 mm	62 mm	PP	0.185 kg	ATC1	54011100100W
System	Type	Width	Height	Depth	Material	Mass	Airtightness class	Catalogue number
63 / 75 / 90 mm	Distribution box end cap for wall mounting	212 mm	92 mm	55 mm	PP	0.06 kg	ATC1	52001100100W
FLAT 500	Distribution box end cap for wall mounting	99 mm	363 mm	62 mm	PP	0.13 kg	ATC1	54001100100W

● FLAT 500 SYSTEM

Antibacterial and antistatic flat ducting and connectors

NEW



Flat ducting connector

Vertical elbow

Horizontal elbow

Crossing connector for intersecting ducts or passing over building services



Ultrafresh® additive – with antibacterial activity **up to 99.9%**. **Antistatic** properties reduce dust and contaminant build-up. **High flexibility** and **impact resistance** (up to 500 N compression strength). **Smooth internal surface** minimises resistance and facilitates cleaning. **Low noise levels**. **High airtightness class** – ATC1 (PN-EN 17192). **Patented design**.

System	Type	Width	Height	Coil length	Material	Mass	Airtightness class	Catalogue number
FLAT 500	Flat ducting	141 mm	50 mm	25 m	PE-HD	0.437 kg/m	ATC1	52050002500W
FLAT 500	Flat ducting	141 mm	50 mm	50 m	PE-HD	0.437 kg/m	ATC1	52050005000W
System	Type	Length	Width	Height	Material	Mass	Airtightness class	Catalogue number
FLAT 500	Flat ducting connector	176 mm	114 mm	60 mm	PP	0.144 kg	ATC1	54013300100W
FLAT 500	Vertical elbow	183 mm	120 mm	122 mm	PP	0.154 kg	ATC1	54013500100W
FLAT 500	Horizontal elbow	231 mm	231 mm	60 mm	PP	0.224 kg	ATC1	54013400100W
FLAT 500	Crossing connector	384 mm	200 mm	60 mm	PP	0.128 kg	ATC1	54013600100W



Each connector supplied with two seals to ensure airtight installation.

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm

Antibacterial and antistatic radial ventilation ducting



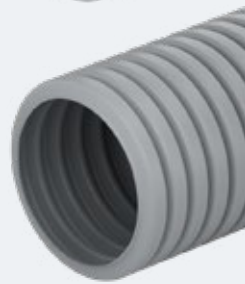
63 mm



75 mm



90 mm



Ultra-Fresh® antibacterial inner layer with 99.99% efficiency. / Antistatic properties reduce dust and contaminant build-up.
/ High flexibility and impact resistance (compression strength up to 500 N). **/ Smooth internal surface** minimises airflow resistance.
/ Low noise emission. / Highest airtightness class – **ATC1 (PN-EN 17192).**

System	Dimensions			Material	Mass	Airtightness class	Catalogue number
	External diameter	Internal diameter	Coil length				
63 mm	64 mm	52 mm	50 m	PE-HD	0.240 kg/m	ATC1	52006305000W
75 mm	76 mm	63 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

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm

● FLAT 500 SYSTEM

Supply and extract air diffusers 125 mm damper / silencer

Polyethylene foam damper with integrated noise attenuation. Regulates airflow within the ventilation system and prevents unintended adjustment.

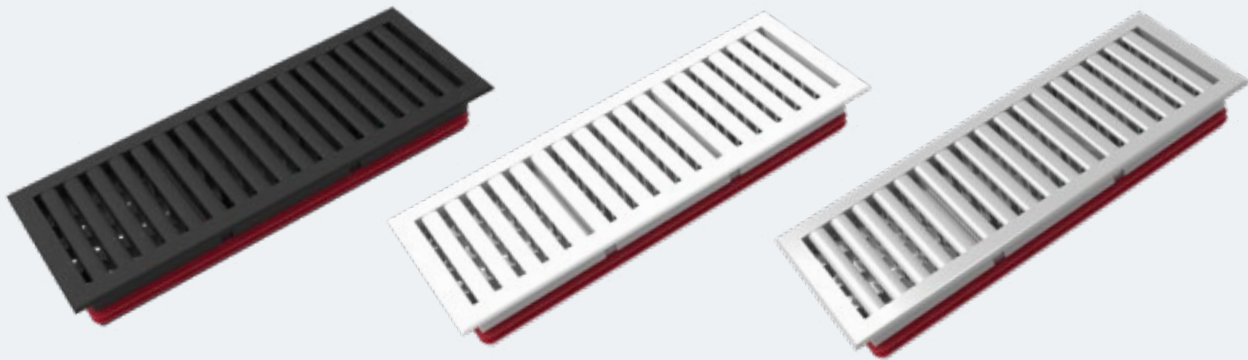


Type	Nominal diameter of the flange	External diameter	Height	Material	Mass	Catalogue number
Supply air damper	125 mm	160 mm	60 mm	Steel	0.5 kg	52002100100W
Extract air damper	125 mm	160 mm	60 mm	Steel	0.5 kg	52002200100W
Type	Diameter	Height		Material	Mass	Catalogue number
125 mm damper / silencer	128 mm	50 mm		EVA	0.05 kg	52002400100W

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm ● FLAT 500 SYSTEM

Linear supply and extract grilles

Universal grille for wall or floor installation. Slots can be arranged vertically or horizontally to suit design and airflow requirements.



SAMPLE ARRANGEMENTS



Universal installation: wall or floor / **Mounted in linear plenum box** – ARIA CONNECT (63 / 75 / 90 mm) or ARIA FLAT 500 / Adjustable **integrated damper** for airflow control

System	Colour	Length	Width	Height	Material	Mass	Catalogue number
63 / 75 / 90 mm / FLAT 500	Black	315 mm	115 mm	40 mm	ABS	0.2 kg	52040010000W
	White	315 mm	115 mm	40 mm	ABS	0.2 kg	52040020000W
	Silver	315 mm	115 mm	40 mm	ABS	0.2 kg	52040030000W

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm

● FLAT 500 SYSTEM

ARIA CONNECT and ARIA FLAT 500

system components (available separately)



**63 mm distribution
box body**

Catalogue number
52414100100W



**75 mm distribution
box body**

Catalogue number
52410100100W



**90 mm distribution
box body**

Catalogue number
52413100100W



**63 / 75 / 90 mm
plenum box body**

Catalogue number
52410500100W



**4 x 63 mm module
for plenum box /
distribution box**

Catalogue number
52414000100W



**3 x 75 mm module
for plenum box /
distribution box**

Catalogue number
52410300100W



**2 x 90 mm module
for plenum box /
distribution box**

Catalogue number
52413000100W



**Linear plenum
box body**

Catalogue number
52410500400W



End plug for plenum / distribution box

Catalogue number
(63 mm) 52414200100W
(75 mm) 52001000100W
(90 mm) 52413200100W



Distribution box cover – universal

Catalogue number
52410400100W



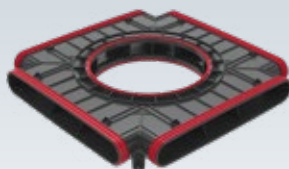
Double-socket ducting connector with a set of 2 gaskets

Catalogue number
(63 mm) 52011600100W
(75 mm) 52011200100W
(90 mm) 52011500100W



Gasket for radial ducting

Catalogue number
(63 mm) 52011700100M
(75 mm) 52002000100M
(90 mm) 52011400100M



Flat distribution box body

Catalogue number
54013700100W



Flat plenum box body

Catalogue number
54013800100W



Linear plenum box body

Catalogue number
54013800400W



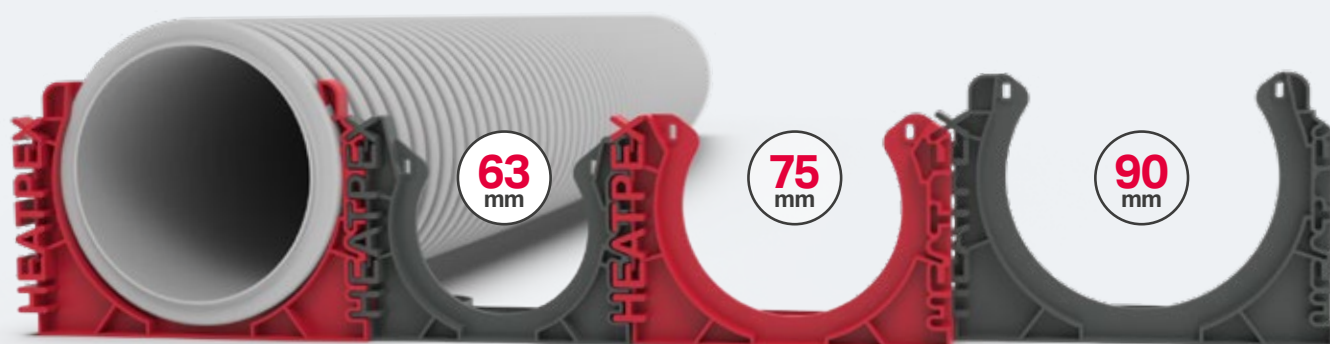
Gasket for flat ducting

Catalogue number
50000000014M

● RADIAL SYSTEM 63 mm / 75 mm / 90 mm

Mounting accessories

Simple and quick clip-on connection



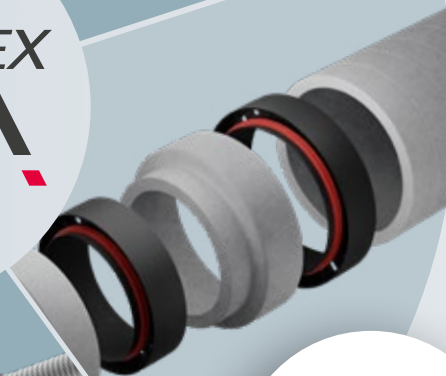
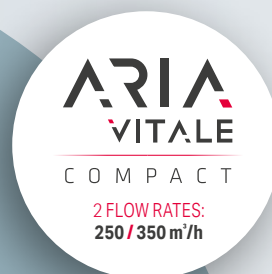
Type	Name			Catalogue number
	Ventilation duct cutter – 63 mm			52011800100W
	Ventilation duct cutter – 75 mm			52011900100W
	Ventilation duct cutter – 90 mm			52012000100W
 63	Ventilation duct clips Red – 63 mm	48 x 83 x 66 mm	10 pieces	52012401000W
			100 pieces	52012410000W
	Ventilation duct clips Grey – 63 mm		10 pieces	52012301000W
			100 pieces	52012310000W
 75	Ventilation duct clips Red – 75 mm	48 x 95 x 66 mm	10 pieces	52012501000W
			100 pieces	52012510000W
	Ventilation duct clips Grey – 75 mm		10 pieces	52012101000W
			100 pieces	52012110000W
 90	Ventilation duct clips Red – 90 mm	48 x 108 x 76 mm	10 pieces	52012601000W
			100 pieces	52012610000W
	Ventilation duct clips Grey – 90 mm		10 pieces	52012201000W
			100 pieces	52012210000W

Red and grey clips are used to distinguish between supply and extract ducts.



HEATPEX / ARIA

COMPLETE MVHR SYSTEM



ARIA PLANNER 2.0



Plan your heat recovery system in just minutes. Automatically generate a complete bill of materials.

3 SIMPLE STEPS

Design your heat recovery system with ease

- 1** Select national calculation standards for your country.
- 2** Add individual rooms, specify occupant numbers, define project zoning.
- 3** Select connection type: central or side.



Generate your bill of materials instantly.

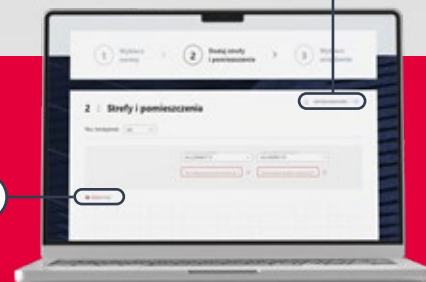
Why it's worth it:

- **Clear step-by-step process**
- **Automatic unit selection and airflow balancing** – ensuring balanced supply and extract ventilation
- Compliance with national standards
- Selection of air supply points (air vents) **for each room**

Additional module for professionals

UPLOAD PLAN

GRAPHIC EDITOR



Discussing project with an investor?

- **Well-prepared design** supports clear communication
- **Structured installation** concept
- **Defined plan** of action

Additional graphics module (free after login)

- **Create installation drawings** quickly, without specialist software
- More **detailed bill of materials** based on project
- **Complete design documentation** with material list

Benefits:

- **Time savings** through automation
- **Reduced risk** of design errors
- **Professional documentation** for customer



> **heatpex.pl**

Heatpex Sp. z o.o. Chrzanowskiego 11, 80-278 Gdańsk, Poland
tel. +48 661 693 697, e-mail: sales@heatpex.pl