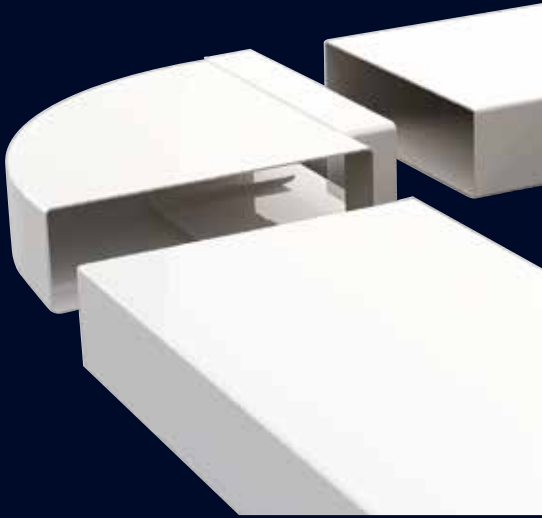


Flat Channel Duct

220 x 90 mm



KEY FEATURES

- Easy and quick installation
- Airtight
- Lightweight and easy to handle
- Suitable to adapt to standard rigid round ductwork
- Efficient airflow
- Durable construction



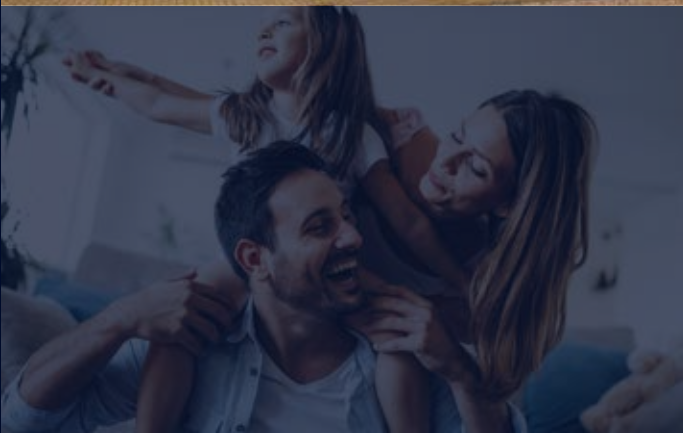
220 x 90 mm Rectangular flat channel duct offers increased free area to accommodate larger airflow whilst ensuring ceiling installation space is kept to a minimum.

This high-flow ducting offers a spacious free area while maintaining a compact design for easy ceiling installation, making it an ideal solution for both commercial and residential projects

This ducting is made from (white) PVC and has a minimum free area of 18.576 mm².

MODELS

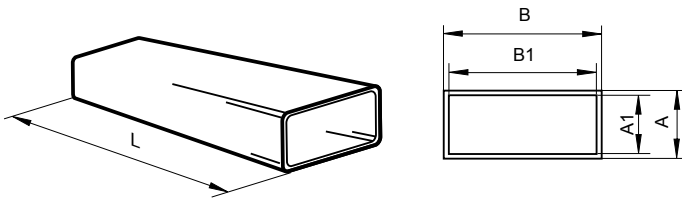
Part No.	Description
90002303	220 x 90 mm x 1M Flat Channel Duct
90002316	220 X 90mm X 1.5M Flat Channel Duct



TECHNICAL DATA

Specification	220 x 90mm Flat Channel Ducting
Max airflow	121 l/s / 435 m ³ /h
Weight	1810 g
Colour	White
Material	PVC
Min free area	18.576 mm ²
Application range	-30C to +70°C
Fire resistance	Class E
Part number	90002303
EAN	5019009338972
Part number	90002316
EAN	5019009339092

DIMENSIONS

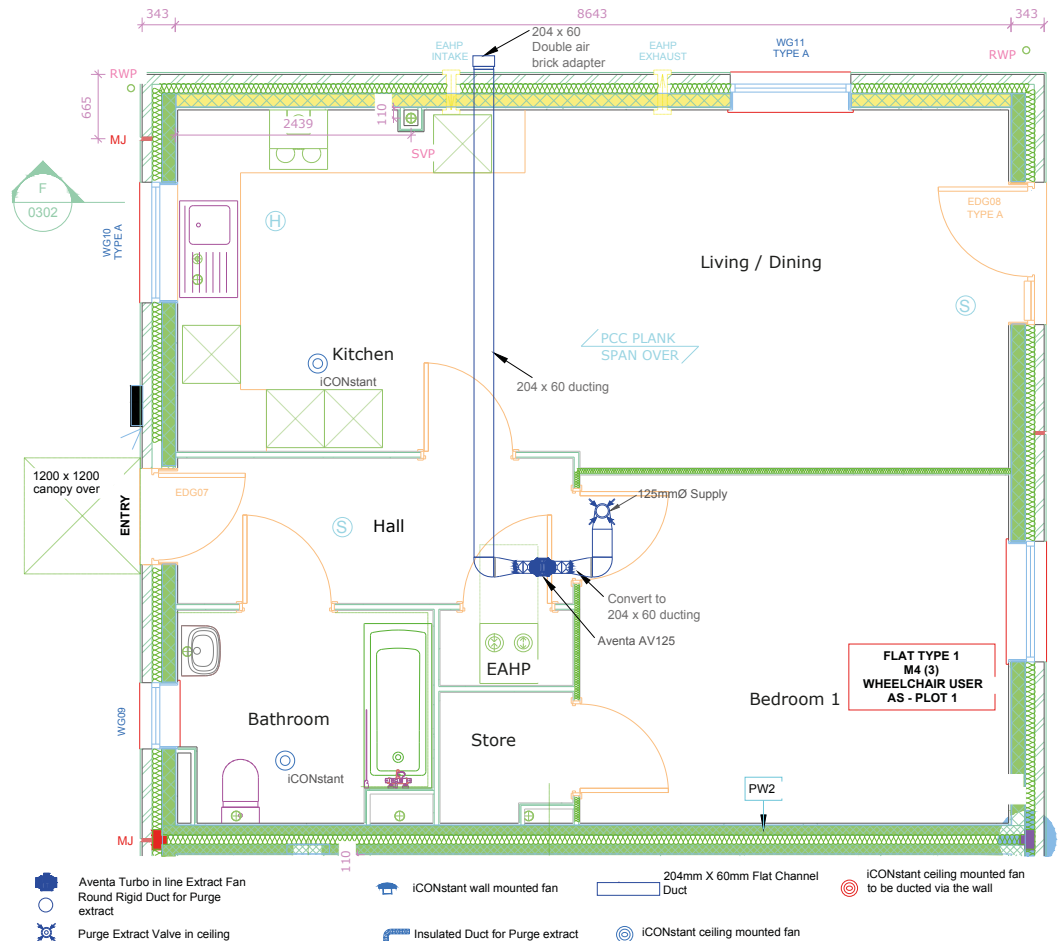


Product in mm	A	B	A1	B1	L
90002303	90	220	86	216	1000
90002316	90	220	86	216	1500

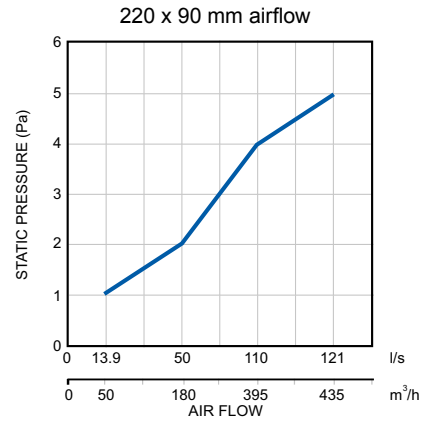
DESIGN EXAMPLE

This example demonstrates an efficient ventilation solution using 204x60mm low-profile ducting integrated within a space-constrained interior layout.

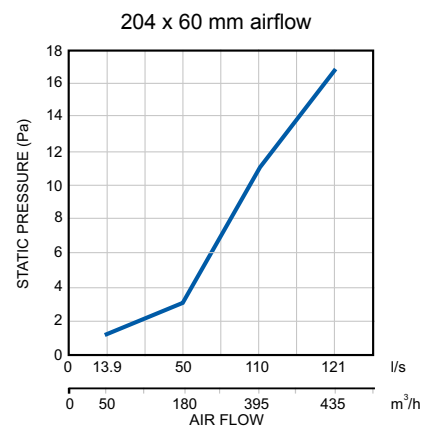
The system is designed to deliver effective air distribution while minimising installation depth, making it ideal for residential and light commercial applications.



PERFORMANCE - 220 x 90 mm duct



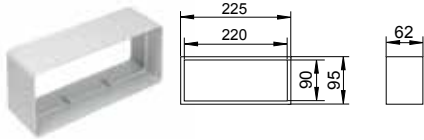
PERFORMANCE - 204 x 60 mm duct



Accessories

Airflat Ducting 220 mm x 90 mm

220x90 Flat Channel Duct Connector



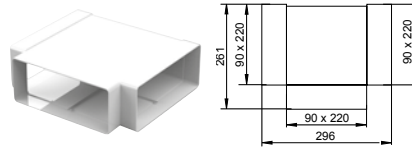
Part No. 90002305

Connects 220 x 90 mm flat channel ducting

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002305	N/A	N/A	N/A	N/A	N/A

220x90 Equal T Piece



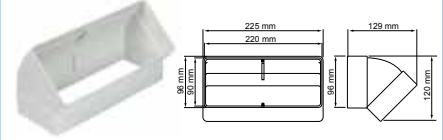
Part No. 90002306

Equal horizontal T piece made from polystyrene. For 220 x 90 mm ducting system

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002306	N/A	N/A	N/A	N/A	N/A

220x90 45 DEG Vertical Bend



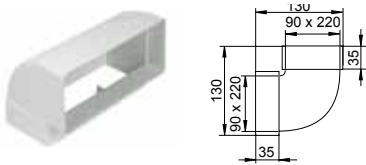
Part No. 90002307

45° vertical bend made from polystyrene. For 220 x 90 mm ducting system

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002307	<1	<1	0.5	1.4	1.9

220x90 90 DEG Vertical Bend



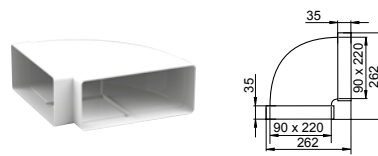
Part No. 90002308

90° vertical bend made from polystyrene. For 220x90mm ducting system

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002308	<1	<1	1.7	4.5	6.2

220x90 90 DEG Horizontal Bend



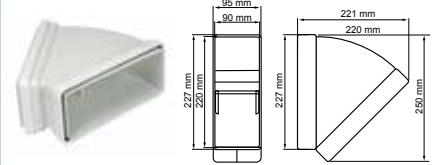
Part No. 90002309

90° horizontal bend made from polystyrene. For 220x90mm ducting system

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002309	<1	<1	1.8	5.5	7.3

220x90 45 DEG Horizontal Bend



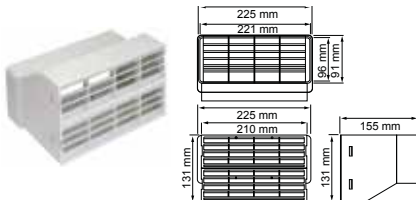
Part No. 90002310

45° horizontal bend made from polystyrene. For 220x90mm ducting system

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002310	<1	<1	<1	1.5	2.4

220x90 Double Airbricks



Part No. 90000073

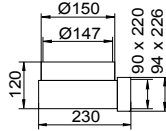
(220x90mm Double Airbrick White)

Part No. 90000078 (220x90mm Double Airbrick Terracotta)

Part No. 90000133 (220x90mm Double Airbrick Cotswold)

Part No. 90000074 (220x90mm Double Airbrick Adaptor)

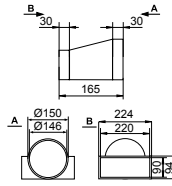
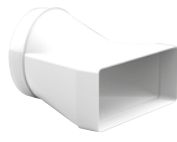
220x90 x 125mm 90 DEG Plenum



Part No. 90002313

Used for transitioning duct runs from 220x90 to 125mm round rigid ducting. Made from polystyrene. Also available in 150mm dia

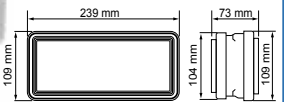
220x90 Rectangular to Round 150mm Adaptor



Part No. 90002314

Used for transitioning duct runs from 220x90mm to 150mm round rigid ducting. Made from polystyrene

220x90 Rectangular Self-Seal Coupler (Duct to Fitting)



Part No. 90002326

For duct to fitting connections in 220x90mm system to reduce air leakage. 90002311 available for duct to duct connections

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002313	<1	1.4	2.8	7.8	10.6

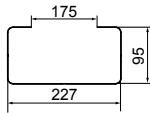
Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002314	<1	<1	0.6	1.1	1.7

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002326	0.03	0.08	0.12	0.18	0.3
90002311	0.013	0.035	0.05	0.07	0.1

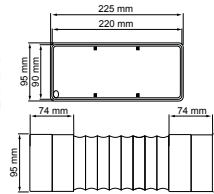
220x90 Flat Channel Clip



Part No. 90002315

Used for mounting 220x90mm flat channel duct to the wall, ceiling or any other plane surface. Made from plastic

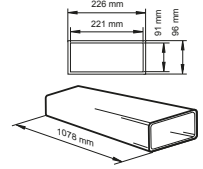
220x90 Flexible Horizontal Bend



Part No. 90002317

220x90mm 0.5M flexible rectangular bend with female adaptor for outside connection. Made from polystyrene

220x90 Duct Silencer



Part No. 90002318

220x90mm duct silencer 1M in length, lined with acoustic material. Made from UPVC

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002315	N/A	N/A	N/A	N/A	N/A

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002317	N/A	N/A	N/A	N/A	N/A

Resistance (Pa) at flow rate

Part No.	10 l/s	20 l/s	30 l/s	40 l/s	60 l/s
90002318	1	2	3.9	9.9	13.8

ACCESSORIES



DV145 (R) Adroit (Integral CO₂ Sensor) No: 90001269

Whole-house mechanical ventilation with heat recovery system with built-in CO₂ sensor.



DV130 Entro-V No: 90001245

The DV130 Entro-V is a highly efficient, top entry MVHR unit with over 85% thermal efficiency.



Ø150mm x 1M Round Rigid Duct No: 90000049

Ø150mm x 1M round rigid duct length manufactured from white PVC.



220x90mm Double Airbrick (White) No: 90000073

220x90mm Rectangular double airbrick adaptor with grilles (white).

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