VENTILATION
Technical Catalogue

Ventiza Flex
Semi-rigid radial ducting system

wavin

orbia

Contents

Advantages and benefits
Semi-rigid radial ducting systems

Superior airflow and performance
Semi-rigid radial ducting, typically made from materials such as PVC, offers smoother interior surfaces compared to flexible ducting, reducing airflow resistance and pressure drops whilst allowing for a fully flexible ducting system.
The smooth surfaces of semi-rigid radial ducting minimize frictional losses, allowing for more efficient airflow distribution throughout the ventilation system and improving overall system performance.
Antibacterial, antifungal and antistatic layers manufactured into the ducting helps to further improve the quality of the air supplied to the dwellings, improving health of occupants.

Enhanced durability and longevity
Semi-rigid radial ducting is resistant to punctures, tears, and crushing, ensuring durability and longevity in residential applications.
Unlike flexible ducting, which can collapse or become damaged over time (flexible ducting is not an approved solution in Part F of the building regulations), semi-rigid radial ducting maintains its shape and structural integrity, reducing the need for frequent maintenance and replacement. Rigid branch ducting is traditionally used in the UK and is difficult to install due to the design importance of required components having to line up and fit together exactly with specialist low modulus sealant and duct tape. Errors in Rigid duct assembly result in air leakage inefficiency particularly when flat duct systems are required.

Simple and flexible installation
Semi-rigid radial ducting is lightweight and easy to handle, facilitating quick and straightforward installation by HVAC install professionals.
The flexibility of semi-rigid radial ducting allows for a significantly faster system install with easy routing around obstacles and tight spaces, minimizing the need for additional fittings and maximizing usable space within the building envelope. The connecting components are achieved with fast connections (push fit and locking slides), which are air-tight and robust allowing for much easier cleaning than for a branch system.

Reduced leakage and energy loss
The rigid nature of semi-rigid radial ducting minimizes air leakage and duct losses compared to flexible ducting, improving energy efficiency, reducing heating and cooling costs.
By ensuring airtight connections and proper sealing, semi-rigid radial ducting helps maintain the integrity of the ventilation system, preventing air leaks and optimizing thermal performance.

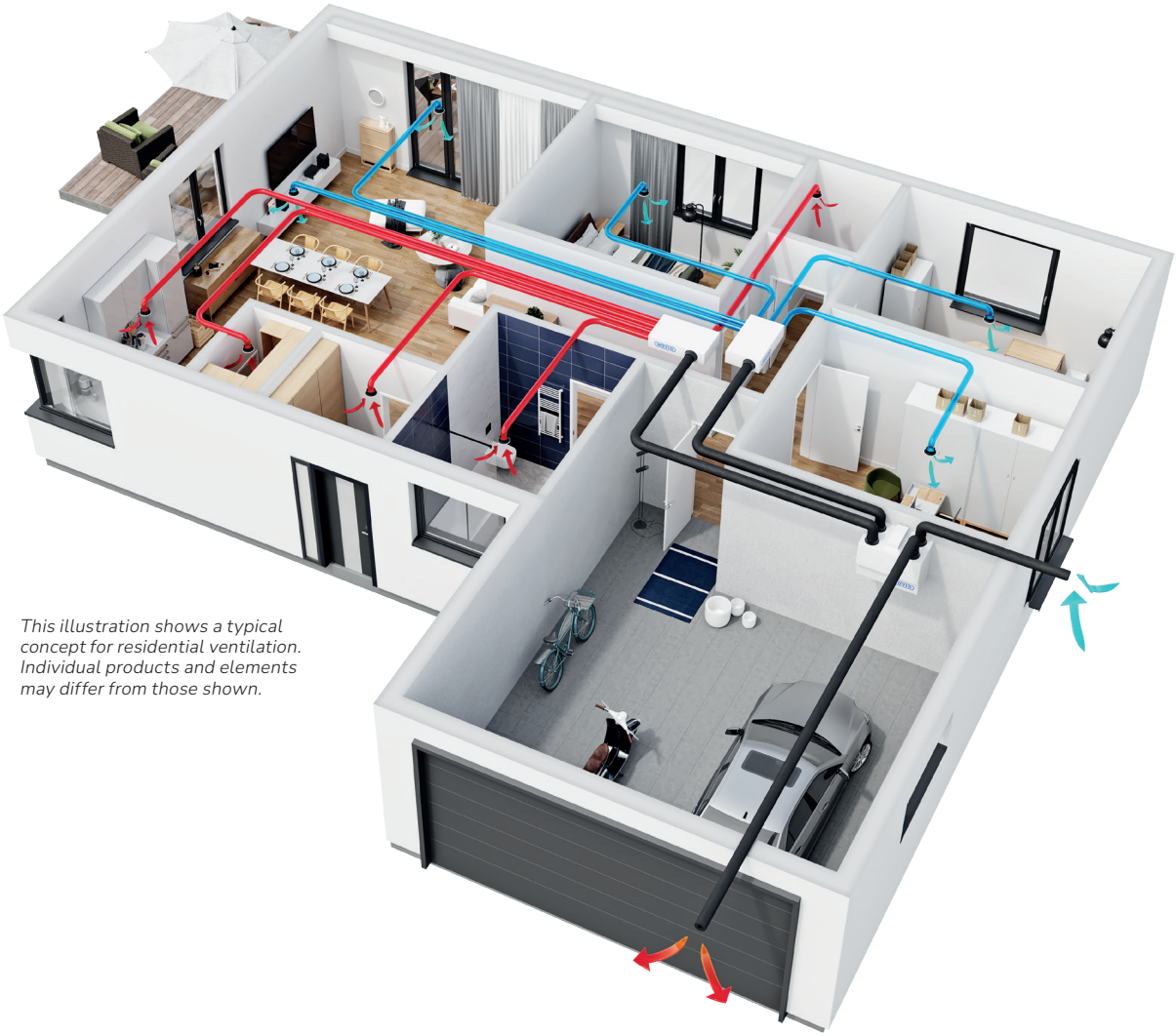
Compliance with building regulations
Semi-rigid radial ducting materials and installation methods comply with relevant building regulations and standards, such as Building Regulations Part F in the UK.
By choosing semi-rigid radial ducting that meets regulatory requirements, homeowners can ensure compliance with ventilation standards and regulations, avoiding potential issues during building inspections, certifications, health and running costs.

Ventiza ducting systems
Component overview

Flex semi-rigid radial ducting

Key advantages of the semi-rigid radial system:

- Material: polypropylene (PP) with thermoplastic elastomer (SEBS).
- Operating temperature range: -20 to +60°C.
- The compact design allows the system to be used in almost any building.
- The modular design allows quick assembly of distributors and expansion boxes even during installation works. Individual elements can be modified by increasing or reducing the number of connection points, as well as changing their location. In larger spaces, dividers can be connected vertically or horizontally.
- High system tightness (class C) guaranteed by the use of high-quality joints and seals.
- Low system pressure losses due to specially designed aerodynamic shape of expansion boxes and distributors.
- Quick and easy installation thanks to the use of snap-on connections, which do not require the use of specialised tools.

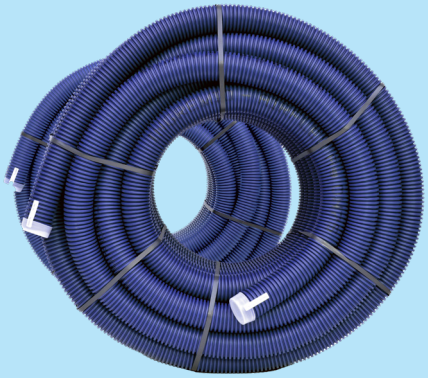


This illustration shows a typical concept for residential ventilation. Individual products and elements may differ from those shown.

Flex technical data

Wavin Ventiza Flex semi-rigid radial ducts are designed for use with domestic Mechnical Ventilation with Heat Recovery (MVHR) systems.

Semi-rigid radial ducting brings a number of great benefits versus traditional rigid plastic systems: continuous runs of up to 50 metres mean less connections to make and less risk of air leakage as a result, as well as simpler mounting and reduced installation times.



Key features

- Supplied in continuous coils of 50 metres in length
- Extremely smooth internal surface to minimise air resistance
- Ribbed design provides high impact strength and mechanical resistance
- Double-wall construction with air void for high acoustic and insulation performance
- Antibacterial and antifungal properties to ensure optimal quality of recirculated air
- Antistatic properties to minimise settling and accumulation of dust in the air system
- Internal wall fluorescent under UV light to aid microbiological analysis
- Manufactured for Wavin in our distinctive blue colour

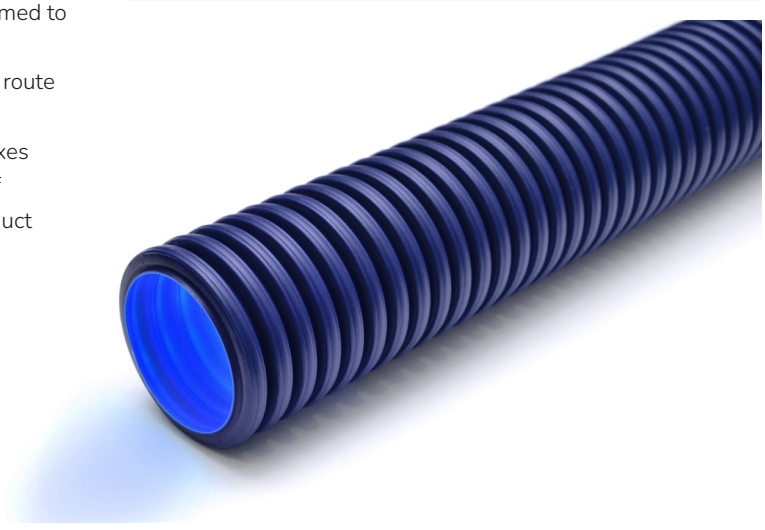
Product benefits

- Continuous length means no joints required every few metres or at every turn and corner - no air leakage creates maximum efficiency
- No sawing or taping required - ducts are easily trimmed to length with a bespoke cutting tool (supplied)
- The flexibility of the duct allows greater freedom of route design and turning angles
- The Ventiza ducting range also includes plenum boxes and connector pieces with airtight seals and ease of installation in mind. See the full Wavin Ventiza product guide for additional information

Technical data

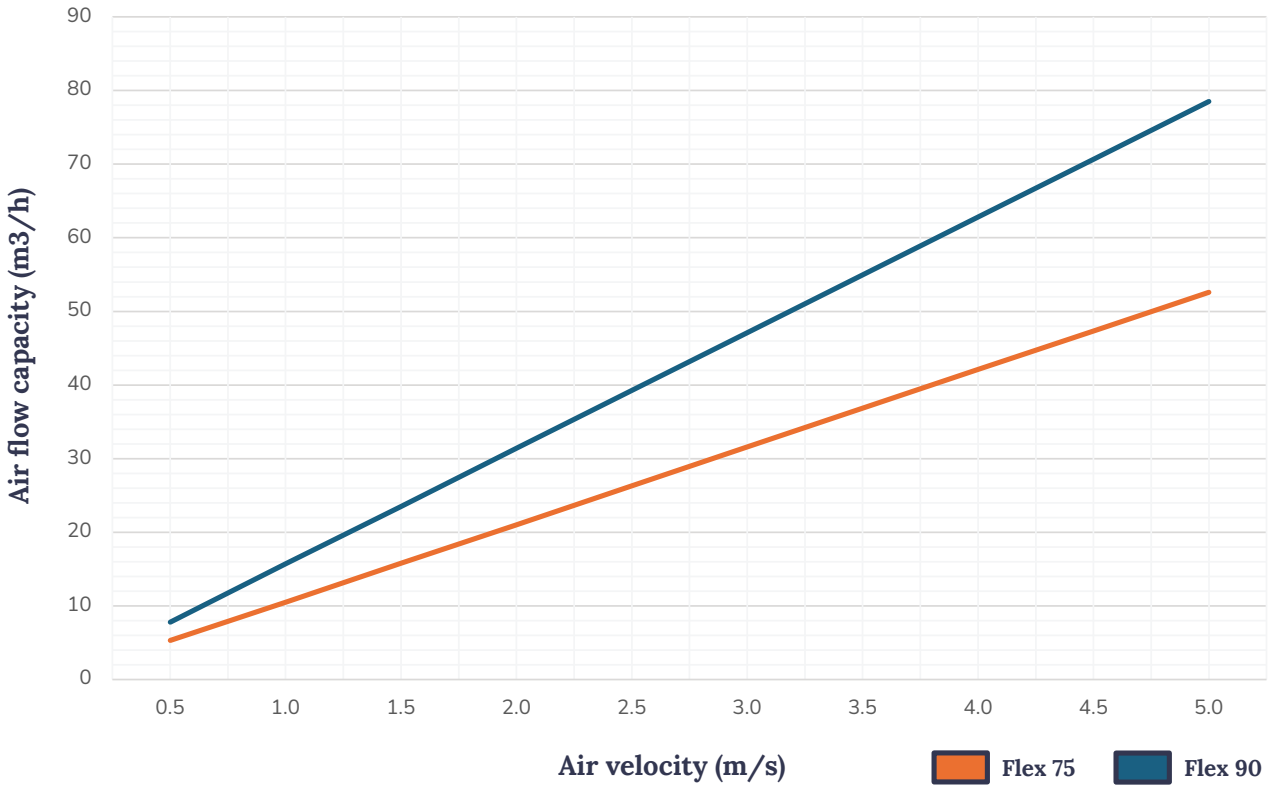
	Flex 75	Flex 90
Product code	4083451	4083450
Material	Modified polyethylene (HDPE-mod.)	
Colour	Blue	
Nominal dimension	75.0 mm	90.0 mm
External diameter	76.2 mm	90.6 mm
Internal diameter	61.0 mm	75.0 mm
Minimum bend radius	170 mm	250 mm
Coil length	50 m	
Coil weight	15.3 kg	19.0 kg

Compression strength	500 N (EN 61386-24)
Impact resistance	N (EN 61386-24)
Longitudinal stiffness	Flexible ducts (EN 13180:2004)
Fire class	Self-extinguishing D-s2,d2 (EN 13501-1:2019:02), halogen-free
Additional features	Antibacterial properties (ISO 22196:2011)
	Antifungal properties (EN ISO 846:2019)
	Antistatic properties
	Internal surface fluorescent under UV

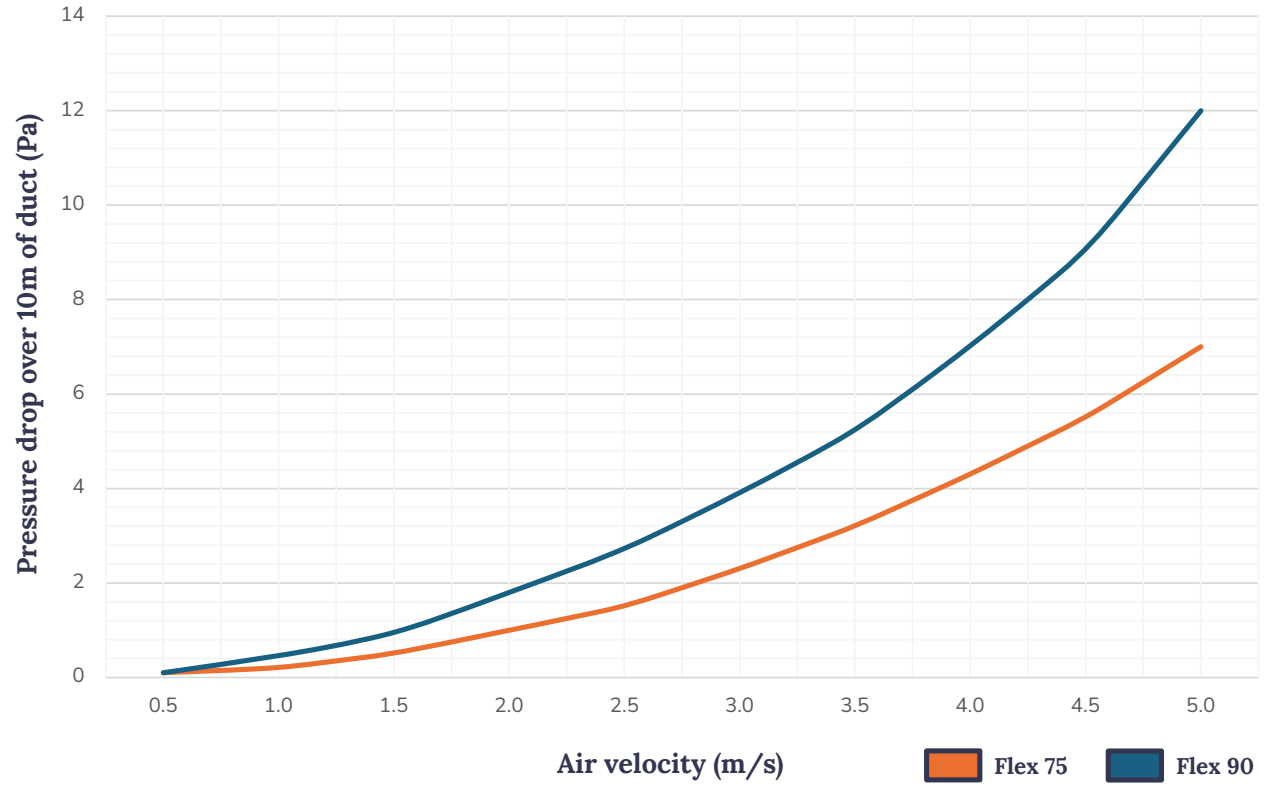


Flex performance data

Air flow capacity (m3/h)



Pressure drop (Pa/10m)



EPP thermal ducting

EPP thermal ducting provides a lightweight, highly insulated solution for modern ventilation systems. Manufactured from expanded polypropylene, it offers excellent thermal and acoustic performance, low pressure loss and high mechanical strength. Its durable, moisture-resistant construction helps maintain efficiency, air quality and long-term system reliability.

Key features

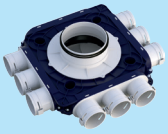
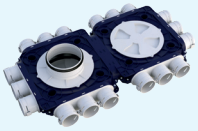
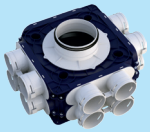
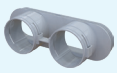
- Available in two diameters: 160mm and 200mm.
- Wall thickness 25 mm.
- Thermal conductivity λ = 0.039 W/(m·K).
- Heat transfer coefficient U = 1.56 W/(m^2·K).
- Low pressure loss.
- Two-piece design for easy transport and storage.
- High mechanical strength and shape memory - EPP channels are able to carry large loads without any lasting deformation.
- Low weight.
- Cutting guides.
- High thermal insulation properties.
- Excellent acoustic properties and vibration damping capabilities.
- Resistance to external factors, moisture and mould, with low water absorption.
- High temperature resistance, much higher than for typical styrofoam.
- Chemical resistance.
- Recyclable.

Zehnder MVHR units
Comparison table

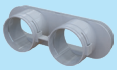
	Zehnder ComfoAir CM155	Zehnder ComfoAir WM155	Zehnder ComfoAir 350
Width [mm]	636	546	625
Height without connections [mm]	320	644	851
Depth [mm]	725.5	298	572
Housing material	External: ABS plastic Internal: PP/EPS	External: ABS plastic Internal: PP/EPS	External: Coated steel Internal: PP/EPS
Weight [kg]	20.5	18	39
Specific fan power (SFP) [W/l/s]	0.5	0.5	0.69
Heat exchanger efficiency (%)	93%	93%	88%
Filter class	ISO Coarse (G3)	ISO Coarse (G3)	ISO Coarse (G4)
Optional fine filters	ISO Coarse (G4)	ISO Coarse (G4)	ISO ePM1 (F7)
Capacity (standard) [m^3/h] at 100 Pa	278	295	405
Energy efficiency class	A+	A+	A+
Summer bypass exchanger 100%	Yes	Yes	Yes
Power supply	230V; 50/60Hz; 3A	230V; 50/60Hz; 3A	230V; 50/60Hz; 3A
Preheater connection	No	No	No
Option for enthalpic exchanger	No	No	No
Connection diameter [mm]	125	125	150
Mounting / Handing	Ceiling mount, left and right	Wall mount, left and right	Wall mount, left or right
Cabinet volume [dBA] at 3m (100% operation)	36	39.5	43
Wavin product codes	80CS15H	80CS15V	L 80CS35L R 80CS35R

Product catalogue

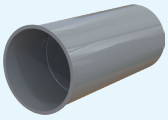
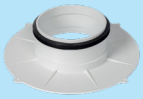
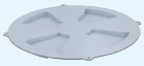
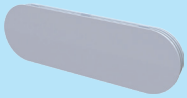
Flex 75 ducting and fittings

	Product description	Code
	Ventiza Flex-75 ducting pipe (50m)	75CS700
	Ventiza air distribution box 8x75/160mm 12x75/160mm	 75CS701 75CS702
	Ventiza double horizontal air distribution box 18x75/200mm	75CS703
	Ventiza double vertical air distribution box 24x75/200mm	75CS704
	Ventiza plenum distribution box 2x75/125mm 3x75/125mm	 75CS705 75CS706
	W-mount. met. grill conn. 2x75/200x55mm	75CS707
	Angular w-mount grill conn.2x75/200x55mm	75CS708
	Ventiza pipe cutter dia 75mm	75CS709
	Ventiza round flange caps dia 75mm	75CS710
	Ventiza sealing ring dia 75mm (pack of 10)	75CS711
	Ventiza adapter sleeve 2x75 mm Ventiza adapter sleeve 3x75 mm	75CS714 75CS228
	Ventiza coupling sleeve 75mm	75CS149
	Ventiza Flex 90° Bend 75mm	75CS226
	Ventiza mounting clamp for pipes dia 75mm	75CS720
	Ventiza adjustable throttle valve 75mm	75CS227
	Ventiza mounting bracket for pipes dia 75mm	75CS225

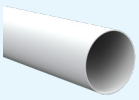
Flex 90 ducting and fittings

	Product description	Code
	Ventiza Flex-90 ducting pipe (50m)	90CS700
	Ventiza air distribution box 6x90/125mm 8x90/160mm	 90CS701 90CS702
	Ventiza double air distribution box 8x90/160mm 12x90/200mm	 90CS703 90CS704
	Ventiza ceiling valve connector 2x90/125mm	 90CS705
	Ventiza pipe cutter dia 90mm	90CS709
	Ventiza round flange caps dia 90mm	90CS710
	Ventiza sealing ring dia 90mm (pack of 10)	90CS711
	Ventiza adapter sleeve 2x90 mm	90CS714
	Ventiza coupling sleeve 90mm	90CS149
	Ventiza Flex 90° Bend 90mm	90CS226
	Ventiza mounting clamp for pipes dia 90mm	90CS720
	Ventiza adjustable throttle valve 90mm	90CS227
	Ventiza mounting bracket for pipes dia 90mm	90CS720

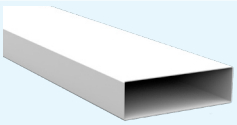
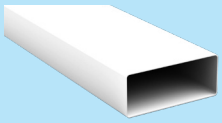
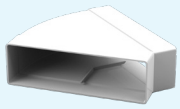
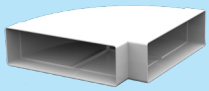
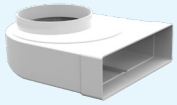
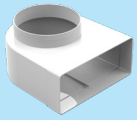
Flex system fittings and accessories

	Product description	Code
	Ventiza plenum box extension dia 125mm	75CS712
	Side spigot for air distr. box Dia = 125mm	75CS715
	Side spigot with 2x90mm connections	75CS706
	Conn. spigot for air distr. box Dia = 125mm Dia = 150mm Dia = 160mm Dia = 200mm	 75CS716 75CS229 75CS230 75CS231
	Round cap for plastic air distr. box	75CS717
	Oval cap for plastic air distr. box	75CS718
	Oval seal for air distr. box, 2 pcs.	75CS719
	Ventiza metal air distribution box 10x90/200mm	90CS707
	Ventiza round flange for metal air distribution box 90mm	90CS708
	Ventiza cap for metal air distribution box 90mm	90CS717

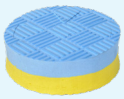
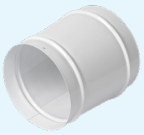
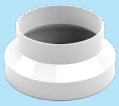
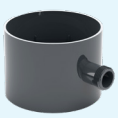
Round rigid ducting

	Product description	Code
	Round Rigid Duct (Plastic) Dia 100mm: L = 1m L = 2m Dia 125mm: L = 1m L = 2m Dia 150mm: L = 350mm L = 2m	 75CS142 75CS145 75CS144 75CS156 75CS184 75CS186
	Rigid Duct Round Connector (Plastic) Dia = 100mm Dia = 125mm Dia = 150mm	 75CS137 75CS153 75CS206
	Round 90° Bend (Plastic) Dia = 100mm Dia = 125mm Dia = 150mm	 75CS146 75CS150 75CS190
	Round 45° Bend (Plastic) Dia = 100mm Dia = 125mm Dia = 150mm	 75CS147 75CS151 75CS189
	160mm Round Rigid Duct (Metal) Dia 160mm: L = 2m Dia 200mm: L = 2m	 75CS217 75CS207
	Rigid Duct Round Connector (Metal) Dia = 160mm Dia = 200mm	 75CS218 75CS208
	Round 90° Bend (Metal) Dia = 160mm Dia = 200mm	 75CS219 75CS209
	Round 45° Bend (Metal) Dia = 160mm Dia = 200mm	 75CS220 75CS210

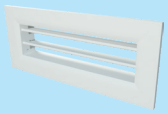
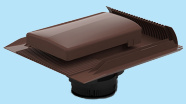
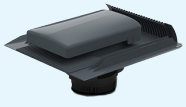
Rectangular rigid ducting

	Product description	Code
	204 x 60mm Rectangular Rigid Duct L = 2m	75CS194
	220 x 90mm Rectangular Rigid Duct L = 2m	75CS199
	45° Bend Horizontal 204 x 60mm 220 x 90mm	 75CS195 75CS200
	90° Bend Horizontal 204 x 60mm 220 x 90mm	 75CS196 75CS201
	45° Bend Vertical 204 x 60mm 220 x 90mm	 75CS197 75CS202
	90° Bend Vertical 204 x 60mm 220 x 90mm	 75CS198 75CS203
	204x60mm Elbow Bend with 125mm Rotating Spigot	75CS204
	220x90mm Elbow Bend with 150mm Fixed Spigot	75CS205

Rigid duct fittings and accessories

	Product description	Code
	Ventiza adj. Silencer dia 125mm	75CS121
	Ventiza flexible silencer 125/900 160/900 200/900	 75CS125 75CS126 75CS127
	Ventiza reducer 150/160mm 125/160mm 150/200mm	 75CS122 75CS123 75CS124
	150mm to 125mm Duct Adaptor	75CS183
	125mm Duct to Fitting Self-Seal Connector	75CS161
	125mm Duct to Duct Self-Seal Connector	75CS162
	100mm Round Connector With Back-Draught Damper	75CS148
	100mm Condensation Trap	75CS155
	125mm Condensation Trap	75CS182

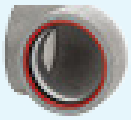
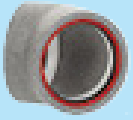
Terminals

	Product description	Code
	Round Louvred Grill Dia = 100mm Dia = 125mm Dia = 150mm Dia = 160mm	 75CS143 75CS191 75CS192 75CS222
	100mm (4") Fixed Louvre Rectangular Terminal Brown Beige Terracotta White	 75CS138 75CS139 75CS140 75CS141
	Louvred Grille White Round 100mm Spigot & Flyscreen	75CS178
	Ventiza w-mount m. grille 200x55mm	75CS713
	125mm Ceiling Diffuser + Retainer Supply/Extract Plastic	75CS154
	125mm Metal Round Extract Diffuser White Standard Fire rated	 75CS157 75CS158
	125mm Metal Round Supply Diffuser White Standard Fire rated	 75CS159 75CS160
	Uni Tile Ventilator Brown 150mm dia c/w connector	75CS176
	Uni Tile Ventilator Grey 150mm dia c/w connector	75CS177

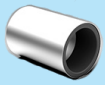
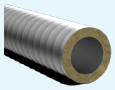
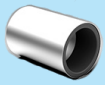
EPP duct and fittings

	Product description	Code
	Ventiza EPP duct, L=150cm Dia = 160mm Dia = 200mm	 75CS128 75CS132
	Ventiza EPP elbow (half) Dia = 160mm Dia = 200mm	 75CS129 75CS133
	Ventiza EPP tee (half) Dia = 160mm Dia = 200mm	 75CS130 75CS134
	Ventiza EPP sleeve Dia = 160mm Dia = 200mm	 75CS131 75CS135

Thermal duct and fittings

	Product description	Code
	125mm Thermal Duct with 1 connector L = 2m	 75CS211
	160mm Thermal Duct with 1 connector L = 1m L = 2m	 75CS166 75CS167
	90° Thermal Duct with 2 connectors Dia = 125mm Dia = 160mm	 75CS212 75CS168
	45° Thermal Duct with 2 connectors Dia = 125mm Dia = 160mm	 75CS213 75CS169
	T piece Thermal Duct with 3 connectors Dia = 160mm	 75CS170
	Thermal Duct to Duct connector Dia = 125mm Dia = 160mm	 75CS214 75CS171
	160mm Thermal Duct to Fitting connector	75CS172
	160mm to 150mm Thermal Duct Adaptor	75CS173

Fixings, insulation and fire protection

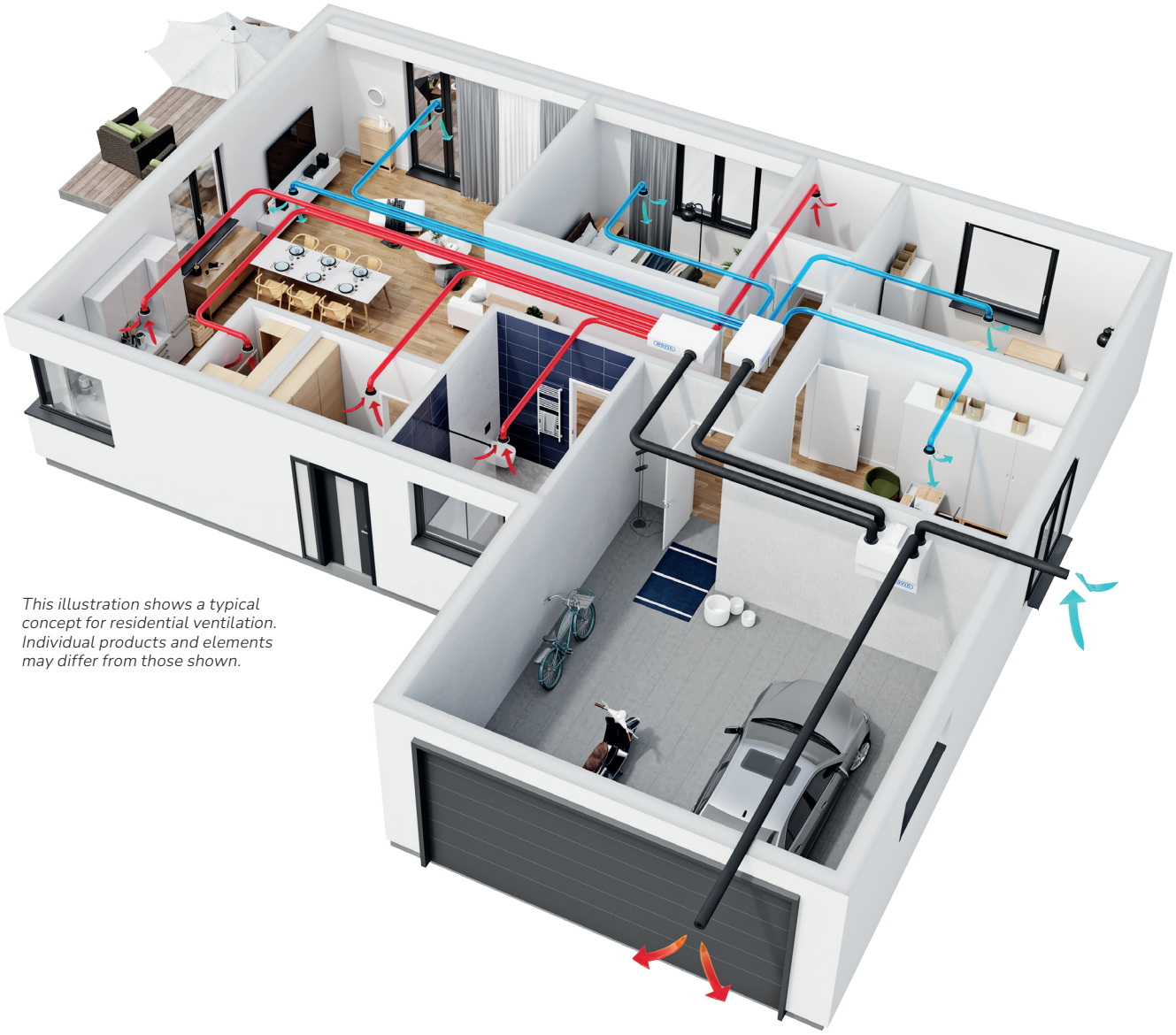
	Product description	Code
	Alu Tape 50mm wide x 45.7m lg	75CS174
	Sealing Tape 50mm x 4.6m	75CS136
	Universal Acrylic Sealant No 175 White	75CS164
	100mm Vent Duct Fire Sleeve (120 mins)	75CS175
	75mm 10m ducting insulation sleeve	75CS180
	75mm round intumescent fire sleeve	75CS181
	Flexible insulated duct Dia = 127mm, L = 10m Dia = 160mm, L = 7.6m	 75CS163 90CS165
	Insulated Duct Wrap	75CS185

Typical MVHR installation
Design guidelines

In order to fully benefit from the advantages of the MVHR system, it must be properly selected and installed in accordance with part F of the building regulations.

Key considerations include:

- the ventilation air balance of the property
- determination of living and wet areas, i.e. supply or extract required
- selection of an appropriate ventilation unit, taking into account pressure losses and required air flow
- distribution and location of supply and extract elements
- layout of the ventilation system with the specification and layout of all system components



This illustration shows a typical concept for residential ventilation. Individual products and elements may differ from those shown.

Air flow rate

The calculation of the required ventilation air flow is based on the applicable requirements and regulations. Depending on the room type and the adopted methodology, a set number of air changes will need to be accounted for within the calculation, as defined by Part F of the building regulations. In general, the air flow rate at a single supply/exhaust point should not exceed 50-60 m³/h to ensure quiet operation of the system.

Distribution of supply and extract valves

The location of the supply and exhaust elements should take into account the interior architecture in order to avoid, for example, blowing directly onto the wall or directly over the heads of the household members. The supply of fresh air to occupied zones should ensure that it is of sufficient volume to satisfy the entire space, before it is removed through extract valves located in "wet" rooms, i.e. kitchens, bathrooms, and separate toilets.

Ducting and air velocity

There are many types of ventilation ducts available on the market. The choice of the right solution depends largely on the place of their installation and the available height of the building. One of the most commonly used solutions is a system based on flexible round ducts with a smaller diameter, usually 75mm. For rooms where a larger air flow needs to be supplied or extract, several channels can be arranged in parallel and connected by means of distribution and expansion boxes. Where possible, preference should be given to pipes with a larger diameter, in order to reduce pressure loss and noise in the ducts. The optimum air velocity in the ducts should not exceed 3m/s.

Silencers

The installation of ducts should arranged in such a way as to provide enough space for future installation of dampers in the event of noise problems. If the installation is sufficiently well designed, there may be no need for silencers.

Location of the MVHR unit

The choice of the most appropriate installation location for the MVHR should take into account several important factors, such as the ease of distribution of the installation, access to external walls, the possibility of draining condensation, acoustics, the amount of space for service purposes, etc. Importantly, the temperature in the room in which the MVHR unit will be installed should not be lower than 0°C.

Location of the intake and exhaust grilles

The external air intake and exhaust should be protected against atmospheric precipitation and placed in a way that allows the cleanest and coolest air to be taken in summer. It is important to take care not to install the intake grille in a place where there is a danger of air inflow from the exhaust, the distance between the two should be at least 1.5m.

Product specification

Catalogue code	Nom. internal diameter (mm)	Length (mm)	Width (mm)	Height/ Depth (mm)	Weight (kg)
75CS700	61	50000	75	75	15.3
75CS701	148	458	458	140	1.76
75CS702	148	458	458	140	1.72
75CS703	188	807	458	140	3.24
75CS704	188	458	458	223	3.22
75CS705	127	243	266	183	0.47
75CS706	127	243	266	183	0.49
75CS707	84	203.5	176.5	112	0.85
75CS708	84	203.5	237	110	0.91
75CS709	-	175	-	85	0.04
75CS710	77	95	95	32	1.00
75CS711	75	79	79	-	0.05
75CS712	127	302	138	138	0.40
75CS713	-	230	-	97	0.18
75CS714	-	-	-	-	0.15
75CS715	113	166	358	128	0.20
75CS716	113	166	358	128	0.19
75CS717	-	-	-	-	0.14
75CS718	-	-	-	-	1.00
75CS719	-	-	-	-	0.01
75CS720	-	-	-	-	0.01
75CS121	-	125	125	55	0.04
75CS122	-	-	-	-	4.23
75CS123	-	-	-	-	4.40
75CS124	-	-	-	-	8.94
75CS125	124	270	270	900	3.00
75CS126	159	270	270	900	3.20
75CS127	199	320	320	900	3.90
75CS128	160	1500	160	80	0.64
75CS129	160	407	160	80	0.21
75CS130	160	400	160	80	0.21
75CS131	160	70	160	160	0.11
75CS132	200	1500	200	100	0.78
75CS133	200	467	200	100	0.29
75CS134	200	500	200	100	0.32
75CS135	200	70	200	200	0.13
75CS136	-	500	30	30	0.05
75CS137	-	100	100	60	0.01
75CS138	-	150	150	50	0.02
75CS139	-	150	150	50	0.02
75CS140	-	150	150	50	0.02

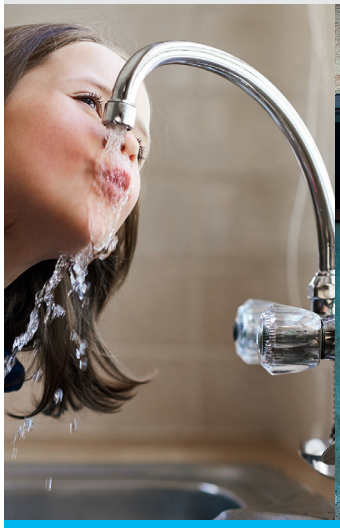
Catalogue code	Nom. internal diameter (mm)	Length (mm)	Width (mm)	Height / Depth (mm)	Weight (kg)
75CS141	-	150	150	50	0.02
75CS142	100	1000	100	100	0.85
75CS143	100	125	125	30	0.05
75CS144	125	1000	125	125	1.12
75CS145	100	2000	100	100	1.27
75CS146	100	120	130	100	0.10
75CS147	100	150	100	100	0.06
75CS148	100	100	100	60	0.04
75CS150	125	160	150	120	0.14
75CS151	125	160	200	120	0.10
75CS153	125	125	125	60	0.05
75CS154	125	160	160	75	0.22
75CS155	100	116	116	190	1.90
75CS156	125	2000	125	125	2.24
75CS157	125	160	160	60	0.35
75CS158	125	160	160	60	0.39
75CS159	125	160	160	60	0.35
75CS160	125	160	160	60	0.40
75CS161	125	145	140	58	0.20
75CS162	125	145	140	58	0.20
75CS163	127	10000	127	127	3.92
75CS164	-	-	-	-	-
75CS166	160	1000	160	160	0.42
75CS167	160	2000	160	160	1.25
75CS168	160	200	40	240	-
75CS169	160	200	40	200	-
75CS170	160	260	40	200	-
75CS171	160	157	157	65	0.07
75CS172	160	157	157	65	0.07
75CS173	160	160	160	30	0.04
75CS174	-	-	-	-	-
75CS175	-	180	130	130	0.70
75CS176	-	450	425	304	2.07
75CS177	-	450	425	304	2.07
75CS178	-	155	155	43	0.03
75CS179	-	90	14	80	0.22
75CS180	-	1000	140	140	2.50
75CS181	-	85	88	140	-
75CS182	-	48	95	131	0.16
75CS183	150	61	155	155	-
75CS184	-	350	153	153	-

Catalogue code	Nom. internal diameter (mm)	Length (mm)	Width (mm)	Height / Depth (mm)	Weight (kg)
75CS185	-	1200	350	350	14.5
75CS186	150	2000	150	150	2.66
75CS189	150	162	150	150	0.18
75CS190	150	185	150	150	0.19
75CS191	125	155	155	16	0.10
75CS192	150	183	183	16.5	0.17
75CS194	-	2000	204	60	2.33
75CS195	-	210	204	60	0.20
75CS196	-	242	204	60	0.30
75CS197	-	208	204	60	0.11
75CS198	-	209	204	60	0.15
75CS199	-	2000	220	90	3.62
75CS200	-	221	250	95	0.28
75CS201	-	261	227	95	0.40
75CS202	-	129	225	96	0.19
75CS203	-	131	225	96	0.26
75CS204	-	235	208	84	0.26
75CS205	-	200	225	95	0.30
75CS206	-	-	-	-	-
75CS207	-	-	-	-	-
75CS208	-	-	-	-	-
75CS209	-	-	-	-	-
75CS210	-	-	-	-	-
75CS211	-	-	-	-	-
75CS212	-	-	-	-	-
75CS213	-	-	-	-	-
75CS214	-	-	-	-	-
75CS217	-	-	-	-	-
75CS218	-	-	-	-	-
75CS219	-	-	-	-	-
75CS220	-	-	-	-	-
75CS221	-	-	-	-	-
75CS222	-	-	-	-	-
75CS225	-	-	-	-	-
75CS226	-	-	-	-	-
75CS227	-	-	-	-	-
75CS228	-	-	-	-	-
75CS229	-	-	-	-	-
75CS230	-	-	-	-	-
75CS231	-	-	-	-	-
75CS232	-	-	-	-	-
75CS233	-	-	-	-	-
75CS234	-	-	-	-	-

Why Wavin?

Wavin is an innovative provider of solutions for construction and infrastructure on many continents. Supported by over 60 years of experience, Wavin's goal is to meet some of the world's biggest ongoing challenges, such as:

- enabling safe and effective water supplies
- ensuring sanitary and hygienic conditions
- helping cities to resist climate change
- creating more efficient buildings



At **Wavin**, we focus on creating positive change in the world, and our passion is to build a healthy, sustainable environment. We engage and collaborate with city leaders, engineers, planners and installers to make cities future-proof and buildings comfortable and energy-efficient.

Wavin is part of **Orbia**, a community of companies that share a common goal:
To advance life around the world.

Wavin has over 11,500 employees in more than 40 countries around the world.

Wavin can provide:

External drainage solutions
A wide range of piping systems for the construction of durable and reliable sewage networks – both gravity and pressure – and a wide range of manhole and non-manhole (inspection) wells of different diameters, different levels of technical advancement, designed for different areas of application.

Rain and stormwater management solutions
A comprehensive range of systems for collecting rainwater, transporting to receiving tanks, cleaning, as well as retention and draining.

Drinking water solutions
A wide range of reliable systems for the supply of water to buildings, as well as its distribution inside the building. They ensure the highest standards of safety and hygiene.

Internal drainage solutions
A wide range of systems and products with diverse properties, including low noise installations, to meet even the most stringent acoustic protection parameters.

Indoor climate solutions
A collection of systems affecting home comfort, including: mechanical ventilation with heat recovery, surface heating and cooling, and district heating units. A wide range of pipes and fittings are available made of various materials, ensuring the highest standard of installation – floor, wall or ceiling. Wavin's indoor climate portfolio is tied together by our very own smart control system: Sentio.

Advancing Indoor Comfort with Wavin

- Surface heating and cooling
- Heat interface units
- Mechanical ventilation
- Smart control systems

From family homes to apartments, Wavin stands as the trusted choice for a comprehensive indoor climate solution.
Through innovative controls, it seamlessly integrates underfloor heating, ceiling heating and cooling, heat interface units and mechanical ventilation.

All components work harmoniously in a unified solution, Advancing Indoor Comfort with efficiency and ease.

Wavin is part of Orbia, a community of companies working together to tackle some of the world's most complex challenges.
We are bound by a common purpose:
To Advance Life Around the World.

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