



DUCTING SPECIFICATION GUIDE FOR EVERY RESIDENTIAL APPLICATION



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PROUD TO BUILD BRITISH

We’ve been pioneers in new air technology since 1966. Our heritage is in the design and manufacture of fans and ventilation systems. *We put our energy into efficient ventilation so you don’t waste yours.*



Pioneering

We lead the way in product innovation with a stream of ground-breaking products over decades.



Agile

We’re one of the UK’s leading manufacturers, covering both residential and commercial air quality. We offer innovative advice and provide flexible solutions.



Attentive

We’re expert listeners, rising to any challenge and going the extra mile for our customers. We add value by solving problems. We sell solutions, not fans.



Trusted

We have a reputation for our build quality. We establish long term relationships and are always transparent with our test data.



Expert

Our team is made up of over 600 people, 50 of which have over 25 years’ experience. We have the skills and knowledge to help find the best solution for our customers.



Personal

We work closely with our customers and can provide bespoke solutions to meet their specific project needs. Many of our product ranges were developed this way.

“Our expertise, experience and innovation is what makes us stand out from the rest of the market.”

Wayne Glover, Managing Director, Nuaire.



For help with selecting a unit, speak to us on **02920 858200** or email: enquiries@nuaire.co.uk

ABOUT NUAIRE DUCTING & ANCILLARIES

Nuaire’s range of ducting and ancillaries are designed to speed up installation, ensure optimum system performance and offer greater controllability.

We offer a comprehensive range of ducting systems and grilles for all ducted applications. Our range includes PVC rigid ducting of all types and sizes, our award-winning Nuaire Thermal Ductmaster ducting for unheated spaces, lockable valves, NOx filters and fire wraps to name a few.

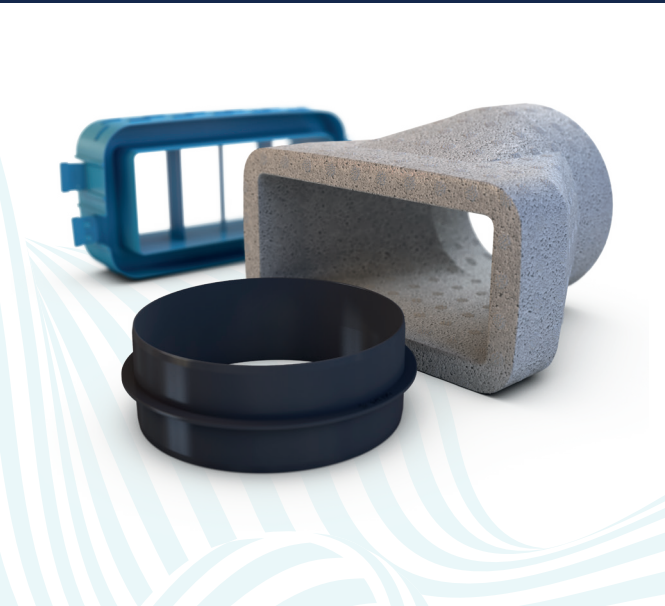
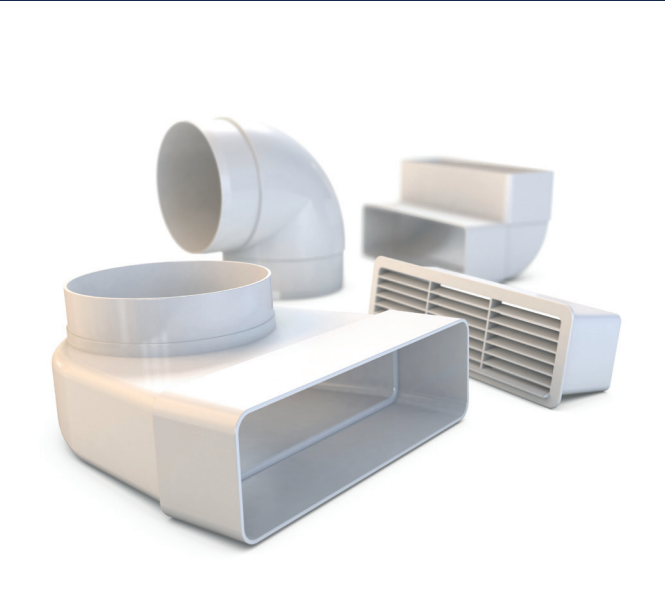
We have the most innovative ducting solutions for your needs.



FLEXIBLE FITTING



SIMPLE TO INSTALL



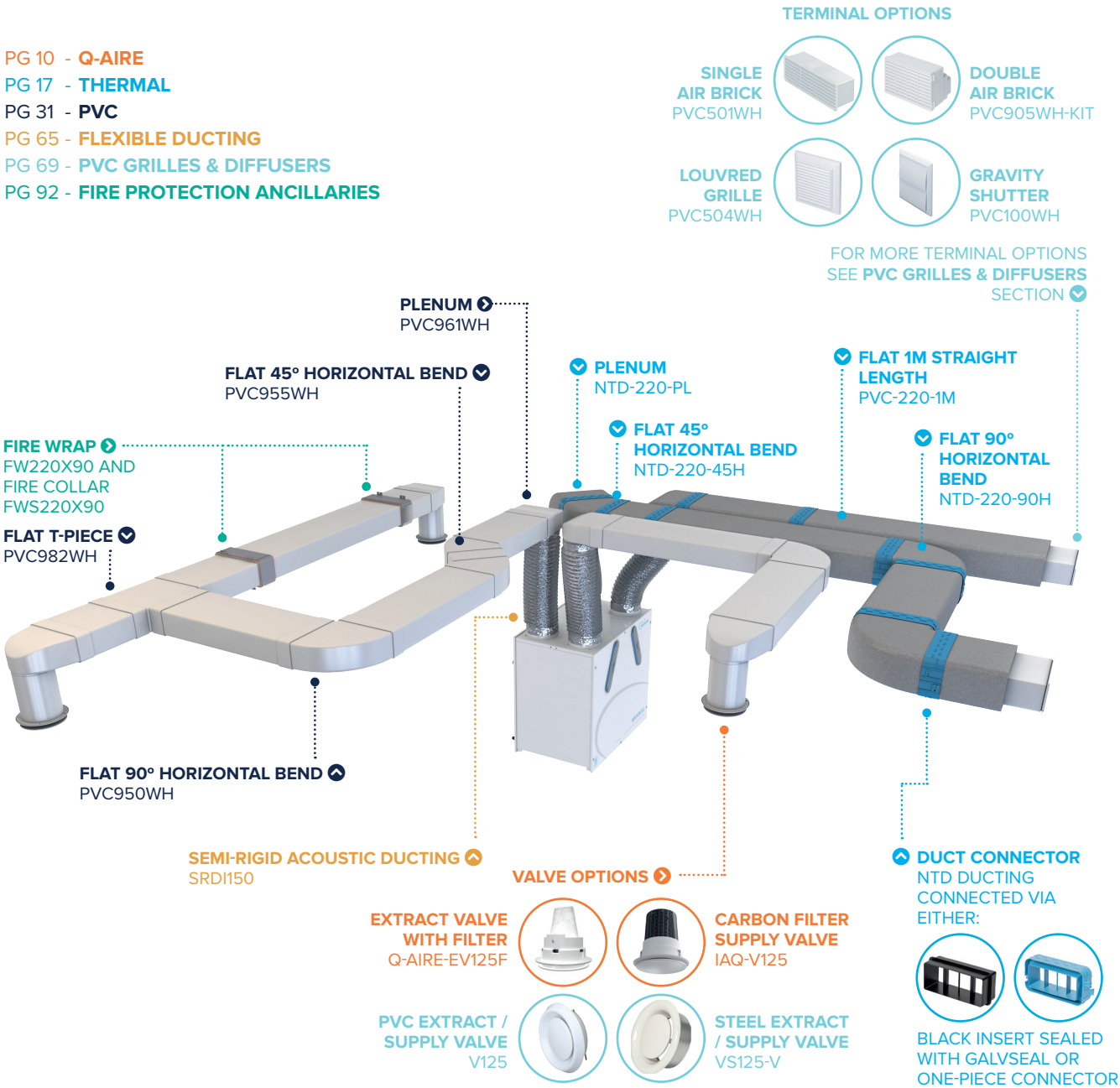


TYPICAL NUAIRE DUCTING INSTALLATION

Below is a typical MVHR installation using a mixture of Nuaire PVC and Thermal ducting. This design uses 220mm x 90mm ducting, however, a variety of ducting sizes are available for complete project flexibility.

TYPICAL NUAIRE DUCTING INSTALLATION

- PG 10 - Q-AIRE
- PG 17 - THERMAL
- PG 31 - PVC
- PG 65 - FLEXIBLE DUCTING
- PG 69 - PVC GRILLES & DIFFUSERS
- PG 92 - FIRE PROTECTION ANCILLARIES



DUCTING INSTALLATION ESSENTIALS

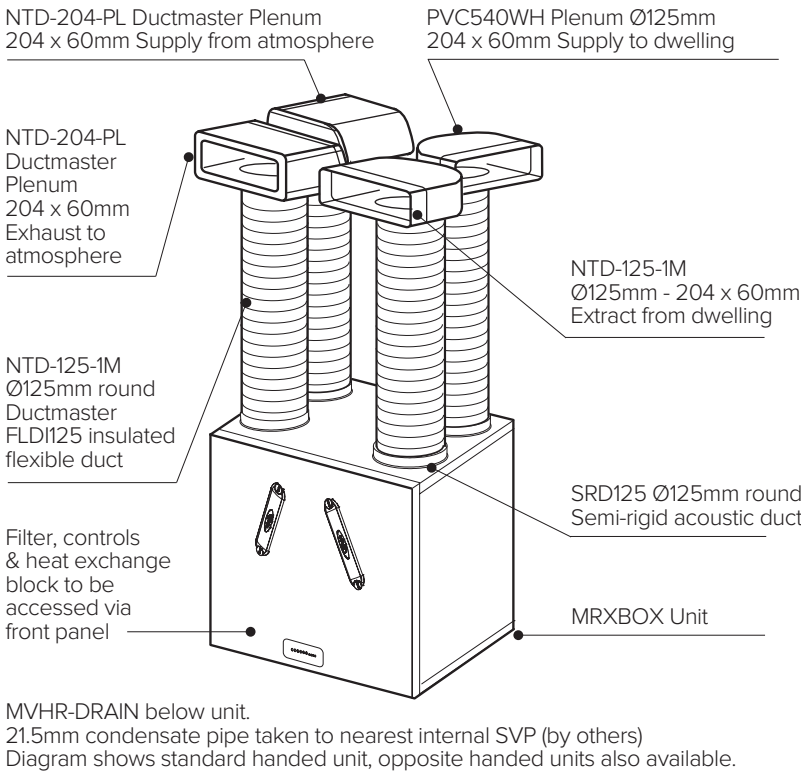
ON SITE HELP WITH SYSTEM INSTALLATIONS

MVHR CONNECTION DETAIL

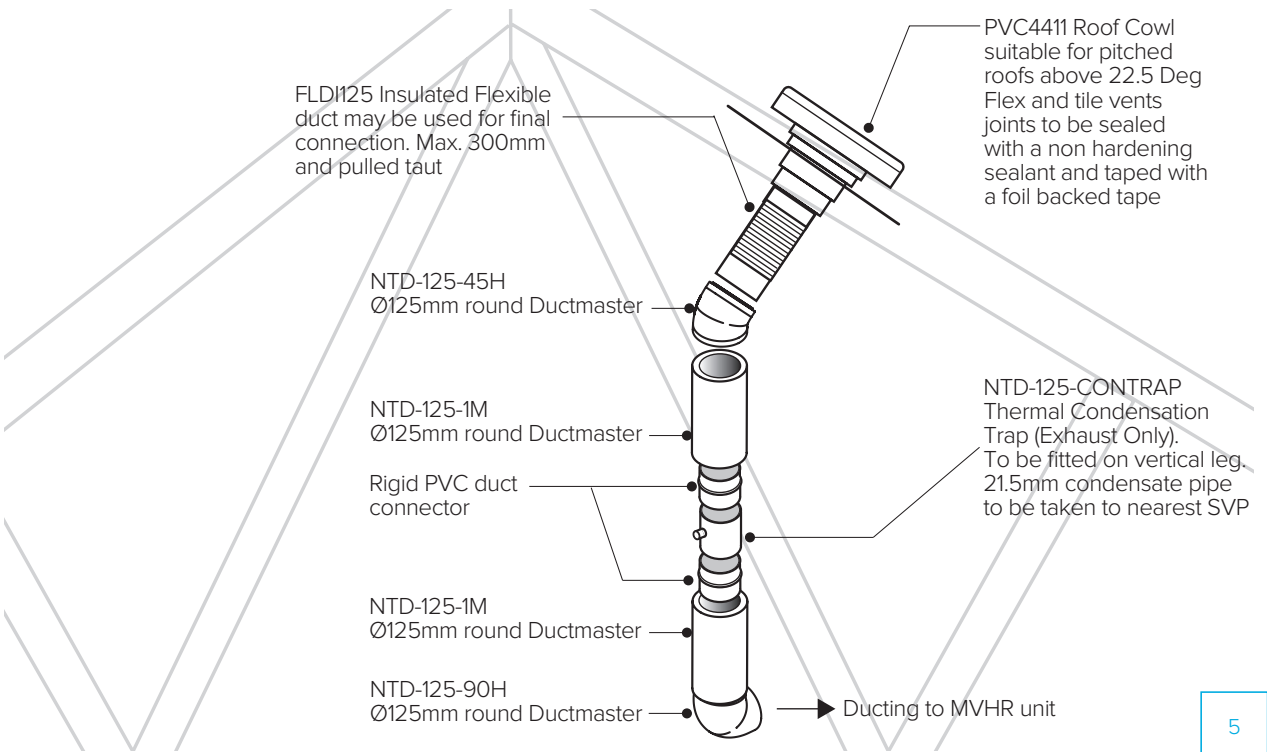
All PVC joints to be sealed with a non-hardening sealant and foil-backed tape.

Sealant is required if using black inserts only or Nuaire thermal ducting.

Flexible ducting can be used for final connections or to overcome site obstructions, maximum length of 300mm per system leg.



ROOF COWL INSTALLATION DETAIL





DUCTING INSTALLATION ESSENTIALS
ON SITE HELP WITH SYSTEM INSTALLATIONS

DUCTING INSTALLATION ESSENTIALS
ON SITE HELP WITH SYSTEM INSTALLATIONS

AIR BRICK CONNECTION DETAIL

Typical cavity wall

NTD-204-1M flat Ductmaster 204 x 60mm

775776 204 x 60mm flat duct connector

PVC505NS suitable airbrick

For the use of all PVC terminations please refer to Approved document B Volume 1 2019 edition in the UK and Building Standards Technical Handbook 2019 in Scotland or alternatively seek guidance from your local authority building control officer/fire specialist.

204 x 60mm flat duct

204 X 60MM DUCT SET DETAIL

150

65

196

D3-2000 204 x 60mm flat duct

PVC550WH 204 x 60mm 90° bend

D3-2000 204 x 60mm flat duct

65

133

119

37

7

PVC575WH 204 x 60mm 45° bend

D3-2000 204 x 60mm flat duct

204 X 60MM FLAT THERMAL DUCT WITH FIRE DAMPER DETAIL

All joints connecting to fire dampers / fire rated air valves are to be sealed with a non-hardening, non-solvent based, intumescent mastic and foil backed tape.

Typical internal partition wall

PVC520WH Internal flat duct connector 204 x 60mm. Min 100mm either side of fire damper

NTD-204-1M flat Ductmaster 204 x 60mm

NTD-204-1M flat Ductmaster 204 x 60mm

FW204 x 60T

204 x 60mm flat rigid PVC D3-2000 within flat Ductmaster Thermal Ducting NTD-204-1M

Ducting to butt up against fire collar

204 X 60MM ATTENUATOR IN THERMAL DUCT

PVC505NS suitable airbrick

PVC505NS attenuator to be placed inside of 1M length of Nuair 204 x 60mm flat thermal duct NTD-204-1M

NTD-204-1M flat Ductmaster 204 x 60mm

PVC520WH Internal duct flat connector 204 x 60mm

PVC520WH Internal duct flat connector 204 x 60mm

Note: Internal black connectors (041356) to be removed from thermal ducting prior to inserting attenuator

Ø125MM ROUND THERMAL DUCT WITH FIRE DAMPER DETAIL

Typical internal partition wall

PVC1200-5WH round Ø125mm rigid PVC within Ductmaster Thermal Ducting. Min 100mm either side of fire damper

NTD-125-1M Ø125mm round Ductmaster

NTD-125-1M round Ø125mm Ductmaster

FW125 x 60T

Ducting to butt up against fire collar

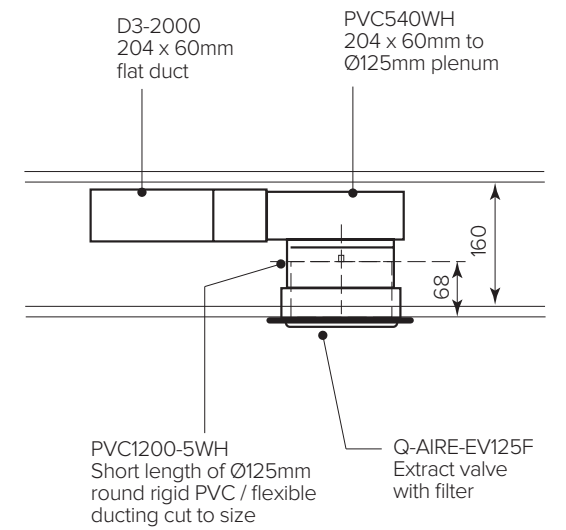
Fire wrap on Fire collar PVC588T



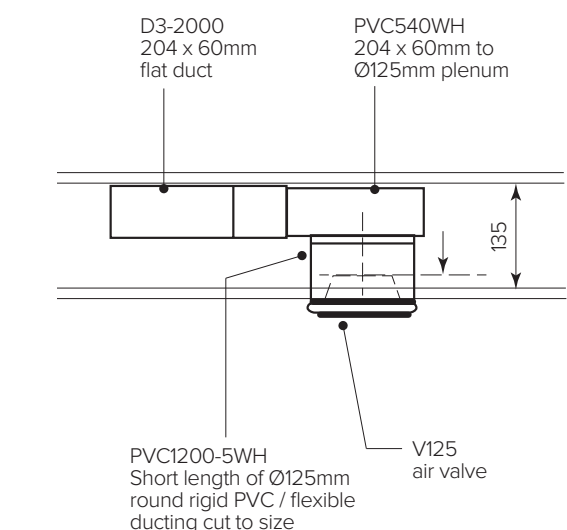
DUCTING INSTALLATION ESSENTIALS

ON SITE HELP WITH SYSTEM INSTALLATIONS

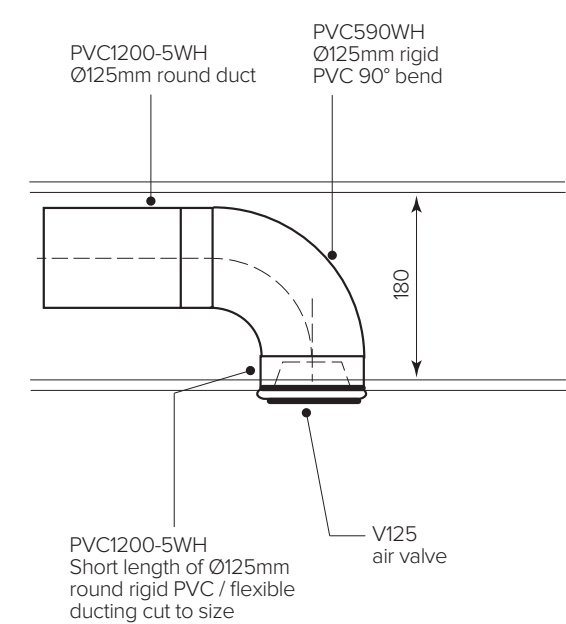
AIR VALVE DETAIL 204 X 60MM TO Q-AIRE VALVE



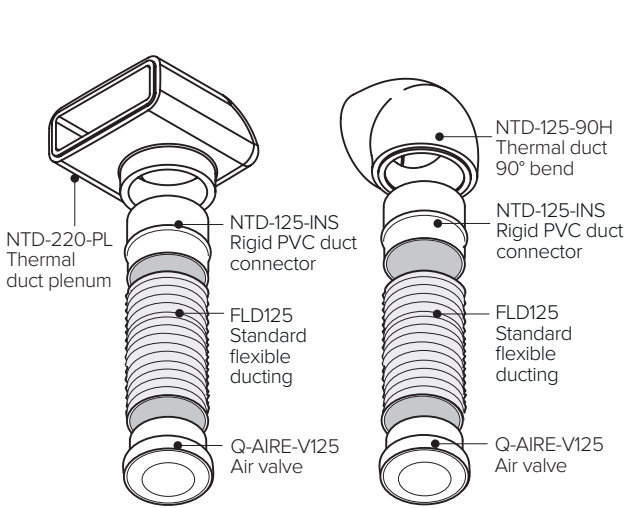
AIR VALVE DETAIL 204 X 60MM TO STEEL VALVE



AIR VALVE DETAIL Ø125MM TO STEEL VALVE



THERMAL DUCT TO AIR VALVE CONNECTION



FIRST FIX

FIRST FIX PLENUM BOX



FIRST FIX PLENUM BOX

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|-------------|--------------------------------------------------|---------------------------------------------------------------|
| MRXBOX-FF5 | Rect spigots: 204 x 60mm Circ spigots: Ø150mm | First fix plenum box for use with MRXBOX(AB)-ECO5 sized units |
| MRXBOX-FF4 | Rect spigots: 220 x 90mm Circ spigots: Ø200mm | First fix plenum box for use with MRXBOX(AB)-ECO4 sized units |
| MRXBOX-FF3 | Rect spigots: 204 x 60mm Circ spigots: Ø150mm | First fix plenum box for use with MRXBOX(AB)-ECO3 sized units |
| MRXBOX-FF2 | Rect spigots: 204 x 60mm Circ spigots: Ø125mm | First fix plenum box for use with MRXBOX(AB)-ECO2 sized units |

FIRST FIX SILENCER

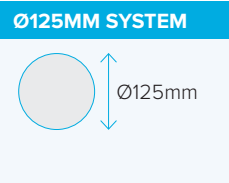
| PART NUMBER | DUCT SIZE | DESCRIPTION |
|-------------|-----------|-------------------------------------------------------|
| MRXBOX-SIL5 | Ø150mm | Silencer box for use with MRXBOX(AB)-ECO5 sized units |
| MRXBOX-SIL4 | Ø200mm | Silencer box for use with MRXBOX(AB)-ECO4 sized units |
| MRXBOX-SIL3 | Ø150mm | Silencer box for use with MRXBOX(AB)-ECO3 sized units |
| MRXBOX-SIL2 | Ø125mm | Silencer box for use with MRXBOX(AB)-ECO2 sized units |

Q-AIRE VALVES

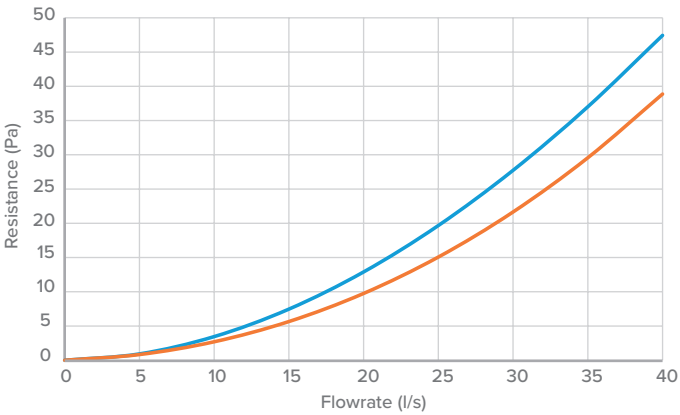
VALVE WITHOUT FILTER

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|-------------|---------------|-----------------------------------------------------|
| Q-AIRE-V125 | Ø125mm Spigot | Extract/Supply Valve (White) without Airflow Filter |

| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | |
|-------------|---------------|---------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| Q-AIRE-V125 | Ø125mm Spigot | Supply | 0.9 | 3.5 | 7.5 | 12.9 | 19.7 | 27.7 | 37.0 | 47.4 |
| | | Extract | 0.8 | 2.7 | 5.7 | 9.8 | 15.1 | 21.7 | 29.6 | 38.9 |



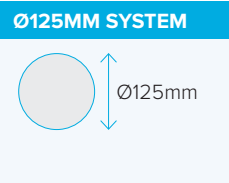
Supply
Extract



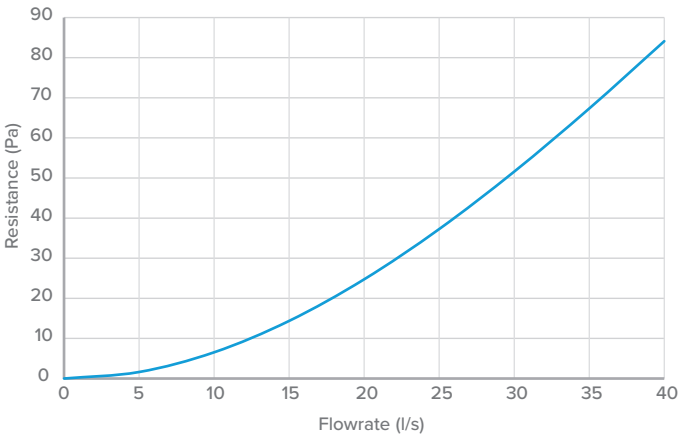
VALVE WITH FILTER

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|---------------|---------------|-------------------------------------------|
| Q-AIRE-EV125F | Ø125mm Spigot | Extract Valve (White) with Airflow Filter |

| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | |
|---------------|---------------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| Q-AIRE-EV125F | Ø125mm Spigot | Supply | 1.6 | 6.5 | 14.4 | 24.7 | 37.3 | 51.6 | 67.3 | 84.1 |



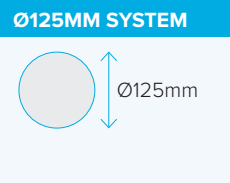
Ø125mm Spigot



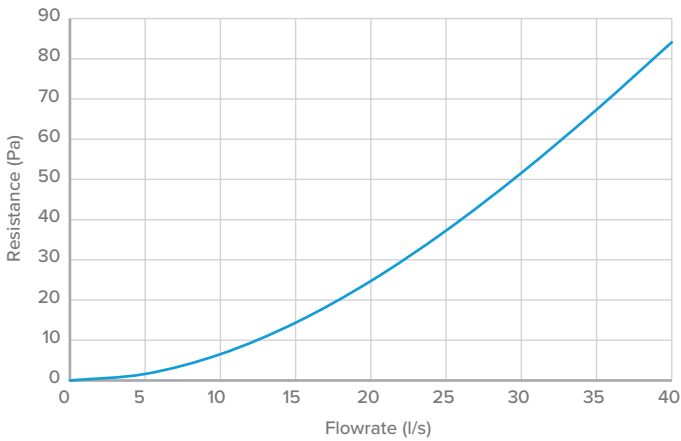
VALVE WITH FILTER AND HUMIDISTAT

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|----------------|---------------|-------------------------------------------------------------------|
| Q-AIRE-EV125FH | Ø125mm Spigot | Extract Valve (White) with Airflow Filter and Integral Humidistat |

| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | |
|----------------|---------------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| Q-AIRE-EV125FH | Ø125mm Spigot | Supply | 1.6 | 6.5 | 14.4 | 24.7 | 37.3 | 51.6 | 67.3 | 84.1 |



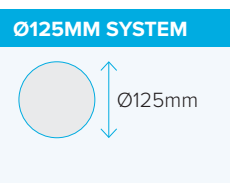
Ø125mm Spigot



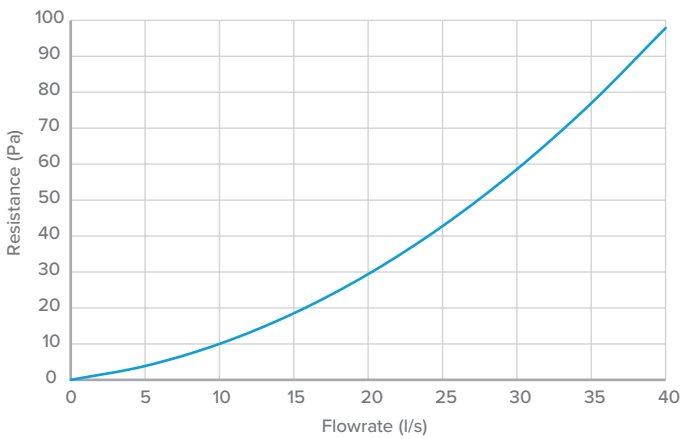
SUPPLY AIR CARBON FILTER

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|-------------|---------------|----------------------------|
| IAQ-V125 | Ø125mm Spigot | Carbon Filter Supply Valve |

| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | |
|-------------|---------------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| IAQ-V125 | Ø125mm Spigot | Supply | 3.9 | 10.0 | 18.5 | 29.4 | 42.8 | 58.6 | 76.9 | 97.9 |



Ø125mm Spigot



CARBON FILTER PLENUM BOX

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|-------------|--------------|---------------------------------------|
| IAQ-PLENUM | 204mm x 60mm | Plenum box for IAQ-V125 Carbon Filter |

204MM X 60MM SYSTEM

204mm

60mm



Q-AIRE VALVES
CONSULTANT SPECIFICATION

OPERATION

The supply and extract valves are used to control and distribute airflow entering or being removed from a room. They shall be capable of being used on their own, with a filter or with a filter and integral humidistat control.

Q-AIRE UNIT SPECIFICATION

Each valve shall be low profile, protruding from the ceiling by no more than 18mm when closed.

Each valve will be suitable for 125mm diameter ducting.

Each valve shall be made from flame retardant ABS plastic.

There shall be a means of adjusting the opening aperture for commissioning purpose with a decorative panel supplied to hide the commissioning screw.

The flow deflector shall be spring loaded to prevent vibration.

It shall be possible to remove/replace the bezel disc assembly within the bezel for filter access without altering the commissioned position of the valve or deflector.

Filter shall be easily removed and be of G2 grade.

The assembly shall be supplied with a deflector plate to enable air to be directed away from obstacles or to prevent air being blown in a direction which would create nuisance draughts.

An optional humidity PCB for connection to ventilation unit shall be available with set point accessible on bezel disc removal.

Humidistat PCB shall be Nuaire Ecosmart compatible.

The valve shall be offered with a 5 year warranty.

The manufacturer’s recommendations should be observed at all times.

The valve shall be manufactured by Nuaire.

OPTIONS

- Three options shall be available:
- Q-AIRE-V-125 Supply & Extract Valve
 - Q-AIRE-EV125F Extract Valve with filter
 - Q-AIRE-EV125FH Extract Valve with Humidistat and Filter

IAQ UNIT SPECIFICATION

The carbon filtration for the removal of Nitrogen Dioxide shall be achieved by use of the Q-Aire carbon filter supply air valve IAQ-V125. This air valve is to be positioned in each of the habitable rooms and connected to a plenum box within the ceiling. Each air valve shall be adjustable for commissioning, with a lockable feature to ensure the commissioned airflow is always achieved.

The activated carbon shall be contained within a single cartridge that sits within the supply air valve with minimal resistance to the airflow.The activated carbon filter cartridge shall be up to 91% efficient in the removal of Nitrogen Dioxide (NO2). The filter cartridge shall be easily removable by a simple bayonet connection on the air valve assembly, ensuring a quick release and change of the filter when required. Following the replacement of the filter cartridge the air valve will not require any additional adjustment to maintain the previous designed and commissioned air flow rates.

The IAQ-V125 efficiency shall be confirmed and independently verified by a BRE (Building Research Establishment) test method and the information shall be provided by the filter manufacturer for approval.

- The valve shall be installed within a vacuum formed plenum box, suitable for 204 x 60mm ducting.
- The IAQ-V125 shall be installed in conjunction with the manufacturer’s installation and maintenance guidelines.
- The valve shall be offered with a 2 year warranty; 1 year parts and labour, remaining years parts only.

Minimum life expectancy of IAQ-VALVE filters are dependent on airflow rates - 2 years up to 15l/s.

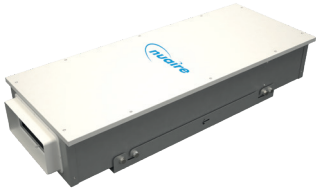
The activated carbon shall have at least the following minimum qualities:

| BULK DENSITY | KG/M³ | 480 (+/-5%) |
|-----------------------------------------|-------|-------------|
| Nominal Diameter of Cylindrical Pellets | Mm | 4.0 |
| Nominal Length of Cylindrical Pellets | Mm | 8.0 |
| Moisture Content (Approx.) | % | 3 |
| Crush Strength (Minimum) | Kg | 2 |
| Removal Capacity for Cl₂ of Own Weight | % | 10 |
| Minimum Design Efficiency | % | 99.5 |
| Typical Air Velocity | M/S | 0.3 – 2.5 |
| Suitable for Relative Air Humidities | % | 10 – 95 |
| Temperature Range | °C | -20 – +51 |

Q-AIRE
IAQBOX

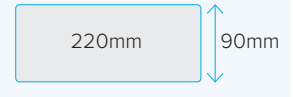
IN-LINE CARBON FILTER

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|-------------|--------------|------------------------------|
| IAQBOX-S | 220mm x 90mm | In-Line Single Carbon Filter |

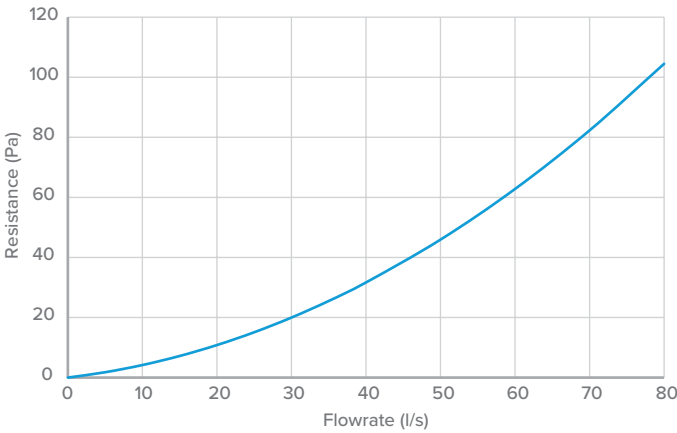


| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| IAQBOX-S | 220mm x 90mm | 1.8 | 4.2 | 7.2 | 10.8 | 15.1 | 20.0 | 20.5 | 31.7 | 45.9 | 62.8 | 82.3 | 104.5 |

220MM X 90MM SYSTEM



220x90mm



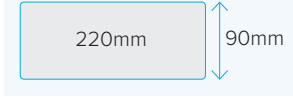
IN-LINE SINGLE CARBON FILTER WITH PM2.5

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|----------------|--------------|------------------------------------------------|
| IAQBOX-S-PM2.5 | 220mm x 90mm | In-Line Single Carbon Filter with Pm2.5 Filter |

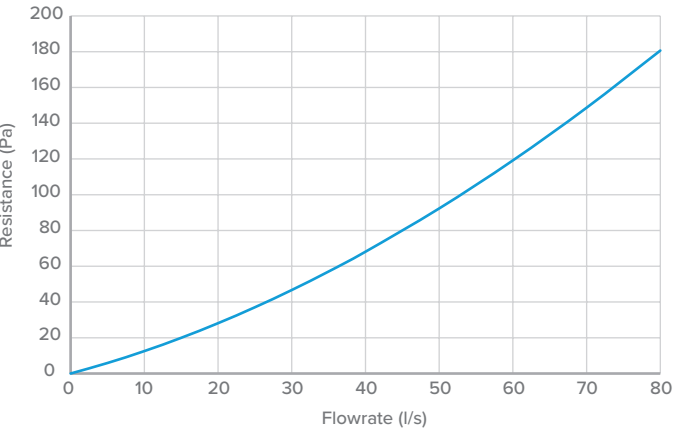


| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|----------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| IAQBOX-S-PM2.5 | 220mm x 90mm | 5.9 | 12.5 | 20.0 | 28.1 | 37.1 | 46.7 | 57.1 | 68.1 | 92.3 | 119.2 | 148.7 | 180.6 |

220MM X 90MM SYSTEM



220x90mm



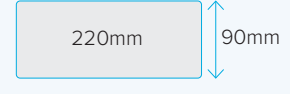
IN-LINE CARBON FILTER

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|-------------|--------------|------------------------------|
| IAQBOX-D | 220mm x 90mm | In-Line Double Carbon Filter |

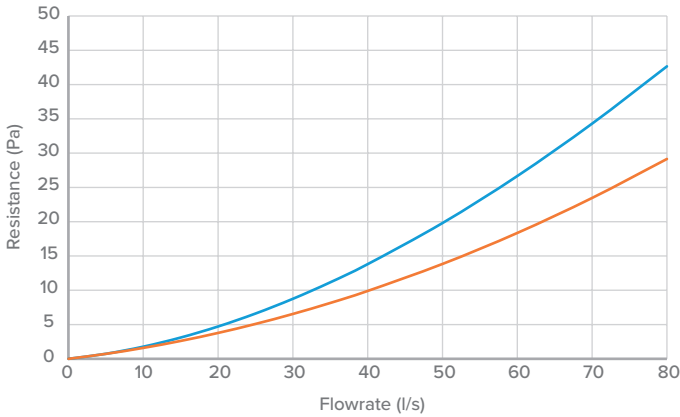


| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| IAQBOX-D | 220mm x 90mm | 1 Spigot | 0.7 | 1.8 | 3.1 | 4.7 | 6.6 | 8.8 | 11.2 | 13.8 | 19.8 | 26.7 | 34.3 | 42.7 |
| | | 2 Spigots | 0.7 | 1.6 | 2.6 | 3.8 | 5.1 | 6.5 | 8.1 | 9.9 | 13.8 | 18.4 | 23.5 | 29.1 |

220MM X 90MM SYSTEM



- Using one outlet spigot
- Using two outlet spigots



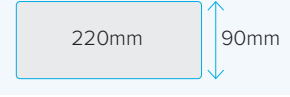
IN-LINE DOUBLE CARBON FILTER WITH PM2.5

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|----------------|--------------|------------------------------------------------|
| IAQBOX-D-PM2.5 | 220mm x 90mm | In-Line Double Carbon Filter with Pm2.5 Filter |

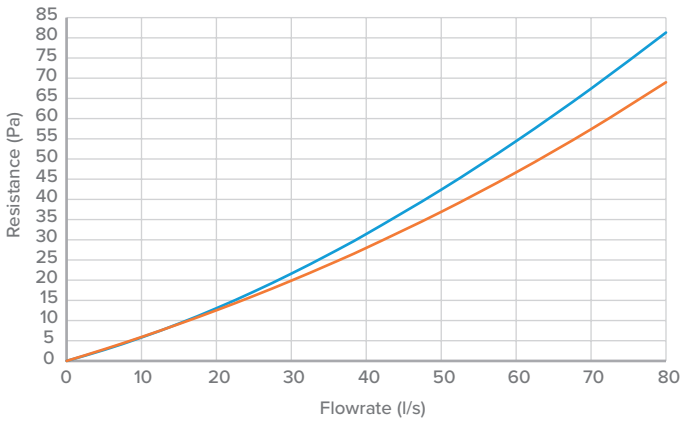


| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|----------------|--------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| IAQBOX-D-PM2.5 | 220mm x 90mm | 1 Spigot | 2.7 | 5.8 | 9.3 | 13.1 | 17.2 | 21.6 | 26.4 | 31.4 | 42.4 | 54.4 | 67.4 | 81.3 |
| | | 2 Spigots | 2.9 | 5.9 | 9.2 | 12.5 | 16.1 | 19.9 | 23.8 | 28.0 | 36.9 | 46.7 | 57.4 | 69.0 |

220MM X 90MM SYSTEM



- Using one outlet spigot
- Using two outlet spigots



Q-AIRE IAQBOX
CONSULTANT SPECIFICATION



UNIT SPECIFICATION

The IAQBOX-S and IAQBOX-D (plus pre-filter variant codes) comprise the Q-Aire IAQBOX range and shall be manufactured in galvanised sheet metal, with an integral foam lining to reduce noise & provide internal sealing. Each in-line filter shall have the ability to have an optional PM2.5 pre-filter inserted into the filter box to be capable of additional particulate filtration; particularly from diesel vehicle fumes.

The IAQBOX shall come complete with a removable mounting bracket.

The double size IAQBOX-D range of units have the option to be configured using a single or double spigot on the outlet. Double spigot on the outlet shall provide lower air resistance and further ducting options.

The IAQBOX shall come complete with a single cartridge of plastic construction, containing two 30mm (approx.) beds of activated carbon pellets providing a large surface area of carbon to attract pollutants. The filters shall be easily removed and replaced when required. The filter shall have a minimum efficiency of between 96% and 99.5% effectiveness in the removal of Nitrogen Oxides/Dioxides.

The unit efficiency shall be confirmed and independently verified by a BRE (Building Research Establishment) test method and the information shall be provided by the filter manufacturer for approval.

The activated carbon shall have at least the following minimum qualities:

| BULK DENSITY | KG/M³ | 480 (+/-5%) |
|-----------------------------------------|-------|-------------|
| Nominal Diameter of Cylindrical Pellets | mm | 4.0 |
| Nominal Length of Cylindrical Pellets | mm | 8.0 |
| Moisture Content (Approx.) | % | 3 |
| Crush Strength (Minimum) | KG | 2 |
| Removal Capacity For Cl₂ of Own Weight | % | 10 |
| Minimum Design Efficiency | % | 99.5 |
| Typical Air Velocity | M/S | 0.3 – 2.5 |
| Suitable for Relative Air Humidities | % | 10 – 95 |
| Temperature Range | °C | -20 – +51 |

The unit shall be suitable for 220x90mm ducting.

The unit shall be installed in conjunction with the manufacturer's installation and maintenance guidelines.

The unit shall be offered with a 4 year warranty; 1 year parts and labour, remaining years parts only. This warranty is void if the equipment is modified without authorisation, is incorrectly applied, misused, disassembled or not installed, commissioned and maintained in accordance with the details contained in the I&M manual and general good practice.

Minimum life expectancy of IAQBOX filters are dependent on airflow rates.

IAQBOX-S

- 4 years up to 40l/s
- 2 years over 40l/s

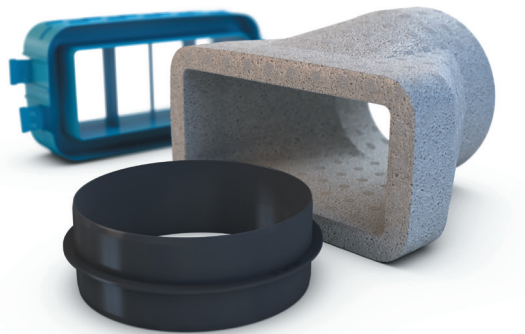
IAQBOX-D

- 4 years



NUAIRE
THERMAL

Nuaire Thermal Ductmaster (NTD) is an all-in-one insulated ducting solution, manufactured from graphite polystyrene. Lightweight and airtight due to a unique clip system, NTD is easy to install and requires no sealant or tape.



HIGH THERMAL
EFFICIENCY

Most cost-effective solution on the market.



QUICK AND EASY
INSTALLATION

Simple, quick-fit components means less time spent on site.



COST EFFECTIVE
SOLUTION

All-in-one system, no need for additional installation.



ENVIRONMENTALLY
FRIENDLY

Ducting exceeds regulatory insulation requirements.



INDEPENDENTLY TESTED FOR
AIR-TIGHTNESS BY THE BRE.



INDEPENDENTLY TESTED FOR
THERMAL CONDUCTIVITY BY
BASF, GERMANY.

DESCRIPTION

A range of ducting and ancillaries intended for installation in domestic properties. Nuaire Thermal is available in two sizes, based on the internal dimension: Ø125mm or 204mm x 60mm.

MATERIAL

Graphite impregnated expandable polystyrene (EPS).
Tradename – BASF Neopor® 2300.

THERMAL PROPERTIES

| | |
|----------------------|----------------------------------------------------------------|
| Thickness | 20mm nominal |
| Density | 25kg/m³ |
| Thermal Conductivity | K = 0.03W/m.k |
| Thermal Resistance | R = material thickness/thermal conductivity. R = 0.67 (m².k)/W |
| U Value (1/R) | 1.49 W/(m².K) |

BUILDING REGULATIONS

Domestic ventilation compliance guide requires insulation of the ducting to be n equivalent of at least 25mm of a material having a thermal conductivity of <=0.04 W/m.k.

Therefore
Thermal resistance, R = 0.025/0.04
R = 0.625 (m².k)/W
U Value (1/R) = 1.6W/(m².k)

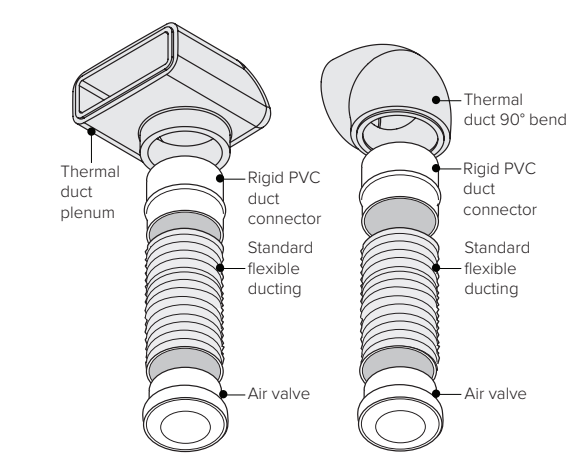
FLAMMABILITY

Class E to BS EN 13501-1 Fire classification of construction products and building elements.



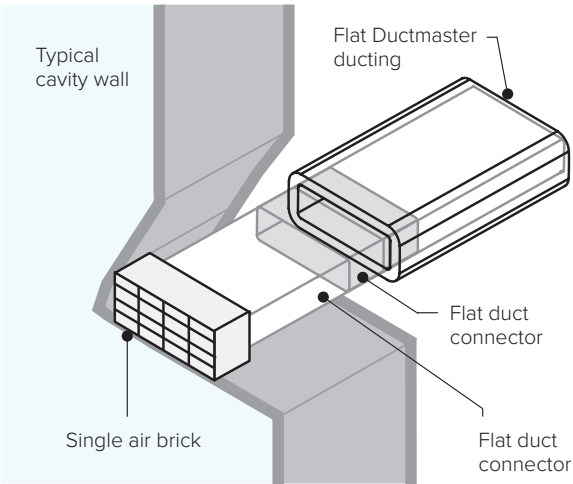
FLEXIBLE DUCT CONNECTIONS BETWEEN AIR VALVES AND PLENUMS/BENDS

FIGURE 4: TYPICAL FLEXIBLE DUCTING BETWEEN AIR VALVE AND PLENUM BEND



AIR BRICK CONNECTION DETAIL

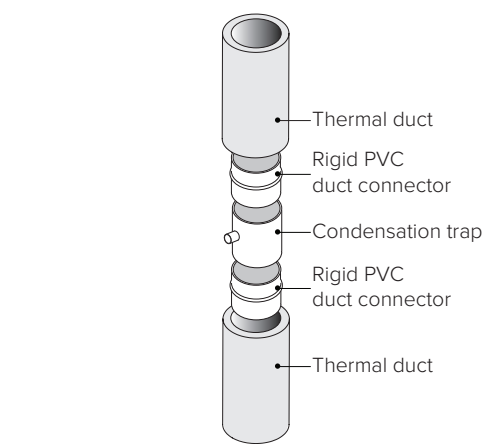
FIGURE 5: TYPICAL RECTANGULAR THERMAL DUCT WITH AN AIR BRICK



*For the use of all PVC terminations please refer to Approved document B Volume 1 2019 edition in the UK and Building Standards Technical Handbook 2019 in Scotland or alternatively seek guidance from your local authority building control officer/fire specialist.

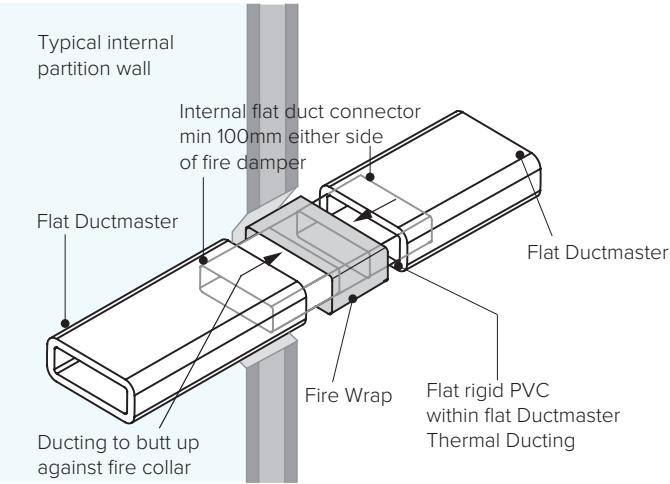
CONDENSATE TRAP IN THERMAL DUCTING

FIGURE 6: CONDENSATE TRAP WITH RIGID PVC DUCT CONNECTORS



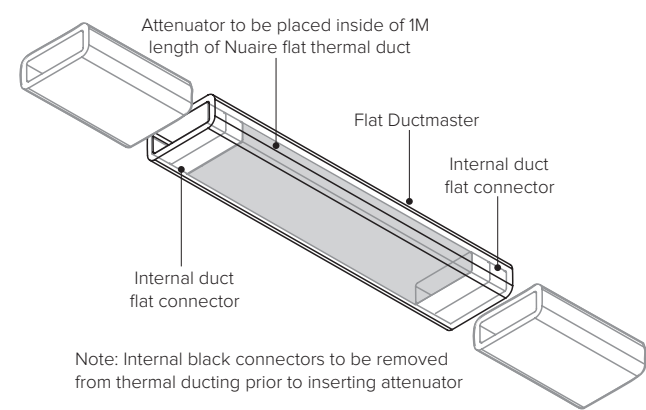
FIRE WRAP IN THERMAL DUCTING

FIGURE 7: FIRE WRAP IN RECTANGULAR THERMAL DUCTING



ATTENUATOR IN THERMAL DUCTING

FIGURE 8: TYPICAL RECTANGULAR THERMAL DUCT WITH AN ATTENUATOR



CUTTING DUCTING

A flush, square 90° cut is required to ensure than an air tight seal is made with centre ridge in the clamp. In an angled cut is made, this will not allow the duct clamps to create a seal on the duct.

We advise that the duct is cut with a very sharp blade or fine toothed saw (we recommend a minimum of 14 teeth per inch). The cutting blade length should be at least the same length as the thickness of the ducting.

Ensure duct is placed into a duct clamp connector prior to installation to check the cut ducting is square.

FIGURE 9A: A SQUARE 90° CUT IS REQUIRED TO ENSURE AN AIRTIGHT SEAL

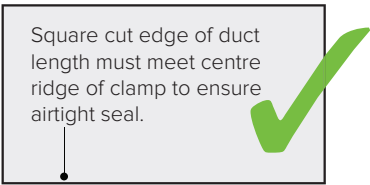


FIGURE 9B: NON SQUARE CUT RESULTING IN AIR LEAKAGE FROM DUCT

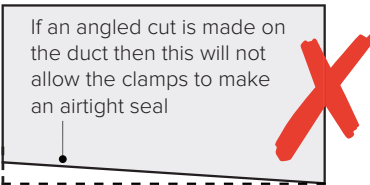
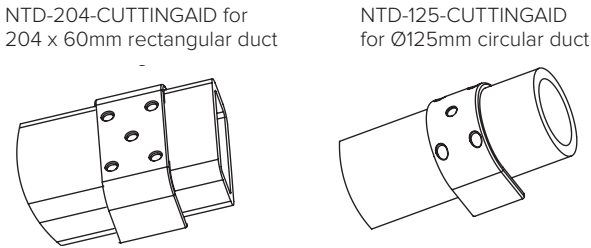


FIGURE 10: CUTTING AIDS AVAILABLE FROM NUAIRE



FITTING CLAMPS

For installation into the duct clamp, push the two pre-cut lengths of ducting firmly into the clamp at opposite ends. **Double check the cut ducting is square. Failing to do so may cause air leakage.**

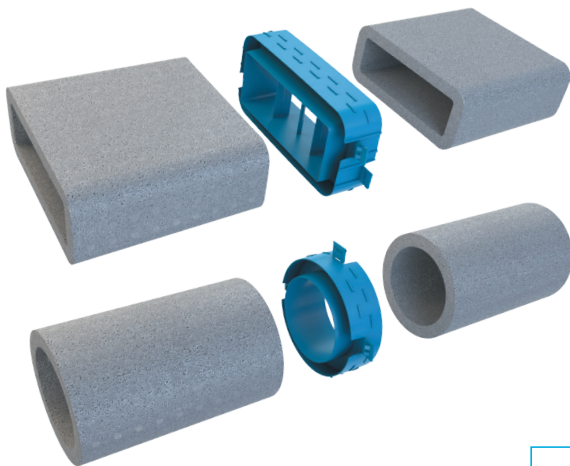
The centre joint of the duct should be located on the centre flange of the clamp. **Ensure the ducting is fully pressed into the clamp to create and airtight seal. Failing to do so may cause air leakage.**

Press the fixing tabs down until they lock in place.

Important: NTD is supplied in 1 metre lengths. If shorter lengths are required the duct can be cut to length with a fine toothed saw (minimum of 14 teeth per inch).

Failure to make a square cut may result in airflow leakage when connecting to other ducting pieces. Ensure the duct is placed into a duct clamp prior to installation to check the cut ducting is square.

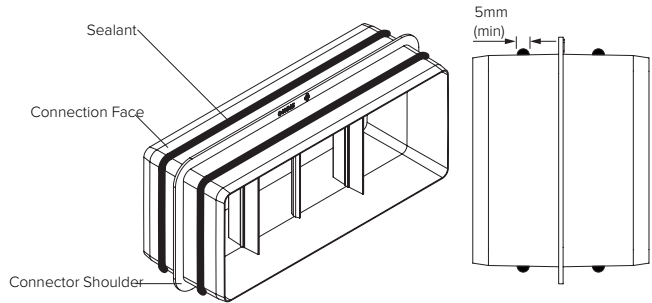
FIGURE 11: FITTING RECTANGULAR AND CIRCULAR DUCT CLAMP



INSTALLATION USING BLACK INNER CONNECTIONS AND SEALANT

For connection of thermal ducting with inner duct connectors, we recommend the use of Galva Mate, solvent free, low-odour sealant. Sealant should be applied in the middle of the connection face with a minimum bead width of 5mm. Fit ducting over connector, ensuring end face butts up to the connector shoulder. Allow minimum of 1 hour curing time at room temperature.

FIGURE 12: FITTING PVC BAND



FITTING DUCT BANDING

For installation onto a solid surface, suitable duct banding must be used to support both the rectangular and circular ducting and should be fitted every 1m. When fitting the bands at the fixing clamps, the raised tabs provided will act as an installation guide. Nuair recommends the use of PVC coated galvanised banding available under item code: PVCBAND. As an alternative, uncoated galvanised banding may also be used. Note, in both case, if banding is used on the duct itself and not at the fixing clamp then care should be taken to ensure the banding does not cut into the surface as this may cause damage and ultimately lead to leakage.

FIGURE 14: FITTING DUCT BANDING

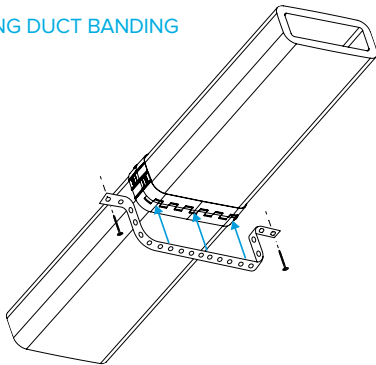
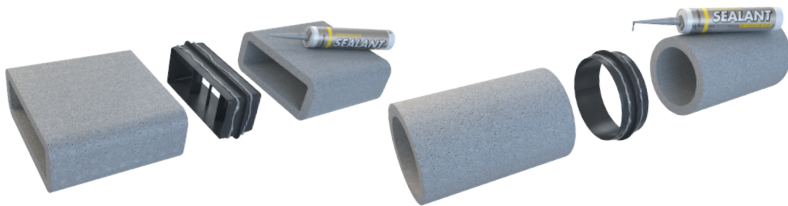


FIGURE 13: RECTANGULAR AND CIRCULAR DUCT BLACK INSERT INSTALLATION



NUAIRE THERMAL DUCTMASTER

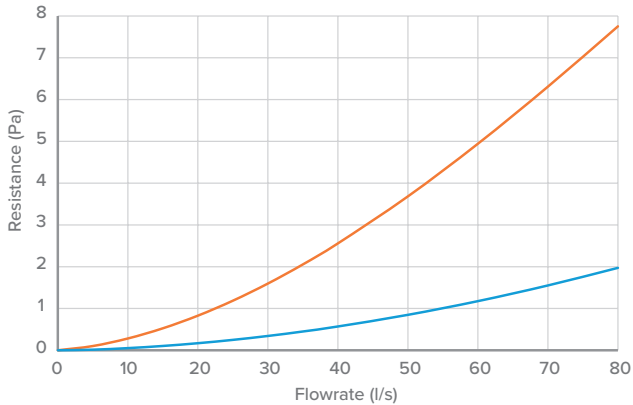
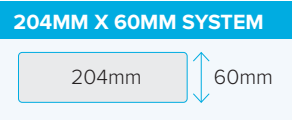
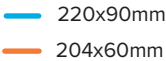
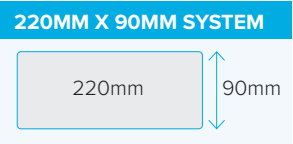
RECTANGULAR

THERMAL 1M LENGTH

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|---------------------|---------------------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-220-1M | 220mm x 90mm x 20mm | Thermal rectangular ducting length 1m | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |
| NTD-204-1M | 204mm x 60mm x 20mm | Thermal rectangular ducting length 1m | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-1M | 220mm x 90mm | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.2 | 1.6 | 2.0 |
| NTD-204-1M | 204mm x 60mm | 0.1 | 0.3 | 0.5 | 0.8 | 1.2 | 1.6 | 2.1 | 2.6 | 3.7 | 4.9 | 6.3 | 7.8 |

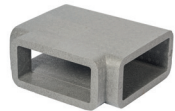


NUAIRE THERMAL DUCTMASTER

RECTANGULAR

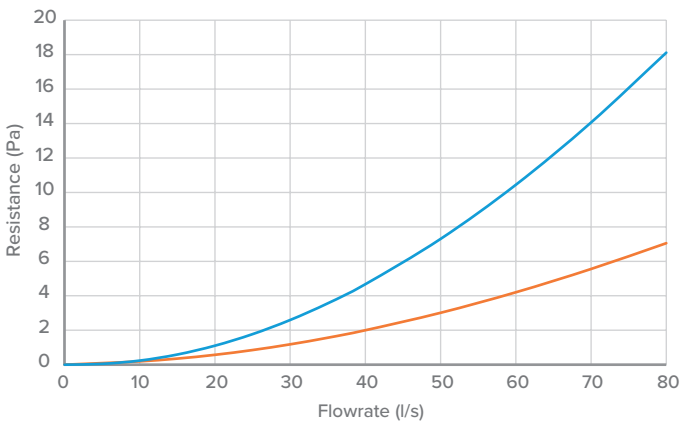
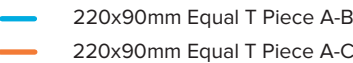
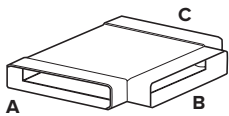
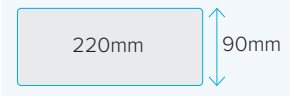
THERMAL HORIZONTAL T-PIECE

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|--------------|----------------------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-220-TP | 220mm x 90mm | Thermal rectangular horizontal T-piece | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |
| NTD-204-TP | 204mm x 60mm | Thermal rectangular horizontal T-piece | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



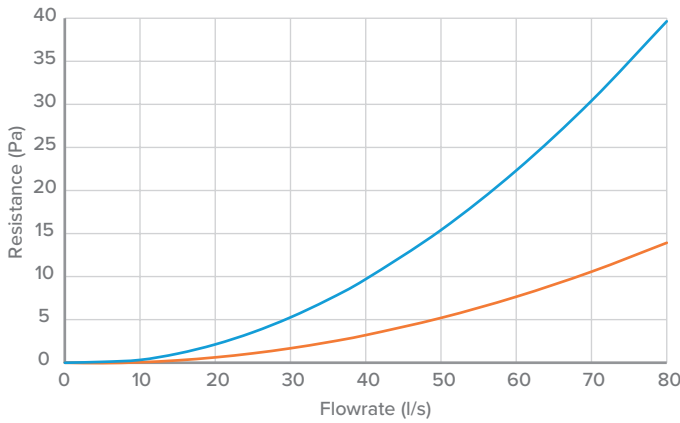
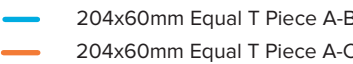
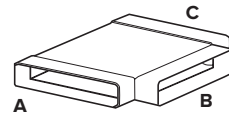
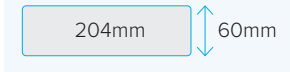
| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-TP | 220mm x 90mm Equal T Piece A-B | 0.0 | 0.2 | 0.6 | 1.1 | 1.8 | 2.6 | 3.6 | 4.7 | 7.3 | 10.4 | 14.1 | 18.1 |
| | 220mm x 90mm Equal T Piece A-C | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 1.2 | 1.6 | 2.0 | 3.0 | 4.2 | 5.6 | 7.1 |

220MM X 90MM SYSTEM



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-204-TP | 204mm x 60mm Equal T Piece A-B | 0.1 | 0.3 | 1.1 | 2.1 | 3.5 | 5.3 | 7.3 | 9.7 | 15.4 | 22.3 | 30.4 | 39.6 |
| | 204mm x 60mm Equal T Piece A-C | 0.0 | 0.1 | 0.3 | 0.6 | 1.1 | 1.7 | 2.4 | 3.2 | 5.2 | 7.7 | 10.6 | 13.9 |

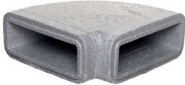
204MM X 60MM SYSTEM



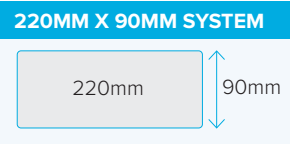


THERMAL 90° HORIZONTAL BEND

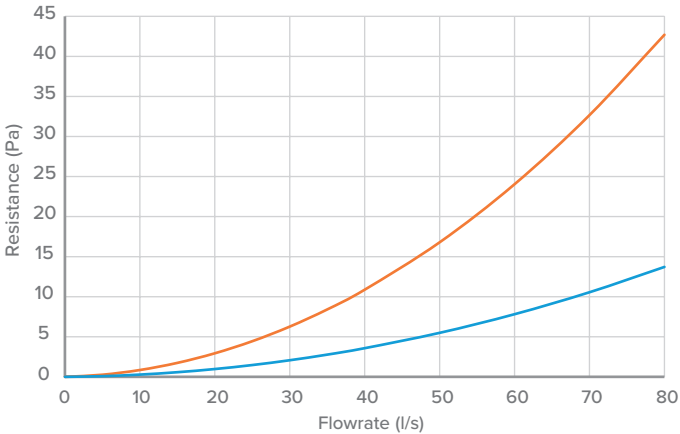
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|--------------|-----------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-220-90H | 220mm x 90mm | Thermal 90° horizontal bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |
| NTD-204-90H | 204mm x 60mm | Thermal 90° horizontal bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-90H | 220mm x 90mm | 0.1 | 0.3 | 0.6 | 1.0 | 1.5 | 2.1 | 2.8 | 3.6 | 5.5 | 7.8 | 10.6 | 13.7 |
| NTD-204-90H | 204mm x 60mm | 0.3 | 0.9 | 1.7 | 2.9 | 4.4 | 6.3 | 8.4 | 10.9 | 16.8 | 24.0 | 32.7 | 42.7 |



- 220x90mm
- 204x60mm

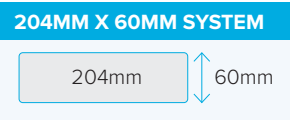
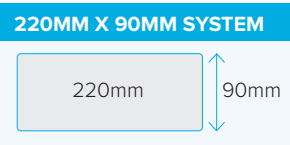


THERMAL 45° HORIZONTAL BEND

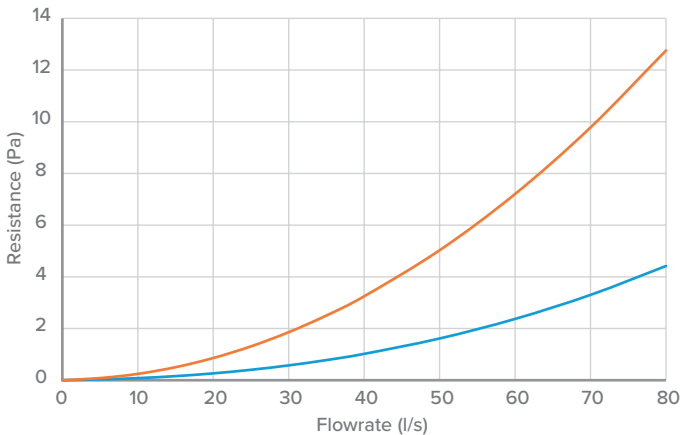
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|--------------|-----------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-220-45H | 220mm x 90mm | Thermal 45° horizontal bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |
| NTD-204-45H | 204mm x 60mm | Thermal 45° horizontal bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-45H | 220mm x 90mm | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.0 | 1.6 | 2.4 | 3.3 | 4.4 |
| NTD-204-45H | 204mm x 60mm | 0.1 | 0.2 | 0.5 | 0.9 | 1.3 | 1.9 | 2.5 | 3.2 | 5.0 | 7.2 | 9.8 | 12.8 |



- 220x90mm
- 204x60mm

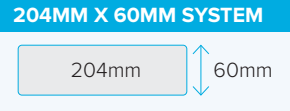
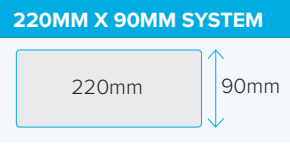


THERMAL 90° VERTICAL BEND

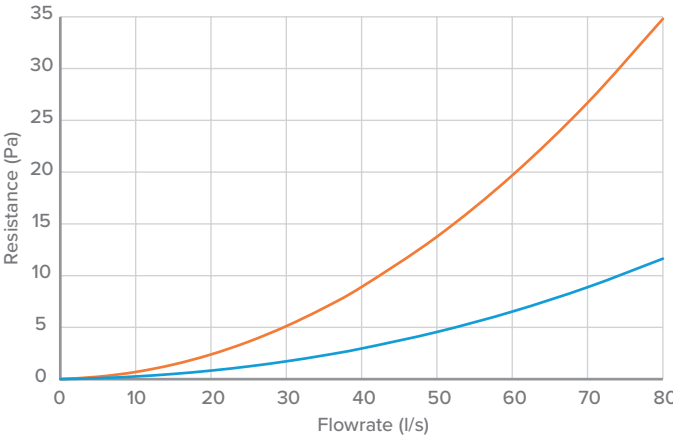
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|--------------|---------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-220-90V | 220mm x 90mm | Thermal 90° vertical bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |
| NTD-204-90V | 204mm x 60mm | Thermal 90° vertical bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-90V | 220mm x 90mm | 0.1 | 0.3 | 0.5 | 0.8 | 1.2 | 1.7 | 2.3 | 3.0 | 4.6 | 6.5 | 8.9 | 11.6 |
| NTD-204-90V | 204mm x 60mm | 0.2 | 0.7 | 1.4 | 2.4 | 3.6 | 5.1 | 6.9 | 8.9 | 13.8 | 19.7 | 26.7 | 34.8 |



- 220x90mm
- 204x60mm

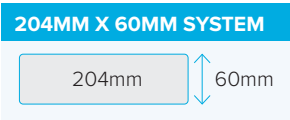
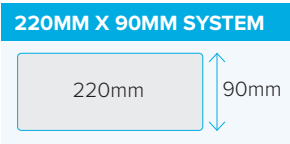


THERMAL 45° VERTICAL BEND

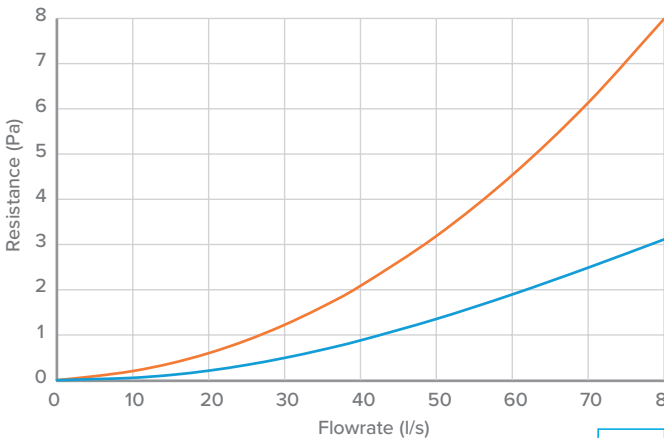
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|--------------|---------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-220-45V | 220mm x 90mm | Thermal 45° vertical bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |
| NTD-204-45V | 204mm x 60mm | Thermal 45° vertical bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-45V | 220mm x 90mm | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.9 | 1.4 | 1.9 | 2.5 | 3.1 |
| NTD-204-45V | 204mm x 60mm | 0.1 | 0.2 | 0.4 | 0.6 | 0.9 | 1.2 | 1.6 | 2.1 | 3.2 | 4.5 | 6.1 | 8.0 |



- 220x90mm
- 204x60mm





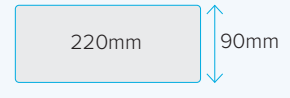
THERMAL PLENUM RECTANGULAR TO ROUND 220X90MM - Ø150MM

| CODE | AIR DIRECTION | | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|---------------|---------------|--------|--------------------------------------|----------------------------|--------|--------------------------|-----------------|
| | From | To | | | | | |
| NTD-220-PL150 | 220mm x 90mm | Ø150mm | Thermal plenum, rectangular to round | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |

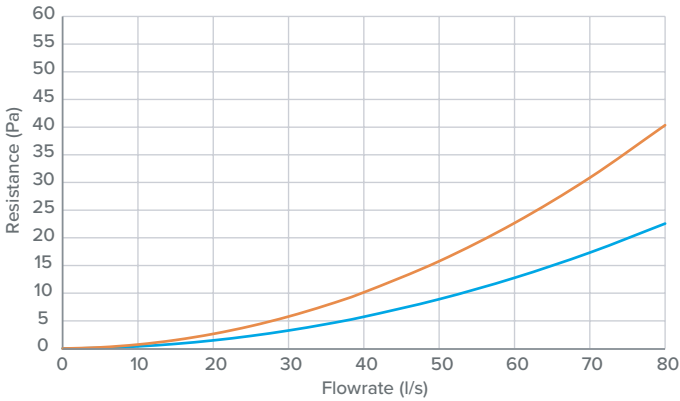


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|---------------|-----------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-PL150 | Intake (A) - Rect to Round | 0.1 | 0.4 | 0.8 | 1.5 | 2.3 | 3.3 | 4.4 | 5.7 | 8.9 | 12.8 | 17.3 | 22.6 |
| | Exhaust (A) - Round to Rect | 0.2 | 0.7 | 1.5 | 2.6 | 4.1 | 5.8 | 7.8 | 10.2 | 15.8 | 22.7 | 30.9 | 40.4 |

220MM X 90MM SYSTEM



- 220x90mm - Rect to Round
- 220x90mm - Round to Rect



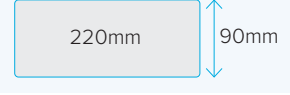
THERMAL PLENUM RECTANGULAR TO ROUND 220X90MM - Ø125MM

| CODE | AIR DIRECTION | | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|---------------|--------|--------------------------------------|----------------------------|--------|--------------------------|-----------------|
| | From | To | | | | | |
| NTD-220-PL | 220mm x 90mm | Ø125mm | Thermal plenum, rectangular to round | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |

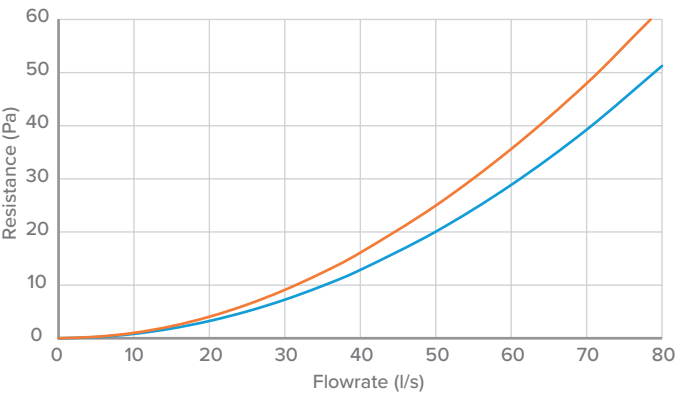


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-PL | Rect to Round | 0.2 | 0.8 | 1.8 | 3.2 | 5.1 | 7.3 | 9.9 | 12.9 | 20.1 | 28.9 | 39.3 | 51.3 |
| | Round to Rect | 0.3 | 1.0 | 2.3 | 4.1 | 6.3 | 9.1 | 12.4 | 16.1 | 25.0 | 35.6 | 48.0 | 61.9 |

220MM X 90MM SYSTEM

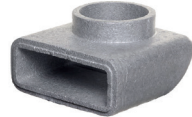


- 220x90mm Rect to Round
- 220x90mm Round to Rect



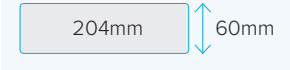
THERMAL PLENUM RECTANGULAR TO ROUND 204X60MM - Ø125MM

| CODE | AIR DIRECTION | | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|---------------|--------|--------------------------------------|----------------------------|--------|--------------------------|-----------------|
| | From | To | | | | | |
| NTD-204-PL | 204mm x 60mm | Ø125mm | Thermal plenum, rectangular to round | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |

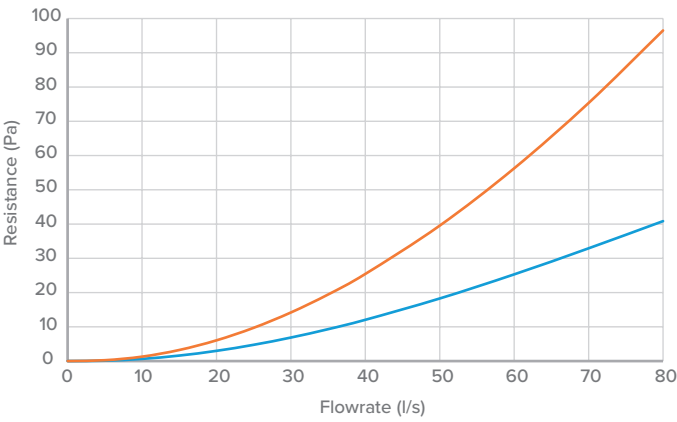


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-204-PL | Rect to Round | 0.1 | 0.6 | 1.6 | 3.0 | 4.8 | 6.9 | 9.3 | 12.0 | 18. | 25.3 | 32.9 | 40.9 |
| | Round to Rect | 0.3 | 1.3 | 3.2 | 6.1 | 9.7 | 14.2 | 19.4 | 25.4 | 39.5 | 56.3 | 75.3 | 96.5 |

204MM X 60MM SYSTEM



- 204x60mm Rect to Round
- 204x60mm Round to Rect



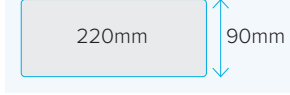
THERMAL IN-LINE ADAPTER RECTANGULAR TO ROUND 220X90MM - Ø150MM

| CODE | DUCT SIZE | | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------------|--------------|--------|-----------------------------------------------|----------------------------|--------|--------------------------|-----------------|
| | From | To | | | | | |
| NTD-220-STR150 | 220mm x 90mm | Ø150mm | Thermal in-line adapter, rectangular to round | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |

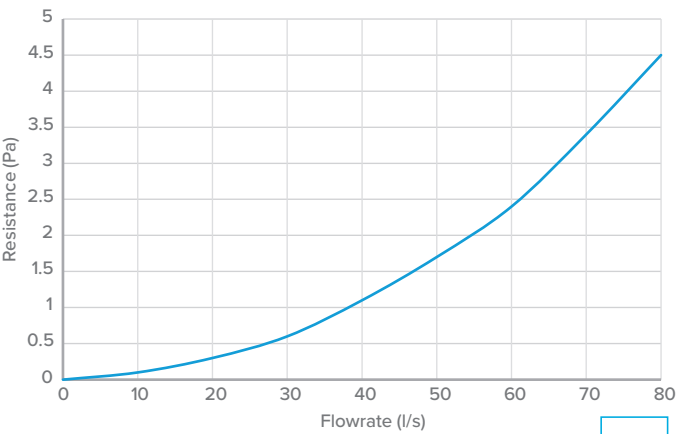


| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | |
|----------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 10l/s | 20l/s | 30l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-STR150 | Rect to Round | 0.1 | 0.3 | 0.6 | 1.1 | 1.7 | 2.4 | 3.4 | 4.5 |

220MM X 90MM SYSTEM



- 220x90mm Rect to Round



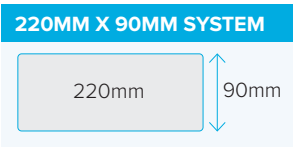


THERMAL IN-LINE ADAPTER RECTANGULAR TO ROUND 220X90MM - Ø125MM

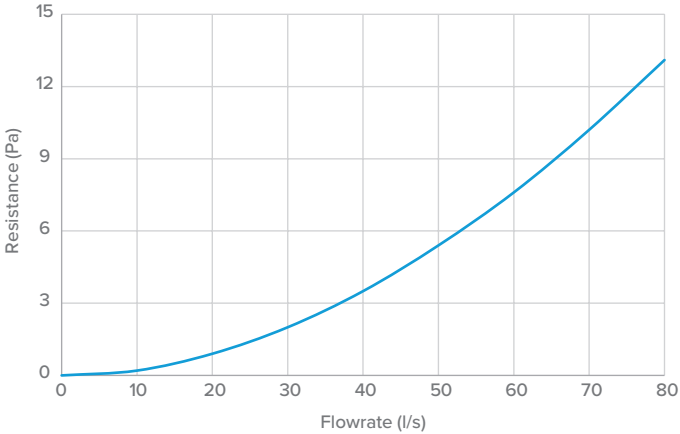
| CODE | DUCT SIZE | | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------------|--------------|--------|-----------------------------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-220-STR125 | From | To | Thermal in-line adapter, rectangular to round | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |
| | 220mm x 90mm | Ø125mm | | | | | |



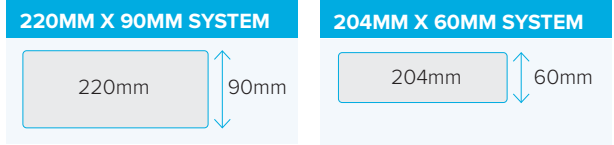
| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | |
|----------------|--------------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | 10l/s | 20l/s | 30l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-STR125 | From | To | 0.2 | 0.9 | 2.0 | 3.5 | 5.4 | 7.6 | 10.2 | 13.1 |
| | 220mm x 90mm | Ø125mm | | | | | | | | |



220x90mm

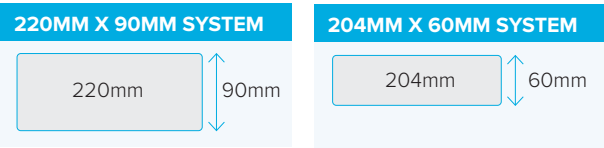


THERMAL DUCTING ONE PIECE CONNECTOR



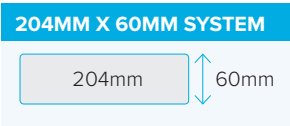
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|--------------|-------------------------------------|---------------|--------|---------------------|-----------------|
| NTD-220-OPC | 220mm x 90mm | Thermal ducting one piece connector | Polypropylene | Blue | UL94-HB | ISO9001 |
| NTD-204-OPC | 204mm x 60mm | Thermal ducting one piece connector | Polypropylene | Blue | UL94-HB | ISO9001 |

THERMAL DUCTING BLACK INSERT



| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|--------------|------------------------------|---------------|--------|---------------------|-----------------|
| NTD-220-INS | 220mm x 90mm | Thermal ducting black insert | Polypropylene | Black | UL94-HB | ISO9001 |
| NTD-204-INS | 204mm x 60mm | Thermal ducting black insert | Polypropylene | Black | UL94-HB | ISO9001 |

THERMAL DUCTING CUTTING AID

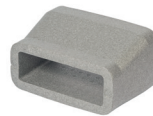


| CODE | DUCT SIZE | DESCRIPTION |
|--------------------|--------------|---------------------------------|
| NTD-204-CUTTINGAID | 204mm x 60mm | Cutting aid for thermal ducting |

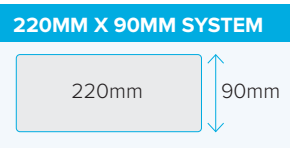


THERMAL REDUCER 220X90MM - 204X60MM

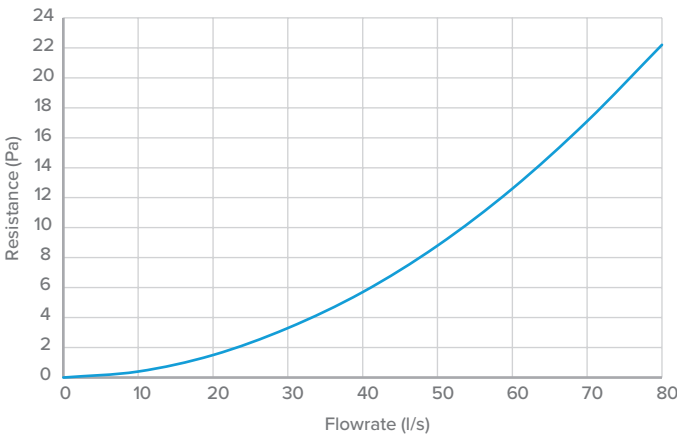
| CODE | DUCT SIZE | | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------------|--------------|--------------|--------------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-220-RED204 | From | To | Thermal in-line reducing piece | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |
| | 220mm x 90mm | 204mm x 60mm | | | | | |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | |
|----------------|--------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | 10l/s | 20l/s | 30l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-220-RED204 | From | To | 0.4 | 1.5 | 3.3 | 5.7 | 8.8 | 12.6 | 17.1 | 22.2 |
| | 220mm x 90mm | 204mm x 60mm | | | | | | | | |



220x90mm





NUAIRE THERMAL DUCTMASTER

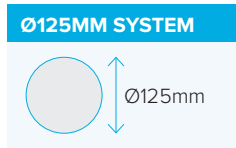
CIRCULAR

THERMAL 1M LENGTH

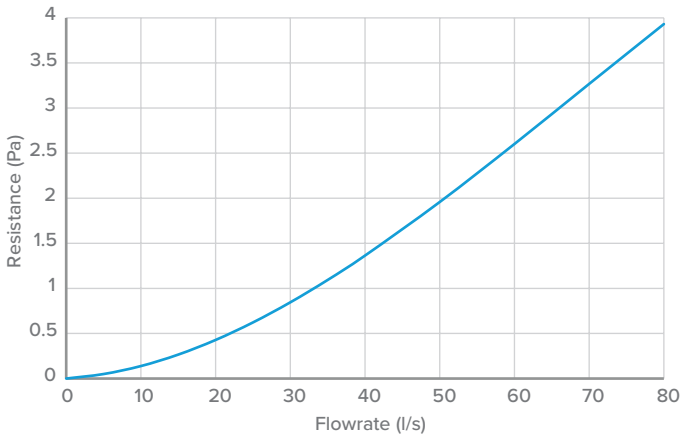
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|-----------|------------------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-125-1M | Ø125mm | Thermal circular ducting length 1m | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



| | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-125-1M | Ø125mm | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.8 | 1.1 | 1.4 | 2.0 | 2.6 | 3.3 | 3.9 |



— Ø125mm

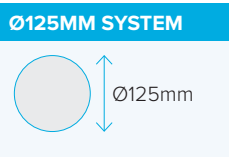


THERMAL T-PIECE

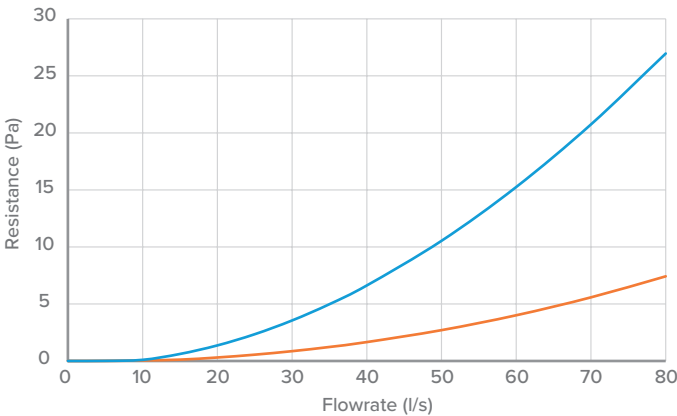
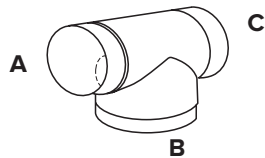
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|-----------|--------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-125-TP | Ø125mm | Thermal circular T-piece | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



| | | RESISTANCE IN Pa | | | | | | | | | | | | |
|-------------|--------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | |
| NTD-125-TP | Ø125mm Equal T Piece A-B | 0.0 | 0.1 | 0.6 | 1.4 | 2.3 | 3.6 | 5.0 | 6.6 | 10.5 | 15.3 | 20.7 | 27.0 | |
| NTD-125-TP | Ø125mm Equal T Piece A-C | 0.01 | 0.05 | 0.1 | 0.3 | 0.6 | 0.9 | 1.2 | 1.7 | 2.7 | 4.0 | 5.6 | 7.4 | |



— Ø125mm Equal T Piece A-B
— Ø125mm Equal T Piece A-C

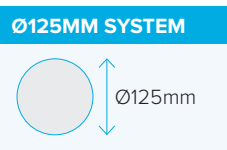


THERMAL 90° CIRCULAR BEND

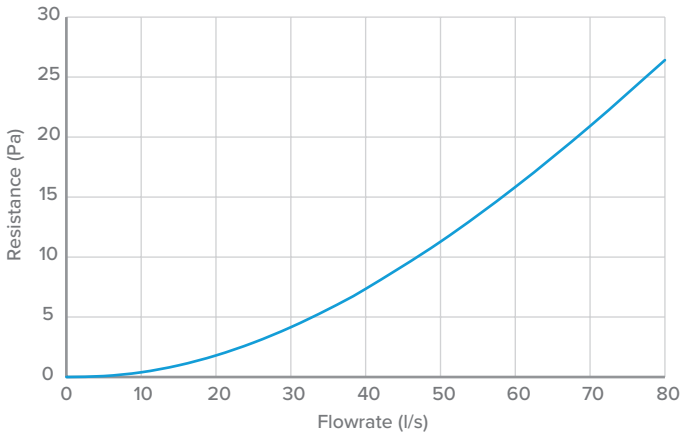
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|-----------|---------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-125-90H | Ø125mm | Thermal 90° circular bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



| | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-125-90H | Ø125mm | 0.1 | 0.4 | 1.0 | 1.8 | 2.9 | 4.2 | 5.7 | 7.3 | 11.3 | 15.8 | 20.9 | 26.4 |



— Ø125mm

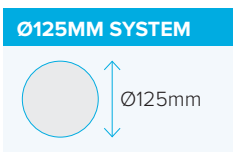


THERMAL 45° CIRCULAR BEND

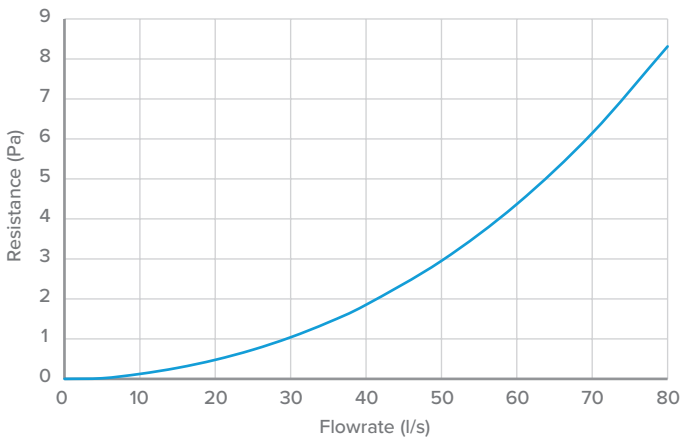
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|-----------|---------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-125-45H | Ø125mm | Thermal 45° circular bend | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



| | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-125-45H | Ø125mm | 0.0 | 0.1 | 0.3 | 0.5 | 0.7 | 1.0 | 1.4 | 1.9 | 3.0 | 4.4 | 6.1 | 8.3 |



— Ø125mm



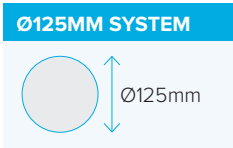


Thermal Ducting Condensation Trap

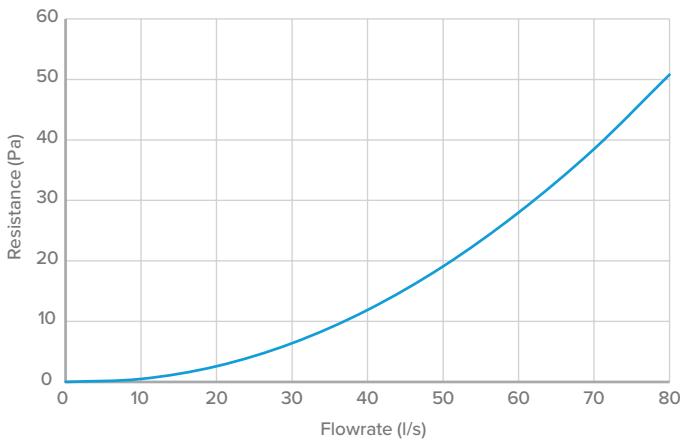
| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-----------------|-----------|-----------------------------------|----------------------------|--------|--------------------------|-----------------|
| NTD-125-CONTRAP | Ø125mm | Thermal ducting condensation trap | GPS (Graphite Polystyrene) | Grey | Class E to BS EN 13501-1 | ISO9001 |



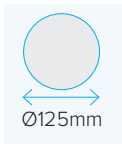
| | | RESISTANCE IN Pa | | | | | | | |
|-----------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|
| PART NUMBER | DUCT SIZE | 10l/s | 20l/s | 30l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| NTD-125-CONTRAP | Ø125mm | 0.5 | 2.6 | 6.4 | 11.9 | 19.1 | 28.0 | 38.5 | 50.8 |



Ø125mm

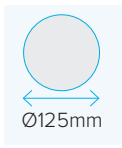


Thermal Ducting One Piece Connector

| Ø125MM SYSTEM | CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------------------------------------------------------------------------------|-------------|-----------|-------------------------------------|---------------|--------|---------------------|-----------------|
|  | NTD-125-OPC | Ø125mm | Thermal ducting one piece connector | Polypropylene | Blue | UL94-HB | ISO9001 |




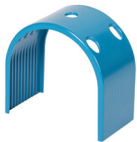
Thermal Ducting Black Insert

| Ø125MM SYSTEM | CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------------------------------------------------------------------------------|-------------|-----------|------------------------------|---------------|--------|---------------------|-----------------|
|  | NTD-125-INS | Ø125mm | Thermal ducting black insert | Polypropylene | Black | UL94-HB | ISO9001 |



Thermal Ducting Cutting Aid

| Ø125MM SYSTEM | CODE | DUCT SIZE | DESCRIPTION |
|------------------------------------------------------------------------------------|--------------------|-----------|---------------------------------|
|  | NTD-125-CUTTINGAID | Ø125mm | Cutting aid for thermal ducting |



Ductmaster Rigid

DESCRIPTION

A range of ducting and ancillaries intended for installation in domestic properties. Available in six different profiles to suit any application.

MATERIALS

- High Impact Polystyrene (HIPS)
- Extruded Unplasticized Polyvinyl Chloride (uPVC)
- Polyvinyl Chloride (PVC)
- Polystyrene (PS)
- Acrylonitrile Butadiene Styrene (ABS)

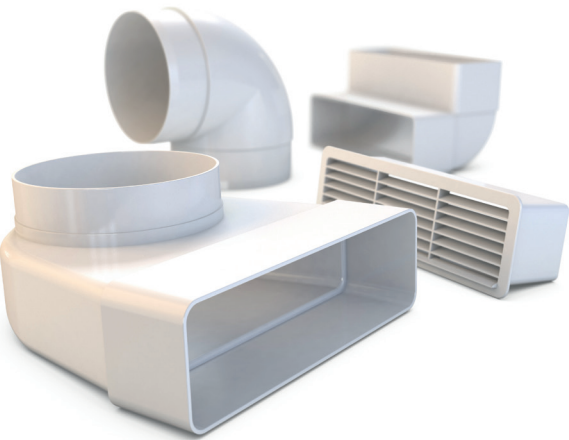
FLAMMABILITY

- UL94-HB/V0 to BS EN 60695-11-10 Fire hazard testing
- Test flames 50 W horizontal and vertical flame test methods.

ASSEMBLY AND FITTING INSTRUCTIONS

In order to provide maximum circulation of air in each room intended to be ventilated, position individual Nuaire Ventilation air valves diagonally opposite the door into the room or as near to this position as building construction limitations allow. **Note: It is recommended that internal doors have a 10mm air gap at the bottom to allow the transfer of air flow whilst the door is shut.**

The Nuaire Ventilation duct system that connects all of the extract air valves together should ideally form the shape of a stylised 'tree'. This should consist of a central 'trunk' (duct), connected to the appliance, with the air valves positioned at the end of each individual duct 'branch' to provide an approximate balanced air flow. The final air flow will be balanced by adjusting the individual air valves.



To avoid condensation forming inside or outside the duct you should insulate any duct passing through an unheated space; for example, when passing through a cold loft space. In these instances, Nuaire Thermal should be employed.

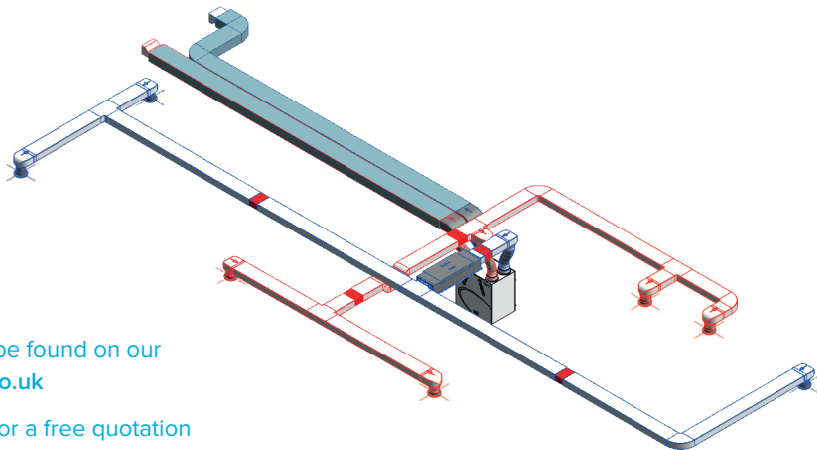
This is also the case for intake and exhaust ductwork (these are the ducts connecting the unit to outside). The joints of this insulation should be sealed using Nuaire aluminium duct tape to form a continuous vapour barrier.

IMPORTANT NOTICE

To ensure optimum performance is achieved by the appliance and to avoid damage from condensate leakage, Nuaire Ventilation recommends all duct joints must be 100% sealed with Nuaire Ventilation PVCDSEAL acrylic duct sealant, or DDSEAL (fire resistant). Please refer to Part F for regulatory standards required.

Nuaire Ventilation ducting should be supported using good quality proprietary duct support systems or products such as PVCFSEAL galvanised banding.

Care must be taken to ensure that the ducting or insulation is not damaged or pierced. It is recommended that the ducting is supported at least every 1.0m and either side of any joint to provide extra mechanical strength.



Full product ranges can be found on our website at www.nuaire.co.uk

For technical assistance or a free quotation and design, please call 029 2085 8500 or email residentialenquiries@nuaire.co.uk



DUCTMASTER RIGID

RECTANGULAR

2M RECTANGULAR DUCT LENGTH

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|----------------------------------|----------------------------------|----------------------------------|
| <div>220mm</div> <div>90mm</div> | <div>204mm</div> <div>60mm</div> | <div>110mm</div> <div>54mm</div> |

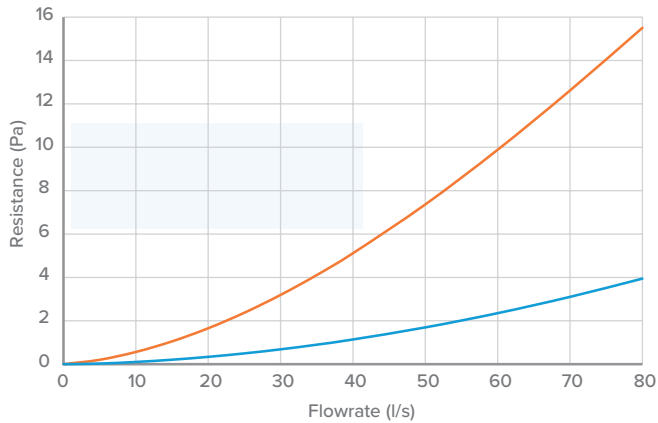


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|---------|--------------|-------------------------------|------------|---------------|--------|---------------------|-----------------|
| D4-2000 | 220mm x 90mm | 2m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| D3-2000 | 204mm x 60mm | 2m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| D1-2000 | 110mm x 54mm | 2m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| D4-2000 | 220mm x 90mm | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.9 | 1.1 | 1.7 | 2.4 | 3.1 | 3.9 |
| D3-2000 | 204mm x 60mm | 0.2 | 0.6 | 1.1 | 1.7 | 2.4 | 3.2 | 4.1 | 5.1 | 7.4 | 9.9 | 12.6 | 15.5 |

| 220MM X 90MM SYSTEM |
|----------------------------------|
| <div>220mm</div> <div>90mm</div> |
| 204MM X 60MM SYSTEM |
| <div>204mm</div> <div>60mm</div> |

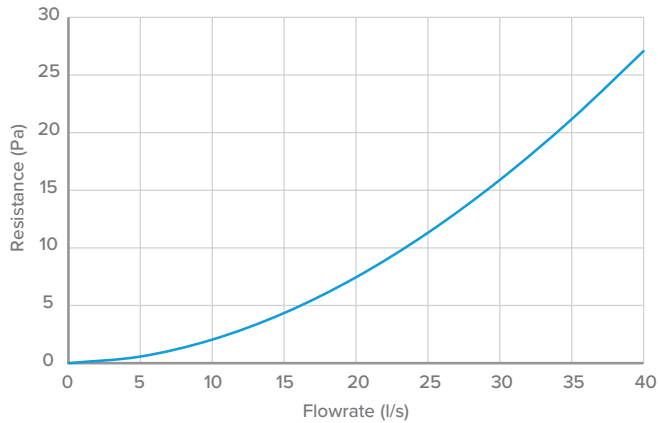
— 220x90mm
— 204x60mm



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| D1-2000 | 110mm x 54mm | 0.6 | 2.0 | 4.3 | 7.5 | 11.3 | 15.9 | 21.2 | 27.1 |

| 110MM X 54MM SYSTEM |
|----------------------------------|
| <div>110mm</div> <div>54mm</div> |

— 110x54mm



1.5M RECTANGULAR DUCT LENGTH

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 121MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <div>220mm</div> <div>90mm</div> | <div>204mm</div> <div>60mm</div> | <div>121mm</div> <div>60mm</div> | <div>110mm</div> <div>54mm</div> |

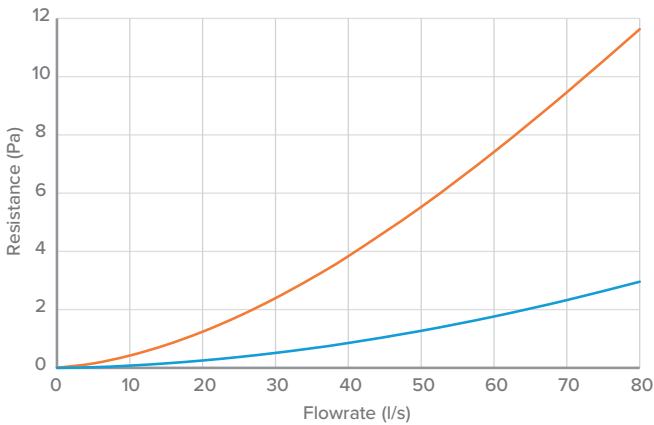


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-----------|--------------|---------------------------------|------------|---------------|--------|---------------------|-----------------|
| PVC915WH | 220mm x 90mm | 1.5m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC515WH | 204mm x 60mm | 1.5m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC4015WH | 121mm x 60mm | 1.5m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC015WH | 110mm x 54mm | 1.5m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC915WH | 220mm x 90mm | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 | 0.9 | 1.3 | 1.8 | 2.3 | 3.0 |
| PVC515WH | 204mm x 60mm | 0.2 | 0.4 | 0.8 | 1.2 | 1.8 | 2.4 | 3.1 | 3.8 | 5.5 | 7.4 | 9.5 | 11.6 |

| 220MM X 90MM SYSTEM |
|----------------------------------|
| <div>220mm</div> <div>90mm</div> |
| 204MM X 60MM SYSTEM |
| <div>204mm</div> <div>60mm</div> |

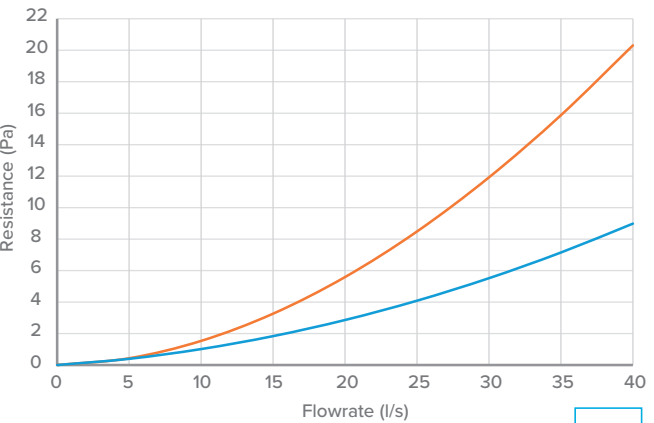
— 220x90mm
— 204x60mm



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC4015WH | 121mm x 60mm | 0.4 | 1.0 | 1.8 | 2.9 | 4.1 | 5.5 | 7.1 | 9.0 |
| PVC015WH | 110mm x 54mm | 0.4 | 1.5 | 3.3 | 5.6 | 8.5 | 11.9 | 15.9 | 20.3 |

| 121MM X 60MM SYSTEM |
|----------------------------------|
| <div>121mm</div> <div>60mm</div> |
| 110MM X 54MM SYSTEM |
| <div>110mm</div> <div>54mm</div> |


— 121x60mm
— 110x54mm





1M RECTANGULAR DUCT LENGTH

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 121MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| <div><div>220mm</div><div>90mm</div></div> | <div><div>204mm</div><div>60mm</div></div> | <div><div>121mm</div><div>60mm</div></div> | <div><div>110mm</div><div>54mm</div></div> |



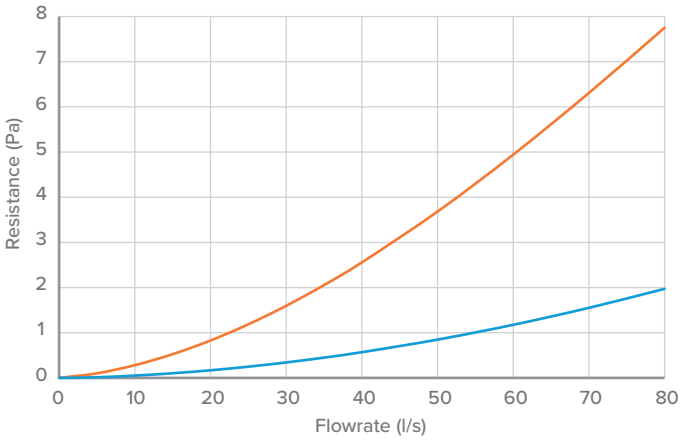
| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-----------|--------------|---------------------------------|------------|---------------|--------|---------------------|-----------------|
| PVC910WH | 220mm x 90mm | 1.0m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC510WH | 204mm x 60mm | 1.0m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC4010WH | 121mm x 60mm | 1.0m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC010WH | 110mm x 54mm | 1.0m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |

| | | RESISTANCE IN Pa | | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | |
| PVC910WH | 220mm x 90mm | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.2 | 1.6 | 2.0 | |
| PVC510WH | 204mm x 60mm | 0.1 | 0.3 | 0.5 | 0.8 | 1.2 | 1.6 | 2.1 | 2.6 | 3.7 | 4.9 | 6.3 | 7.8 | |

| 220MM X 90MM SYSTEM |
|--------------------------------------------|
| <div><div>220mm</div><div>90mm</div></div> |

| 204MM X 60MM SYSTEM |
|--------------------------------------------|
| <div><div>204mm</div><div>60mm</div></div> |

- 220x90mm
- 204x60mm

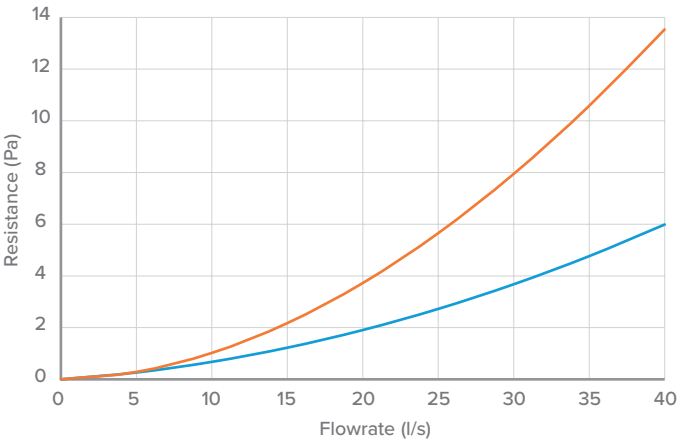


| | | RESISTANCE IN Pa | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | |
| PVC4010WH | 121 x 60mm | 0.3 | 0.7 | 1.2 | 1.9 | 2.7 | 3.7 | 4.8 | 6.0 | |
| PVC010WH | 110mm x 54mm | 0.3 | 1.0 | 2.2 | 3.7 | 5.7 | 7.9 | 10.6 | 13.5 | |

| 121MM X 60MM SYSTEM |
|--------------------------------------------|
| <div><div>121mm</div><div>60mm</div></div> |


| 110MM X 54MM SYSTEM |
|--------------------------------------------|
| <div><div>110mm</div><div>54mm</div></div> |

- 121x60mm
- 110x54mm



RECTANGULAR DUCT CONNECTOR

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 121MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| <div><div>220mm</div><div>90mm</div></div> | <div><div>204mm</div><div>60mm</div></div> | <div><div>121mm</div><div>60mm</div></div> | <div><div>110mm</div><div>54mm</div></div> |



| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|--------------|----------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC920WH | 220mm x 90mm | Rectangular duct connector | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC520WH | 204mm x 60mm | Rectangular duct connector | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC420WH | 121mm x 60mm | Rectangular duct connector | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC020WH | 110mm x 54mm | Rectangular duct connector | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |



RECTANGULAR DUCT CLIP

- Duct clips are an effective part of the overall duct system and quickly fasten into place.
- Duct clips securely hold duct runs and prevent them from boding.

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 121MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|----------------------|----------------------|----------------------|----------------------|
| <div>220mm90mm</div> | <div>204mm60mm</div> | <div>121mm60mm</div> | <div>110mm54mm</div> |

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR |
|------------|--------------|---------------------------------------|--------------------------------|--------|
| PVC922WH | 220mm x 90mm | 2 x Z-shape rectangular channel clips | HIPS (High Impact Polystyrene) | White |
| PVC122-5WH | 204mm x 60mm | 2 x Z-shape rectangular channel clips | HIPS (High Impact Polystyrene) | White |
| PVC422WH | 121mm x 60mm | Complete rectangular channel clip | HIPS (High Impact Polystyrene) | White |
| PVC122WH | 110mm x 54mm | 1x U-shape rectangular channel clip | HIPS (High Impact Polystyrene) | White |

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR |
|------------|--------------|------------------------------------|--------------------------------|--------|
| PVC422WH-V | 121mm x 60mm | One half rectangular channel clip* | HIPS (High Impact Polystyrene) | White |
| PVC122WH-V | 110mm x 54mm | One half rectangular channel clip* | HIPS (High Impact Polystyrene) | White |

*Two components per fitting required



PIONEERING NEW AIR TECHNOLOGY

90° HORIZONTAL BEND

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 121MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|----------------------|----------------------|----------------------|----------------------|
| <div>220mm90mm</div> | <div>204mm60mm</div> | <div>121mm60mm</div> | <div>110mm54mm</div> |

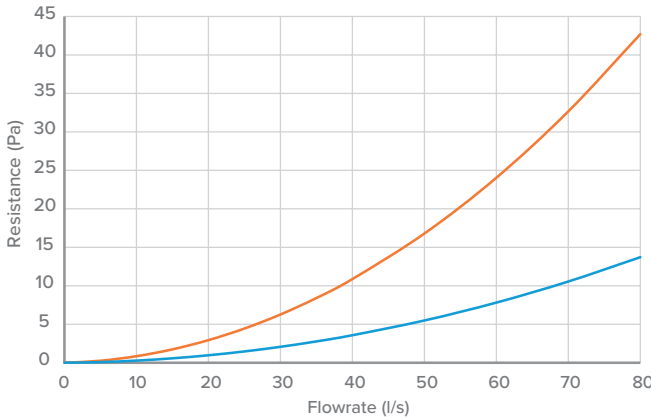


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|--------------|---------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC950WH | 220mm x 90mm | 90° horizontal bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC550WH | 204mm x 60mm | 90° horizontal bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC450WH | 121mm x 60mm | 90° horizontal bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC050WH | 110mm x 54mm | 90° horizontal bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC950WH | 220mm x 90mm | 0.1 | 0.3 | 0.6 | 1.0 | 1.5 | 2.1 | 2.8 | 3.6 | 5.5 | 7.8 | 10.6 | 13.7 |
| PVC550WH | 204mm x 60mm | 0.3 | 0.9 | 1.7 | 2.9 | 4.4 | 6.3 | 8.4 | 10.9 | 16.8 | 24.0 | 32.7 | 42.7 |

| 220MM X 90MM SYSTEM |
|----------------------|
| <div>220mm90mm</div> |
| 204MM X 60MM SYSTEM |
| <div>204mm60mm</div> |

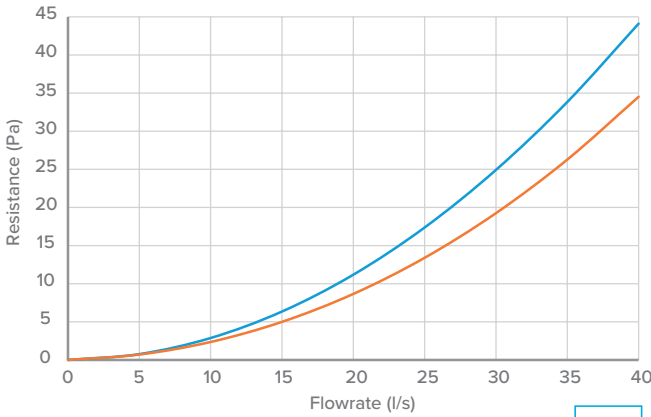
- 220x90mm
- 204x60mm



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC450WH | 121mm x 60mm | 0.8 | 2.9 | 6.3 | 11.2 | 17.4 | 24.9 | 33.8 | 44.1 |
| PVC050WH | 110mm x 54mm | 0.7 | 2.4 | 5.0 | 8.7 | 13.4 | 19.3 | 26.2 | 34.5 |

| 121MM X 60MM SYSTEM |
|----------------------|
| <div>121mm60mm</div> |
| 110MM X 54MM SYSTEM |
| <div>110mm54mm</div> |

- 121x60mm
- 110x54mm





90° VERTICAL BEND

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 121MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <div>220mm</div> <div>90mm</div> | <div>204mm</div> <div>60mm</div> | <div>121mm</div> <div>60mm</div> | <div>110mm</div> <div>54mm</div> |



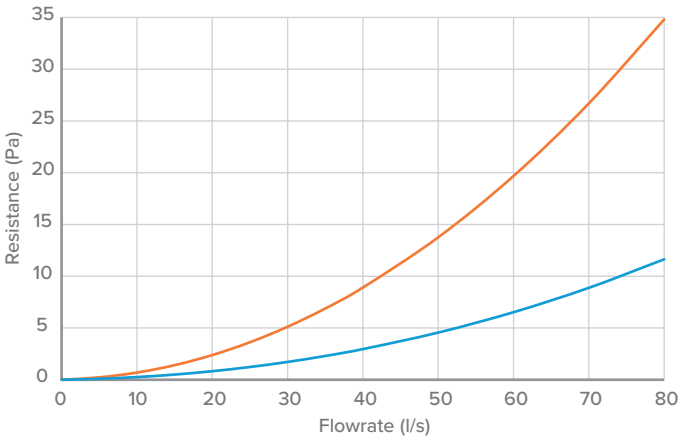
| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|--------------|-------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC960WH | 220mm x 90mm | 90° vertical bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC560WH | 204mm x 60mm | 90° vertical bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC460WH | 121mm x 60mm | 90° vertical bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC060WH | 110mm x 54mm | 90° vertical bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC960WH | 220mm x 90mm | 0.1 | 0.3 | 0.5 | 0.8 | 1.2 | 1.7 | 2.3 | 3.0 | 4.6 | 6.5 | 8.9 | 11.6 |
| PVC560WH | 204mm x 60mm | 0.2 | 0.7 | 1.4 | 2.4 | 3.6 | 5.1 | 6.9 | 8.9 | 13.8 | 19.7 | 26.7 | 34.8 |

| 220MM X 90MM SYSTEM |
|----------------------------------|
| <div>220mm</div> <div>90mm</div> |

| 204MM X 60MM SYSTEM |
|----------------------------------|
| <div>204mm</div> <div>60mm</div> |

- 220x90mm
- 204x60mm

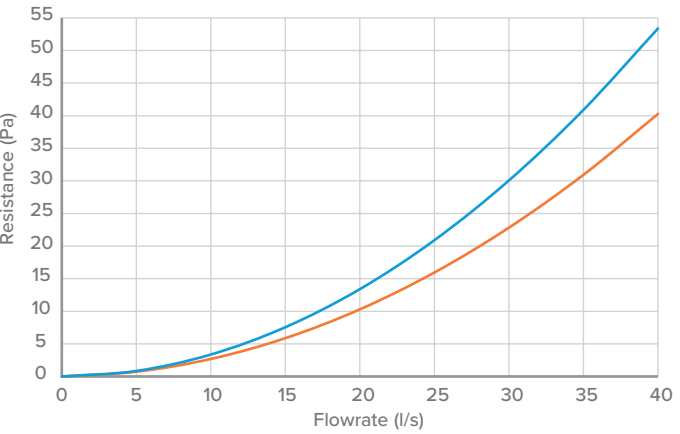


| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC460WH | 121mm x 60mm | 0.8 | 3.4 | 7.6 | 13.4 | 20.9 | 30.1 | 40.9 | 53.4 |
| PVC060WH | 110mm x 54mm | 0.7 | 2.7 | 5.9 | 10.3 | 15.9 | 22.8 | 30.9 | 40.3 |

| 121MM X 60MM SYSTEM |
|----------------------------------|
| <div>121mm</div> <div>60mm</div> |

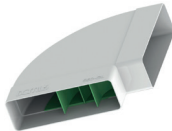
| 110MM X 54MM SYSTEM |
|----------------------------------|
| <div>110mm</div> <div>54mm</div> |

- 121x60mm
- 110x54mm



90° HORIZONTAL GREEN LINE BEND

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM |
|----------------------------------|----------------------------------|
| <div>220mm</div> <div>90mm</div> | <div>204mm</div> <div>60mm</div> |



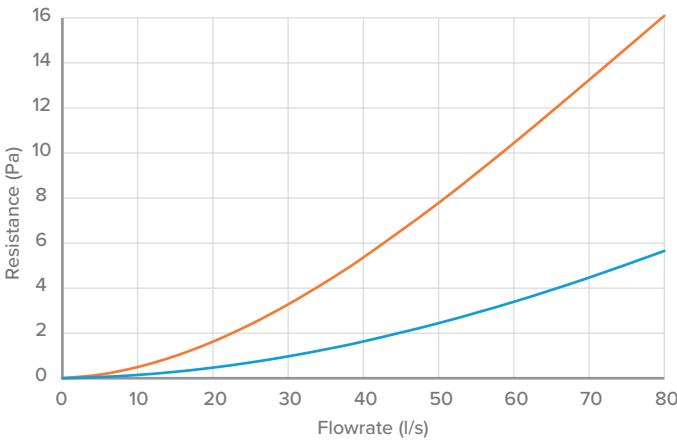
| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|--------------|------------------------------------------------|------------|--------------------------------------------------|--------|---------------------|-----------------|
| PVC950WH-GL | 220mm x 90mm | 90° horizontal high efficiency green line bend | Female | Injection Moulded HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC550WH-GL | 204mm x 60mm | 90° horizontal high efficiency green line bend | Female | Injection Moulded HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC950WH-GL | 220mm x 90mm | 0.1 | 0.1 | 0.3 | 0.5 | 0.7 | 1.0 | 1.3 | 1.6 | 2.4 | 3.4 | 4.5 | 5.7 |
| PVC550WH-GL | 204mm x 60mm | 0.2 | 0.5 | 1.0 | 1.6 | 2.4 | 3.3 | 4.3 | 5.4 | 7.8 | 10.4 | 13.2 | 16.1 |

| 220MM X 90MM SYSTEM |
|----------------------------------|
| <div>220mm</div> <div>90mm</div> |

| 204MM X 60MM SYSTEM |
|----------------------------------|
| <div>204mm</div> <div>60mm</div> |

- 220x90mm
- 204x60mm





45° HORIZONTAL BEND

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|----------------------------------|----------------------------------|----------------------------------|
| <div>220mm</div> <div>90mm</div> | <div>204mm</div> <div>60mm</div> | <div>110mm</div> <div>54mm</div> |

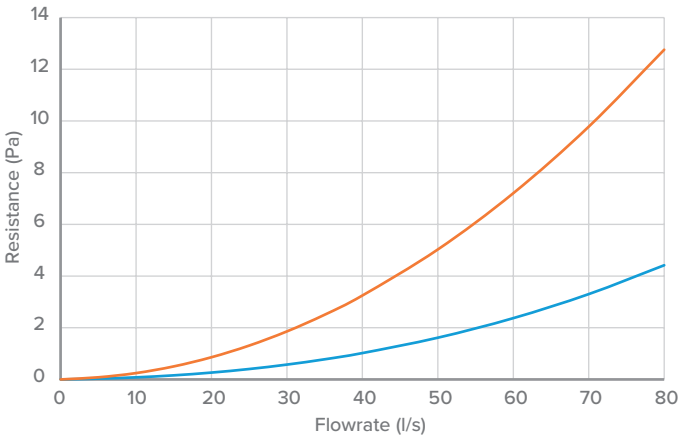


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|--------------|---------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC955WH | 220mm x 90mm | 45° horizontal bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC555WH | 204mm x 60mm | 45° horizontal bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC055WH | 110mm x 54mm | 45° horizontal bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC955WH | 220mm x 90mm | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.0 | 1.6 | 2.4 | 3.3 | 4.4 |
| PVC555WH | 204mm x 60mm | 0.1 | 0.2 | 0.5 | 0.9 | 1.3 | 1.9 | 2.5 | 3.2 | 5.0 | 7.2 | 9.8 | 12.8 |

| 220MM X 90MM SYSTEM |
|----------------------------------|
| <div>220mm</div> <div>90mm</div> |
| 204MM X 60MM SYSTEM |
| <div>204mm</div> <div>60mm</div> |

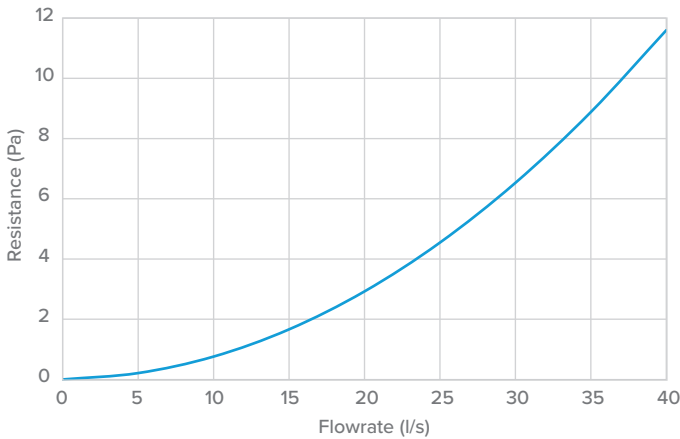
- 220x90mm
- 204x60mm



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC055WH | 110mm x 54mm | 0.2 | 0.8 | 1.7 | 2.9 | 4.5 | 6.5 | 8.9 | 11.6 |

| 110MM X 54MM SYSTEM |
|----------------------------------|
| <div>110mm</div> <div>54mm</div> |

- 110x54mm



45° VERTICAL BEND

| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|----------------------------------|----------------------------------|----------------------------------|
| <div>220mm</div> <div>90mm</div> | <div>204mm</div> <div>60mm</div> | <div>110mm</div> <div>54mm</div> |

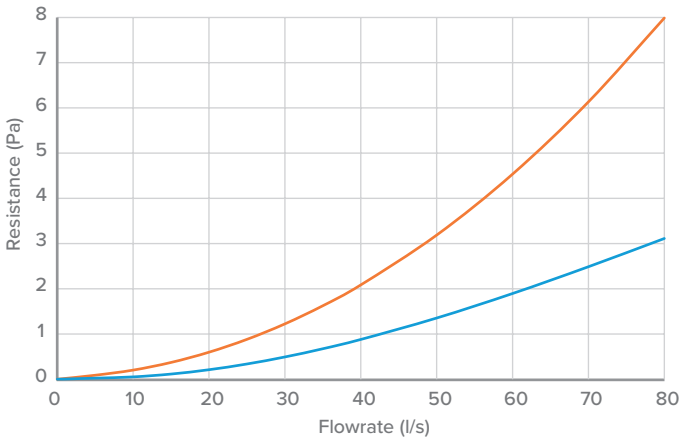


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|--------------|-------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC975WH | 220mm x 90mm | 45° vertical bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC575WH | 204mm x 60mm | 45° vertical bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC075WH | 110mm x 54mm | 45° vertical bend | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC975WH | 220mm x 90mm | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 0.9 | 1.4 | 1.9 | 2.5 | 3.1 |
| PVC575WH | 204mm x 60mm | 0.1 | 0.2 | 0.4 | 0.6 | 0.9 | 1.2 | 1.6 | 2.1 | 3.2 | 4.5 | 6.1 | 8.0 |

| 220MM X 90MM SYSTEM |
|----------------------------------|
| <div>220mm</div> <div>90mm</div> |
| 204MM X 60MM SYSTEM |
| <div>204mm</div> <div>60mm</div> |

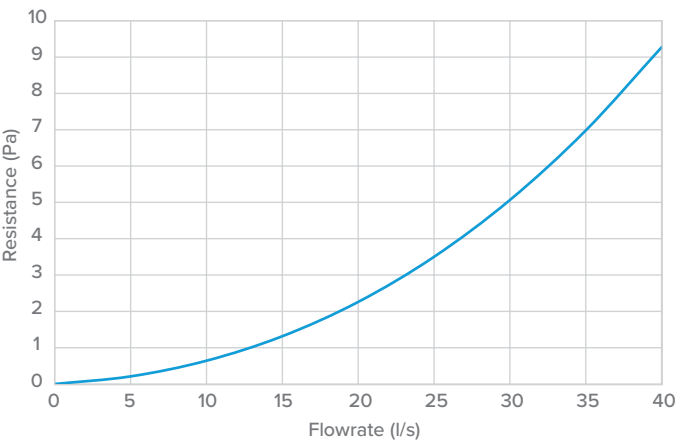
- 220x90mm
- 204x60mm



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC075WH | 110mm x 54mm | 0.2 | 0.6 | 1.3 | 2.3 | 3.5 | 5.1 | 7.0 | 9.3 |

| 110MM X 54MM SYSTEM |
|----------------------------------|
| <div>110mm</div> <div>54mm</div> |

- 110x54mm





HORIZONTAL T-PIECE

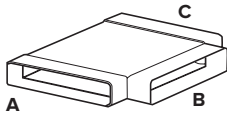
| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM |
|--------------------------------------------|--------------------------------------------|
| <div><div>220mm</div><div>90mm</div></div> | <div><div>204mm</div><div>60mm</div></div> |



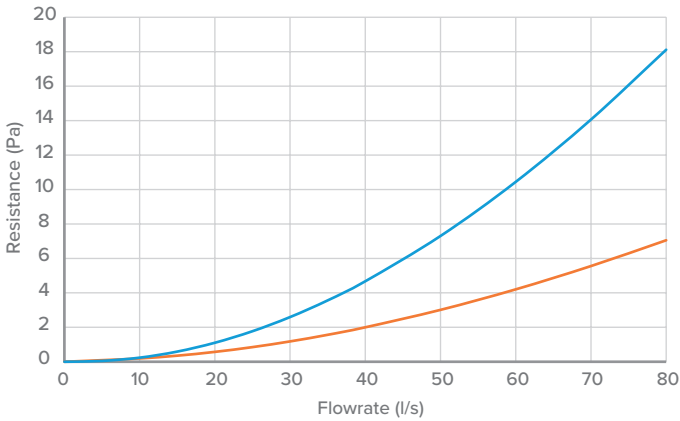
| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|--------------|--------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC982WH | 220mm x 90mm | Horizontal T-Piece | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC582WH | 204mm x 60mm | Horizontal T-Piece | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC080WH | 110mm x 54mm | Horizontal T-Piece | Female | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

| | | RESISTANCE IN Pa | | | | | | | | | | | | |
|-------------|--------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | |
| PVC982WH | 220mm x 90mm Equal T Piece A-B | 0.0 | 0.2 | 0.6 | 1.1 | 1.8 | 2.6 | 3.6 | 4.7 | 7.3 | 10.4 | 14.1 | 18.1 | |
| PVC982WH | 220mm x 90mm Equal T Piece A-C | 0.1 | 0.2 | 0.4 | 0.6 | 0.8 | 1.2 | 1.6 | 2.0 | 3.0 | 4.2 | 5.6 | 7.1 | |

| 220MM X 90MM SYSTEM |
|--------------------------------------------|
| <div><div>220mm</div><div>90mm</div></div> |

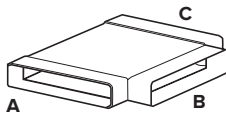


- 220x90mm Equal T Piece A-B
- 220x90mm Equal T Piece A-C

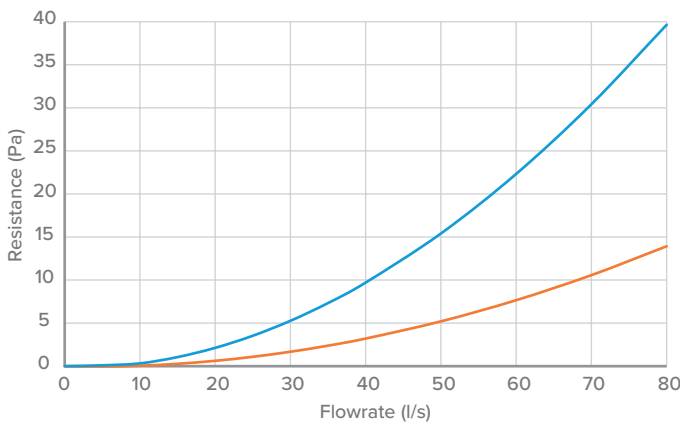


| | | RESISTANCE IN Pa | | | | | | | | | | | | |
|-------------|--------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | |
| PVC582WH | 204mm x 60mm Equal T Piece A-B | 0.1 | 0.3 | 1.1 | 2.1 | 3.5 | 5.3 | 7.3 | 9.7 | 15.4 | 22.3 | 30.4 | 39.6 | |
| PVC582WH | 204mm x 60mm Equal T Piece A-C | 0.0 | 0.1 | 0.3 | 0.6 | 1.1 | 1.7 | 2.4 | 3.2 | 5.2 | 7.7 | 10.6 | 13.9 | |

| 204MM X 60MM SYSTEM |
|--------------------------------------------|
| <div><div>204mm</div><div>60mm</div></div> |

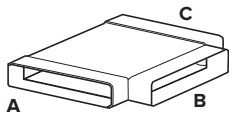


- 204x60mm Equal T Piece A-B
- 204x60mm Equal T Piece A-C

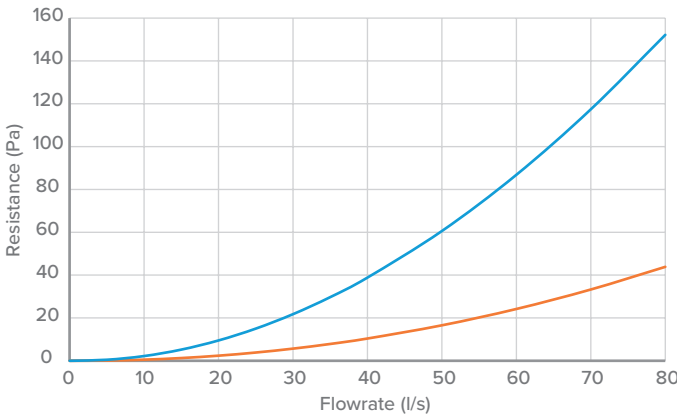


| | | RESISTANCE IN Pa | | | | | | | | | | | | |
|-------------|--------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | |
| PVC080WH | 110mm x 54mm Equal T Piece A-B | 0.5 | 2.2 | 5.2 | 9.5 | 15.0 | 21.8 | 29.7 | 38.8 | 60.6 | 86.8 | 117.4 | 152.2 | |
| PVC080WH | 110mm x 54mm Equal T Piece A-C | 0.1 | 0.5 | 1.3 | 2.4 | 3.8 | 5.7 | 7.9 | 10.4 | 16.6 | 24.2 | 33.3 | 43.9 | |

| 110MM X 54MM SYSTEM |
|--------------------------------------------|
| <div><div>110mm</div><div>54mm</div></div> |



- 110x54mm Equal T Piece A-B
- 110x54mm Equal T Piece A-C



END CAP

| 220MM X 90MM SYSTEM | 110MM X 54MM SYSTEM |
|--------------------------------------------|--------------------------------------------|
| <div><div>220mm</div><div>90mm</div></div> | <div><div>110mm</div><div>54mm</div></div> |

| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR |
|----------|--------------|--------------------|------------|--------------------------------|--------|
| PVC518WH | 204mm x 60mm | Rigid duct end cap | Male | HIPS (High Impact Polystyrene) | White |
| PVC018WH | 110mm x 54mm | Rigid duct end cap | Male | HIPS (High Impact Polystyrene) | White |

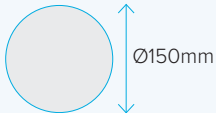


End caps provide a quick and easy way of terminating a duct run with an air tight seal.

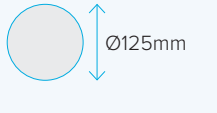
DUCTMASTER RIGID
CIRCULAR

CIRCULAR DUCT 2M LENGTH


Ø150MM SYSTEM

Ø150mm

Ø125MM SYSTEM

Ø125mm

Ø100MM SYSTEM

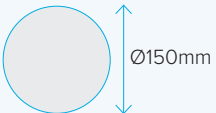
Ø100mm




| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|-----------|-------------------------------|------------|---------------|--------|---------------------|-----------------|
| PVC1200-6WH | Ø150mm | 2m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC1200-5WH | Ø125mm | 2m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC1200-4WH | Ø100mm | 2m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC1200-6WH | Ø150mm | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 | 0.9 | 1.3 | 2.0 | 2.8 | 3.8 |
| PVC1200-5WH | Ø125mm | 0.1 | 0.3 | 0.5 | 0.9 | 1.2 | 1.7 | 2.2 | 2.7 | 3.9 | 5.2 | 6.5 | 7.9 |

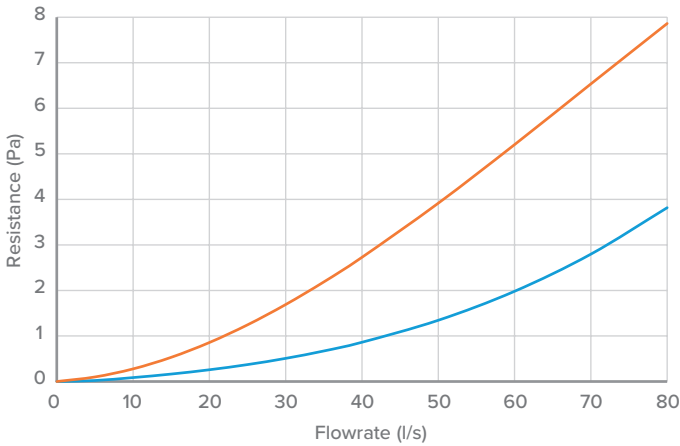
Ø150MM SYSTEM

Ø150mm

Ø125MM SYSTEM


Ø125mm

- Ø150mm
- Ø125mm

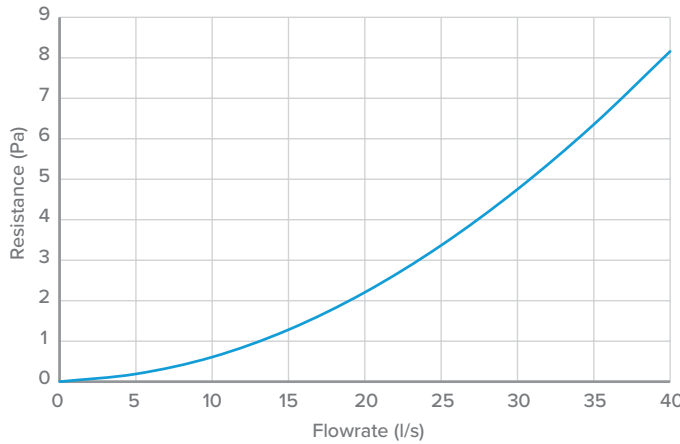


| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC1200-4WH | Ø100mm | 0.2 | 0.6 | 1.3 | 2.2 | 3.4 | 4.8 | 6.4 | 8.2 |

Ø100MM SYSTEM


Ø100mm

- Ø100mm

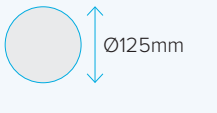


CIRCULAR DUCT 1M LENGTH


Ø150MM SYSTEM

Ø150mm

Ø125MM SYSTEM

Ø125mm

Ø100MM SYSTEM


Ø100mm




| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-------------|-----------|-------------------------------|------------|---------------|--------|---------------------|-----------------|
| PVC1100-6WH | Ø150mm | 1m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC1100-5WH | Ø125mm | 1m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC110-4WH | Ø100mm | 1m straight length of ducting | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC1100-6WH | Ø150mm | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.7 | 1.0 | 1.4 | 1.9 |
| PVC1100-5WH | Ø125mm | 0.0 | 0.1 | 0.3 | 0.4 | 0.6 | 0.8 | 1.1 | 1.4 | 2.0 | 2.6 | 3.3 | 3.9 |

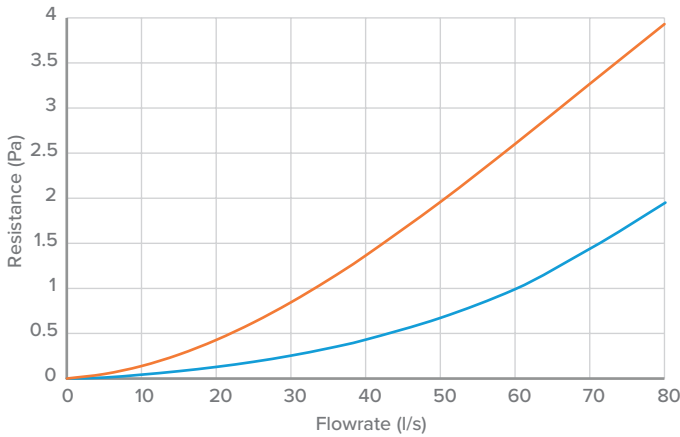
Ø150MM SYSTEM

Ø150mm

Ø125MM SYSTEM


Ø125mm

- Ø150mm
- Ø125mm

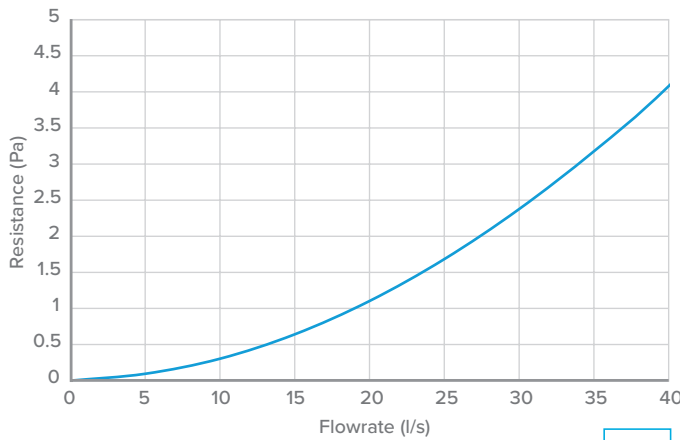


| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC1100-4WH | Ø100mm | 0.1 | 0.3 | 0.6 | 1.1 | 1.7 | 2.4 | 3.2 | 4.1 | 6.2 | 8.6 | 11.3 | 14.3 |

Ø100MM SYSTEM

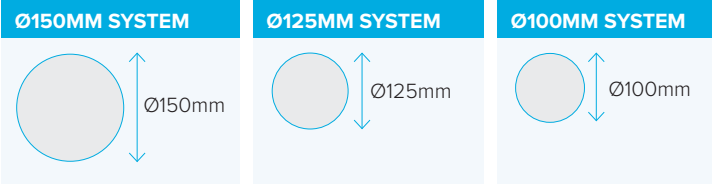
Ø100mm

- Ø100mm





TELESCOPIC ASSEMBLY DUCT



| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|-----------|--------------------------------------------|------------|---------------|--------|---------------------|-----------------|
| PVC130-6WH | Ø150mm | Telescopic straight duct length 0.25-0.45m | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC130-5WH | Ø125mm | Telescopic straight duct length 0.25-0.45m | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC130-4WH | Ø100mm | Telescopic straight duct length 0.25-0.45m | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |

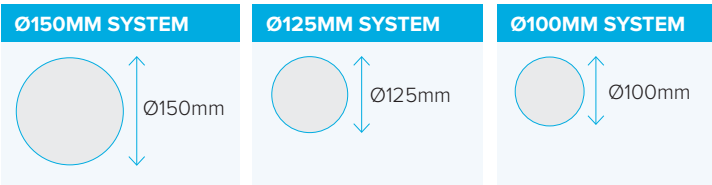
For further informaton please contact our Design Team at residentialenquiries@nuaire.co.uk

DUCT CONNECTOR

| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|--------|-----------|-------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| CON200 | Ø200mm | Straight duct connector | Female | HIPS (High Impact Polystyrene) | White | UL94-HB | ISO9001 |

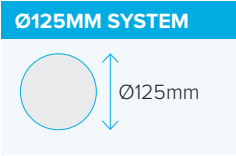
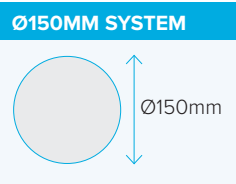


DUCT CONNECTOR

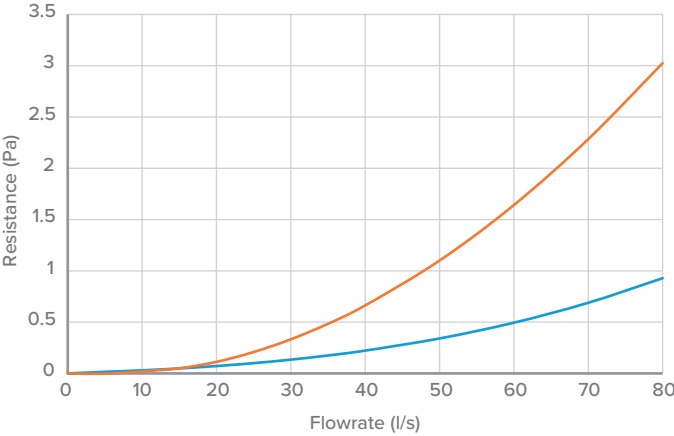


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|-------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC693WH | Ø150mm | Straight duct connector | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC593WH | Ø125mm | Straight duct connector | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC493WH | Ø100mm | Straight duct connector | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

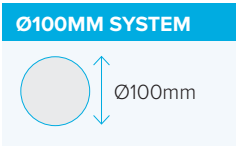
| | | RESISTANCE IN Pa | | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | |
| PVC693WH | Ø150mm | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.5 | 0.7 | 0.9 | |
| PVC593WH | Ø125mm | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 1.1 | 1.6 | 2.3 | 3.0 | |



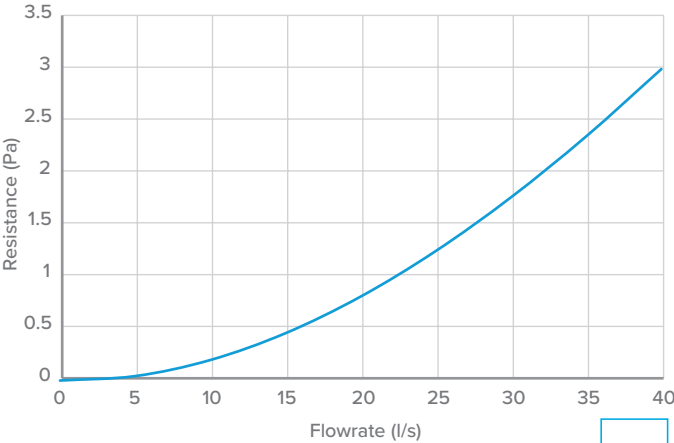
- Ø150mm
- Ø125mm



| | | RESISTANCE IN Pa | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | |
| PVC493WH | Ø100mm | 0.0 | 0.2 | 0.5 | 0.8 | 1.2 | 1.8 | 2.4 | 3.0 | |

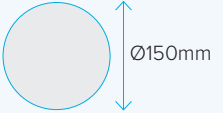
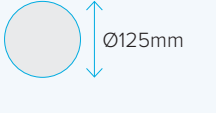
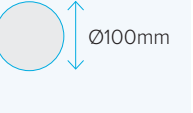


- Ø100mm





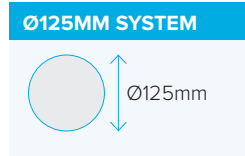
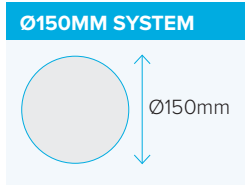
90° BEND

| Ø150MM SYSTEM | Ø125MM SYSTEM | Ø100MM SYSTEM |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |

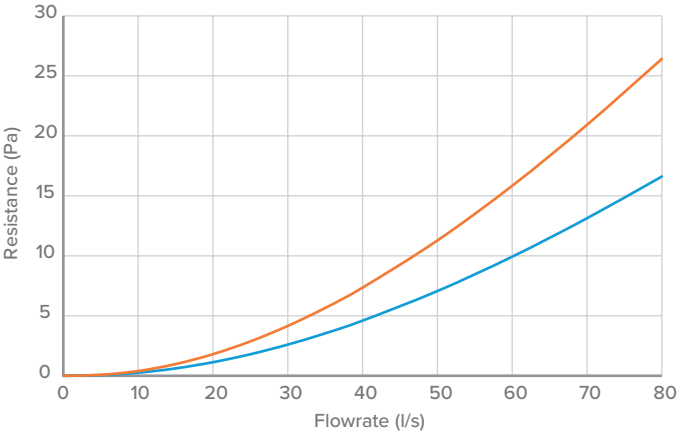


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|---------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC690WH | Ø150mm | Rigid duct 90° bend | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC590WH | Ø125mm | Rigid duct 90° bend | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC490WH | Ø100mm | Rigid duct 90° bend | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

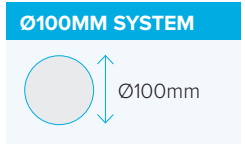
| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC690WH | Ø150mm | 0.1 | 0.3 | 0.6 | 1.1 | 1.8 | 2.6 | 3.5 | 4.6 | 7.1 | 9.9 | 13.1 | 16.6 |
| PVC590WH | Ø125mm | 0.1 | 0.4 | 1.0 | 1.8 | 2.9 | 4.2 | 5.7 | 7.3 | 11.3 | 15.8 | 20.9 | 26.4 |



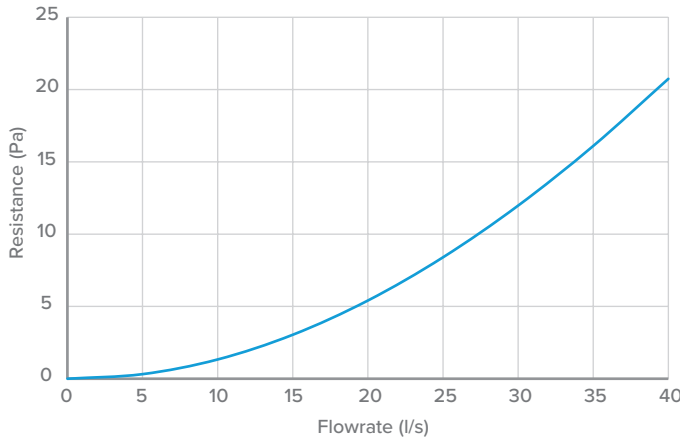
— Ø150mm
— Ø125mm



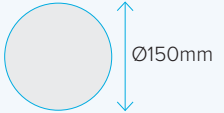
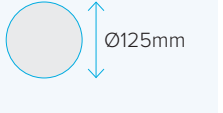
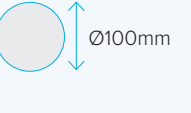
| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC490WH | Ø100mm | 0.3 | 1.3 | 3.0 | 5.4 | 8.4 | 12.0 | 16.1 | 20.7 |



— Ø100mm



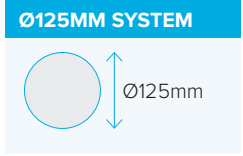
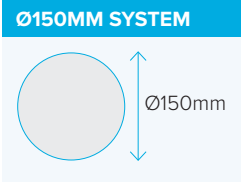
45° BEND

| Ø150MM SYSTEM | Ø125MM SYSTEM | Ø100MM SYSTEM |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |

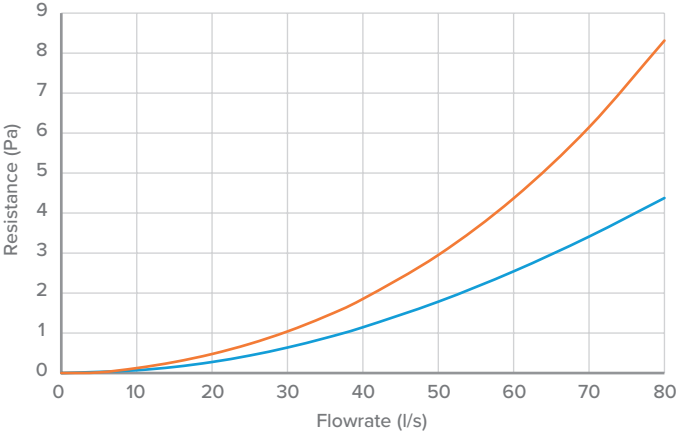


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|---------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC691WH | Ø150mm | Rigid duct 45° bend | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC591WH | Ø125mm | Rigid duct 45° bend | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC491WH | Ø100mm | Rigid duct 45° bend | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

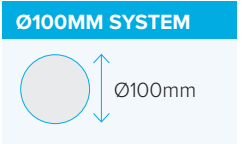
| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC691WH | Ø150mm | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.9 | 1.1 | 1.8 | 2.5 | 3.4 | 4.4 |
| PVC591WH | Ø125mm | 0.0 | 0.1 | 0.3 | 0.5 | 0.7 | 1.0 | 1.4 | 1.9 | 3.0 | 4.4 | 6.1 | 8.3 |



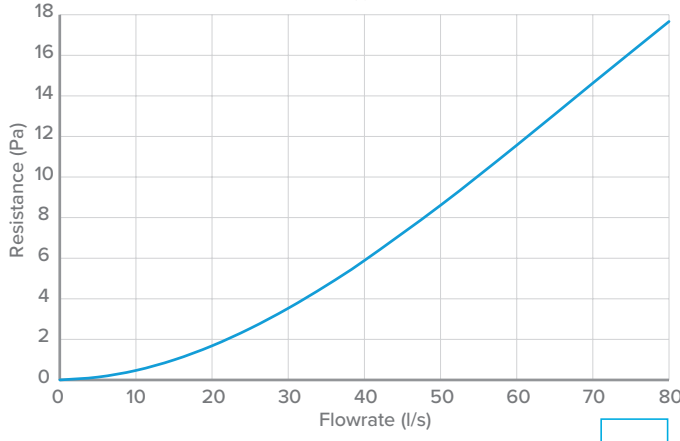
— Ø150mm
— Ø125mm



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC491WH | Ø100mm | 0.1 | 0.5 | 1.0 | 1.7 | 2.5 | 3.5 | 4.7 | 5.9 | 8.6 | 11.6 | 14.6 | 17.7 |

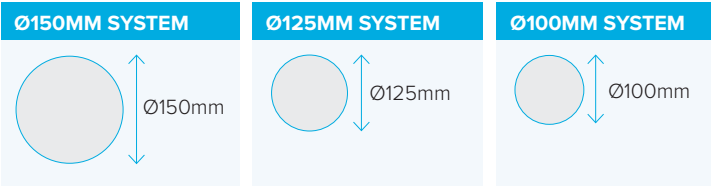


— Ø100mm



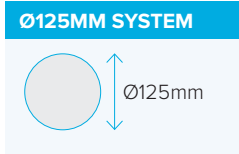
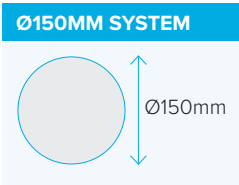


STRAIGHT CONNECTOR WITH DAMPER

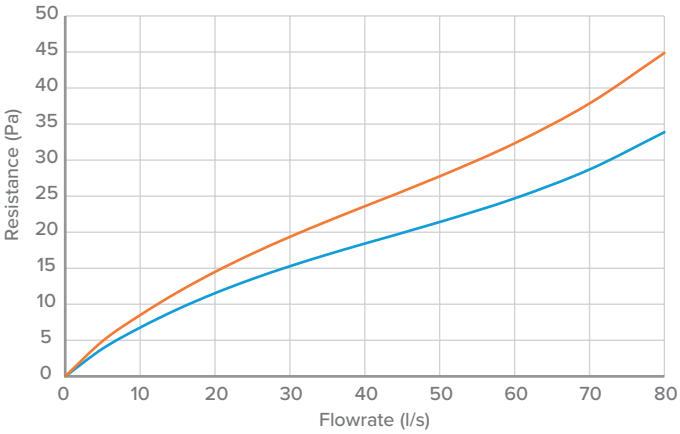


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|--------------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC694WH | Ø150mm | Straight connector with damper | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC594WH | Ø125mm | Straight connector with damper | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC494WH | Ø100mm | Straight connector with damper | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

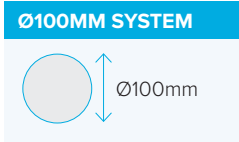
| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC694WH | Ø150mm | 3.9 | 6.8 | 9.3 | 11.5 | 13.5 | 15.3 | 16.9 | 18.4 | 21.4 | 24.7 | 28.7 | 33.9 |
| PVC594WH | Ø125mm | 4.9 | 8.5 | 11.7 | 14.5 | 17.0 | 19.4 | 21.5 | 23.6 | 27.8 | 32.3 | 37.9 | 44.9 |



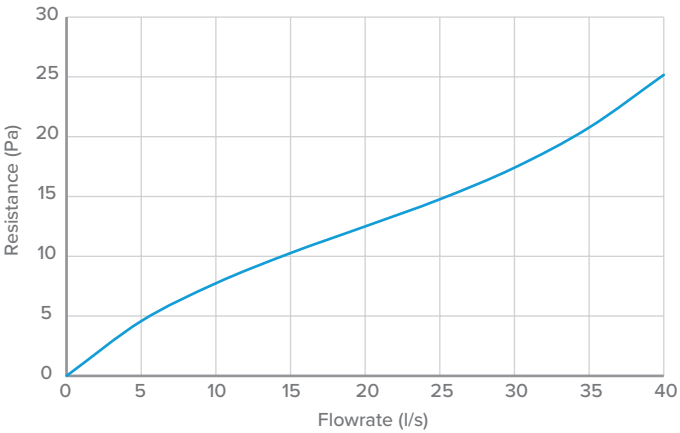
- Ø150mm
- Ø125mm



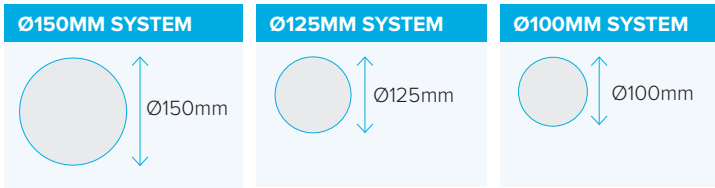
| | | RESISTANCE IN Pa | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | |
| PVC494WH | Ø100mm | 4.6 | 7.7 | 10.3 | 12.5 | 14.8 | 17.4 | 20.8 | 25.2 | |



- Ø100mm



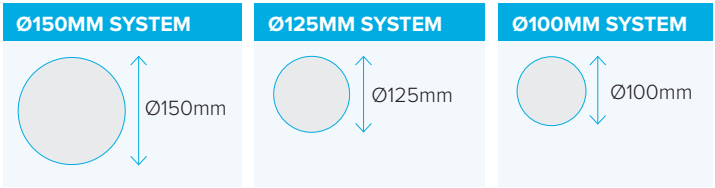
DUCT CLIP



| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR |
|----------|-----------|--------------------|--------------------------------|--------|
| PVC696WH | Ø150mm | Circular duct clip | HIPS (High Impact Polystyrene) | White |
| PVC596WH | Ø125mm | Circular duct clip | HIPS (High Impact Polystyrene) | White |
| PVC496WH | Ø100mm | Circular duct clip | HIPS (High Impact Polystyrene) | White |

- Duct clips are an effective part of the overall duct system and quickly fasten into place.
- Duct clips securely hold duct runs and prevent them from boding.

WALL PLATE



| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR |
|------------|-----------|-----------------------|--------------------------------|--------|
| PVC114-6WH | Ø150mm | Rigid duct wall plate | HIPS (High Impact Polystyrene) | White |
| PVC114-5WH | Ø125mm | Rigid duct wall plate | HIPS (High Impact Polystyrene) | White |
| PVC114-4WH | Ø100mm | Rigid duct wall plate | HIPS (High Impact Polystyrene) | White |

- For installation between the duct run and external terminal, these wall plates are a simple way to ensure the duct is securely supported and held in place.



T-PIECE

Ø150MM SYSTEM

Ø125MM SYSTEM

Ø100MM SYSTEM

| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|---------|-----------|-------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC692M | Ø150mm | T-Piece | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC592M | Ø125mm | T-Piece | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |
| PVC492M | Ø100mm | T-Piece | Male | HIPS (High Impact Polystyrene) | White | UL94HB | ISO9001 |

| | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC692WH | Ø150mm Equal T Piece A-B | 0.0 | 0.1 | 0.2 | 0.3 | 0.5 | 1.0 | 1.7 | 2.6 | 4.9 | 7.6 | 10.8 | 14.5 |
| PVC692WH | Ø150mm Equal T Piece A-C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 0.7 | 1.4 | 2.2 | 3.3 | 4.5 |

Ø150MM SYSTEM

| | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC592WH | Ø125mm Equal T Piece A-B | 0.0 | 0.1 | 0.6 | 1.4 | 2.3 | 3.6 | 5.0 | 6.6 | 10.5 | 15.3 | 20.7 | 27.0 |
| PVC592WH | Ø125mm Equal T Piece A-C | 0.01 | 0.05 | 0.1 | 0.3 | 0.6 | 0.9 | 1.2 | 1.7 | 2.7 | 4.0 | 5.6 | 7.4 |

Ø125MM SYSTEM

| | | RESISTANCE IN Pa | | | | | | | | | | | | | |
|-------------|--------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | | |
| PVC492WH | Ø100mm Equal T Piece A-B | 0.0 | 0.8 | 2.4 | 4.7 | 7.8 | 11.5 | 16.0 | 21.2 | 33.7 | 48.9 | 66.8 | 87.3 | | |
| PVC492WH | Ø100mm Equal T Piece A-C | 0.0 | 0.0 | 0.6 | 1.1 | 2.1 | 3.4 | 4.8 | 6.4 | 10.1 | 14.1 | 18.3 | 22.5 | | |

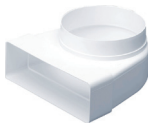
Ø100MM SYSTEM



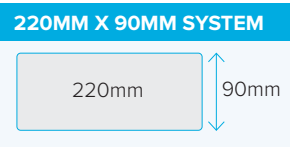
DUCTMASTER RIGID
PLENUMS

FIXED SPIGOT PLENUM, RECTANGULAR TO ROUND 220X90MM - Ø125MM

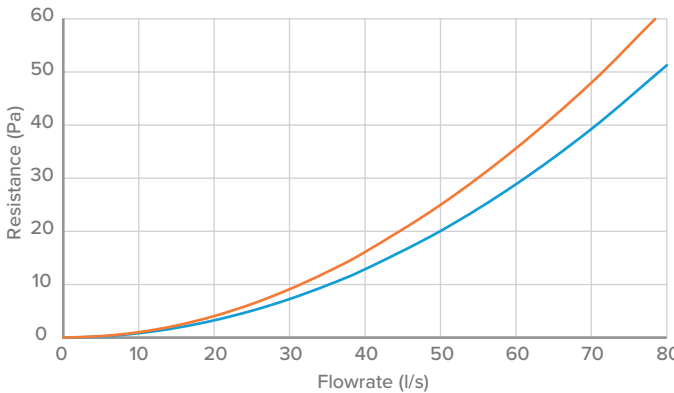
| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|---------------------|---------------|----------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC940WH | 220mm x 90mm | Ø125mm | Fixed spigot plenum | Female / Male | PVC | White | UL94HB | ISO9001 |



| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC940WH | Rect to Round | 0.2 | 0.8 | 1.8 | 3.2 | 5.1 | 7.3 | 9.9 | 12.9 | 20.1 | 28.9 | 39.3 | 51.3 |
| | Round to Rect | 0.3 | 1.0 | 2.3 | 4.1 | 6.3 | 9.1 | 12.4 | 16.1 | 25.0 | 35.6 | 48.0 | 61.9 |

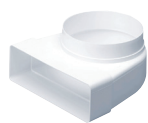


Rect to Round
Round to Rect

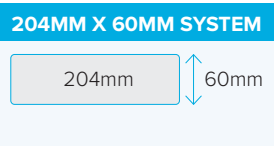


FIXED SPIGOT PLENUM, RECTANGULAR TO ROUND 204X60MM - Ø125MM

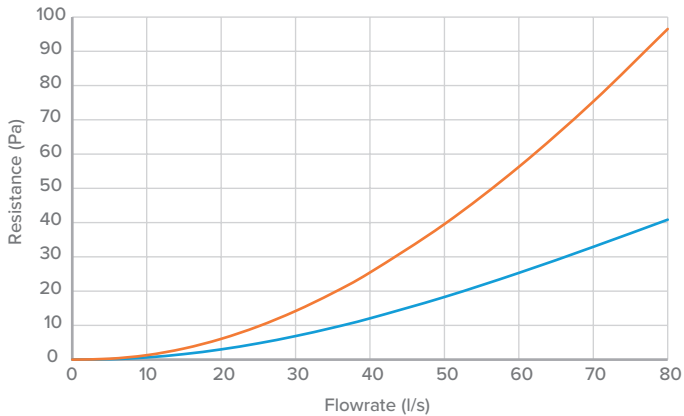
| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|---------------------|---------------|----------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC540WH | 204mm x 60mm | Ø125mm | Fixed spigot plenum | Female / Male | PVC | White | UL94HB | ISO9001 |



| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC540WH | Rect to Round | 0.1 | 0.6 | 1.6 | 3.0 | 4.8 | 6.9 | 9.3 | 12.0 | 18. | 25.3 | 32.9 | 40.9 |
| | Round to Rect | 0.3 | 1.3 | 3.2 | 6.1 | 9.7 | 14.2 | 19.4 | 25.4 | 39.5 | 56.3 | 75.3 | 96.5 |

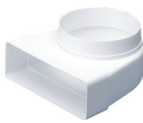


Rect to round
Round to rect

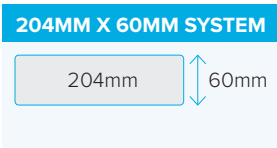


FIXED SPIGOT PLENUM, RECTANGULAR TO ROUND 204X60MM - Ø100MM

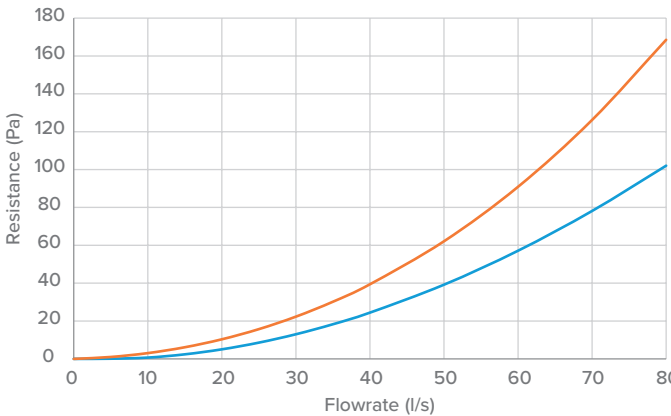
| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|---------------------|---------------|----------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC440WH | 204mm x 60mm | Ø100mm | Fixed spigot plenum | Female / Male | PVC | White | UL94HB | ISO9001 |



| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC440WH | Rect to Round | 0.1 | 0.7 | 2.4 | 5.0 | 8.6 | 13.0 | 18.3 | 24.4 | 39.2 | 57.1 | 78.1 | 102.0 |
| | Round to Rect | 1.0 | 3.1 | 6.1 | 10.3 | 15.7 | 22.3 | 30.2 | 39.4 | 62.1 | 90.9 | 126.2 | 168.5 |

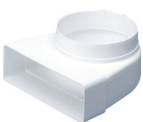


Rect to Round
Round to Rect

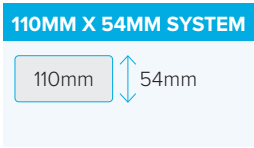


FIXED SPIGOT PLENUM, RECTANGULAR TO ROUND 110X54MM - Ø100MM

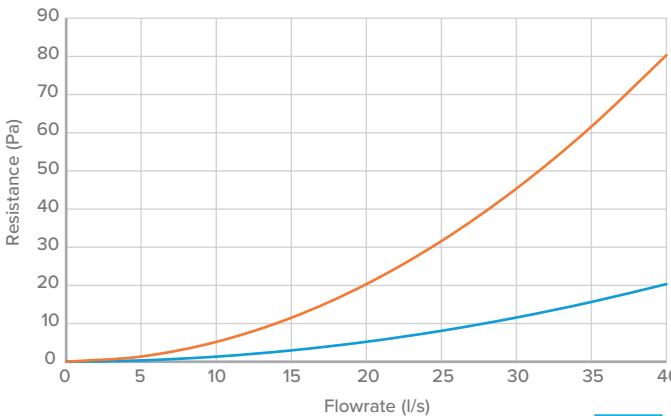
| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|---------------------|---------------|----------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC030WH | 110mm x 54mm | Ø100mm | Fixed spigot plenum | Female / Male | PVC | White | UL94HB | ISO9001 |



| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC030WH | Rect to Round | 0.3 | 1.3 | 3.0 | 5.2 | 8.1 | 11.6 | 15.7 | 20.3 |
| | Round to Rect | 1.4 | 5.2 | 11.5 | 20.3 | 31.6 | 45.4 | 61.6 | 80.3 |



Rect to Round
Round to Rect





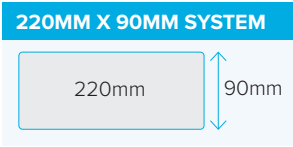
OFFSET ROTATING SPIGOT PLENUM, RECTANGULAR TO ROUND 220X90MM - Ø150MM

| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|-------------------------------|---------------|----------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC961WH | 220mm x 90mm | Ø150mm | Offset rotating spigot plenum | Female / Male | PVC | White | UL94HB | ISO9001 |

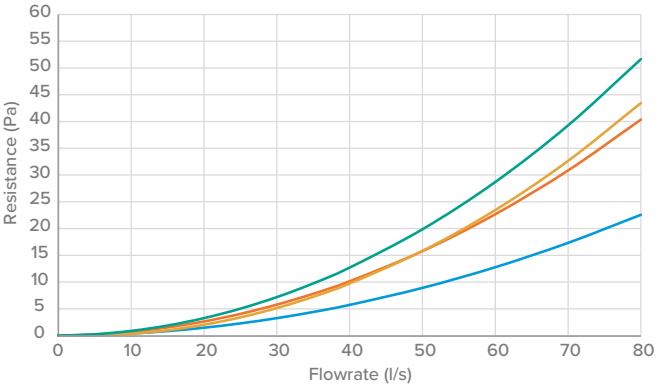


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC961WH | Intake (A) - Rect to Round | 0.1 | 0.4 | 0.8 | 1.5 | 2.3 | 3.3 | 4.4 | 5.7 | 8.9 | 12.8 | 17.3 | 22.6 |
| | Exhaust (A) - Round to Rect | 0.2 | 0.7 | 1.5 | 2.6 | 4.1 | 5.8 | 7.8 | 10.2 | 15.8 | 22.7 | 30.9 | 40.4 |
| | Intake (B) - Rect to Round | 0.0 | 0.3 | 1.0 | 2.0 | 3.4 | 5.1 | 7.3 | 9.7 | 15.8 | 23.4 | 32.6 | 43.5 |
| | Exhaust (B) - Round to Rect | 0.2 | 0.9 | 1.9 | 3.3 | 5.0 | 7.2 | 9.7 | 12.7 | 19.9 | 28.7 | 39.3 | 51.6 |

A = spigot furthest from socket B = spigot nearest to socket



- Intake (A) - Rect to Round
- Exhaust (A) - Round to Rect
- Intake (B) - Rect to Round
- Exhaust (B) - Round to Rect



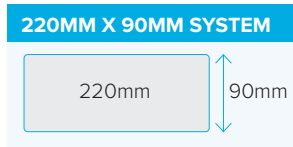
OFFSET ROTATING SPIGOT PLENUM, RECTANGULAR TO ROUND 220X90MM - Ø100MM

| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|-------------------------------|---------------|----------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC941WH | 220mm x 90mm | Ø100mm | Offset rotating spigot plenum | Female / Male | PVC | White | UL94HB | ISO9001 |

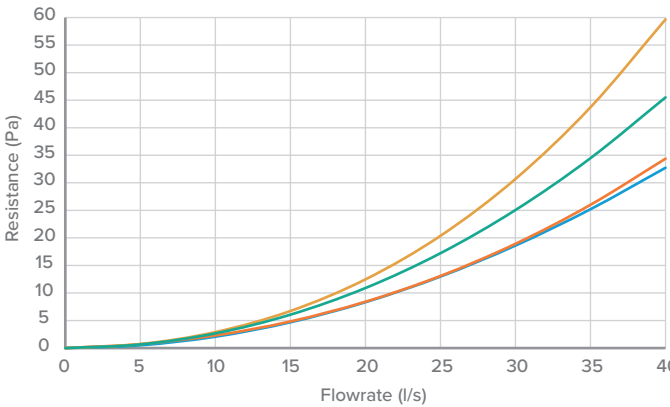


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | |
|-------------|-----------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC941WH | Intake (A) - Rect to Round | 0.5 | 2.1 | 4.7 | 8.3 | 13.0 | 18.6 | 25.2 | 32.7 |
| | Exhaust (A) - Round to Rect | 0.7 | 2.3 | 4.8 | 8.4 | 13.1 | 18.9 | 26.0 | 34.4 |
| | Intake (B) - Rect to Round | 0.7 | 2.9 | 6.7 | 12.5 | 20.4 | 30.7 | 43.7 | 59.7 |
| | Exhaust (B) - Round to Rect | 0.7 | 2.7 | 6.1 | 10.9 | 17.2 | 25.1 | 34.5 | 45.5 |

A = spigot furthest from socket B = spigot nearest to socket



- Intake (A) - Rect to Round
- Exhaust (A) - Round to Rect
- Intake (B) - Rect to Round
- Exhaust (B) - Round to Rect



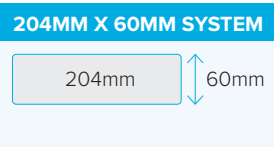
OFFSET ROTATING SPIGOT PLENUM, RECTANGULAR TO ROUND 204X60MM - Ø150MM

| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|-------------------------------|---------------|----------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC641WH | 204mm x 60mm | Ø150mm | Offset rotating spigot plenum | Female / Male | PVC | White | UL94HB | ISO9001 |

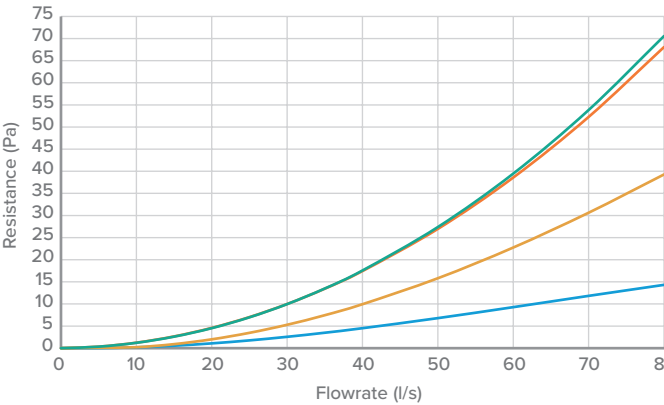


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC641WH | Intake (A) - Rect to Round | 0.0 | 0.2 | 0.6 | 1.1 | 1.8 | 2.6 | 3.5 | 4.5 | 6.8 | 9.3 | 11.8 | 14.3 |
| | Exhaust (A) - Round to Rect | 0.3 | 1.2 | 2.7 | 4.6 | 7.0 | 10.0 | 13.5 | 17.4 | 27.0 | 38.6 | 52.3 | 68.1 |
| | Intake (B) - Rect to Round | 0.1 | 0.2 | 0.9 | 2.0 | 3.5 | 5.3 | 7.5 | 9.9 | 15.8 | 22.8 | 30.6 | 39.3 |
| | Exhaust (B) - Round to Rect | 0.3 | 1.2 | 2.6 | 4.5 | 7.0 | 10.0 | 13.5 | 17.6 | 27.4 | 39.5 | 53.8 | 70.6 |

A = spigot furthest from socket B = spigot nearest to socket

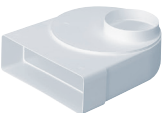


- Intake (A) - Rect to Round
- Exhaust (A) - Round to Rect
- Intake (B) - Rect to Round
- Exhaust (B) - Round to Rect



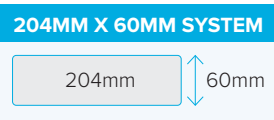
OFFSET ROTATING SPIGOT PLENUM, RECTANGULAR TO ROUND 204X60MM - Ø125MM

| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|-------------------------------|---------------|----------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC541WH | 204mm x 60mm | Ø125mm | Offset rotating spigot plenum | Female / Male | PVC | White | UL94HB | ISO9001 |

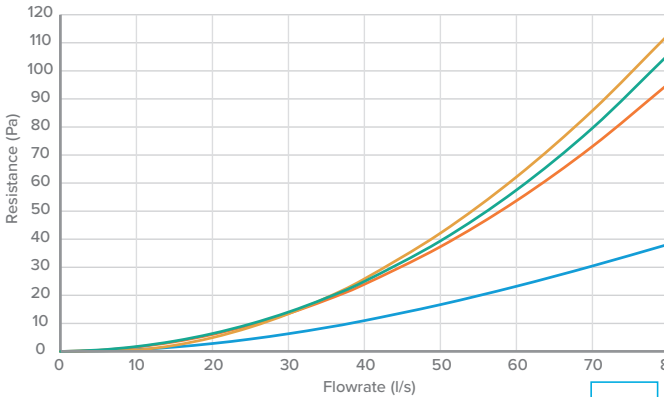


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC541WH | Intake (A) - Rect to Round | 0.2 | 0.7 | 1.6 | 2.8 | 4.4 | 6.3 | 8.5 | 11.0 | 16.7 | 23.2 | 30.5 | 38.2 |
| | Exhaust (A) - Round to Rect | 0.4 | 1.6 | 3.4 | 6.1 | 9.4 | 13.5 | 18.4 | 23.9 | 37.3 | 53.7 | 73.1 | 95.4 |
| | Intake (B) - Rect to Round | 0.2 | 0.5 | 2.2 | 4.9 | 8.7 | 13.4 | 19.2 | 25.9 | 42.2 | 62.2 | 85.8 | 112.9 |
| | Exhaust (B) - Round to Rect | 0.5 | 1.8 | 3.7 | 6.4 | 9.8 | 14.0 | 19.1 | 25.0 | 39.4 | 57.5 | 79.6 | 105.8 |

A = spigot furthest from socket B = spigot nearest to socket



- Intake (A) - Rect to Round
- Exhaust (A) - Round to Rect
- Intake (B) - Rect to Round
- Exhaust (B) - Round to Rect



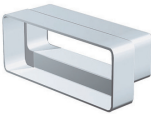


DUCTMASTER RIGID

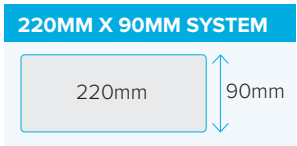
ADAPTING PIECES

IN-LINE ADAPTER, RECTANGULAR TO RECTANGULAR 220X90MM - 204X60MM

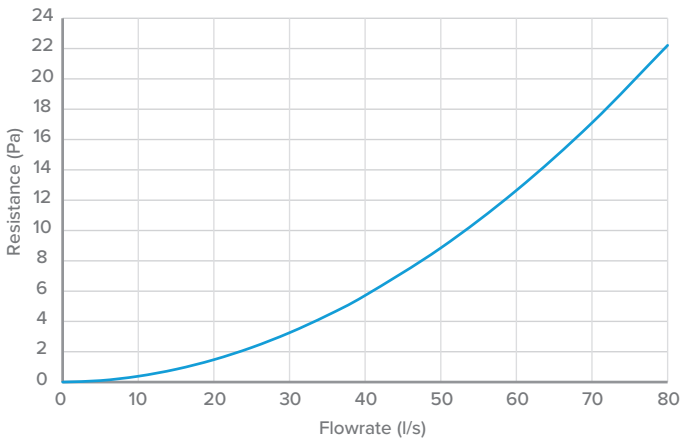
| CODE | DUCT SIZE | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|--------------|--------------|--------------------------------------------|---------------|----------|--------|---------------------|-----------------|
| PVC957WH | From | To | In-line adapter rectangular to rectangular | Duct / Female | PVC | White | UL94HB | ISO9001 |
| | 220mm x 90mm | 204mm x 60mm | | | | | | |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC957WH | From | To | 0.1 | 0.4 | 0.8 | 1.5 | 2.3 | 3.3 | 4.4 | 5.7 | 8.8 | 12.6 | 17.1 | 22.2 |
| | 220mm x 90mm | 204mm x 60mm | | | | | | | | | | | | |



— 220x90mm

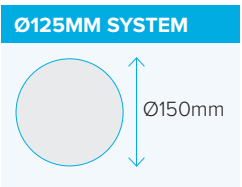


IN-LINE ROUND REDUCER Ø150MM - Ø125MM

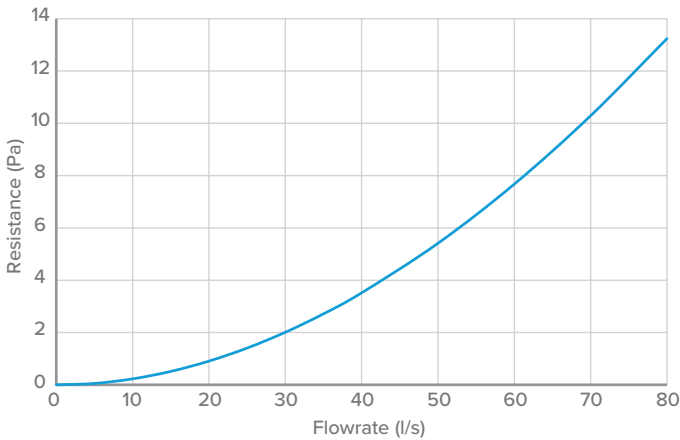
| CODE | DUCT SIZE | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|--------|--------------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC118WH | From | To | In-line round PVC duct reducer | Female | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |
| | Ø150mm | Ø125mm | | | | | | |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC118WH | From | To | 0.1 | 0.2 | 0.5 | 0.9 | 1.4 | 2.0 | 2.7 | 3.5 | 5.4 | 7.7 | 10.3 | 13.2 |
| | Ø150mm | Ø125mm | | | | | | | | | | | | |



— Ø150mm - Ø125mm

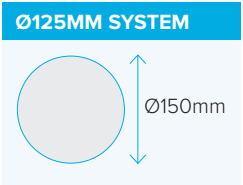


IN-LINE ROUND REDUCER Ø150MM - Ø100MM

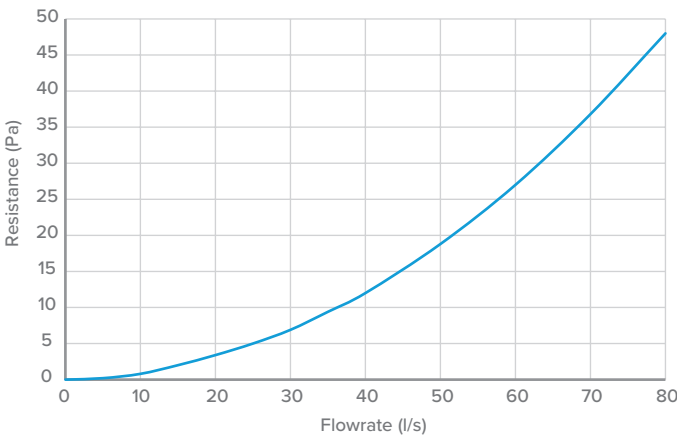
| CODE | DUCT SIZE | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|--------|--------------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC619WH | From | To | In-line round PVC duct reducer | Female | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |
| | Ø150mm | Ø100mm | | | | | | |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC619WH | From | To | 0.2 | 0.8 | 2.0 | 3.4 | 5.0 | 6.9 | 9.4 | 12.0 | 18.8 | 27.0 | 36.8 | 48.0 |
| | Ø150mm | Ø100mm | | | | | | | | | | | | |



— Ø150mm - Ø100mm

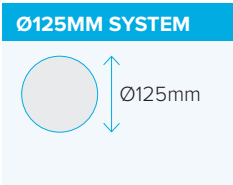


IN-LINE ROUND REDUCER Ø125MM - Ø100MM

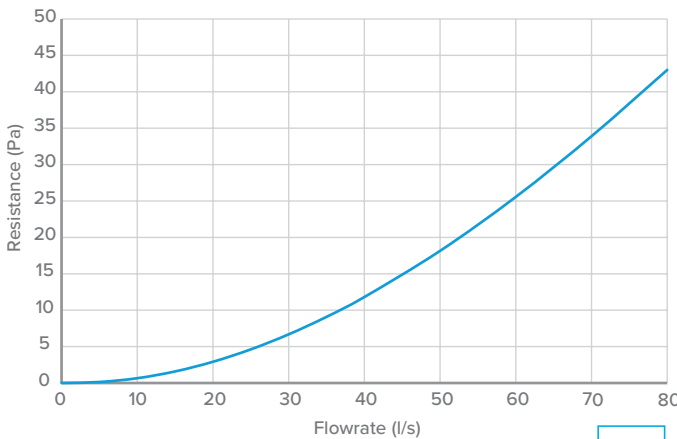
| CODE | DUCT SIZE | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|--------|--------------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC119WH | From | To | In-line round PVC duct reducer | Female | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |
| | Ø125mm | Ø100mm | | | | | | |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC119WH | From | To | 0.1 | 0.7 | 1.6 | 2.9 | 4.6 | 6.7 | 9.1 | 11.8 | 18.2 | 25.6 | 33.9 | 43.0 |
| | Ø125mm | Ø100mm | | | | | | | | | | | | |



— Ø125mm - Ø100mm



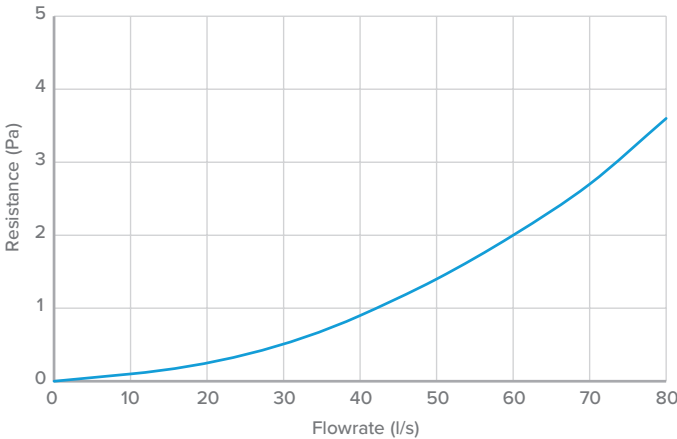
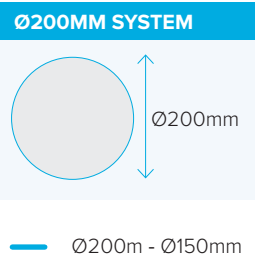


STEEL ROUND REDUCER Ø200MM - Ø150MM

| CODE | DUCT SIZE | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|-----------|--------|----------------------------------|------------|----------|--------|---------------------|-----------------|
| RED200X150 | From | To | In-line round steel duct reducer | Male | Steel | Steel | - | ISO9001 |
| | Ø200mm | Ø150mm | | | | | | |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| RED200X150 | From | To | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 | 0.9 | 1.4 | 2.0 | 2.7 | 3.6 |
| | Ø200mm | Ø150mm | | | | | | | | | | | | |

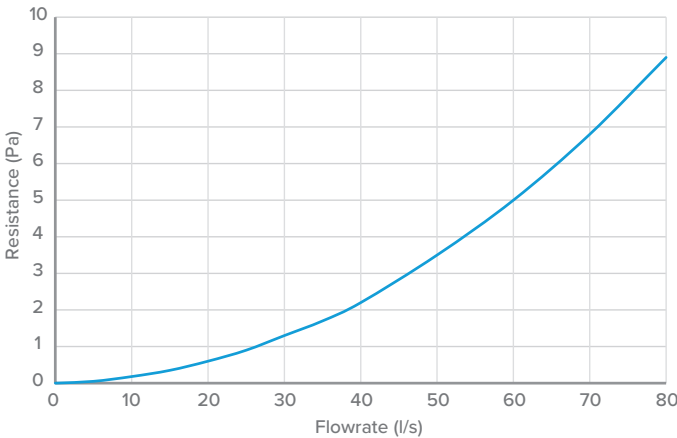
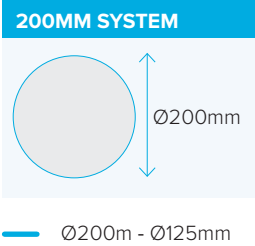


STEEL ROUND REDUCER Ø200MM - Ø125MM

| CODE | DUCT SIZE | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|-----------|--------|----------------------------------|------------|----------|--------|---------------------|-----------------|
| RED200X125 | From | To | In-line round steel duct reducer | Male | Steel | Steel | - | ISO9001 |
| | Ø200mm | Ø125mm | | | | | | |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| RED200X125 | From | To | 0.1 | 0.2 | 0.4 | 0.6 | 0.9 | 1.3 | 1.7 | 2.2 | 3.5 | 5.0 | 6.8 | 8.9 |
| | Ø200mm | Ø125mm | | | | | | | | | | | | |

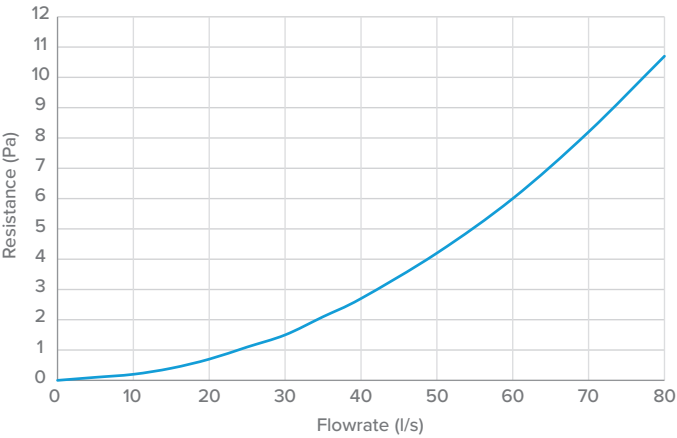
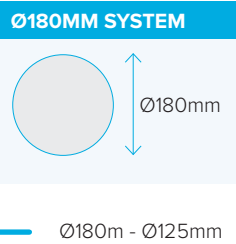


STEEL ROUND REDUCER Ø180MM - Ø125MM

| CODE | DUCT SIZE | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|-----------|--------|----------------------------------|------------|----------|--------|---------------------|-----------------|
| RED180X125 | From | To | In-line round steel duct reducer | Male | Steel | Steel | - | ISO9001 |
| | Ø180mm | Ø125mm | | | | | | |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| RED180X125 | From | To | 0.1 | 0.2 | 0.4 | 0.7 | 1.1 | 1.5 | 2.1 | 2.7 | 4.2 | 6.0 | 8.2 | 10.7 |
| | Ø180mm | Ø125mm | | | | | | | | | | | | |

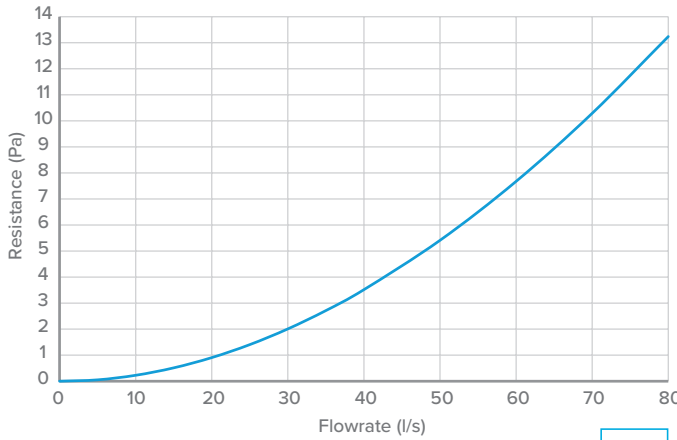
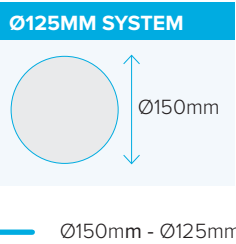


STEEL ROUND REDUCER Ø150MM - Ø125MM

| CODE | DUCT SIZE | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|-----------|--------|----------------------------------|------------|----------|--------|---------------------|-----------------|
| RED150X125 | From | To | In-line round steel duct reducer | Male | Steel | Steel | - | ISO9001 |
| | Ø150mm | Ø125mm | | | | | | |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| RED150X125 | From | To | 0.1 | 0.2 | 0.5 | 0.9 | 1.4 | 2.0 | 2.7 | 3.5 | 5.4 | 7.7 | 10.3 | 13.2 |
| | Ø150mm | Ø125mm | | | | | | | | | | | | |





STEEL ROUND REDUCER Ø125MM - Ø100MM

| CODE | DUCT SIZE | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|------------|-----------|--------|----------------------------------|------------|----------|--------|---------------------|-----------------|
| RED125X100 | From | To | In-line round steel duct reducer | Male | Steel | Steel | - | ISO9001 |
| | Ø125mm | Ø100mm | | | | | | |

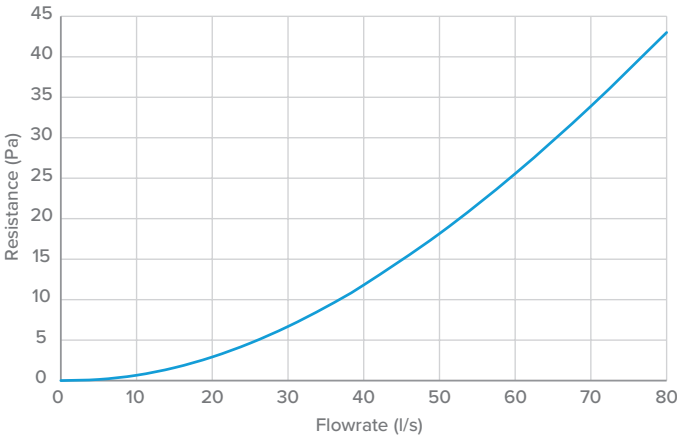


| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| RED125X100 | From | To | 0.1 | 0.7 | 1.6 | 2.9 | 4.6 | 6.7 | 9.1 | 11.8 | 18.2 | 25.6 | 33.9 | 43.0 |
| | Ø125mm | Ø100mm | | | | | | | | | | | | |

Ø125MM SYSTEM



— Ø125mm - Ø100mm



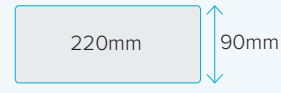
IN-LINE ADAPTER, RECTANGULAR TO ROUND 220X90MM - Ø150MM

| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|--------------------------------------|-----------------|----------|--------|---------------------|-----------------|
| PVC970WH | From | To | In-line adapter rectangular to round | Female / Female | PVC | White | UL94HB | ISO9001 |
| | 220mm x 90mm | Ø150mm | | | | | | |

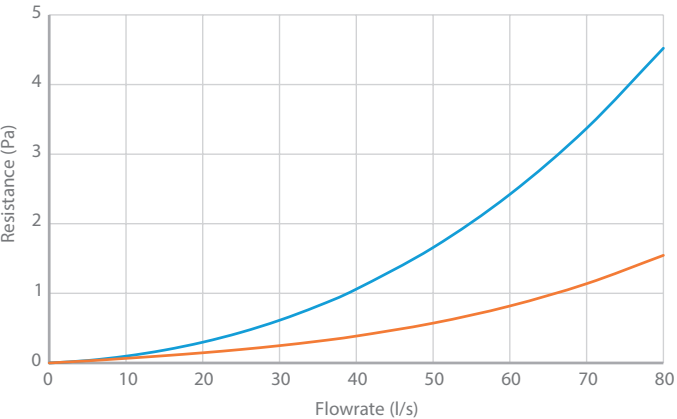


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC970WH | Rect to Round | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.1 | 1.7 | 2.4 | 3.4 | 4.5 |
| | Round to Rect | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.8 | 1.1 | 1.5 |

220MM X 90MM SYSTEM



— 220x90mm Rect to Round
— 220x90mm Round to Rect



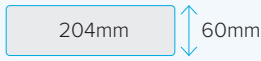
IN-LINE ADAPTER, RECTANGULAR TO ROUND 204X60MM - Ø125MM

| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|--------------------------------------|-----------------|----------|--------|---------------------|-----------------|
| PVC570WH | From | To | In-line adapter rectangular to round | Female / Female | PVC | White | UL94HB | ISO9001 |
| | 204mm x 60mm | Ø125mm | | | | | | |

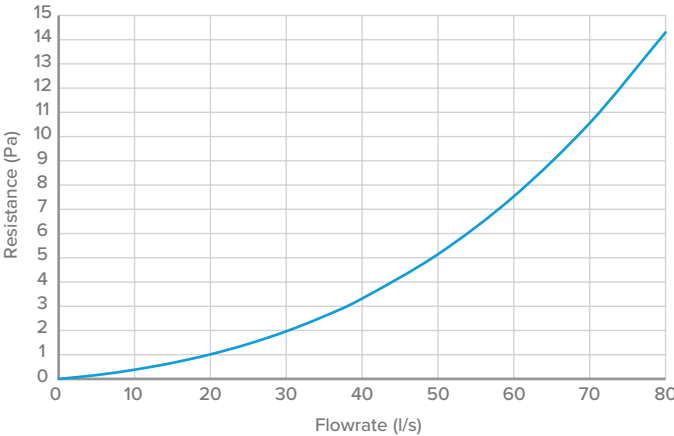


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC570WH | Rect to Round | 0.2 | 0.4 | 0.7 | 1.0 | 1.4 | 2.0 | 2.6 | 3.3 | 5.1 | 7.5 | 10.6 | 14.3 |

204MM X 60MM SYSTEM



— 204x60m Rect to Round



IN-LINE ADAPTER, RECTANGULAR TO ROUND 204X60MM - Ø100MM

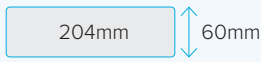
| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|--------------------------------------|-------------|----------|--------|---------------------|-----------------|
| PVC073WH | From | To | In-line adapter rectangular to round | Duct / Male | PVC | White | UL94HB | ISO9001 |
| | 204mm x 60mm* | Ø100mm | | | | | | |



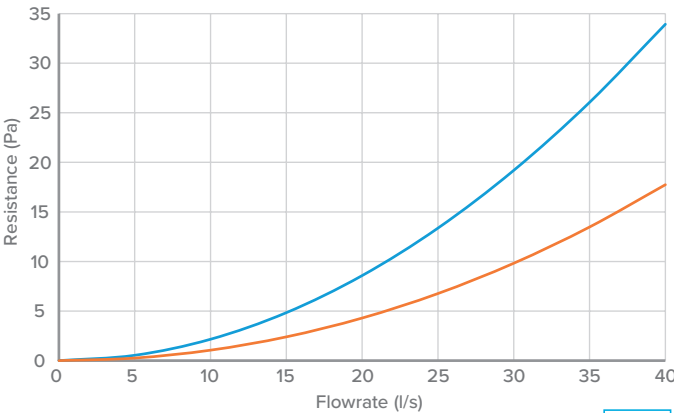
* To Single Air brick

| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC073WH | Rect to Round | 0.5 | 2.2 | 4.8 | 8.6 | 13.4 | 19.2 | 26.1 | 33.9 |
| | Round to Rect | 0.3 | 1.1 | 2.4 | 4.3 | 6.8 | 9.8 | 13.5 | 17.7 |

204MM X 60MM SYSTEM




— 204x60mm Rect to Round
— 204x60mm Round to Rect





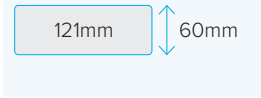
IN-LINE ADAPTER, RECTANGULAR TO ROUND 121X60MM - Ø100MM

| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|--------------------------------------|-----------------|--------------------------------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC470WH | 121mm x 60mm | Ø100mm | In-line adapter rectangular to round | Female / Female | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |

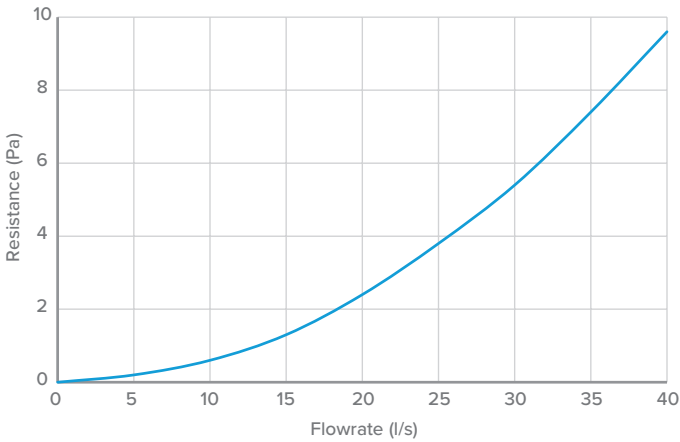


| PART NUMBER | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | |
|-------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC470WH | Rect to Round | 0.2 | 0.6 | 1.3 | 2.4 | 3.8 | 5.4 | 7.4 | 9.6 |

121MM X 60MM SYSTEM




121x60mm Rect to Round



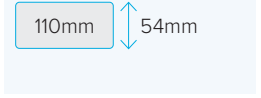
IN-LINE ADAPTER, RECTANGULAR TO ROUND 110X54MM - Ø100MM

| CODE | AIR DIRECTION | | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|--------|--------------------------------------|---------------|----------|--------|---------------------|-----------------|
| | From | To | | | | | | |
| PVC070WH | 110mm x 54mm | Ø100mm | In-line adapter rectangular to round | Female / Duct | PVC | White | UL94HB | ISO9001 |

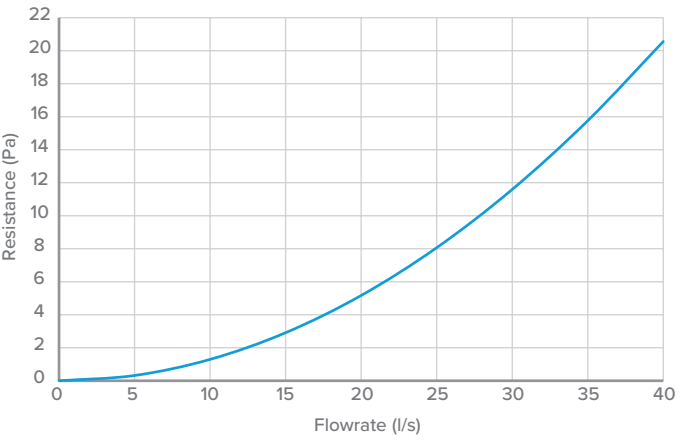


| PART NUMBER | AIR DIRECTION | | RESISTANCE IN Pa | | | | | | | |
|-------------|---------------|--------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | From | To | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s |
| PVC070WH | 110mm x 54mm | Ø100mm | 0.3 | 1.3 | 2.9 | 5.2 | 8.1 | 11.6 | 15.8 | 20.6 |
| | 110mm x 54mm | Ø100mm | | | | | | | | |

110MM X 54MM SYSTEM

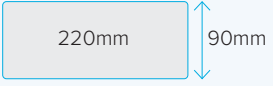
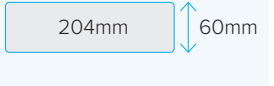
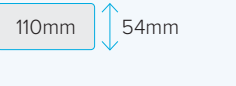



110x54mm Rect to Round
110x54mm Round to Rect



FLEXIBLE DUCTING

RECTANGULAR FLEXIBLE PVC HOSE


| 220MM X 90MM SYSTEM | 204MM X 60MM SYSTEM | 110MM X 54MM SYSTEM |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |



| CODE | DIAMETER RANGE (MM) (INTERNAL) | DESCRIPTION | MATERIAL | TEMPERATURE RANGE (°C) | PACKING | CLAMPING |
|----------|--------------------------------|-------------------------------------|----------------------|---------------------------|---------------------------------------|---------------------|
| PVC933WH | 220mm x 90mm | Rectangular flexible hose 3m length | White PVC 70µm thick | -20/+60 working (80 max.) | Compressed individually in net sleeve | D-TIE nylon zip-tie |
| PVC533WH | 204mm x 60mm | Rectangular flexible hose 3m length | White PVC 70µm thick | 20/+60 working (80 max.) | Compressed individually in net sleeve | D-TIE nylon zip-tie |
| PVC333WH | 110mm x 54mm | Rectangular flexible hose 3m length | White PVC 70µm thick | 20/+60 working (80 max.) | Compressed individually in net sleeve | D-TIE nylon zip-tie |

ROUND FLEXIBLE PVC HOSE

| CODE | DIAMETER RANGE (MM) (INTERNAL) | DESCRIPTION | MATERIAL | TEMPERATURE RANGE (°C) | MAX. AIR VELOCITY | MAX. POSITIVE WORKING PRESSURE | PACKING |
|----------|--------------------------------|-----------------------------|----------------------|---------------------------|-------------------|--------------------------------|---------------------------------------|
| PVC363WH | Ø100mm | PVC flexible hose 3m length | White PVC 70µm thick | -20/+60 working (80 max.) | 30m/sec | 3000 Pa | Compresses individually in net sleeve |



Ø100MM SYSTEM



OVERVIEW

Range of wire reinforced, flexible PVC ducting that has been specially designed for the ventilation market. The hose provides solutions to overcome situations where rigid components cannot be installed.

Flexible hose is particularly suitable for installation where there is slow moving air, such as the ducting of tumble driers.

CONSTRUCTION

Flexible hose is constructed as a continuous left-hand helix (English wound) on a bespoke forming “head”. The reinforcing wire is 100% sealed inside a fold of PVC tape which is in turn overlapped by the next pitch. The joints are welded by hot air welding of the layers of PVC in order to provide a continuous sealed tube.



ROUND FLEXIBLE ALUMINIUM HOSE

200MM SYSTEM

Ø150MM SYSTEM

Ø125MM SYSTEM

Ø100MM SYSTEM



| CODE | DIAMETER RANGE (MM) (INTERNAL) | DESCRIPTION | MATERIAL |
|--------|--------------------------------|-------------------------------|-----------|
| FLD200 | Ø200mm | Round flexible hose 5m length | Aluminium |
| FLD150 | Ø150mm | Round flexible hose 5m length | Aluminium |
| FLD125 | Ø125mm | Round flexible hose 5m length | Aluminium |
| FLD100 | Ø100mm | Round flexible hose 5m length | Aluminium |

OVERVIEW

For years the designer’s need for a fire resistant flexible duct has been hampered by the lack of flexibility and fragile nature of metallic ducting. Nuair Aluminium Flexible Duct overcomes these problems.

Aluminium Flexible Duct is a corrugated flexible ducting, which can be formed to bend radii less than ½D. It is supplied in its compressed state but when installed the tube extends to 5 metres for maximum flexibility and economy – making it the simple answer to many flexible duct problems.

FLEXIBLE

The extra deep corrugations of Aluminium Flexible Duct bring a new flexibility to metal tube. It comes in all diameters from 75mm to 315mm and may be hand-formed to bends of less than a ½D Radius – a feature previously only thought possible with fabric flexibles.

Aluminium Flexible Duct can also be extended or compressed easily for installation between spigots located opposite to each other. It is ideal for final connections or where space is limited.

STRONG

Strength and pliability in metal flexibles are affected by the thickness, corrugation shape and ductility of the material used in construction. In the past a strong tube has lacked flexibility and flexible tube has lacked strength.

With Aluminium Flexible Duct the problems are overcome by producing a deep corrugation tube, which is kept in the compressed state until it is installed; in this state it has great strength with little flexibility.

At the time of installation, when strength is a lower priority, the tube is extended to achieve its ultimate in flexibility.

FIRE RESISTING

Aluminium Flexible Duct is tested to BS476 Part 6, 7 and 8, and meets the requirements for CP413 section A2.2.3 (Ducts for Building Services) and is suitable for use throughout the U.K. and the Continent. When tested to BS476 Part 7 a class 1 spread of flame was recorded. When tested under the conditions laid down in BS476 Part 8 Aluminium Flexible Duct maintained its integrity for 15 minutes. As it is of all metal construction smoke generation is negligible.

SELF SUPPORTING

Aluminium Flexible Duct retains its corrugation form in use and in doing so achieves maximum distance between supports without sagging, resulting in cost savings in labour and materials when compared to fabric flexible.

It also retains its cross section regardless of its state; it can be compressed, extended, or formed into bends or offsets with no reduction in area. This means that frictional resistance figures are constant and air flow figures can be accurately predicted at the design stage.

The tube is stable after forming with no tendency to spring back, thus forces on spigots are kept to the very minimum.

ROUND ACOUSTIC FLEXIBLE HOSE

| CODE | DIAMETER RANGE MM INTERNAL | DESCRIPTION |
|---------|----------------------------|----------------------------------|
| SRDI200 | Ø200mm | Acoustic flexible hose 3m length |
| SRDI150 | Ø150mm | Acoustic flexible hose 3m length |
| SRDI125 | Ø125mm | Acoustic flexible hose 3m length |
| SRDI100 | Ø100mm | Acoustic flexible hose 3m length |



200MM SYSTEM

Ø150MM SYSTEM

Ø125MM SYSTEM

Ø100MM SYSTEM

OVERVIEW

A perforated, bendable aluminium duct covered with an external layer of mineral wool, offering a high level of both thermal and acoustic insulation.

Suitable for both large and small installation, acoustic flexible ducting’s semi-rigid characteristics allow complete systems to be installed in acoustic ductwork. It’s “stay put” ability ensures straight air paths that will not sag between supports, whilst it’s flexibility allows bends and offsets around obstructions.

CONSTRUCTION

Supplied in 3m lengths.

INNER TUBE

Laminated aluminium corrugated semi-rigid tube with a perforation area of 25%.

INSULATION

Acoustic density mineral wool faced with woven glass fibre which prevents the erosion of the insulation material in high velocity applications, keeping fibres out of the air stream.

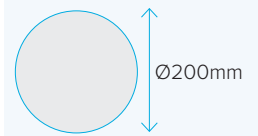
OUTER CASINGS

Fibre glass scrim reinforced aluminium-faced polyester seamless sleeve acting as both vapour barrier and air retaining tube. Aluminium/polyester has a fire resistance of Class 1 to BS476 Part 7 (Nil spread of flame).

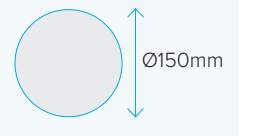


ROUND INSULATED FLEXIBLE HOSE


200MM SYSTEM



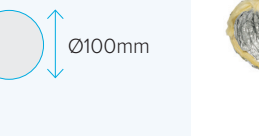
Ø150MM SYSTEM




Ø125MM SYSTEM



Ø100MM SYSTEM





| CODE | DIAMETER RANGE (MM) (INTERNAL) | DESCRIPTION | TEMPERATURE RANGE (°C) | MAX. AIR VELOCITY | MAX. POSITIVE WORKING PRESSURE | PACKING |
|---------|--------------------------------|---------------------------------------------|------------------------|-------------------|--------------------------------|---------------------------------|
| FLDI200 | Ø200mm | Aluminium insulated flexible hose 5m length | -30/+150 | 30m/sec | 3000 Pa | Individual box compressed to 1m |
| FLDI150 | Ø150mm | Aluminium insulated flexible hose 5m length | -30/+150 | 30m/sec | 3000 Pa | Individual box compressed to 1m |
| FLDI125 | Ø125mm | Aluminium insulated flexible hose 5m length | -30/+150 | 30m/sec | 3000 Pa | Individual box compressed to 1m |
| FLDI100 | Ø100mm | Aluminium insulated flexible hose 5m length | -30/+150 | 30m/sec | 3000 Pa | Individual box compressed to 1m |

OVERVIEW

Range of wire reinforced, flexible PVC ducting that has been specially designed for the ventilation market.

The hose provides solutions to overcome situations where rigid components cannot be installed.

Flexible hose is particularly suitable for installation where there is slow moving air, such as the ducting of tumble driers.

CONSTRUCTION

Insulated flexible hose is produced from multi-layer aluminium and metallized polymer, strengthened with high tension hard steel spring wire, surrounded with glass wool insulated and an aluminium vapour barrier.

GRILLES & DIFFUSERS

STEEL SUPPLY AIR VALVE

Ø125MM SYSTEM



| CODE | DUCT SIZE | DESCRIPTION | COLOUR |
|---------|-----------|------------------------|--------|
| VS125-V | Ø125mm | Steel supply air valve | White |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| VS125-V | Ø125mm | 2.6 | 6.1 | 11.8 | 19.8 | 30.1 | 42.9 | 58.1 | 75.9 | 119.5 | 174.2 | 240.7 | 319.5 |

Resistances based at 10mm opening

For the use of all PVC terminations please refer to Approved document B Volume 1 2019 edition in the UK and Building Standards Technical Handbook 2019 in Scotland or

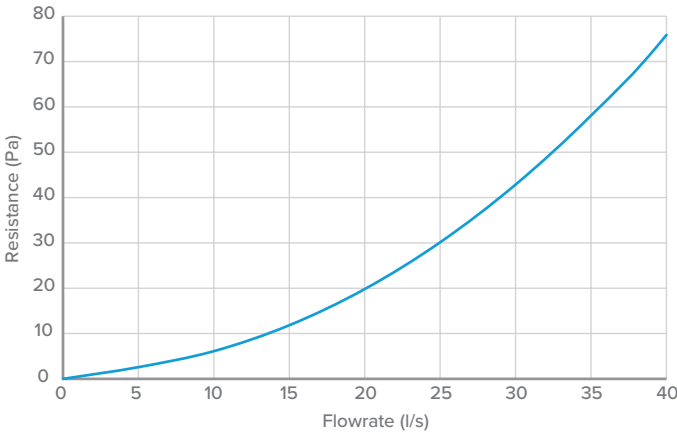
alternatively seek guidance from your local authority building control officer/fire specialist.

OVERVIEW

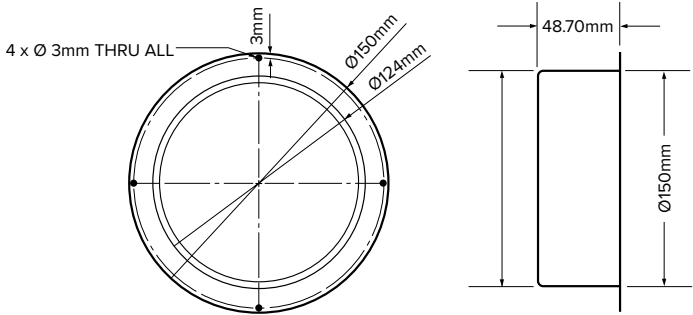
The VS125-V Ø125mm diameter round white metal ceiling air supply valve is manufactured from white epoxy powder coated steel. The valve has a male spigot to fit inside of a Ø125mm duct.

The valve is fully adjustable and has a locking nut to fix the position of the control disc upon commissioning.

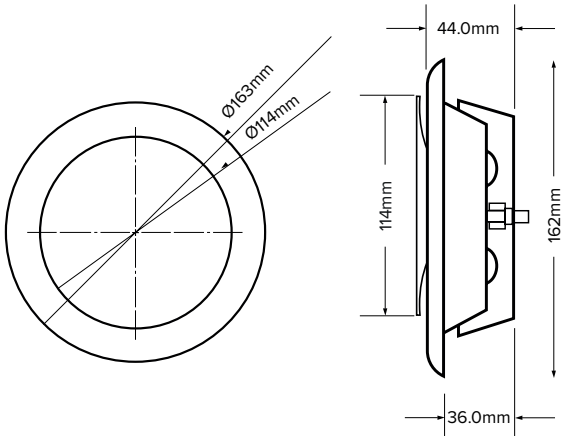
The valve is supplied complete with a fixing body with pre-drilled holes for installation.



BACK VIEW (FIXING BODY)

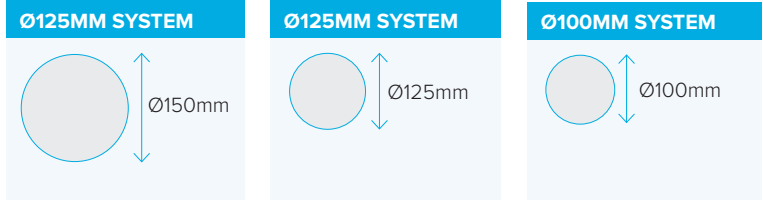


FRONT VIEW (CEILING VALVE)



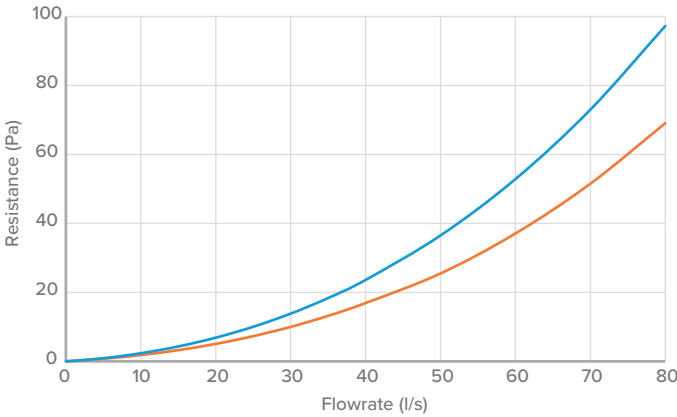
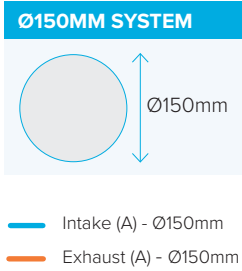


LOUVERED GRILLE WITH FLYSCREEN

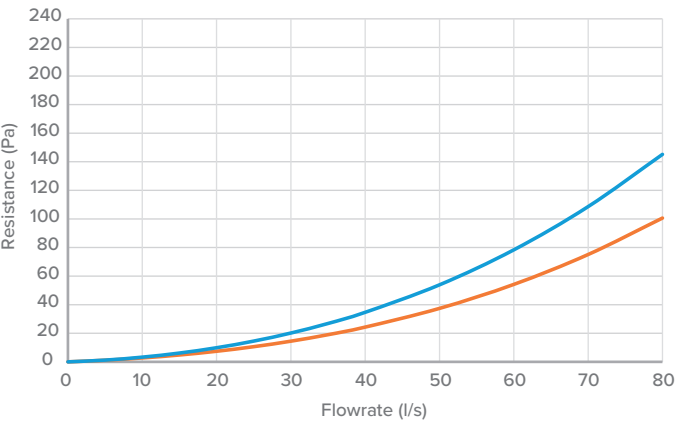
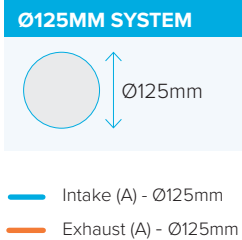


| CODE | AIR DIRECTION | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|---------------|------------------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC604WH | Ø150mm | Fixed louvre grille with flyscreen | Male | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |
| PVC504WH | Ø125mm | Fixed louvre grille with flyscreen | Male | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |
| PVC104WH | Ø100mm | Fixed louvre grille with flyscreen | Male | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |

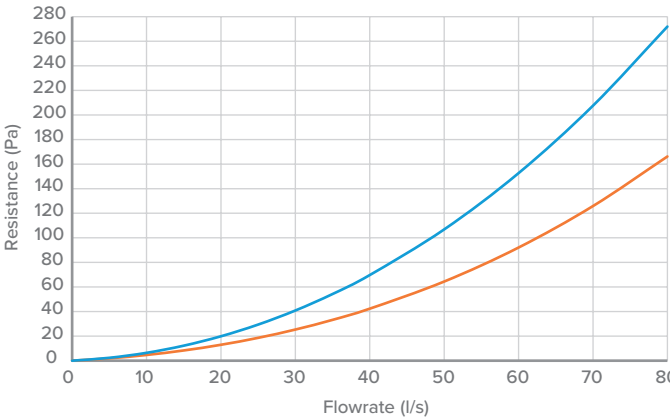
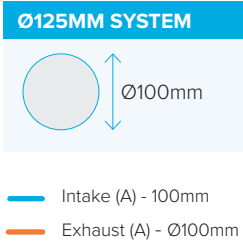
| | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PART NUMBER | AIR DIRECTION | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC604WH | Intake (A) - Ø150mm | 0.9 | 2.4 | 4.3 | 6.9 | 10.0 | 13.8 | 18.4 | 23.6 | 36.5 | 52.9 | 73.0 | 97.3 |
| | Exhaust (A) - Ø150mm | 0.76 | 1.83 | 3.26 | 5.07 | 7.31 | 10.00 | 13.19 | 16.91 | 25.49 | 37.09 | 51.52 | 69.07 |



| | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PART NUMBER | AIR DIRECTION | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC504WH | Intake (A) - Ø125mm | 1.2 | 3.3 | 6.2 | 9.9 | 14.5 | 20.2 | 26.9 | 34.7 | 53.9 | 78.4 | 108.6 | 145.2 |
| | Exhaust (A) - Ø125mm | 1.1 | 2.7 | 4.8 | 7.4 | 10.6 | 14.5 | 19.0 | 24.3 | 37.4 | 54.2 | 75.1 | 100.6 |

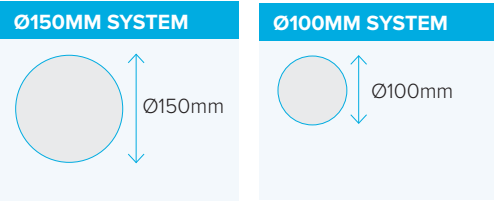


| | | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| PART NUMBER | AIR DIRECTION | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC104WH | Intake (A) - Ø100mm | 2.3 | 6.4 | 12.2 | 19.9 | 29.4 | 40.8 | 54.3 | 69.7 | 106.8 | 152.7 | 207.6 | 271.9 |
| | Exhaust (A) - Ø100mm | 1.9 | 4.7 | 8.3 | 13.0 | 18.6 | 25.3 | 33.2 | 42.3 | 64.4 | 92.1 | 125.9 | 166.2 |



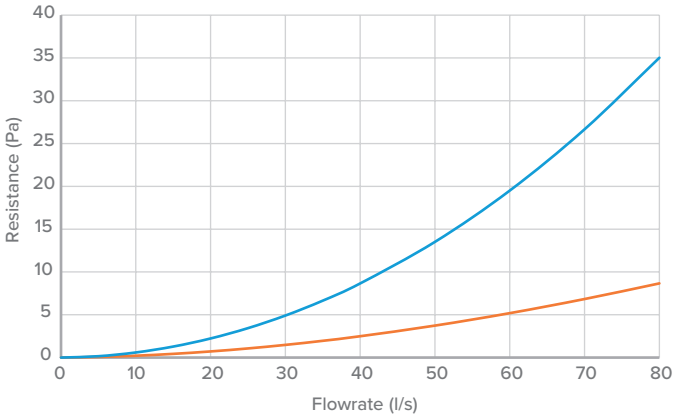
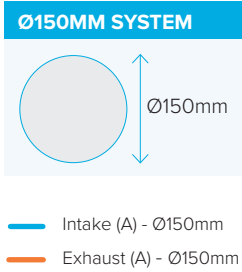


LOUVERED GRILLE WITHOUT FLYSCREEN

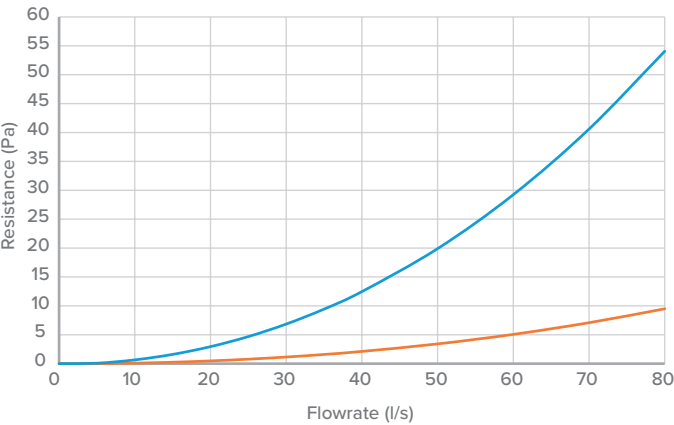
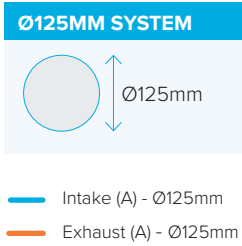


| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|---------------------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC604LR | Ø150mm | Fixed louvre grille without flyscreen | Male | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |
| PVC104LR | Ø100mm | Fixed louvre grille without flyscreen | Male | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |

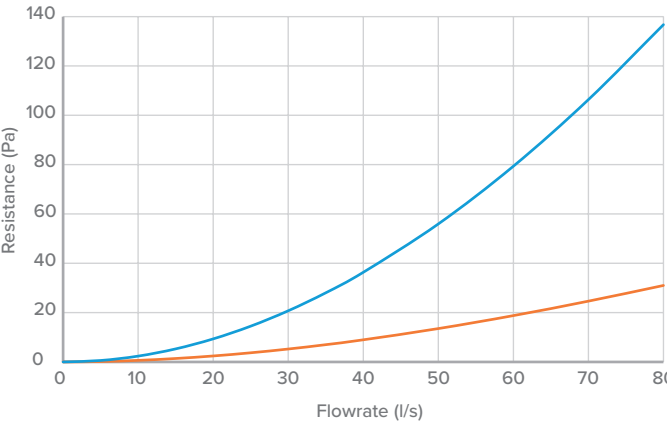
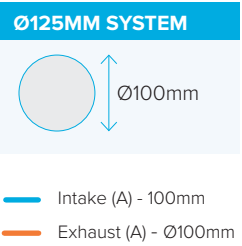
| | | RESISTANCE IN Pa | | | | | | | | | | | | |
|-------------|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | |
| PVC604LR | Intake (A) - Ø150mm | 0.2 | 0.6 | 1.3 | 2.2 | 3.4 | 4.9 | 6.6 | 8.7 | 13.5 | 19.5 | 26.7 | 35.0 | |
| | Exhaust (A) - Ø150mm | 0.1 | 0.2 | 0.4 | 0.7 | 1.1 | 1.5 | 2.0 | 2.5 | 3.7 | 5.2 | 6.8 | 8.7 | |



| | | RESISTANCE IN Pa | | | | | | | | | | | | |
|-------------|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | |
| PVC504LR | Intake (A) - Ø150mm | 0.1 | 0.7 | 1.6 | 2.9 | 4.7 | 6.8 | 9.4 | 12.5 | 19.9 | 29.2 | 40.6 | 54.1 | |
| | Exhaust (A) - Ø150mm | 0.0 | 0.1 | 0.3 | 0.5 | 0.8 | 1.1 | 1.6 | 2.1 | 3.4 | 5.1 | 7.1 | 9.5 | |



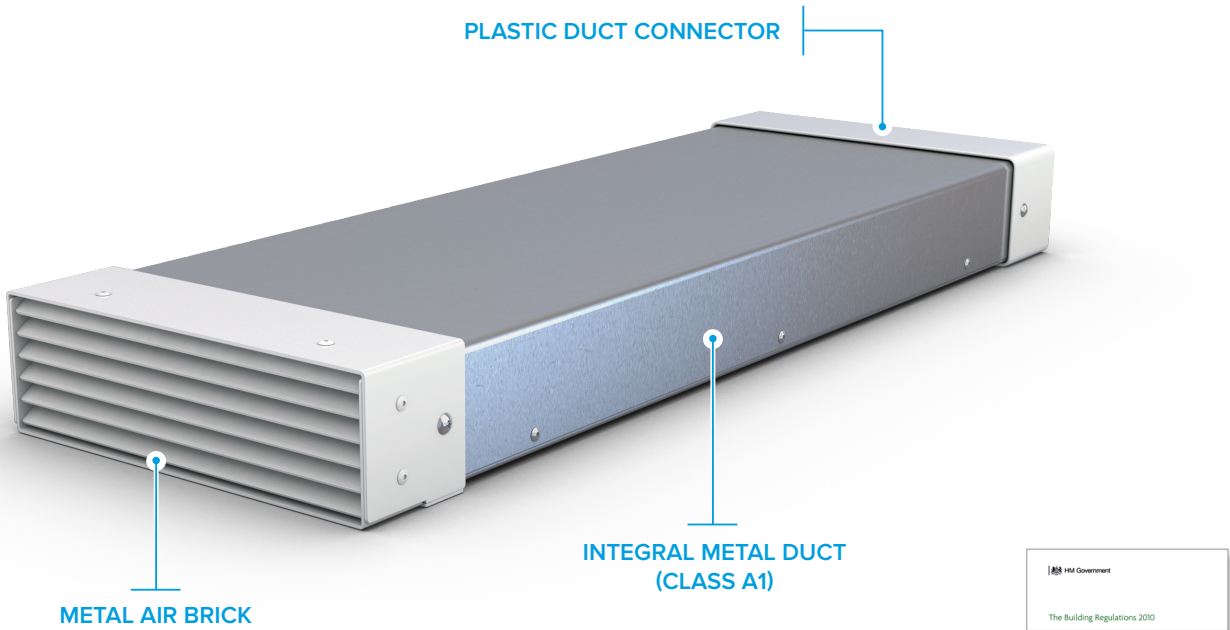
| | | RESISTANCE IN Pa | | | | | | | | | | | | |
|-------------|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| PART NUMBER | DUCT SIZE | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s | |
| PVC104LR | Intake (A) - Ø100mm | 0.6 | 2.4 | 5.3 | 9.4 | 14.5 | 20.7 | 28.0 | 36.3 | 56.0 | 79.4 | 106.4 | 136.7 | |
| | Exhaust (A) - Ø100mm | 0.2 | 0.6 | 1.4 | 2.4 | 3.7 | 5.2 | 7.0 | 9.0 | 13.5 | 18.8 | 24.7 | 31.0 | |





NON-COMBUSTIBLE METAL AIR BRICKS

Nuaire’s range of metal air bricks are designed to meet the latest fire safety standards set out in Approved Document B, whilst ensuring a low resistance and unobtrusive installation.



Developed to meet the requirements of Approved document B.



NON-COMBUSTIBLE
Meets fire safety standards from Approved Document B.

LOW RESISTANCE
Designed and tested to ensure the lowest possible system resistance.

FULL RANGE
Available in 220x126, 220x90 and 204x60mm.

SAFE CONSTRUCTION
Manufactured from 1.5mm galvanised steel, fire class A1 'no contribution to fire'.

HIGH CLASSIFICATION
Powder coating pre-qualified to EN13501-1 classification A2-s1,d0.

METAL AIR BRICK SPECIFICATIONS & RESISTANCE DATA

MAB-220X126-WH

| DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURE STANDARD |
|---------------|-------------------------------------------------|------------|------------------|--------|------------------------------------------------|----------------------|
| 220mm x 126mm | Non-combustible, low resistance metal air brick | Female | Galvanised steel | White | A2-s1; d0 (powder coating); A1 (base material) | ISO9001 |

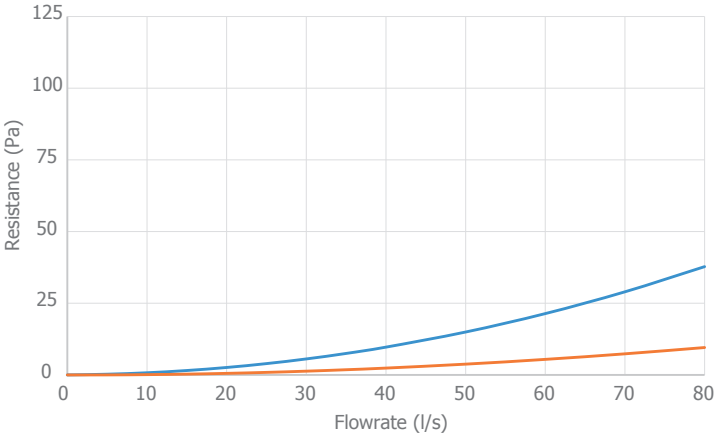


| PART NUMBER | DUCT SIZE | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | |
|----------------|---------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | 10l/s | 20l/s | 30l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| MAB-220X126-WH | 220mm x 126mm | Intake | 0.7 | 2.6 | 5.5 | 9.7 | 15.0 | 21.4 | 29.0 | 37.8 |
| | | Exhaust | 0.2 | 0.8 | 1.6 | 2.7 | 4.1 | 5.7 | 7.5 | 9.6 |

Supply Air
Extract Air

Note: Supply Data based on Test Report No. TB2327.
Exhaust Data based on Test Report No. TB2334.

Note: Performance testing carried out using BS EN 13141-2.



MAB-220X90-WH

| DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURE STANDARD |
|--------------|-------------------------------------------------|------------|------------------|--------|------------------------------------------------|----------------------|
| 220mm x 90mm | Non-combustible, low resistance metal air brick | Female | Galvanised steel | White | A2-s1; d0 (powder coating); A1 (base material) | ISO9001 |

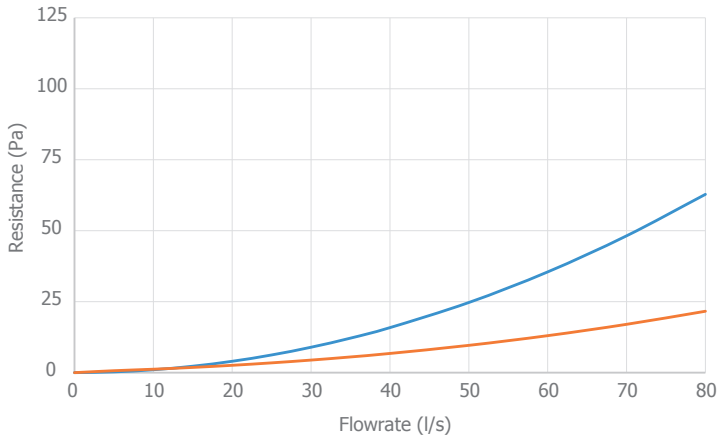


| PART NUMBER | DUCT SIZE | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | |
|---------------|--------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | 10l/s | 20l/s | 30l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| MAB-220X90-WH | 220mm x 90mm | Intake | 1.0 | 4.0 | 9.0 | 15.9 | 24.7 | 35.5 | 48.2 | 62.9 |
| | | Exhaust | 1.1 | 2.3 | 4.1 | 6.5 | 9.5 | 13.0 | 17.1 | 21.9 |

Supply Air
Extract Air

Note: Supply Data based on Test Report No. TB2328.
Exhaust Data based on Test Report No. TB2333.

Note: Performance testing carried out using BS EN 13141-2.



METAL AIR BRICK

SPECIFICATIONS & RESISTANCE DATA

MAB-204X60-WH

| DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURE STANDARD |
|--------------|-------------------------------------------------|------------|------------------|--------|------------------------------------------------|----------------------|
| 204mm x 60mm | Non-combustible, low resistance metal air brick | Female | Galvanised steel | White | A2-s1; d0 (powder coating); A1 (base material) | ISO9001 |

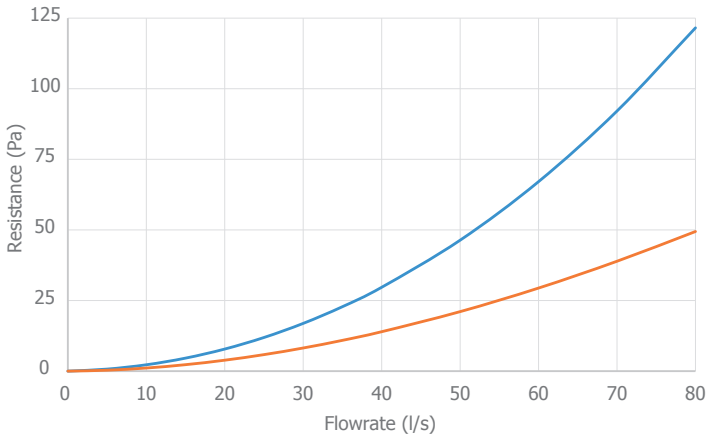


| PART NUMBER | DUCT SIZE | AIR DIRECTION | RESISTANCE IN Pa | | | | | | | |
|---------------|--------------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | 10l/s | 20l/s | 30l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| MAB-204X60-WH | 204mm x 60mm | Intake | 2.1 | 7.7 | 16.9 | 29.8 | 46.3 | 66.4 | 90.1 | 117.5 |
| | | Exhaust | 1.3 | 4.1 | 8.3 | 13.9 | 20.9 | 29.2 | 39.0 | 50.1 |

Supply Air
Extract Air

Note: Supply Data based on Test Report No. TB2329.
Exhaust Data based on Test Report No. TB2332.

Note: Performance testing carried out using BS EN 13141-2.



COLOUR OPTIONS

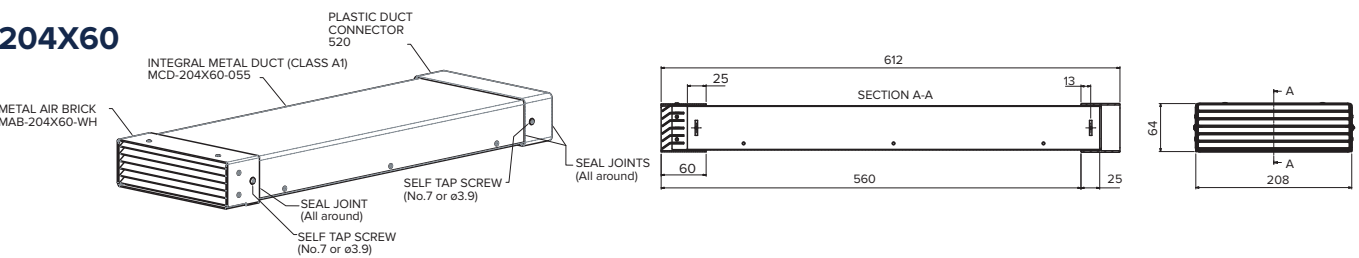
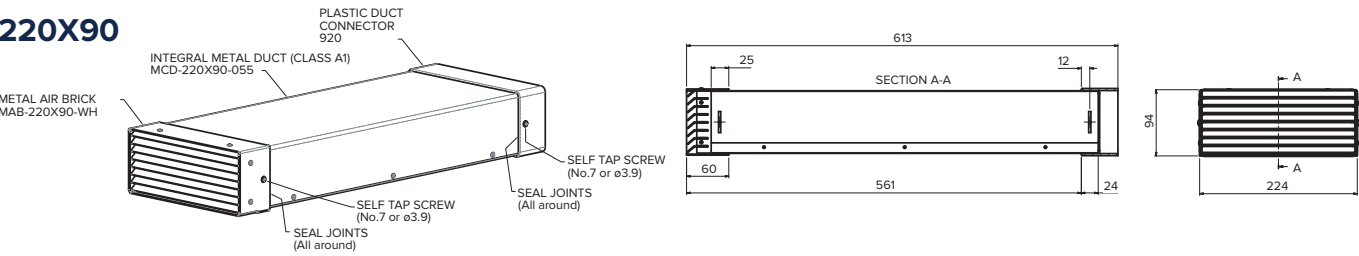
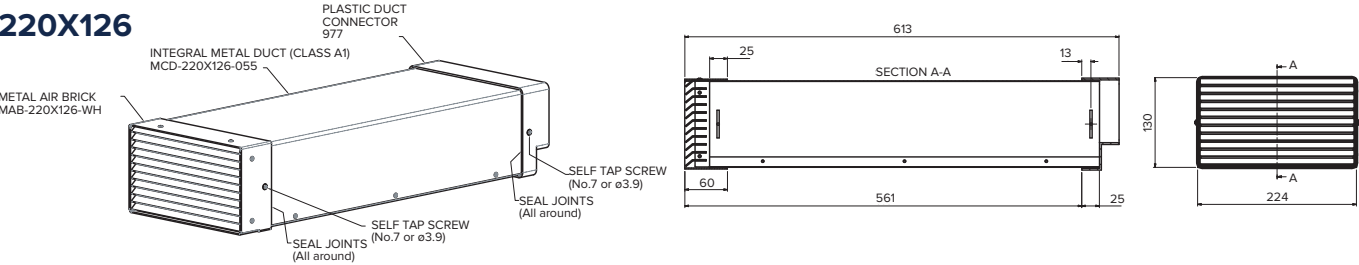
| COLOUR | RAL REFERENCE | RAL TITLE | CODE SUFFIX |
|------------|---------------|---------------|-------------|
| White | 9016 | Traffic White | WH |
| Brown | 8011 | Nut Brown | BR |
| Cotswold | 1014 | Ivory | COT |
| Terracotta | 8004 | Copper Brown | TC |
| Black | 9017 | Traffic Black | BK |
| Grey | 7046 | Telegrey 2 | GREY |

Nuaire metal air bricks are available in multiple colours. Replace 'WH' on end of code with applicable suffix to change colour option. Colour options are applicable to metal air bricks only, not sleeves. For a bespoke colour, please contact Nuaire on 029 2085 8500 or email residential.enquiries@nuaire.co.uk.

INTEGRAL METAL DUCT (CLASS A1)

DIMENSIONS

For use with metal air bricks. Integral metal duct (Class A1) have **male** connections.



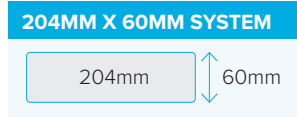


PVC AIR BRICK WITH SHUTTER

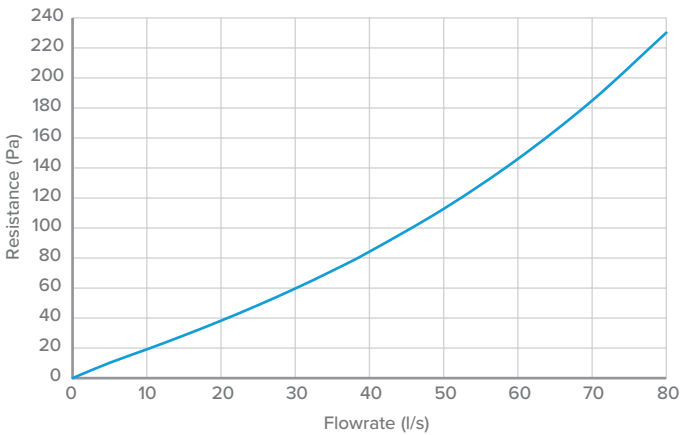
| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|--------------|----------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC501WH | 204mm x 60mm | PVC air brick with shutter | Male | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC501WH | 204mm x 60mm | 10.2 | 19.1 | 28.5 | 38.3 | 48.6 | 59.7 | 71.5 | 84.3 | 112.8 | 146.1 | 184.9 | 230.2 |



204x60mm

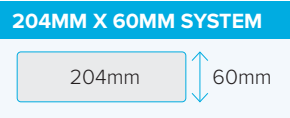


PVC AIR BRICK WITHOUT SHUTTER

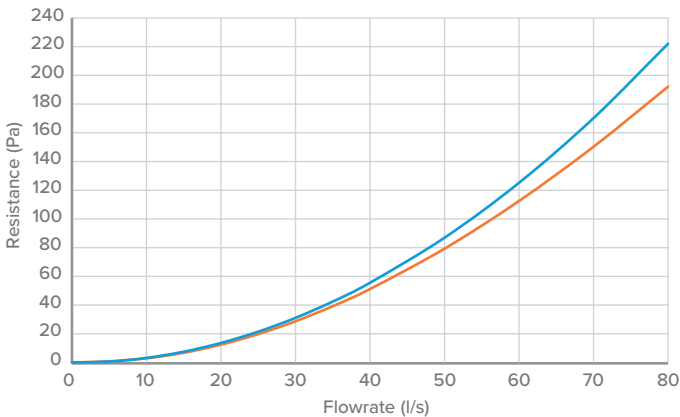
| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|--------------|-------------------------------|------------|--------------------------------|--------|---------------------|-----------------|
| PVC505NS | 204mm x 60mm | PVC air brick without shutter | Male | HIPS (High Impact Polystyrene) | White | UL94V0 | ISO9001 |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|----------------------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC505NS | Intake (A) - Rect to Round - 204mm x 60mm | 0.6 | 3.2 | 7.5 | 13.6 | 21.4 | 31.1 | 42.4 | 55.5 | 86.9 | 125.2 | 170.2 | 222.1 |
| | Exhaust (A) Round to Rect (A) - 204mm x 60mm | 0.8 | 2.9 | 6.8 | 12.4 | 19.8 | 28.7 | 39.2 | 51.2 | 79.3 | 112.5 | 150.3 | 192.1 |



Intake (A) 204x60mm
Exhaust (A) 204x60mm

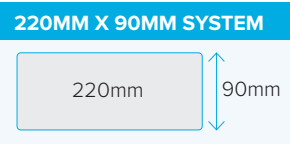


PVC DOUBLE AIR BRICK

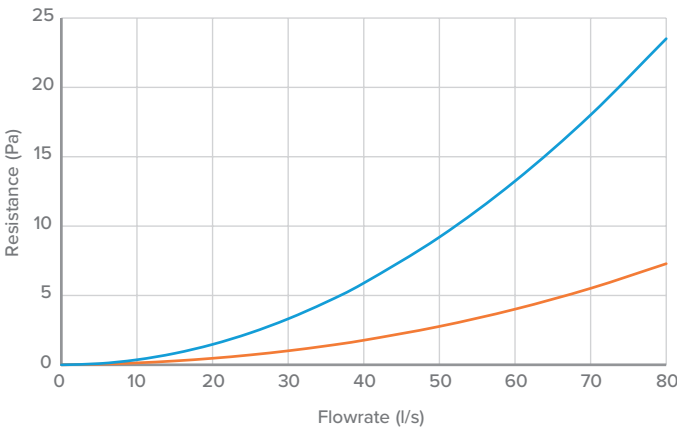
| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|--------------|--------------|-----------------------------------|------------|---------------|--------|---------------------|-----------------|
| PVC905WH-KIT | 220mm x 90mm | PVC double air brick with adapter | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |



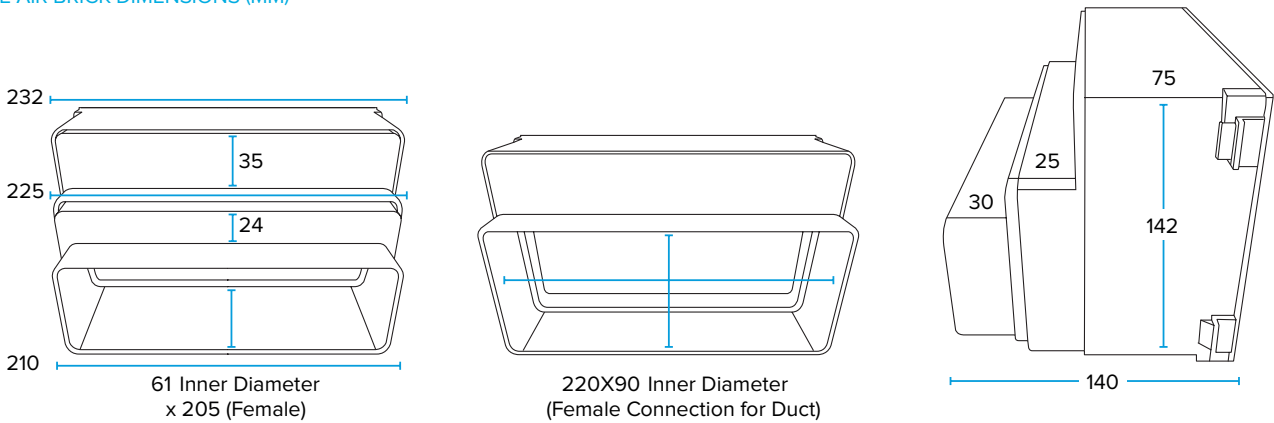
| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|--------------|----------------------------------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC905WH-KIT | Intake (A) Rect to Round - 220mm x 90mm | 0.1 | 0.4 | 0.8 | 1.5 | 2.3 | 3.3 | 4.5 | 5.9 | 9.2 | 13.2 | 18.0 | 23.5 |
| | Exhaust (A) Round to Rect (A) - 220mm x 90mm | 0.0 | 0.1 | 0.3 | 0.5 | 0.7 | 1.0 | 1.4 | 1.8 | 2.8 | 4.0 | 5.5 | 7.3 |



Intake (A) 220x90mm
Exhaust (A) 220x90mm



DOUBLE AIR BRICK DIMENSIONS (MM)



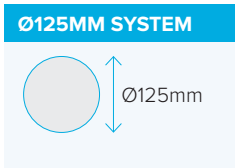


GRAVITY SHUTTER WALL OUTLET

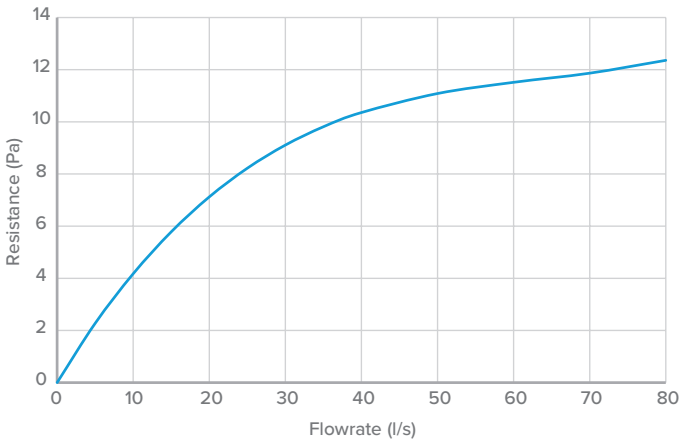
| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|--------------------------|------------|-------------|--------|---------------------|-----------------|
| PVC506WH | Ø125mm | Gravity flap wall outlet | Male | Polystyrene | White | UL94V0 | ISO9001 |
| PVC100WH | Ø100mm | Gravity flap wall outlet | Male | Polystyrene | Grey | UL94V0 | ISO9001 |



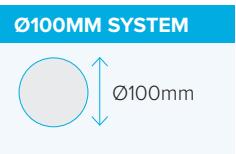
| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC506WH | Ø125mm | 2.3 | 4.2 | 5.8 | 7.1 | 8.2 | 9.1 | 9.8 | 10.4 | 11.1 | 11.5 | 11.9 | 12.4 |



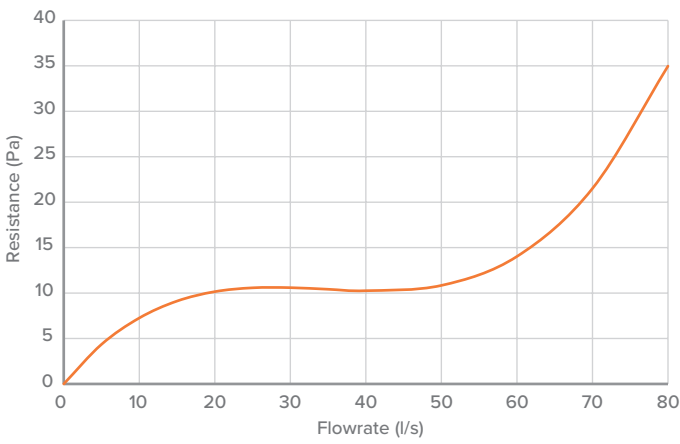
— Ø125mm



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC100WH | Ø100mm | 4.4 | 7.3 | 9.1 | 10.2 | 10.6 | 10.6 | 10.4 | 10.3 | 10.8 | 14.0 | 21.5 | 35.0 |



— Ø100mm

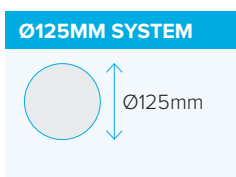


COWLED WALL OUTLET

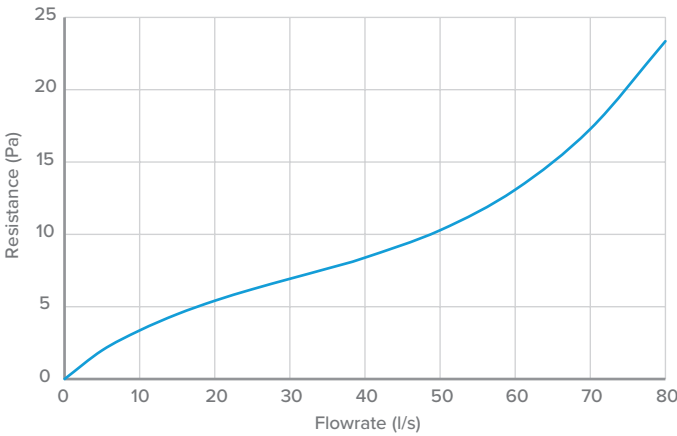
| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|----------|-----------|-----------------------------------|------------|-------------|--------|---------------------|-----------------|
| PVC502WH | Ø125mm | Cowled outlet with gravity damper | Male | Polystyrene | White | UL94V0 | ISO9001 |
| PVC102WH | Ø100mm | Cowled outlet with gravity damper | Male | Polystyrene | Grey | UL94V0 | ISO9001 |



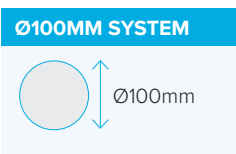
| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC502WH | Ø125mm | 2.0 | 3.4 | 4.5 | 5.4 | 6.2 | 6.9 | 7.6 | 8.4 | 10.3 | 13.1 | 17.3 | 23.4 |



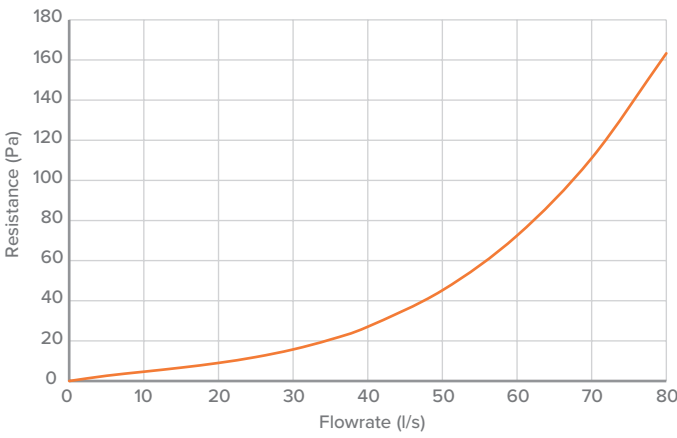
— Ø125mm



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC102WH | Ø100mm | 2.6 | 4.6 | 6.7 | 9.0 | 11.9 | 15.7 | 20.7 | 27.1 | 45.2 | 72.5 | 111.1 | 163.3 |



— Ø100mm

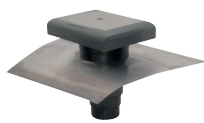




COWLS & TERMINALS

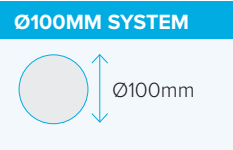
UNIVERSAL ROOF COWL

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | WEIGHT |
|----------|-----------|-------------------------------------|-------------------|-----------------------------|--------|
| PVC4411 | Ø100mm | Universal hooded tile roof terminal | PVC-U and Ubiflex | Anthracite/black skirt | 1.53kg |
| PVC4411T | Ø100mm | Universal hooded tile roof terminal | PVC-U and Ubiflex | Terracotta/terracotta skirt | 1.53kg |

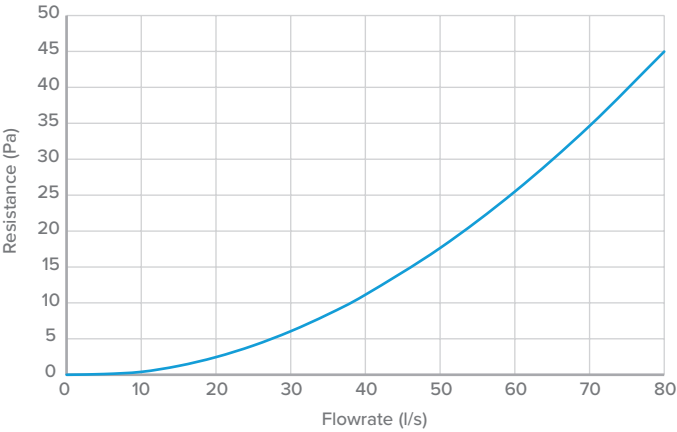


| PRODUCT FEATURES | APPLICATION | DIMENSIONS |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">• 20,000mm² large free vent area• Large diameter spigot with adaptor to accept ducting of 100/110/125/150/160mm | <ul style="list-style-type: none">• Mechanical extraction and intake• Minimum pitch of 22.5° | <ul style="list-style-type: none">• 500mm x 500mm skirt• Stepped adaptor – H: 215mm |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC4411 | Ø100mm | 0.1 | 0.4 | 1.2 | 2.5 | 4.1 | 6.1 | 8.4 | 11.1 | 17.6 | 25.5 | 34.6 | 45.0 |
| PVC4411T | | | | | | | | | | | | | |

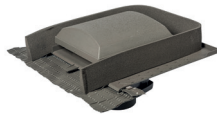


— Ø100mm



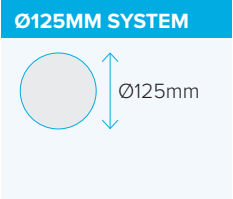
PITCHED ROOF TERMINAL

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | MANUFACTURED TO |
|--------------|-----------------------------------------------------|----------------------------------|----------|--------|-----------------|
| PVCTT9-BROWN | Ø125mm Geometric Free area 12,270mm ² | Pitched roof tile plate terminal | ABS | Brown | BS EN ISO9001 |
| PVCTT9-GREY | | Pitched roof tile plate terminal | ABS | Grey | BS EN ISO9001 |
| PVCTT9-RED | | Pitched roof tile plate terminal | ABS | Red | BS EN ISO9001 |

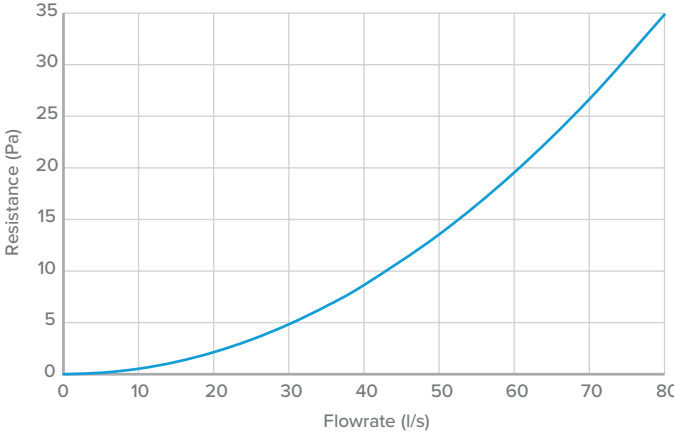


| PRODUCT FEATURES | TERMINALS | APPLICATION |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pitched roof terminals have low resistance to airflow and incorporate condensation grooves to prevent any condensate running back down the duct. They satisfy the requirements of BS 5250 Code of Practice for the control of condensation in buildings. | Terminals are designed to resist the ingress of deluge and driving rain. They have silica sand entrained in the polymeric resin surface to help weather more closely hit the surrounding tiles over time. Terminals have a smooth finish and are manufactured from ABS. | <ul style="list-style-type: none">• Suitable for roof pitches between 20° and 60°• Suitable for mechanical extract and intake. |

| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVCTT9 | Ø100mm | 0.1 | 0.5 | 1.2 | 2.1 | 3.3 | 4.8 | 6.6 | 8.6 | 13.5 | 19.6 | 26.7 | 34.9 |



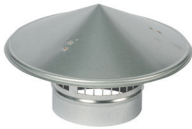
— Ø100mm



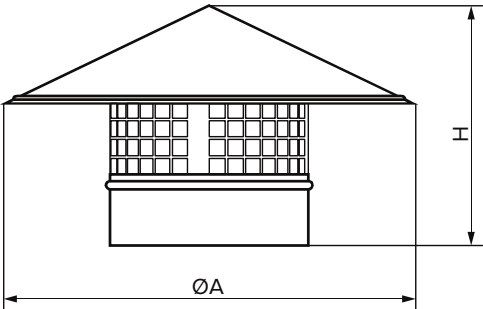
UNIVERSAL COWL

FOR FLAT ROOF ONLY

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL |
|-------|-----------|-----------------------------------------------------|------------------|
| RPC-8 | Ø200mm | Steel universal roof cowl with integrated bird mesh | Galvanised steel |
| RPC-6 | Ø150mm | Steel universal roof cowl with integrated bird mesh | Galvanised steel |
| RPC-5 | Ø125mm | Steel universal roof cowl with integrated bird mesh | Galvanised steel |
| RPC-4 | Ø100mm | Steel universal roof cowl with integrated bird mesh | Galvanised steel |



| CODE | ØA MM | ØH MM | FREE AREA % |
|-------|-------|-------|-------------|
| RPC-8 | 399 | 210 | 131 |
| RPC-6 | 312 | 184 | 146 |
| RPC-5 | 248 | 164 | 140 |
| RPC-4 | 208 | 144 | 138 |



The free area is calculated minimum area given as a percentage of the duct area. In reality this area is normal 2 to 5 percent higher.

ROOF PIPE FLASHING

| CODE | DUCT SIZE | DESCRIPTION | COLOUR | MATERIAL |
|----------|-----------------|-----------------------------------------------------------|--------|----------|
| RPF10-18 | Ø200mm - Ø450mm | Roof pipe flashing for use with profiled roofing material | Black | EPDM |
| RPF6-11 | Ø150mm - Ø275mm | Roof pipe flashing for use with profiled roofing material | Black | EPDM |
| RPF4-7 | Ø100mm - Ø175mm | Roof pipe flashing for use with profiled roofing material | Black | EPDM |
| RPF3-6 | Ø75mm - Ø150mm | Roof pipe flashing for use with profiled roofing material | Black | EPDM |



| | | |
|---------------------------------------|--------------|-------------------|
| ADVANCED OZONE RESISTANCE TESTED TO | | 70 hour @500 pphm |
| HIGH TEMPERATURE RESISTANCE TESTED TO | Intermittent | +135°C |
| HIGH TEMPERATURE RESISTANCE TESTED TO | Continuous | +100°C |
| LOW TEMPERATURE RESISTANCE TESTED TO | | -55°C |
| COMPRESSION SET MINIMUM | | 25% |

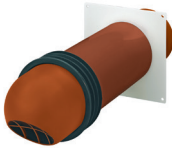
ROOF PIPE FLASHING KIT

| CODE | SILICONE | SILVER CAPS | SCREWS | DRILL BIT | INSTRUCTIONS |
|------|------------------------------|------------------|--------------------------|---------------------|-------------------------------|
| RPFK | 1 x 80ml clear silicone tube | 10 x silver caps | 10x 6.3 x 25mm SP screws | 1 x 4.8mm drill bit | 1x fixing instruction leaflet |



SELF-SEALING WALL GRILLE

| CODE | DUCT SIZE | DESCRIPTION | CONNECTION | MATERIAL | COLOUR | FLAMMABILITY RATING | MANUFACTURED TO |
|-----------|-----------|--------------------------|------------|---------------|------------|---------------------|-----------------|
| PVC2447WH | Ø100mm | Self-sealing wall grille | Duct | Extruded uPVC | White | UL94V0 | ISO9001 |
| PVC2447T | Ø100mm | Self-sealing wall grille | Duct | Extruded uPVC | Terracotta | UL94V0 | ISO9001 |

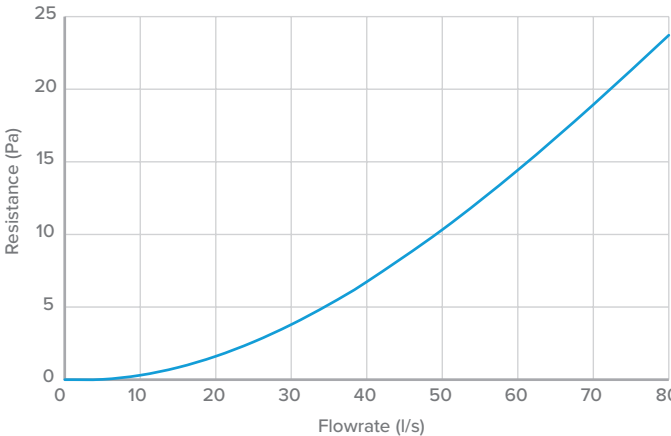


| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVC4411 | Ø100mm | 0.0 | 0.3 | 0.8 | 1.6 | 2.6 | 3.8 | 5.2 | 6.7 | 10.3 | 14.4 | 18.9 | 23.7 |
| PVC447T | | | | | | | | | | | | | |

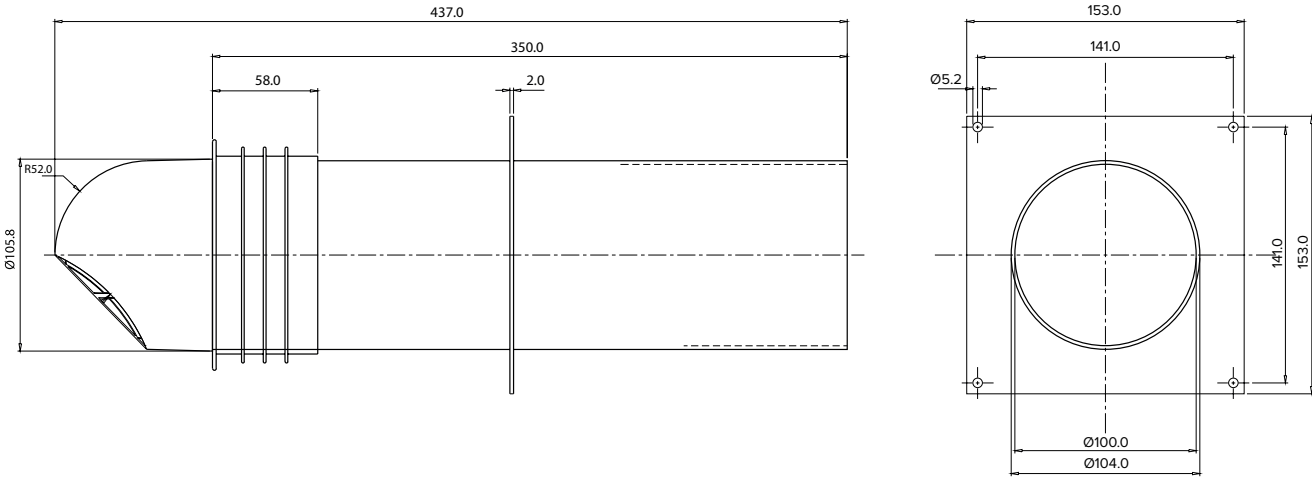
Ø100MM SYSTEM

Ø100mm

Ø100mm



HIGH RISE COWL DIMENSIONS (MM)

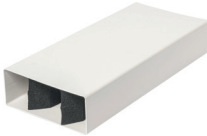




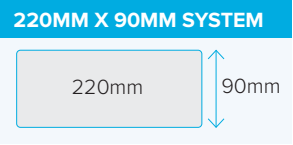
ATTENUATORS

RECTANGULAR SILENCER 220MM X 90MM

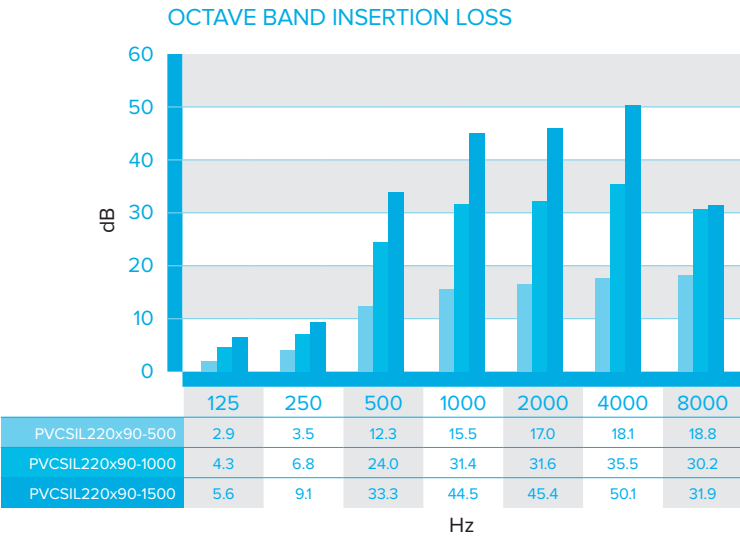
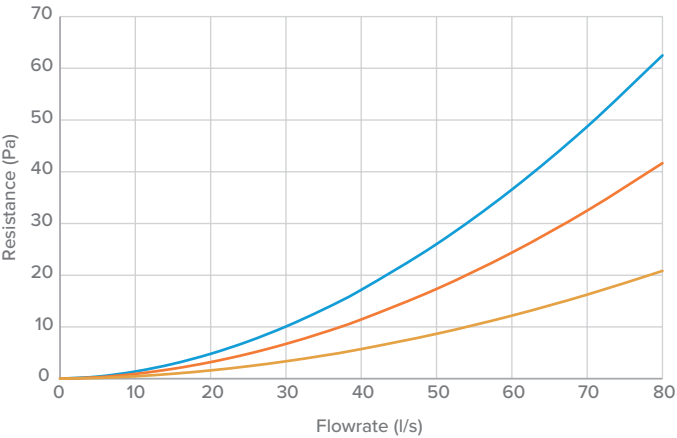
| CODE | DUCT SIZE | DESCRIPTION |
|-------------------|--------------|---------------------------------------------------------------------|
| PVCSIL220X90-1500 | 220mm x 90mm | 3x 500mm length rectangular duct silencers and 2x connecting pieces |
| PVCSIL220X90-1000 | 220mm x 90mm | 2x 500mm length rectangular duct silencers and 1x connecting piece |
| PVCSIL220X90-500 | 220mm x 90mm | 500mm length rectangular duct silencer |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVCSIL220X90-1500 | 220mm x 90mm | 0.4 | 1.4 | 2.9 | 4.8 | 7.2 | 10.1 | 13.4 | 17.2 | 26.0 | 36.6 | 48.7 | 62.5 |
| PVCSIL220X90-1000 | | 0.3 | 0.9 | 1.9 | 3.2 | 4.8 | 6.7 | 8.9 | 11.4 | 17.3 | 24.4 | 32.5 | 41.7 |
| PVCSIL220X90-500 | | 0.1 | 0.5 | 1.0 | 1.6 | 2.4 | 3.4 | 4.5 | 5.7 | 8.7 | 12.2 | 16.2 | 20.8 |

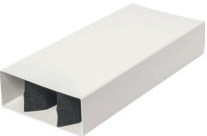


- PVCSIL220X90-1500
- PVCSIL220X90-1000
- PVCSIL220X90-500

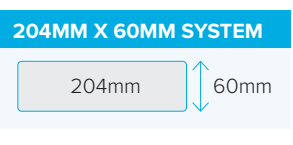


RECTANGULAR SILENCER 204MM X 60MM

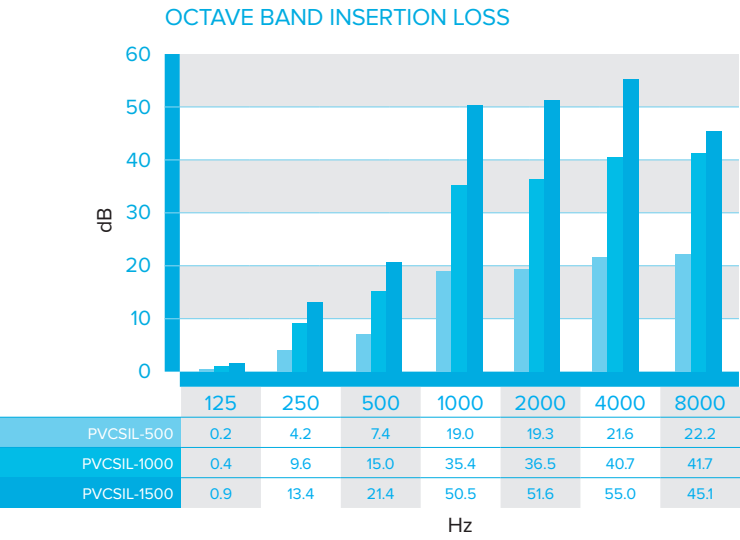
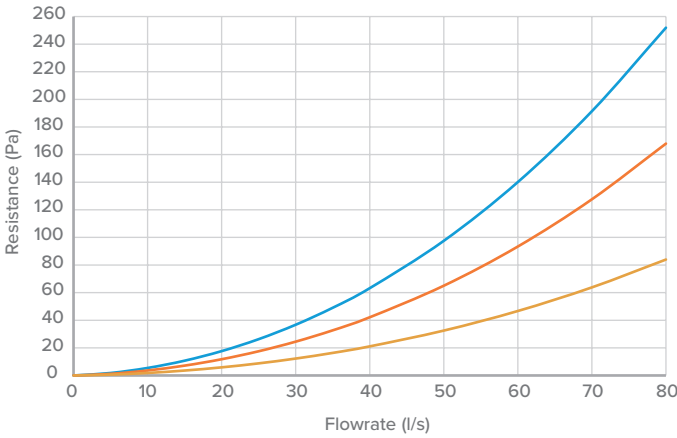
| CODE | DUCT SIZE | DESCRIPTION |
|-------------|--------------|---------------------------------------------------------------------|
| PVCSIL-1500 | 204mm x 60mm | 3x 500mm length rectangular duct silencers and 2x connecting pieces |
| PVCSIL-1000 | 204mm x 60mm | 2x 500mm length rectangular duct silencers and 1x connecting piece |
| PVCSIL-500 | 204mm x 60mm | 500mm length rectangular duct silencer |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|--------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| PVCSIL-1500 | 204mm x 60mm | 1.8 | 5.4 | 10.7 | 17.6 | 26.3 | 36.8 | 49.0 | 63.2 | 97.5 | 140.1 | 191.4 | 251.9 |
| PVCSIL-1000 | | 1.2 | 3.6 | 7.1 | 11.8 | 17.5 | 24.5 | 32.7 | 42.2 | 65.0 | 93.4 | 127.6 | 167.9 |
| PVCSIL-500 | | 0.6 | 1.8 | 3.6 | 5.9 | 8.8 | 12.3 | 16.3 | 21.1 | 32.5 | 46.7 | 63.8 | 84.0 |



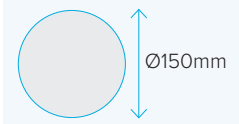
- PVCSIL-1500
- PVCSIL-1000
- PVCSIL-500





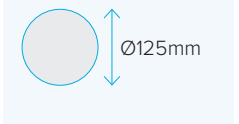
ROUND SILENCER

Ø150MM SYSTEM




Ø150mm

Ø125MM SYSTEM

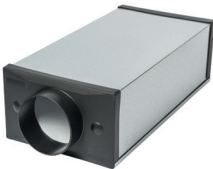


Ø125mm

Ø100MM SYSTEM



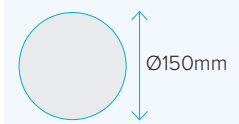
Ø100mm



| CODE | DUCT SIZE | DESCRIPTION |
|---------|-----------|------------------------------------------|
| SIL-150 | Ø150mm | 600mm length in-line round duct silencer |
| SIL-125 | Ø125mm | 600mm length in-line round duct silencer |
| SIL-100 | Ø100mm | 600mm length in-line round duct silencer |


| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| SIL-150 | Ø150mm | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 4 | 5 |
| SIL-125 | Ø125mm | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 4 | 5 | 7 |
| SIL-100 | Ø100mm | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 4 | 6 | 8 | 11 | 15 |

Ø150MM SYSTEM




Ø150mm

Ø125MM SYSTEM



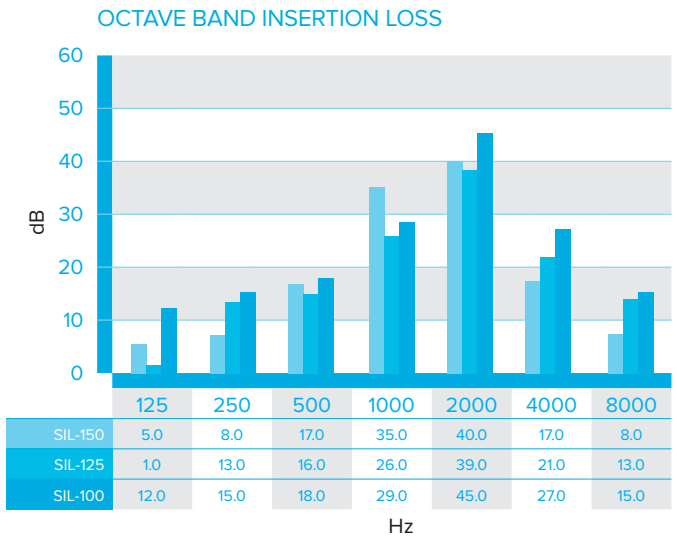
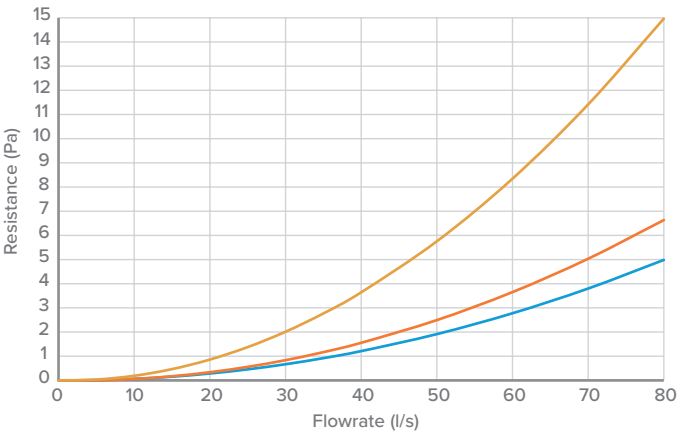
Ø125mm

Ø100MM SYSTEM



Ø100mm

- Ø150mm
- Ø125mm
- Ø100mm



DUCT ACCESSORIES

CONDENSATION TRAP Ø125MM

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR |
|------------|-----------|-------------------|----------|--------|
| CONTRAP125 | Ø125mm | Condensation trap | uPVC | Grey |

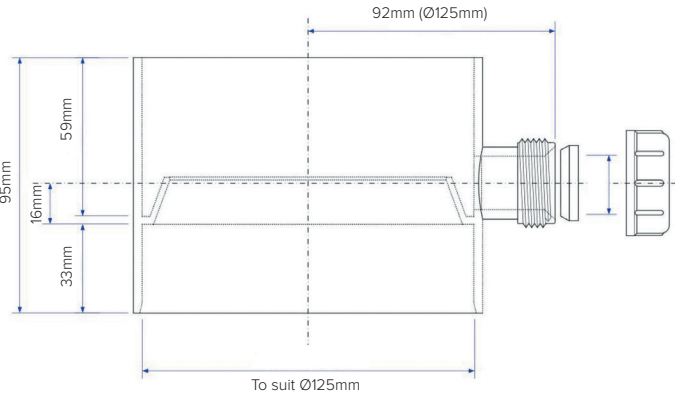


PRODUCT FEATURES

Straight socket connector to 125mm pipe
Provides an internal trap/diverter which will collect condnsation forming on the internal surface of the extract pipework

23mm connection to allow drain of the condensation to a convenient position

CONDENSATION TRAP Ø125MM DIMENSIONS (MM)



CONDENSATION TRAP Ø100MM

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR |
|------------|-----------|-------------------|----------|--------|
| CONTRAP100 | Ø100mm | Condensation trap | uPVC | White |



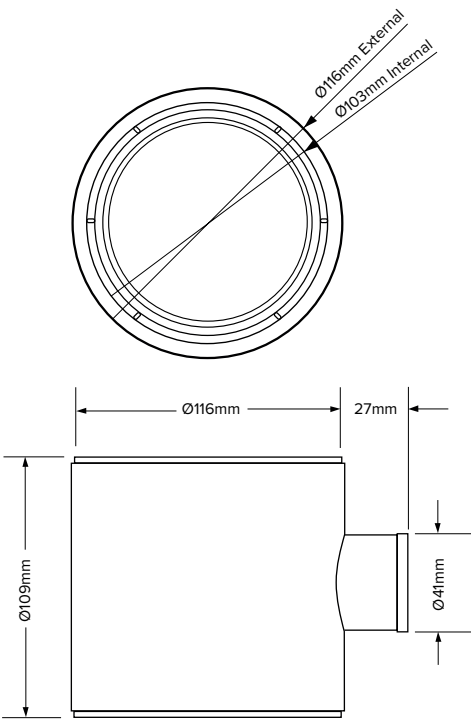
PRODUCT FEATURES

The CONTRAP100 Ø100mm condensation trap is manufactured from white PVC and has a minimum free areas of 5,594mm². It has a female adaptor for connection to the outside of Ø100mm ducting.

The CONTRAP100 is installed at the lowest point in vertical rises where moisture from condensation can occur. It captures any moisture running down the inside of the duct and is drained via a Ø22mm overflow pipe connector.

It is manufactured in compliance with Domestic Plastic Ductwork Specification DW/154 and does meet UL95HB flammability standard.

CONDENSATION TRAP Ø100MM DIMENSIONS (MM)



CONDENSATION DRAIN

| CODE | CONNECTION | DESCRIPTION | MATERIAL | COLOUR |
|------------|------------|----------------------------|---------------|--------|
| MVHR-DRAIN | Ø21.5mm | In-Line Condensation Drain | Polypropylene | White |

| HepvO® DIMENSIONS | | | | | | |
|-------------------|-----|-------|-------|-------|------|------|
| SIZE MM | C | E | L | W | Z | H |
| 32mm | 8.0 | 171.0 | 208.0 | 211.0 | 40.0 | 70.0 |
| 40mm | 5.0 | 171.0 | 208.0 | 213.0 | 40.0 | 73.0 |

Notes:

1. Dimensions are nominal and may vary slightly due to compression of the rubber seals
2. When fixed to a pipe it is recommended that MHVR-DRAIN should remain accessible

DYNO TIES

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | COLOUR | FLAMMABILITY RATING | TEMPERATURE RESISTANCE | |
|------|--------------|-----------------|----------|--------|---------------------|------------------------------|---------------------------|
| DT33 | Up to Ø200mm | Nylon dyno ties | Nylon 66 | Black | UL94V0 | Installation: -10°C to +85°C | Operation: -40°C to +85°C |

| PART NUMBER | SUITABLE FOR DIAMETER | LENGTH | WIDTH | MINIMUM LOOP TENSILE |
|-------------|-----------------------|--------|-------|----------------------|
| DT33 | Ø270mm | 920mm | 9mm | 80kg |

OVERVIEW

Dyno ties are designed to secure flexible ducts to outlets, pipes and other fittings. Made of high strength nylon, they are easily and quickly installed.



DUCT SEALANT

| CODE | PRODUCT FEATURES |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PVCDEAL | Acrylic sealant suitable for internal and external use that provides a permanently flexible and long lasting seal that adheres to virtually all materials. Contains anti-fungal agent to prevent mould growth in areas of high humidity and can be overpainted. |

DESCRIPTION

➤ **FORM** - READY TO USE THIXOTROPIC PASTE, VISCOCITY CA. 250,000CPS

➤ **SPECIFIC GRAVITY** - 1.65-1.69

➤ **ELONGATION AT BREAK (%)** - CA. 100%

➤ **HARDNESS (SHORE A)** - APPROXIMATELY 40

➤ **TACK FREE TIME** - 15 TO 60 MINS, DEPENDENT ON THICKNESS, AMBIENT TEMPERATURE AND HUMIDITY

➤ **FULL CURE** - 3 TO 5 DAYS, DEPENDENT ON THICKNESS, AMBIENT TEMPERATURE AND HUMIDITY

➤ **SOLIDS CONTENT** - 80-84%

➤ **SLUMP RESISTANCE** - NO SLUMP AT 25°C WHEN PLACED IN A 20MM X 10MM VERTICAL CHANNEL

➤ **APPLICATION TEMP. RANGE** - +4°C TO +40°C

➤ **SERVICE TEMP. RANGE** - (-15°C) TO +75°C

➤ **CHEMICAL RESISTANCE** - DILUTE ACIDS - FAIR; DILUTE ALKALINE - FAIR; ALPHATIC HYDROCARBONS - FAIR; AROMATIC HYDROCARBONS - POOR

➤ **MOVEMENT ACCOMMODATION** - LOW TO MEDIUM (+/-7.5%)

➤ **DURABILITY** - UP TO 15 YEARS WHEN USED AS RECOMMENDED

➤ **SHELF LIFE** - UP TO 26 MONTHS WHEN STORED IN UNOPENED CARTRIDGES UNDER COOL DRY CONDITIONS. AVOID FROST

➤ **COMPATIBILITY** - CAN BE USED IN CONTACT WITH MOST BUILDING AND DECORATING MATERIALS BUT SHOULD NOT BE USED AGAINST BITUMINOUS MATERIALS

➤ **LIMITATIONS** - SHOULD NOT BE USED IN CONDITIONS OF CONTINUOUS IMMERSION, BELOW GROUND LEVEL, IN AREAS OF HIGH ABRASION (E.G. FLOOR JOINTS)

DUCT SEALING TAPE

| CODE | TAPE THICKNESS | FOIL THICKNESS | DESCRIPTION | MATERIAL |
|-----------|--------------------------|----------------|-------------------|-----------|
| PVC50TP45 | 0.060mms (without liner) | 0.030mms | Duct sealing tape | Aluminium |

| PEEL ADHESION TO STEEL | LOOP TACK | SHEAR (STATIC) | FIRE PROTECTION | MINIMUM APPLICATION TEMP. | SERVICE RANGE | SHELF LIFE | TAPE LENGTH |
|------------------------|-----------|----------------|-------------------------------------------|---------------------------|----------------|-----------------------------|-------------|
| 1000N/M | 800N/M | 87 hours @ 1kg | Conforms to Class O BS476 part 7 & 6 1987 | 0°C | -20°C to 120°C | 12 months (PSMA conditions) | 45m |

PRODUCT FEATURES

A 30 Micron soft-tempered bright aluminium foil. Coated with high tack pressure adhesive which has excellent UV light resistance on a white glassine liner.

APPLICATIONS

This product is recommended where a moisture barrier and cold weather performance is required.

WARRANTIES

These figures are average values and should not be regarded as maximum or minimum values for specification purpose.

The purchaser shall be responsible for determining the suitability of this product.

Goods which prove to be defected through faulty material or workmanship must be returned to us carriage paid.

These will be replaced or credited. We shall not be liable for consequential damage incurred in the use of this material.





ACOUSTIC INTUMESCENT MASTIC

| CODE | SLUMP | DMAX JOINT WIDTH | WORKING TIME | SKIN OVER TIME | TACK FREE TIME |
|----------|--------------------------|------------------|--------------|----------------|----------------|
| PVCFSEAL | Nil in joints up to 50mm | 50mm | 10 minutes | 10 minutes | 15 minutes |

| JOINT MOVEMENT | CURE RATE | FIRE TEST TEMP. | CLEANING | PACKAGING |
|--------------------------|-----------------------------------------|----------------------------------|-------------------------------|-----------------------|
| +/- 20% of original size | 3mm/24hrs at 50% relative humidity +23% | 1160°C - intumescent @ ca. 135°C | Uncured with a dampened cloth | C3 plastic cartridges |



PRODUCT FEATURES

Five hour rated, one part, emulsion acrylic-based, intumescent acoustic sealant that gives a firm, yet flexible seal to joints in a variety of fire-rated structures.

Tested following the principles of BS EN 1366-4:2006 as detailed in Warrington Fire Research Report No. 181967 (May 2009). Acoustic rated to BS EN ISO 140/3.

Tested for air permeability to EN13141-1. The product, in suitably designed joint will resist the passage of fire for up to 5 hours.

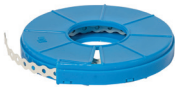
The selected fillers used in this formation also make it suitable as an acoustic sealant. Product has a service life expectancy in excess of 25 years.

| FIRE TEST RESULTS - WALL SPECIMENS | | | | | |
|------------------------------------|-----------------------------------|------------------|-------------------|-----------|------------|
| SPECIMEN | GAP FACE MATERIAL COMBINATION | WIDTH/DEPTH (MM) | BACKING MATERIAL | INTEGRITY | INSULATION |
| E | Aerated concrete/steel | 30/15mm | PE open cell foam | 300mm | 91mm |
| F | Aerated concrete/aerated concrete | 20/10mm | PE open cell foam | 300mm | 300mm |
| G | Aerated concrete/aerated concrete | 10/10mm | PE open cell foam | 300mm | # |
| H | Aerated concrete/aerated concrete | 30/10mm | PE open cell foam | 300mm | 215mm |

| FIRE TEST RESULTS - FLOOR SPECIMENS | | | | | |
|-------------------------------------|-----------------------------------|------------------|-------------------|-----------|------------|
| SPECIMEN | GAP FACE MATERIAL COMBINATION | WIDTH/DEPTH (MM) | BACKING MATERIAL | INTEGRITY | INSULATION |
| A | Aerated concrete/aerated concrete | 30/15mm | PE open cell foam | 300mm | 66mm |
| B | Aerated concrete/aerated concrete | 20/10mm | PE open cell foam | 300mm | 13mm |
| C | Aerated concrete/aerated concrete | 10/10mm | PE open cell foam | 300mm | # |
| D | Aerated concrete/aerated concrete | 50/25mm | PE open cell foam | 300mm | 214mm |

HANGING BANDING

| CODE | DESCRIPTION | MATERIAL | SIZE | ROLL LENGTH | COLOUR |
|---------|-------------------------|------------------|------|-------------|--------|
| PVCBAND | Perforated duct banding | Galvanised steel | 12mm | 10mm | White |



JUBILEE CLIP

| CODE | DUCT SIZE | DESCRIPTION | MATERIAL | BAND | |
|--------------|----------------|-------------------------|-------------------------------------------------------|-------|-----------|
| | | | | WIDTH | THICKNESS |
| J/CLIP SIZE6 | Ø60mm - Ø175mm | Jubilee clip duct clamp | Stainless steel 430 band, coated steel locking device | 9mm | 0.6mm |



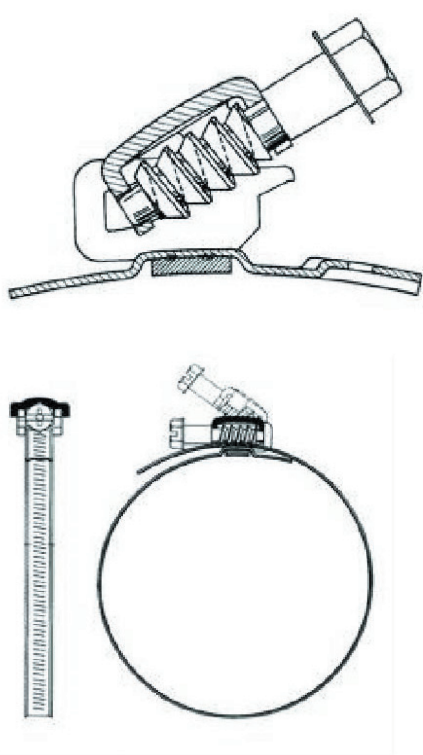
OVERVIEW

Jubilee clips consist of a continuous serrated banding with rounded edges. The tightening device consists of a tilting housing and screw.

This system allows a quick and easy clamping of ducts thanks to the automatic locking that forms the diameter.

Screw for locking device is hexagonal, cruciform and slotted head.

JUBILEE CLIP TECHNICAL DIAGRAM



METAL DUCT SEALANT

| CODE | DESCRIPTION |
|----------|--------------------------------------|
| GALVSEAL | Sealant for galvanised metal ducting |



OVERVIEW

High performance galvanised metal duct sealant. Is a solvent-free adhesive and sealant specifically designed for sealing high velocity duct work in heating and ventilation systems.

APPROVALS / STANDARDS

Certified under the harmonised European standard EN15651 for façade interior applications in compliance with the Construction Product Regulation.

DESCRIPTION

- **CHEMICAL BASE** - ACRYLIC WATER-BASED PASTE
- **PACKAGING** - 295ML CARTRIDGE
- **COLOUR** - GREY
- **SHELF LIFE** - USE WITHIN 36 MONTHS
- **STORAGE CONDITIONS** - STORE IN COOL DRY CONDITIONS BETWEEN 5°C AND 25°C, PROTECT FROM FROSTY
- **DENSITY** - 1.64 - 1.70 G/CM³
- **SOLIDS CONTENT** - ~80%

TECHNICAL INFORMATION

- **SHORE A HARDNESS** - APPROXIMATELY 30
- **ELONGATION AT BREAK** - 250-300% DIN53504
- **MOVEMENT CAPABILITY** - LOW TO MEDIUM (+/- 5%)
- **CHEMICAL RESISTANCE** - DILUTE ACIDS - FAIR;
DILUTE ALKALINE - FAIR;
ALIPHATIC HYDROCARBONS - FAIR
AROMATIC HYDROCARBONS - POOR
- **SERVICE TEMP.** - -15°C TO 75°C

APPLICATION INFORMATION

- **AMBIENT AIR TEMP.** - +4°C TO +40°C
- **CURING TIME** - 3 TO 5 DAYS, DEPENDENT ON THICKNESS, AMBIENT TEMPERATURE AND HUMIDITY
- **TACK FREE TIME** - 15 TO 60 MINS, DEPENDENT ON THICKNESS, AMBIENT TEMPERATURE AND HUMIDITY



MINERAL WOOL DUCT WRAP

| CODE | DESCRIPTION | THICKNESS OF ROLL MM | LENGTH OF ROLL MM | WIDTH OF ROLL MM | ROLLS PER PACK | AREA PER PACK M² |
|--------|-------------|----------------------|-------------------|------------------|----------------|------------------|
| 779165 | Duct wrap | 25mm | 5000mm | 1000mm | 2 | 10m² |

| CODE | DESCRIPTION | THERMAL CONDUCTIVITY | | | | | |
|--------|-------------|----------------------|-------|-------|-------|-------|-------|
| | | T°C | 10 | 50 | 100 | 150 | 200 |
| 779165 | Duct wrap | λ (W/mK) | 0.034 | 0.040 | 0.050 | 0.063 | 0.079 |



OVERVIEW

Lightweight, flexible insulation roll, faced with reinforced aluminium foil.

DENSITY

The nominal density is 45kg/m³.

FIRE

Classified A1 in accordance with BS EN 13501-1 and fully comply with the definitions of non-combustible in all UK and Ireland Building Regulations.

WATER VAPOUR RESISTANCE

When suitably taped, the aluminium foil gives water vapour resistance of approx. 1000MNs/g.

SERVICE TEMPERATURE AND LIMITING SURFACE TEMPERATURE

Can be used for service temperatures of up to 230°C. The limiting outer foil face temperature is 80°C to maintain facing bond strength.

ACOUSTICS

It is sometimes desirable to improve the acoustic insulation on pipes, especially those in which gases, fluids or particle solids are transported at high velocities. The use of duct wrap can considerably improve the level of environmental sound.

PH NEUTRALITY

Chemically compatibly with all types of pipes, equipment and fittings. (Guidance is given in BS5970 regarding the treatment of austenitic stainless steel pipework and fittings). Stone wool insulation is chemically inert. A typical aqueous extract is neutral or slightly alkaline (pH 7 to 9.5).

DURABILITY

Effective protection for the lifetime of the ducts it insulates.

BIOLOGICAL

Biological

Naturally inert, rot-proof material that does not encourage or support the growth of fungi, moulds or bacteria. Stone wool does not offer sustenance to insects or vermin.



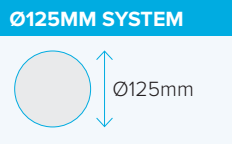
FIRE DAMPER AIR VALVE

| CODE | DESCRIPTION | DUCT SIZE | MATERIAL | COLOUR | MIN. OPERATING TEMP | MAX. OPERATING TEMP |
|---------|-----------------------------|-----------|---------------------------------------|--------|---------------------|---------------------|
| V-FD125 | Fire-rated damper air valve | Ø125mm | Intumescent epoxy powder-coated steel | White | -15°C | +60°C |

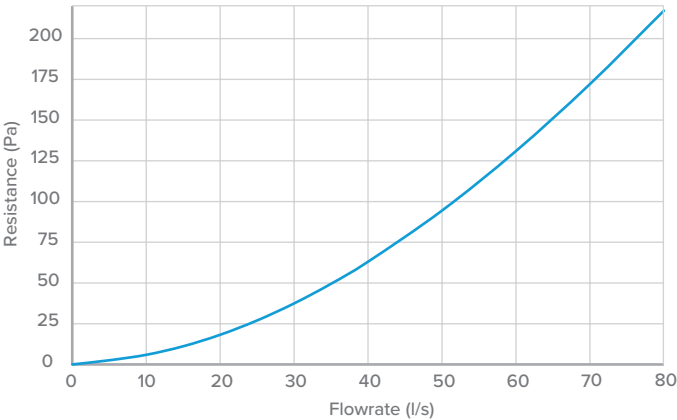


| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | | | | | | | | |
|-------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 5l/s | 10l/s | 15l/s | 20l/s | 25l/s | 30l/s | 35l/s | 40l/s | 50l/s | 60l/s | 70l/s | 80l/s |
| V-FD125 | Ø150mm | 2.6 | 5.9 | 11.2 | 18.2 | 27.0 | 37.5 | 49.5 | 63.1 | 94.5 | 131.0 | 172.1 | 217.1 |

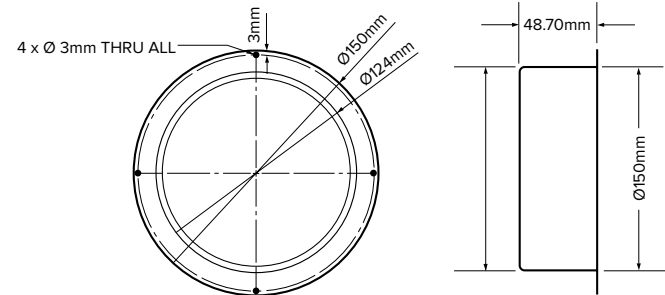
Resistances based on a 10mm opening



Ø125mm



BACK VIEW (FIXING BODY)



FEATURES

- Meets the requirement of Building Regulations Approved Document B
- Maintains integrity of fire rated ceilings for up to 60 minutes
- Alternative to more expensive fire dampers
- Fits in exactly the same way as a standard metal air valve
- Air flow is unaffected
- Easy to retrofit in place of existing metal air valves
- Highly cost-effective

FIRE TESTING

- Tested for 60 minutes according to BS EN 1365-2 fire resistance tests for loadbearing elements - floors and roofs

FIRE WRAP

| CODE | DUCT SIZE | DESCRIPTION | NORMAL THICKNESS | NOMINAL EXTERNAL WIDTH/DIAMETER | NOMINAL EXTERNAL HEIGHT | LENGTH | FIRE RATING |
|-----------|--------------|----------------------|------------------|---------------------------------|-------------------------|--------|-------------|
| FW220X90T | 220mm x 90mm | Fire-rated duct wrap | 10-15mm | 244mm | 124mm | 180mm | Up to EI120 |
| FW204X60T | 204mm x 60mm | Fire-rated duct wrap | 10-15mm | 228mm | 89mm | 180mm | Up to EI120 |
| FW110X54T | 110mm x 54mm | Fire-rated duct wrap | 10-15mm | 134mm | 83mm | 180mm | Up to EI120 |



| CODE | DUCT SIZE | DESCRIPTION | NORMAL THICKNESS | NOMINAL EXTERNAL WIDTH/DIAMETER | NOMINAL EXTERNAL HEIGHT | LENGTH | FIRE RATING |
|---------|-----------|----------------------|------------------|---------------------------------|-------------------------|--------|-------------|
| PVC688T | Ø150mm | Fire-rated duct wrap | 20mm | 200mm | - | 280mm | Up to EI120 |
| PVC588T | Ø125mm | Fire-rated duct wrap | 15mm | 160mm | - | 280mm | Up to EI120 |
| PVC488T | Ø100mm | Fire-rated duct wrap | 15mm | 134mm | - | 280mm | Up to EI120 |



FEATURES

- CE Marked
- Simple and quick to install, no screws or support needed
- No metal sleeving required
- Available to fit most common duct sizes
- Can be tightly fitted against ceiling soffit due to low-profile design
- Assessed for use in series around multiple duct penetrations

Assessed for installation in:

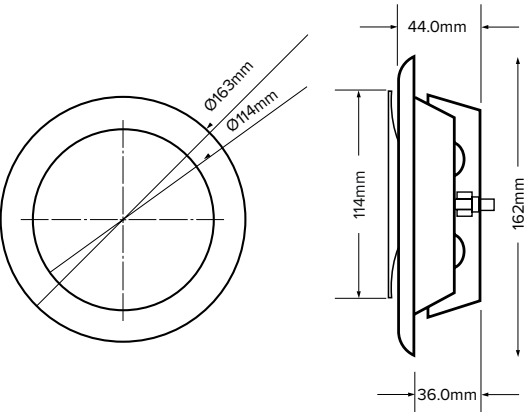
- Plasterboard clad steel stud partitions
- Single layer and double layer partitions
- 30, 60 and 120 minute walls
- Masonry walls
- Ablative coated fire blatts
- Up to 3No. ducts side by side
- Up to 2No. stacked ducts
- External wall applications

FIRE TESTING

Full scale BS EN1366-3 fire resistance tests for service installations, penetration seals. Uncapped/Uncapped (U/U) tested, 30, 60 and up to 120 minute fire rated.

Please ensure fire wraps are only applied to straight PVC ducting lengths.
For further information, please contact Nuaire for technical data and installation documents.

FRONT VIEW (CEILING VALVE)



RADIAL
RADIAL RANGE

RADIAL DUCT LENGTH

| CODE | DUCT SIZE | DESCRIPTION |
|-------------|-----------|--------------------------------------------|
| NRDD75-B25M | Ø75mm | Semi-Rigid Radial Duct (Blue) - 25m Length |
| NRDD75-B50M | Ø75mm | Semi-Rigid Radial Duct (Blue) - 50m Length |

90° BEND

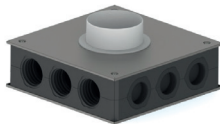
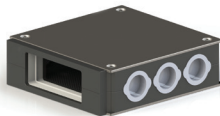
| PART NUMBER | DUCT SIZE | DESCRIPTION |
|-------------|-----------|----------------------------|
| NRDD75-90 | Ø75mm | Semi-Rigid Radial 90° Bend |

CONNECTOR

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|-------------|-----------|------------------------------------|
| NRDD75-CON | Ø75mm | Semi-Rigid Straight Duct Connector |

MANIFOLD BOX

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|----------------|---------------------|--------------------------------------|
| NRDD75-MAN-150 | Ø150mm, Ø75mm | Manifold Box (Round) |
| NRDD75-MAN-220 | 220mm X 90mm, Ø75mm | Manifold Box (Rectangular) |
| NRDD75-CON-CAP | Ø75mm | Manifold Protective Caps |
| NRDD75-RDLAB | - | Manifold Extract & Supply Label Kits |



RADIAL IN-LINE ADAPTOR

| CODE | DUCT SIZE | DESCRIPTION |
|----------------|-----------------------|-----------------------------------------------------------|
| NRDD75-RDA-3FC | 220mm X 90mm to Ø75mm | In-Line Adaptor 220 x 90mm Rectangular to 3 x Ø75mm Round |
| NRDD75-RDA-3FA | 204mm X 60mm to Ø75mm | In-Line Adaptor 204 x 60mm Rectangular to 3 x Ø75mm Round |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | |
|----------------|-------------------|------------------|-------|-------|-------|-------|
| | | 8l/s | 18l/s | 15l/s | 21l/s | 30l/s |
| NRDD75-RDA-3FC | Rect to Round (A) | 0.1 | 0.6 | 1.0 | 2.2 | 4.3 |
| | Round to Rect (A) | 0.6 | 1.3 | 1.7 | 3.5 | 6.5 |
| NRDD75-RDA-3FA | Rect to Round (B) | -0.3 | -0.2 | -0.2 | 1.6 | 2.7 |
| | Round to Rect (B) | 1.0 | 2.2 | 2.7 | 5.3 | 10.3 |

90° VERTICAL BEND ADAPTOR

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|------------------|-----------------------|-----------------------------------------------------------------|
| NRDD75-RDA-3FV90 | 220mm x 90mm to Ø75mm | 220 x 90mm Rectangular to 3 x Ø75mm Round Vertical Bend Adaptor |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | |
|------------------|-------------------|------------------|-------|-------|-------|-------|
| | | 8l/s | 18l/s | 15l/s | 21l/s | 30l/s |
| NRDD75-RDA-3FV90 | Rect to Round (A) | 0.4 | 1.0 | 1.4 | 3.2 | 5.6 |
| | Round to Rect (A) | 0.7 | 1.6 | 2.0 | 4.2 | 8.3 |



90° HORIZONTAL BEND ADAPTOR

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|------------------|-----------------------|-------------------------------------------------------------------|
| NRDD75-RDA-3FH90 | 220mm x 90mm to Ø75mm | 220 x 90mm Rectangular to 3 x Ø75mm Round Horizontal Bend Adaptor |



| PART NUMBER | DUCT SIZE | RESISTANCE IN Pa | | | | |
|------------------|-------------------|------------------|-------|-------|-------|-------|
| | | 8l/s | 18l/s | 15l/s | 21l/s | 30l/s |
| NRDD75-RDA-3FH90 | Rect to Round (A) | 0.4 | 1.0 | 1.4 | 3.2 | 5.6 |
| | Round to Rect (A) | 0.7 | 1.6 | 2.0 | 4.2 | 8.3 |

T-PIECE ADAPTOR

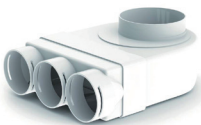
| PART NUMBER | DUCT SIZE | DESCRIPTION |
|----------------|-----------------------|-----------------------------------------------------------------------------------------|
| NRDD75-RDA-6T | 220mm x 90mm to Ø75mm | T-Piece Adaptor 220 x 90mm Rectangular to 6 x Ø75mm Round Radial Sockets |
| NRDD75-RDA-6TB | 220mm x 90mm to Ø75mm | T-Piece Adaptor 220 x 90mm Rectangular to 6 x Ø75mm Round Radial Sockets, 3 from Branch |
| NRDD75-RDA-3T | 220mm x 90mm to Ø75mm | T-Piece Adaptor 220 x 90mm Rectangular to 3 x Ø75mm Round Radial Sockets |
| NRDD75-RDLAB | - | Manifold Extract & Supply Label Kits |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | |
|----------------|-----------------------|-------------------|------------------|-------|-------|-------|
| | | | 0l/s | 10l/s | 20l/s | 30l/s |
| NRDD75-RDA-6T | 220mm x 90mm to Ø75mm | Rect to Round (A) | 0.0 | 1.0 | 2.7 | 5.2 |
| | | Round to Rect (A) | 0.0 | -0.7 | -1.4 | -2.2 |
| NRDD75-RDA-6TB | 220mm x 90mm to Ø75mm | Rect to Round (B) | 0.0 | 1.1 | 3.3 | 6.5 |
| | | Round to Rect (B) | 0.0 | -0.6 | -1.1 | -1.9 |
| NRDD75-RDA-3T | 220mm x 90mm to Ø75mm | Rect to Round (C) | 0.0 | 0.6 | 1.5 | 2.6 |
| | | Round to Rect (C) | 0.0 | -0.4 | -1.0 | -1.8 |

RADIAL PLENUM

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|---------------------|-----------------|----------------------------------------|
| NRDD75-RDA-3R90-150 | Ø150mm to Ø75mm | Ø150mm Round to 3 x Ø75mm Round Plenum |
| NRDD75-RDA-3R90-125 | Ø125mm to Ø75mm | Ø125mm Round to 3 x Ø75mm Round Plenum |



| PART NUMBER | DUCT SIZE | | RESISTANCE IN Pa | | | | |
|---------------------|-----------------|-------------------|------------------|-------|-------|-------|-------|
| | | | 8l/s | 18l/s | 15l/s | 21l/s | 30l/s |
| NRDD75-RDA-3R90-150 | Ø150mm to Ø75mm | Rect to Round (A) | 0.6 | 1.3 | 1.8 | 3.9 | 7.3 |
| | | Round to Rect (A) | 1.1 | 1.9 | 2.3 | 4.8 | 9.7 |
| NRDD75-RDA-3R90-125 | Ø125mm to Ø75mm | Rect to Round (B) | 0.5 | 1.4 | 1.7 | 3.7 | 7.3 |
| | | Round to Rect (B) | 1.5 | 2.9 | 3.7 | 7.2 | 14.3 |

RADIAL FIRE SLEEVE

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|----------------|-----------|-------------------------------------------|
| NRDD75-RDA-FSK | - | RDA Adaptor Products Fire Stopping Sleeve |
| NRDD75-RDF575 | - | Semi Rigid Duct Fire Stopping Sleeve |



RADIAL ANCILLARIES

| PART NUMBER | DUCT SIZE | DESCRIPTION |
|------------------|-----------|-------------------------------------------------------------|
| NRDD75-RDCLIP75 | Ø75mm | Duct Clips Ø75mm - Pack of 10 x |
| NRDD75-RDI-25X5M | - | Insulation for Ø75mm Semi-Rigid Duct |
| NRDD75-RDA-CSK3 | - | Adaptor Spares - 2 x Blanking Caps, 3 x Clips and 3 x Seals |
| NRDD75-RDA-CSK6 | - | Adaptor Spares - 4 x Blanking Caps, 5 x Clips and 6 x Seals |



NOTES



NOTES

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