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ARIA



HEAT RECOVERY VENTILATION SYSTEM

TECHNICAL DATA





The HEATPEX ARIA distribution box is connected to the HRV unit. It is responsible for the supply of fresh air to or the extraction of dirty air from different rooms in a building.

The system components are made of extremely light yet durable plastic material ensuring reliable operation for years, without the risk of mechanical damage or corrosion. More importantly the construction material used (PP – polypropylene) is considered safe as it poses no health hazard and is 100% recyclable.

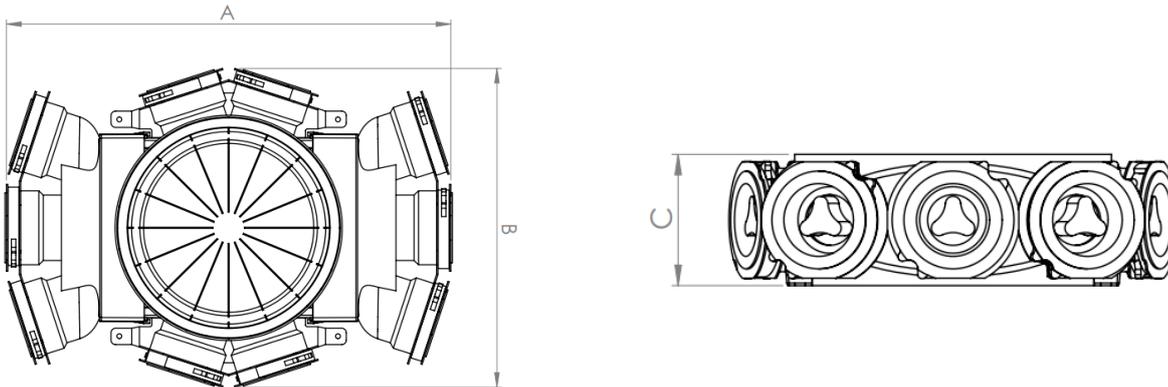
- ⊗ A modular structure allows to customise the box to the air flow requirements.
- ⊗ 10 pipe sockets in the standard configuration.
- ⊗ Designed to be used with the main or side central connector.
- ⊗ Can be extended by connecting additional distribution boxes using the horizontal or vertical couplings.

DISTRIBUTION BOX 10X75 HEATPEX ARIA



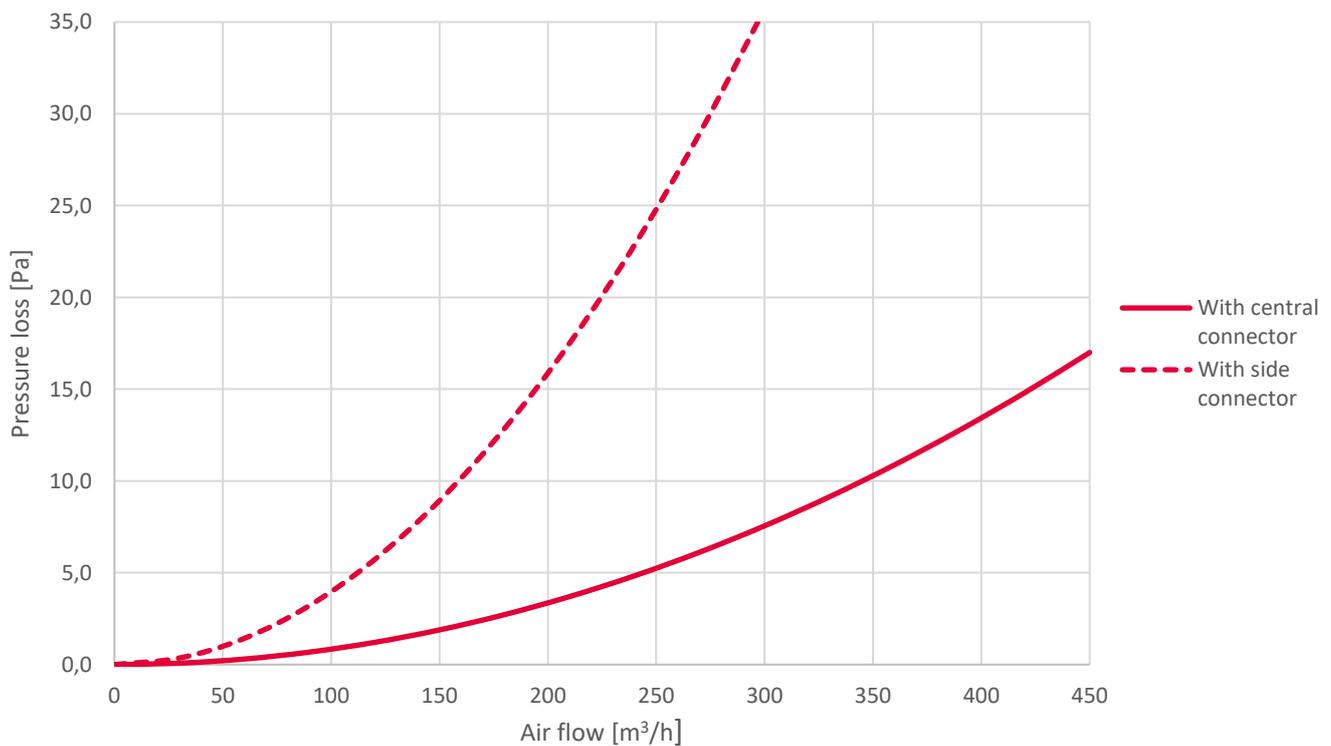


| DIMENSION | | | SOCKETS | MATERIAL | MASS | CATALOGUE NO. |
|-------------|------------|-------------|---------|----------|---------|---------------|
| Length A | Width B | Height C | 10 | PP | 1,47 kg | 523 000 001 |
| 498 mm | 360 mm | 106 mm | | | | |



DISTRIBUTION BOX 10X75 HEATPEX ARIA

Pressure loss - Distribution box 10x75





TECHNICAL DATA SHEET



1. DISTRIBUTION BOX 10 X 75 WITH MAIN SIDE CONNECTOR.
2. DISTRIBUTION BOX 10 X 75 WITH MAIN CENTRAL CONNECTOR
3. TWO DISTRIBUTION BOXES 10 X 75 CONNECTED VERTICALLY WITH MAIN CENTRAL CONNECTOR.
4. TWO DISTRIBUTION BOXES 10 X 75 CONNECTED HORIZONTALLY WITH MAIN CENTRAL CONNECTOR.
5. TWO DISTRIBUTION BOXES 10 X 75 CONNECTED HORIZONTALLY WITH MAIN SIDE CONNECTOR.
6. DISTRIBUTION BOX 10 X 75 WITH DISTRIBUTION BOX END PLUG.

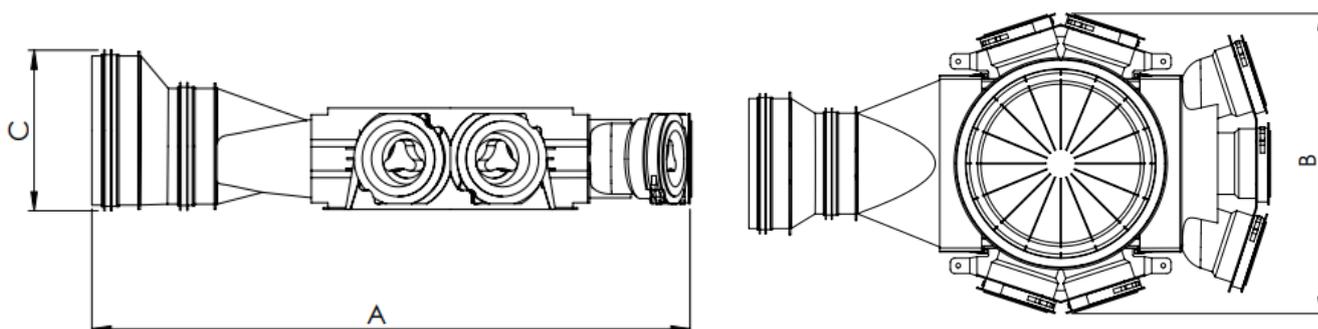
CONFIGURATIONS





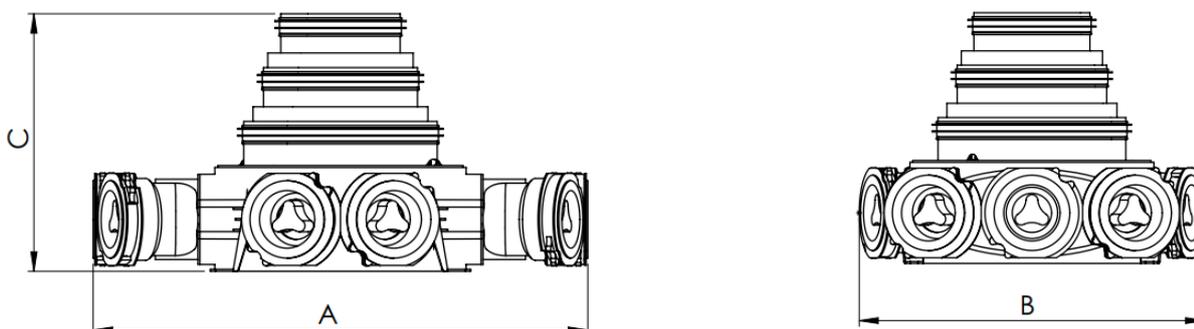
1. DISTRIBUTION BOX 10 X 75 WITH MAIN SIDE CONNECTOR

| DIMENSIONS | | |
|-------------|------------|-------------|
| Length A | Width B | Height C |
| 624 mm | 360 mm | 160 mm |



2. DISTRIBUTION BOX 10 X 75 WITH MAIN CENTRAL CONNECTOR

| DIMENSIONS | | |
|-------------|------------|-------------|
| Length A | Width B | Height C |
| 498 mm | 360 mm | 261 mm |

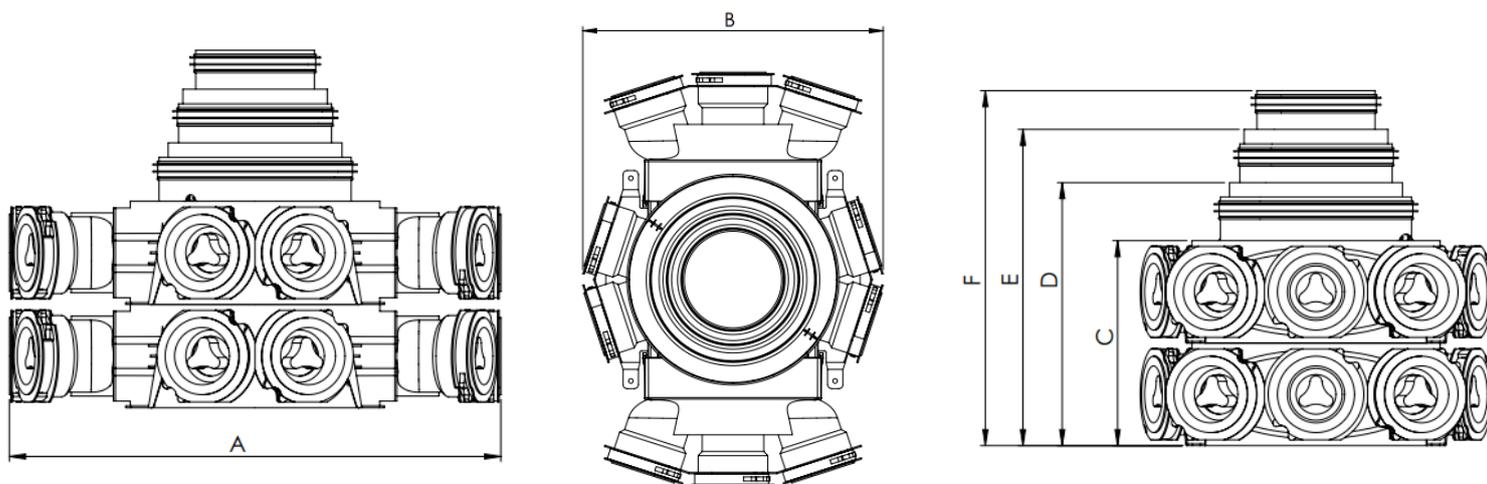




3. TWO DISTRIBUTION BOXES 10 X 75 CONNECTED VERTICALLY WITH MAIN CENTRAL CONNECTOR

DIMENSIONS

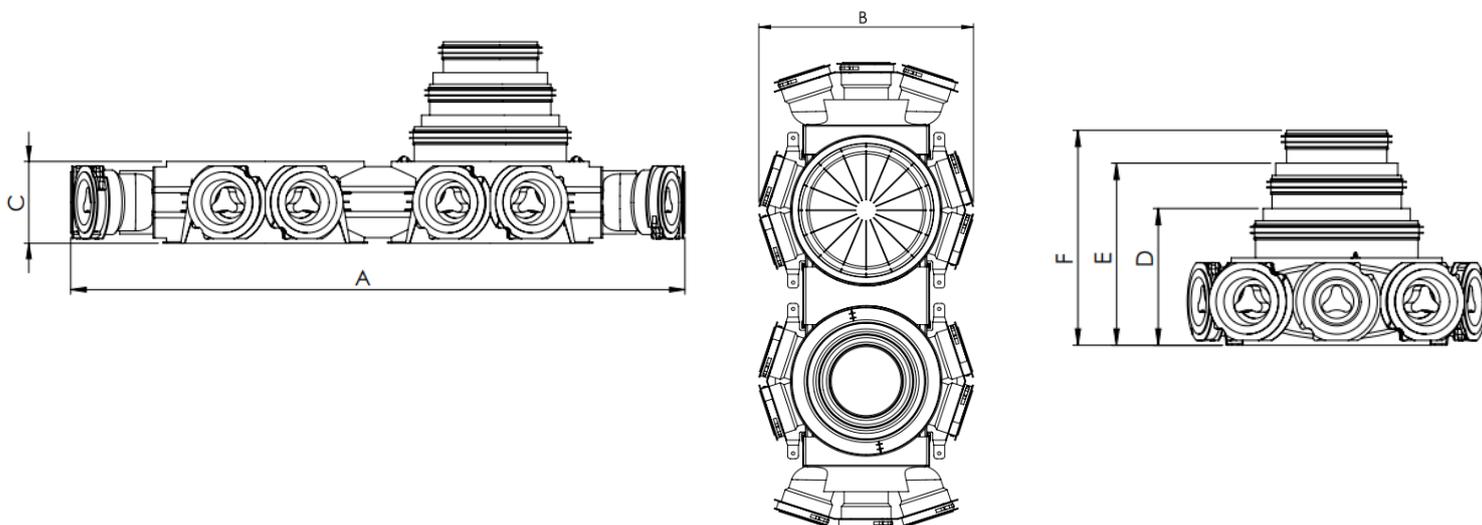
| Length A | Width B | Height C | Height D | Height E | Height F |
|-------------|------------|-------------|-------------|-------------|-------------|
| 498 mm | 360 mm | 214 mm | 270 mm | 326 mm | 368 mm |



4. TWO DISTRIBUTION BOXES 10 X 75 CONNECTED HORIZONTALLY WITH MAIN CENTRAL CONNECTOR

DIMENSIONS

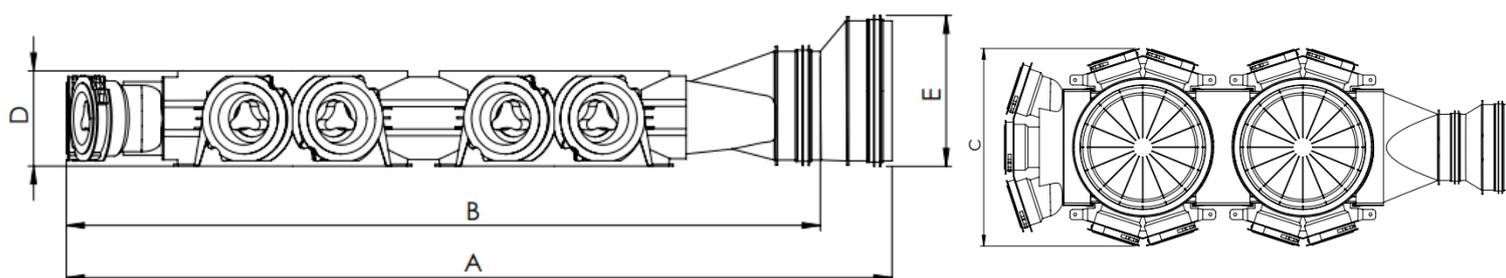
| Length A | Width B | Height C | Height D | Height E | Height F |
|-------------|------------|-------------|-------------|-------------|-------------|
| 789 mm | 360 mm | 106 mm | 270 mm | 163 mm | 261 mm |





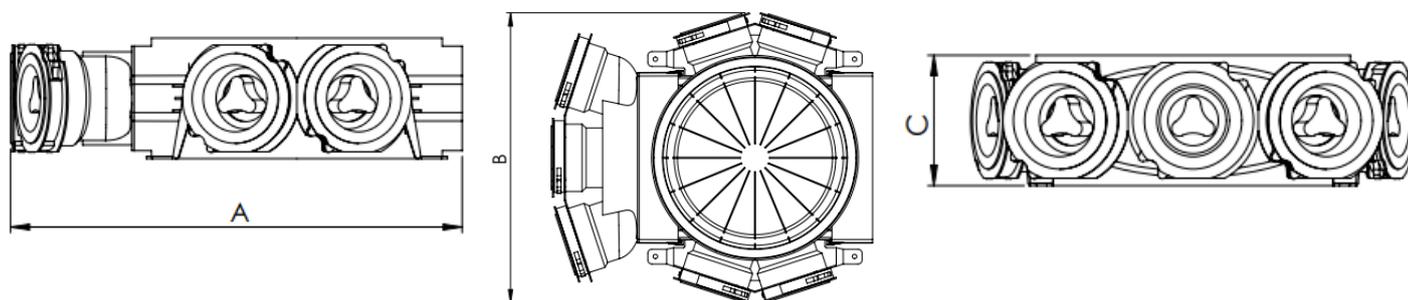
5. TWO DISTRIBUTION BOXES 10 X 75 CONNECTED HORIZONTALLY WITH MAIN SIDE CONNECTOR.

| DIMENSIONS | | | | |
|------------|----------|---------|----------|----------|
| Length A | Length B | Width C | Height D | Height E |
| 910 mm | 847 mm | 360 mm | 106 mm | 160 mm |



6. 6. DISTRIBUTION BOX 10 X 75 WITH DISTRIBUTION BOX END PLUG

| DIMENSIONS | | |
|------------|---------|----------|
| Length A | Width B | Height C |
| 399 mm | 360 mm | 106 mm |





TECHNICAL DATA SHEET



The plenum box allows to connect up to three 75 mm pipes to a 125 mm supply or exhaust air diffuser. Each unused connection must be covered with a 75 mm end plug (supplied by the manufacturer). The system components are made of extremely light yet durable plastic material ensuring reliable operation for years, without the risk of mechanical damage or corrosion. More importantly the construction material used (PP – polypropylene) is considered safe as it poses no health hazard and is 100% recyclable.

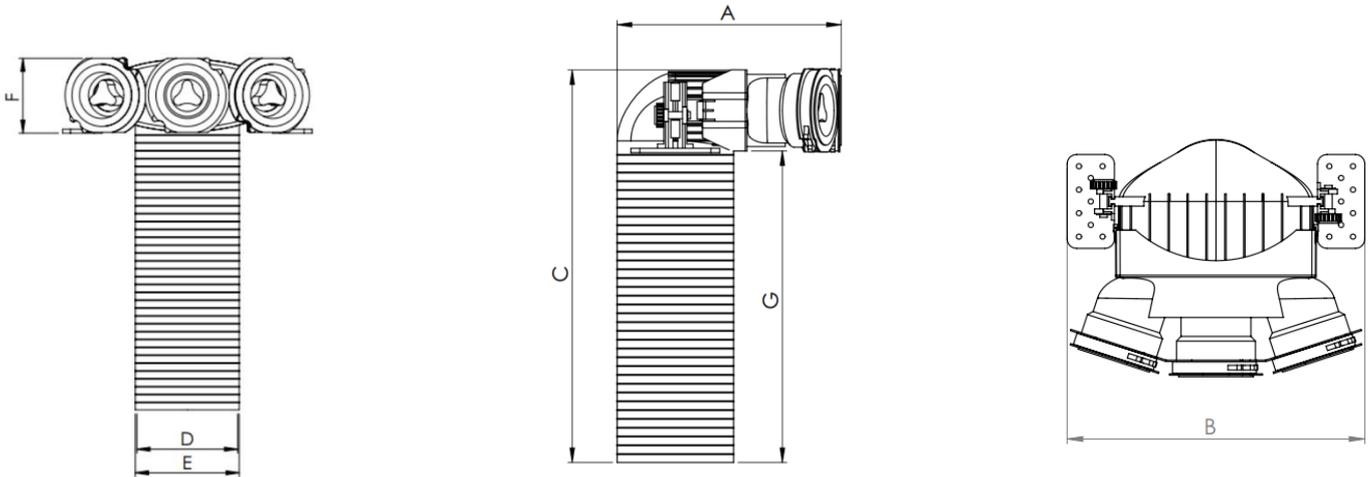
- ⊗ Installation on the main (structural) ceiling, or inside the plenum space if a dropped ceiling is used.
- ⊗ Adjustable fixing wings.
- ⊗ Ribbed surface to ease cutting the diffuser pipe.

PLENUM BOX 3X75 HEATPEX ARIA



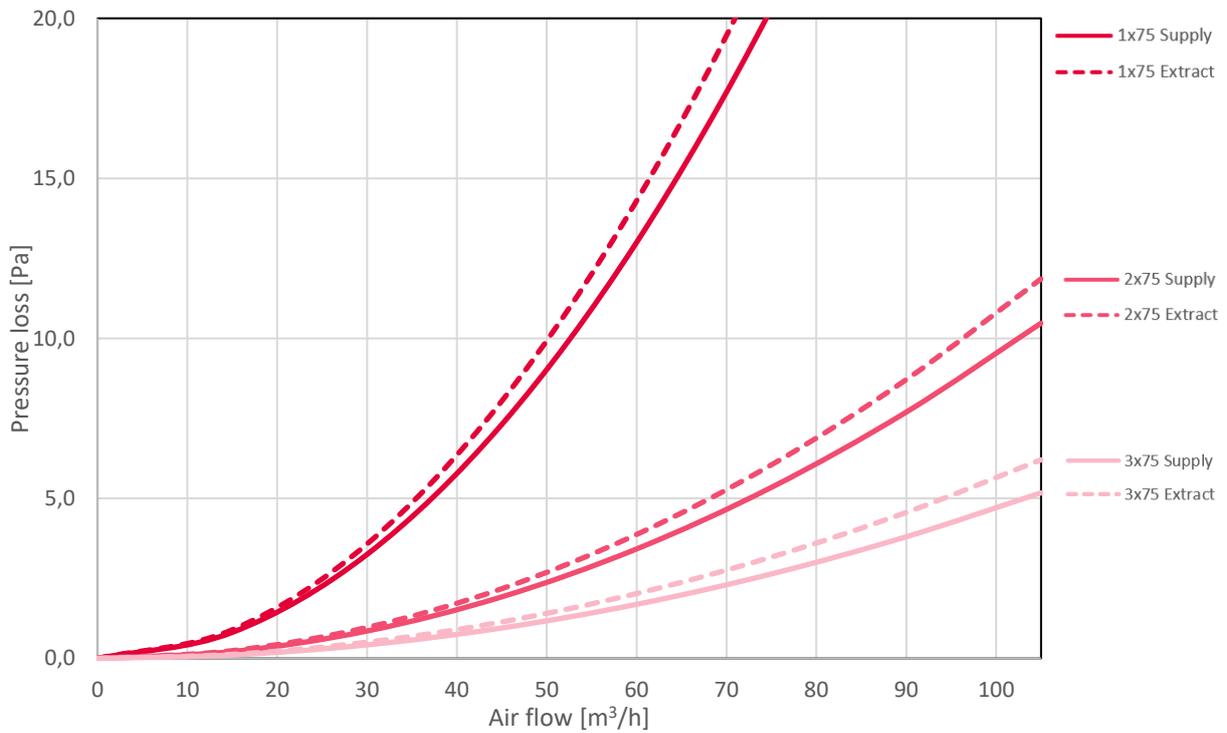


| DIMENSIONS | | | | | | | MATERIAL | MASS | CATALOGUE NO. |
|-------------|------------|-------------|----------|---------|-----------------------|-------------------------|----------|----------|---------------|
| Length A | Width B | Height C | ID D | OD E | Socket height F | 125 pipe height G | PP | 0,754 kg | 523 375 001 |
| 248 mm | 315 mm | 447 mm | 124,1 mm | 128 mm | 95 mm | 349 mm | | | |



PLENUM BOX 3X75 HEATPEX ARIA

Pressue Loss - Plenum box 3x75 HEATPEX ARIA





The main central connector is used to connect the main supply air pipe or the main exhaust air pipe to the distribution box. The unused part which diameter is smaller than that of the pipe should be cut off.

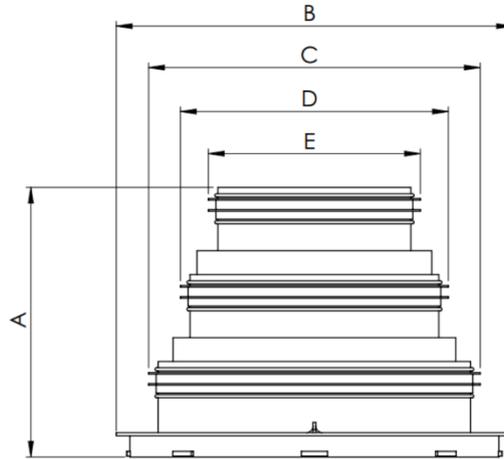
- ⊗ Installed in the main slot of the distribution box
- ⊗ Designed for connection of 125 mm, 160 mm and 200 mm pipes
- ⊗ Standard ventilation diameters allows to connect typical round ducts and fittings
- ⊗

MAIN CENTRAL CONNECTOR HEATPEX ARIA





| DIMENSIONS | | | | | MATERIAL | MASS | CATALOGUE NO. |
|-------------|---------------|---------------------------|---------------------------|---------------------------|----------|-------|---------------|
| Height A | Diameter B | Stub end diameter C | Stub end diameter D | Stub end diameter E | PP | 0,287 | 524 109 001 |
| 170,4 mm | 249 mm | 200 | 160 | 125 | | | |



MAIN CENTRAL CONNECTOR HEATPEX ARIA

*Pressure loss – check data for **Distribution box 10x75** HEATPEX ARIA





The side connector is used to connect the main supply air or exhaust air pipe to either side of the distribution box. It is designed to be fixed into the oval slot on either side of the distribution box replacing one 3x75 module. If a 125 mm diameter pipe is used, the unused part should be cut off.

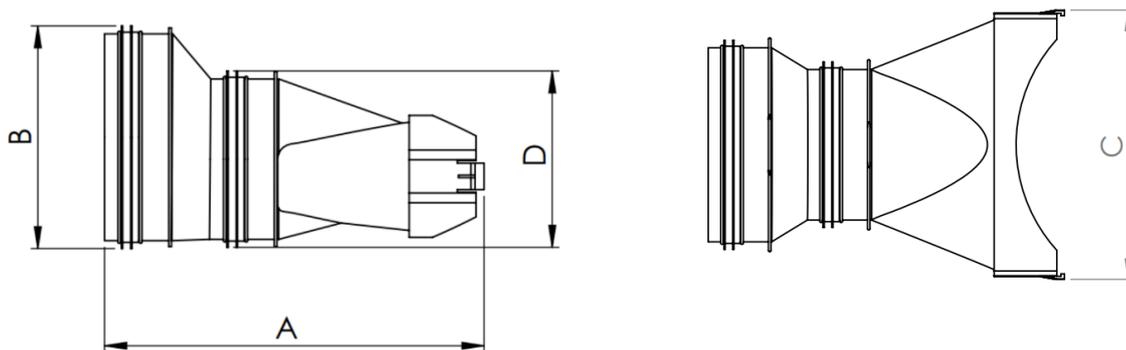
- ⦿ To be fixed into the oval slot on either side of the distribution box, in place of a 3x75 module
- ⦿ Designed for connection of 125 mm and 160 mm pipes
- ⦿ Standard ventilation diameters allows to connect typical round ducts and fittings

MAIN SIDE CONNECTOR 125/160 HEATPEX ARIA





| DIMENSIONS | | | | MATERIAL | MASS | CATALOGUE NO. |
|-------------|------------|---------------------------|---------------------------|----------|----------|---------------|
| Length A | Width C | Stub end diameter B | Stub end diameter D | PP | 0,259 kg | 524 110 001 |
| 284 mm | 216 mm | 160 mm | 125 mm | | | |



MAIN SIDE CONNECTOR 125/160 HEATPEX ARIA

*Pressure loss – check data for **Distribution Box 10X75** HEATPEX ARIA





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

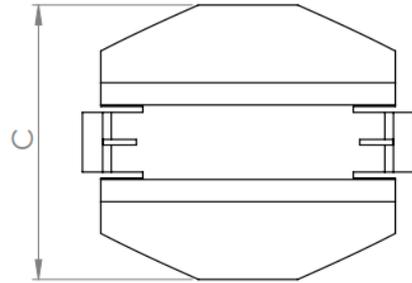
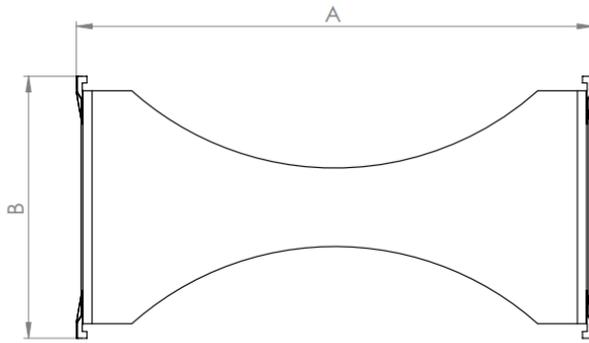
- ⊗ To be fixed into the oval slot of the distribution box
- ⊗ Connecting additional distribution box increases the number of available sockets by four

HORIZONTAL COUPLING HEATPEX ARIA





| DIMENSIONS | | | MATERIAL | MASS | CATALOGUE NO. |
|-------------|------------|-------------|----------|------|---------------|
| Length A | Width B | Height C | PP | 0,65 | 524 111 001 |
| 216 mm | 110 mm | 92 mm | | | |



HORIZONTAL COUPLING HEATPEX ARIA





Vertical coupling is used to connect two or more distribution boxes vertically.



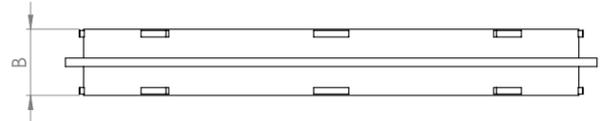
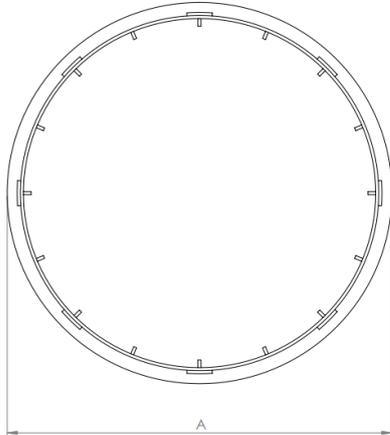
- ⊗ To be fixed into the main slot of the distribution box
- ⊗ Connecting another distribution box vertically increases the number of available socket by ten
- ⊗ Indentation for fingers for easy installation of the connector in the distribution box

VERTICAL COUPLING HEATPEX ARIA



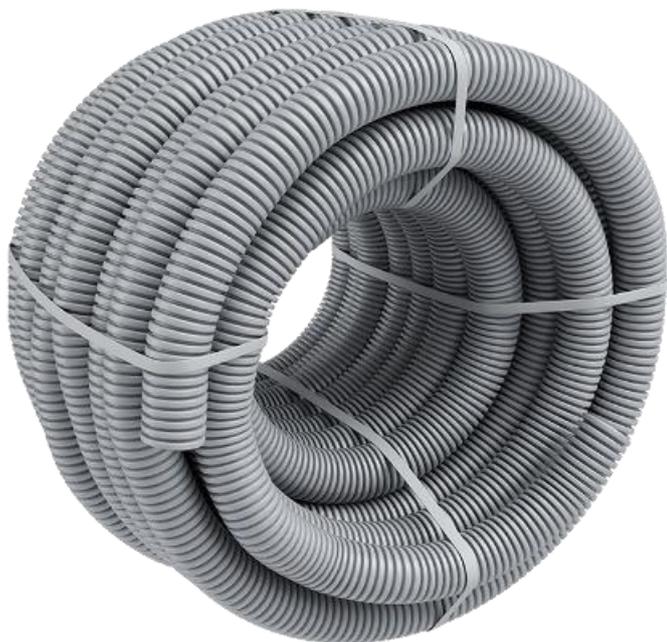


| DIMENSIONS | | MATERIAL | MASS | CATALOGUE NO. |
|---------------|-------------|----------|-------|---------------|
| Diameter A | Height B | PP | 0,057 | 524 112 001 |
| 249 mm | 110 mm | | | |



VERTICAL COUPLING HEATPEX ARIA





A flexible 75 mm pipe made of high-density polyethylene PE-HD.

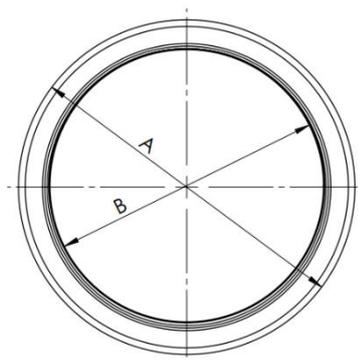
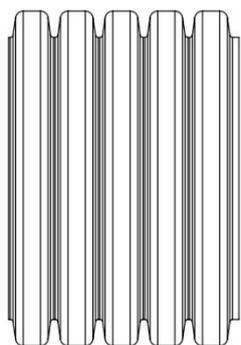
- ⊗ Antimicrobial inner Surface, with 99% reduction of bacteria.
- ⊗ Very high flexibility resulting in easy installation, with no pipe elbows needed.
- ⊗ Smooth inner surface reduces flow resistance to a minimum and makes cleaning easier.
- ⊗ Very good soundproofing thanks to double wall structure.

PIPE 75 HEATPEX ARIA



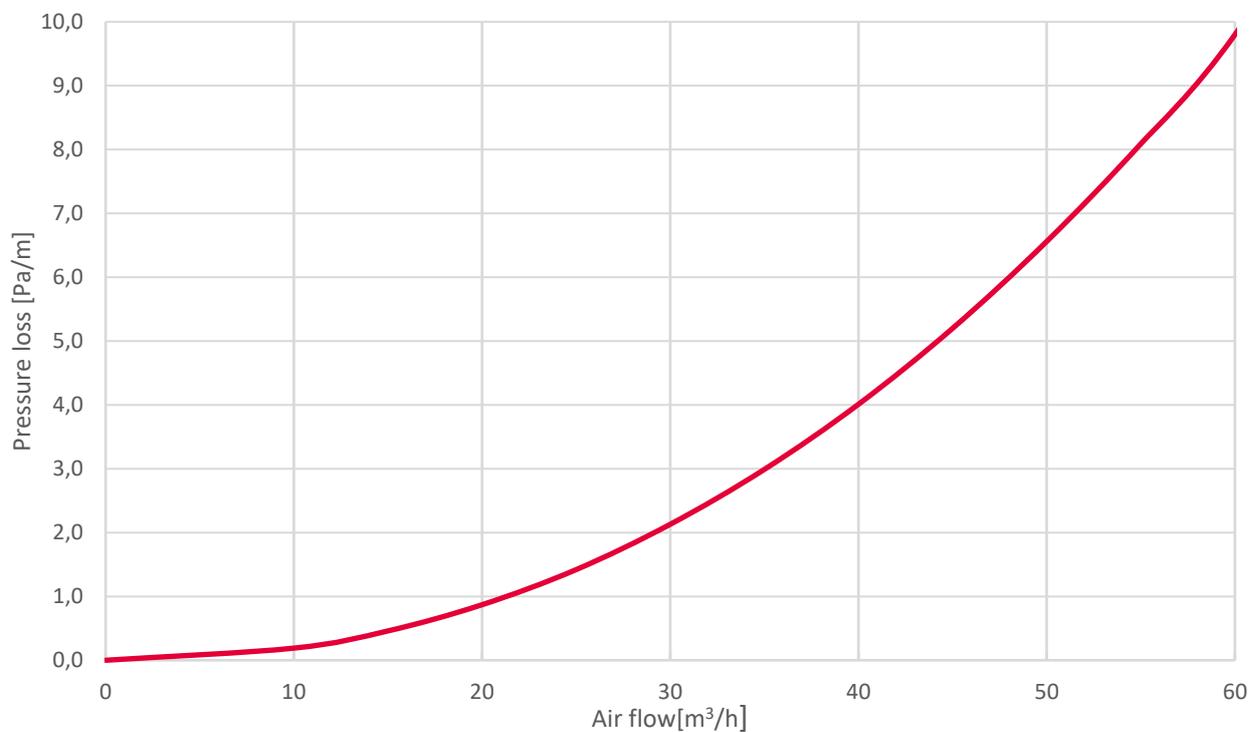


| DIMENSIONS | | | MATERIAL | MASS | CATALOGUE NO. |
|---------------------|---------------------|-------------|----------|------------|---------------|
| Outer diameter A | Inner diameter B | Coil length | PE-HD | 0,273 kg/m | 520 075 050 |
| 76 mm | 62,5 mm | 50 m | | | |



PIPE 75 HEATPEX ARIA

Pressure loss - Pipe 75 HEATPEX ARIA



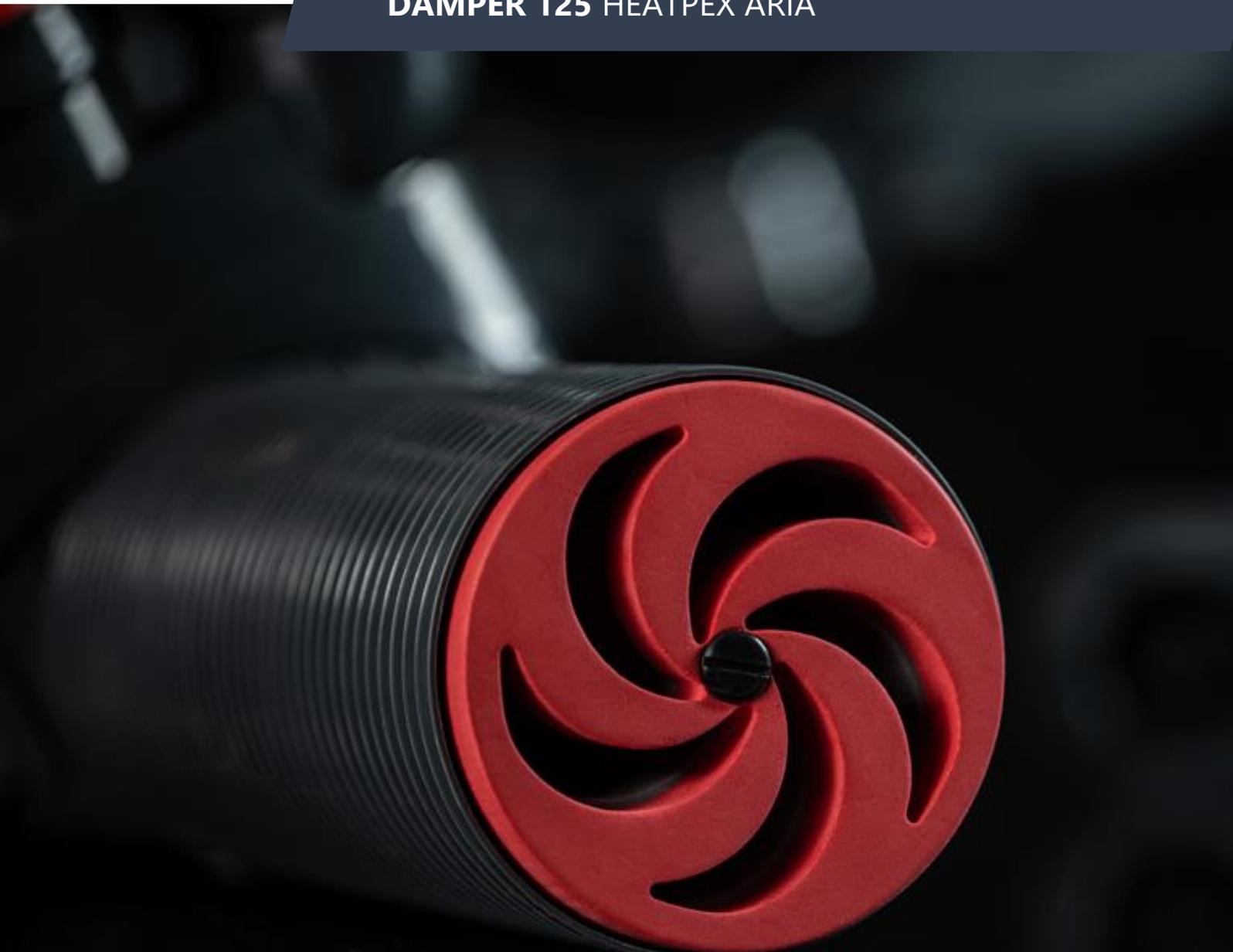


Damper made of EVA foam . It helps to adjust the ventilation system and effectively reduces noise.



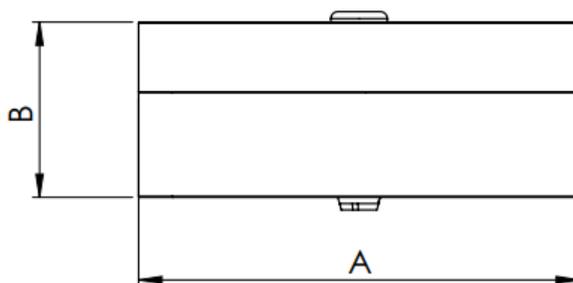
- ⊗ Effective noise reduction.
- ⊗ Easy installation inside the plenum box.
- ⊗ Stepless adjustment of the air flow rate by turning the damper disc.

DAMPER 125 HEATPEX ARIA





| DIMENSIONS | | MATERIAL | MASS | CATALOGUE NO. |
|---------------|-------------|----------|------|---------------|
| Diameter A | Height B | EVA | 0,05 | 520 024 001 |
| 128 mm | 50 mm | | | |



DAMPER 125 HEATPEX ARIA

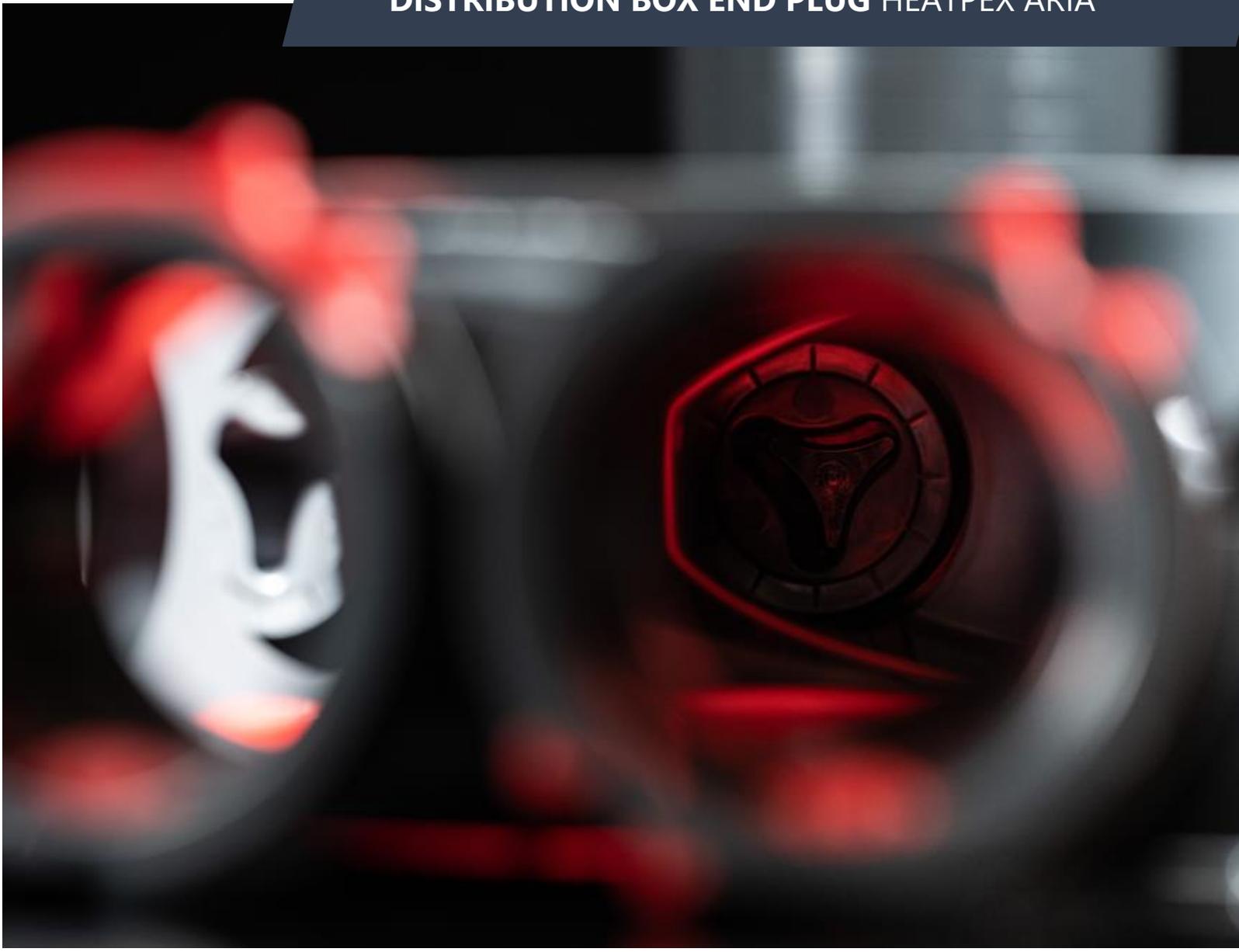




End plug for distribution box allowing to install the box next to the wall. Useful when there is limited space available and the distribution box has to be placed directly by the wall. Installed in place of one 3x75 module.

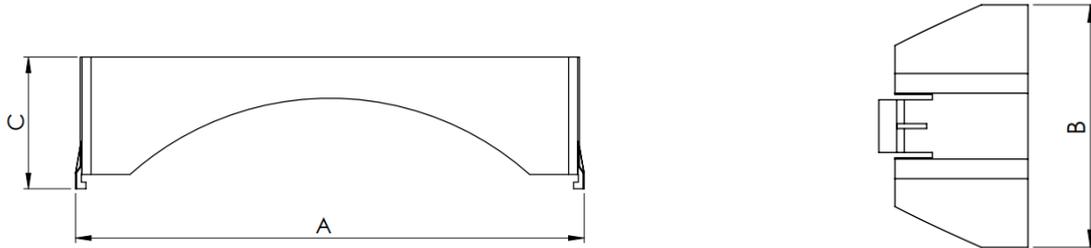
- ⊗ Allows to install distribution box next to the wall
- ⊗ Installed in place of a 3x75 module

DISTRIBUTION BOX END PLUG HEATPEX ARIA





| DIMENSIONS | | | MATERIAL | CATALOGUE NO. |
|------------|-------------|------------|----------|---------------|
| Width A | Height B | Depth C | PP | 520 011 001 |
| 216 mm | 92 mm | 55 mm | | |



DISTRIBUTION BOX END PLUG HEATPEX ARIA

