

VENTILATION
Technical Catalogue

Ventiza

Flex 75 semi-rigid ducting system



wavin

orbia 

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Advantages and benefits

Semi-rigid ducting systems

Superior airflow and performance

Semi-rigid 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 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 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 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 ducting is lightweight and easy to handle, facilitating quick and straightforward installation by HVAC install professionals.

The flexibility of semi-rigid 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 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 ducting helps maintain the integrity of the ventilation system, preventing air leaks and optimizing thermal performance.

Compliance with building regulations

Semi-rigid 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 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

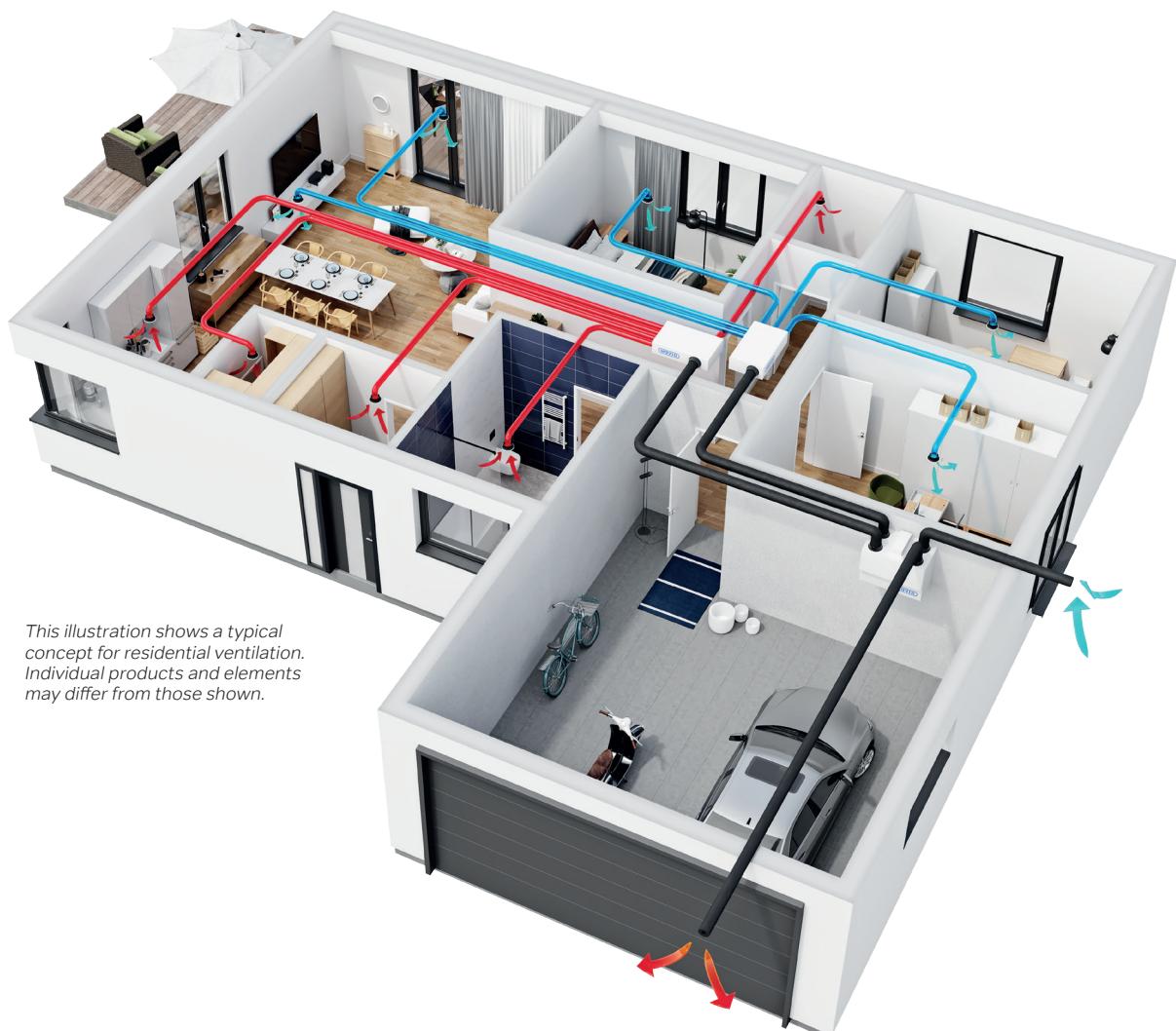
Component overview

Flex 75 semi-rigid ducting

Key advantages of the 75mm semi-rigid system:

- ④ Material: polypropylene (PP) with thermoplastic elastomer (SEBS).
- ④ Operating temperature range: -20 to +60°C.
- ④ The compact design allows the system to be used in almost any building.
- ④ 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.

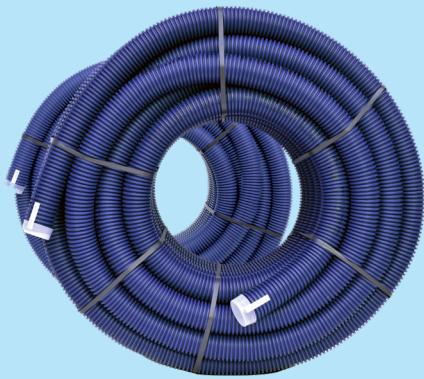
- ④ High system tightness (class C) guaranteed by the use of high-quality joints and seals.
- ④ Low system pressure losses due to specially designed aerodynamic shape of expansion boxes and distributors.
- ④ Quick and easy installation thanks to the use of snap-on connections, which do not require the use of specialised tools.



Flex 75 technical data

Wavin Ventiza Flex 75 semi-rigid ducts are designed for use with domestic Mechanical Ventilation with Heat Recovery (MVHR) systems.

Semi-rigid 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

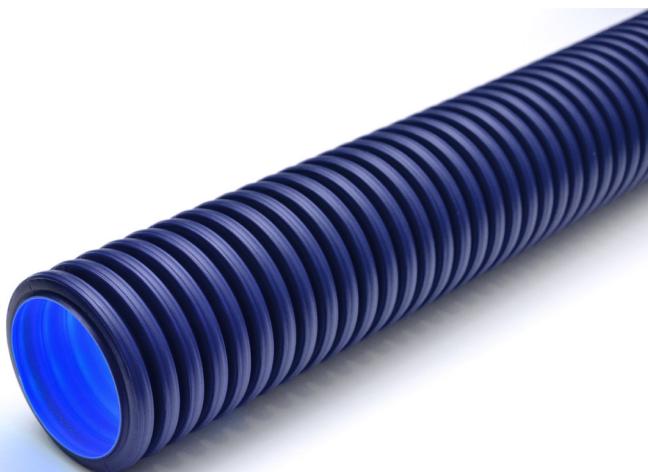
- ⌚ Supplied in continuous coils of 50 metres in length
- ⌚ Extremely smooth internal surface to minimise air resistance
- ⌚ Ribbed design provides high impact strength and mechanical resistance
- ⌚ Double-wall construction with air void for high acoustic and insulation performance
- ⌚ Antibacterial 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

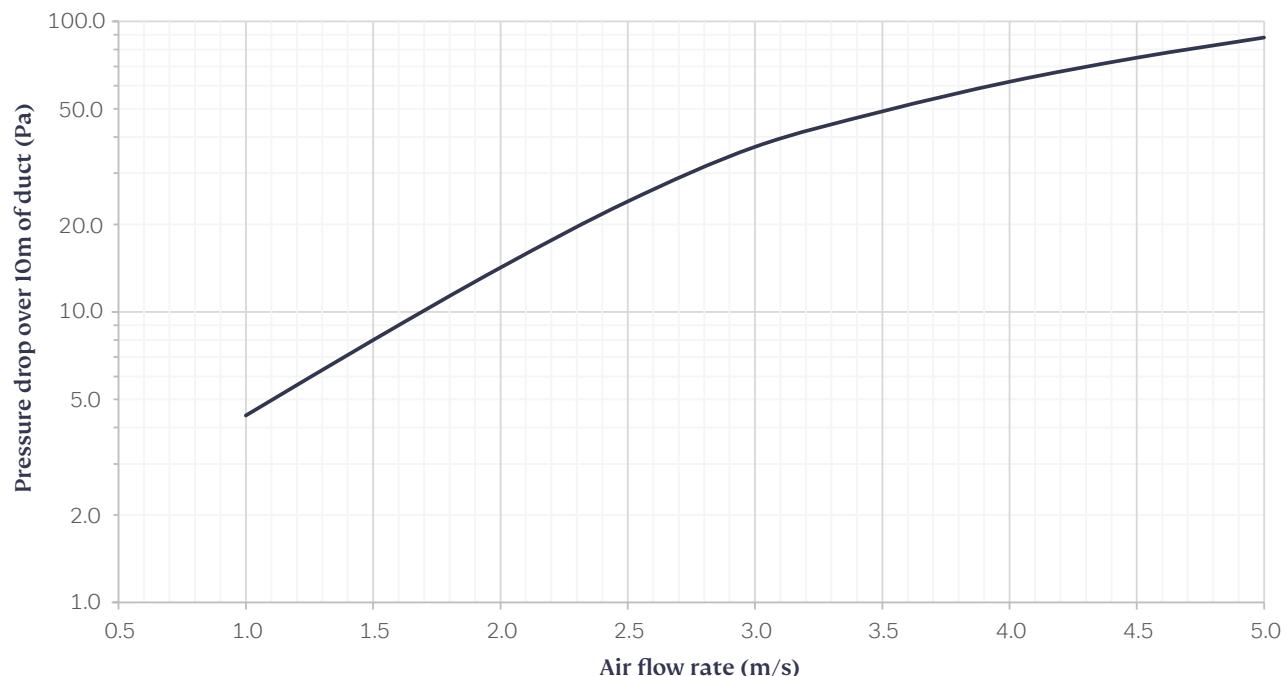
- ⌚ Continuous length means no joints required every few metres or at every turn and corner - no air leakage creates maximum efficiency
- ⌚ No sawing or taping required - ducts are easily trimmed to length with a bespoke cutting tool (supplied)
- ⌚ The flexibility of the duct allows greater freedom of 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

Product code	4083451
Material	Modified polyethylene (HDPE-mod.)
Colour	Blue
Nominal dimension	75.0mm
External diameter	76.2mm
Internal diameter	61.0mm
Minimum bend radius	170mm
Coil length	50m
Coil weight	15.3kg
Compression strength	500N (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 properties	Antibacterial layer (ISO 22196:2011) Antifungal layer (EN ISO 846:2019) Antistatic layer Internal surface fluorescent under UV



Flex 75 performance data



EPP thermal ducting

Key advantages of EPP thermal ducting:

- ⌚ Wall thickness 25 mm.
- ⌚ Thermal conductivity $\lambda = 0.039 \text{ W}/(\text{m}\cdot\text{K})$.
- ⌚ Heat transfer coefficient $U = 1.56 \text{ W}/(\text{m}^2\cdot\text{K})$.
- ⌚ Low pressure loss.
- ⌚ Two-piece design for easy transport and storage.
- ⌚ High mechanical strength – channels made of EPP are able to carry large loads without undergoing deformation. This material is characterized by shape memory.
- ⌚ 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.



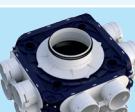
Zehnder MVHR units

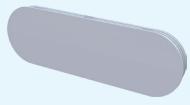
Comparison table

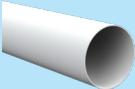


	Zehnder ComfoAir CM155	Zehnder ComfoAir WM155	Zehnder ComfoAir 350
Width [mm]	636	546	625
Height without connections [mm]	320	644	851
Depth [mm]	725.5	298	572
Housing material	External: ABS plastic Internal: PP/EPS	External: ABS plastic Internal: PP/EPS	External: Coated steel Internal: PP/EPS
Weight [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) [m³/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

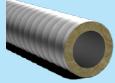
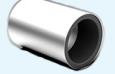
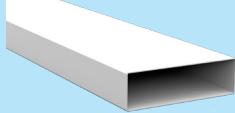
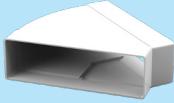
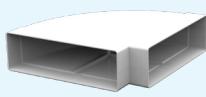
	Product description	Code
	Ventiza Flex-75 ducting pipe (50m)	75CS700
	Ventiza plastic air distr.box 8x75/160mm 12x75/160mm	75CS701 75CS702
	Ventiza double air distr.box 18x75/200mm	75CS703
	Ventiza vert. air distr.box 24x75/200mm	75CS704
	Ventiza plenum box 2x75/125mm 3x75/125mm	75CS705 75CS706
	W-mount. 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 plenum box extension dia 125mm	75CS712
	Ventiza w-mount m. grille 200x55mm	75CS713

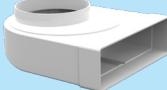
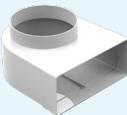
	Ventiza adapter sleeve 2x75 mm	75CS714
	Side spigot for air distr. box Dia = 125mm	75CS715
	Conn. spigot for air distr. box Dia = 125mm Dia = 150mm	75CS716 75CS225
	Round cap for plastic air distr. box	75CS717
	Oval cap for plastic air distr. box	75CS718
	Oval seal for air distr. box, 2 pcs.	75CS719
	Ventiza mounting clamp for pipes dia75	75CS720
	Ventiza adj. Silencer dia 125mm	75CS121
	Ventiza reducer 150/160mm 125/160mm 150/200mm	75CS122 75CS123 75CS124
	Ventiza flexible silencer 125/900 160/900 200/900	75CS125 75CS126 75CS127
	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
	125mm Condensation Trap	75CS182
	Sealing Tape 50mm x 4.6m	75CS136
	Rigid Duct Round Connector Dia = 100mm Dia = 125mm Dia = 150mm Dia = 160mm Dia = 200mm	75CS137 75CS153 75CS206 75CS218 75CS208
	100mm (4") Fixed Louvre Rectangular Terminal Brown Beige Terracotta White	75CS138 75CS139 75CS140 75CS141
	100mm Round Rigid Duct L = 1m L = 2m	75CS142 75CS145
	125mm Round Rigid Duct L = 1m L = 2m	75CS144 75CS156
	150mm Round Rigid Duct L = 350mm L = 2m	75CS184 75CS186
	160mm Round Rigid Duct L = 2m	75CS186
	200mm Round Rigid Duct L = 2m	75CS207

	<p>Round Louvred Grill</p> <p>Dia = 100mm Dia = 125mm Dia = 150mm Dia = 160mm</p>	<p>75CS143 75CS191 75CS192 75CS222</p>
	<p>Round 90° Bend</p> <p>Dia = 100mm Dia = 125mm Dia = 150mm Dia = 160mm Dia = 200mm</p>	<p>75CS146 75CS150 75CS190 75CS219 75CS209</p>
	<p>Round 45° Bend</p> <p>Dia = 100mm Dia = 125mm Dia = 150mm Dia = 160mm Dia = 200mm</p>	<p>75CS147 75CS151 75CS189 75CS220 75CS210</p>
	100mm Round Connector With Back-Draught Damper	75CS148
	125mm Ceiling Diffuser + Retainer Supply/Extract Plastic	75CS154
	100mm Condensation Trap	75CS155
	<p>125mm Metal Round Extract Diffuser White</p> <p>Standard Fire rated</p>	<p>75CS157 75CS158</p>
	<p>125mm Metal Round Supply Diffuser White</p> <p>Standard Fire rated</p>	<p>75CS159 75CS160</p>
	125mm Duct to Fitting Self-Seal Connector	75CS161
	125mm Duct to Duct Self-Seal Connector	75CS162

	127mm x 10m Acoustic Insulated Hose	75CS163
	Universal Acrylic Sealant No 175 White	75CS164
	125mm Thermal Duct with 1 connector L = 2m	75CS211
	160mm Thermal Duct with 1 connector L = 1m	75CS166
	L = 2m	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
	Alu Tape 50mm wide x 45.7m lg	75CS174
	100mm Vent Duct Fire Sleeve (120 mins)	75CS175

	Uni Tile Ventilator Brown 150mm dia c/w connector	75CS176
	Uni Tile Ventilator Grey 150mm dia c/w connector	75CS177
	Louvre Grille White Round 100mm Spigot & Flyscreen	75CS178
	75mm Ducting Clamp (1 bag is 1 unit)	75CS179
	75mm 10m ducting insulation sleeve	75CS180
	75mm round intumescent fire sleeve	75CS181
	150mm to 125mm Duct Adaptor	75CS183
	Insulated Duct Wrap	75CS185
	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

Wavin Sentio Comfort control system



The **Wavin Sentio** comfort control system allows control of your Ventiza mechanical ventilation systems, either via the LCD control panel or the Sentio mobile application.

With Sentio, it is possible to simultaneously control Comfia surface heating systems, radiator heating, Calefa heat interface units and Ventiza mechanical ventilation, whilst additional modules are also available to enable control of other home automation devices installed in the building, such as external blinds, alarms, lighting or garage doors.

Controlling Ventiza systems using Sentio:

- ① Manually change the current fan speeds (speeds 1 to 4).
- ① Setting of ventilation and exhaust fan parameters for individual speeds (installer settings).
- ① Weekly programming of the device operation (independent of heating), with the possibility of copying settings for individual days of the week.
- ① Control of the increased efficiency function, allows you to set the time delay separately for wet rooms, e.g. bathrooms.
- ① Summer bypass control allows you to adjust the temperature values to help comply with Part O of the Building Regulations.
- ① The Sentio system allows you to designate rooms with ventilation and use the humidity sensors built into each thermostat and temperature sensor to control its level in each of these rooms. In addition, a high limit can be set for the humidity in each room.
- ① Simple setup of the connected Ventiza device. When the unit is connected, it is recognised and set to default settings automatically.
- ① Filter replacement alert (standard time of 6 months)..

The Sentio control system has been designed by Wavin to provide the easiest and most intuitive operation possible. All functions of the system are configured so that the user can easily control the climate in their own home. Sentio was initially created primarily for control of surface heating and cooling systems, however, the built-in advanced functions allow creation of a complete system for an intelligent home, maximising the efficiency and quality of the indoor climate. As well as constantly monitoring indoor temperature and humidity, options are also available to monitor the outdoor conditions and adjust the indoor climate accordingly. Sentio also allows you to control ventilation units and heat sources – boilers or heat pumps – and adjust its power output or, in the case of heat pumps, heating or cooling functions. If the heat source is supplied without its own control, the Sentio system can take control of power parameters, and has a built-in weather control module. Sentio also allows integration with other smart home control systems, including advanced BMS systems.



The Wavin Sentio product family:

- ① Central Control Unit (CCU) and extension units for zone expansion.
- ① Thermostats and room sensors, including options with infra-red floor temperature sensors.
- ① LCD touch screen.
- ① Smart radiator thermostat.
- ① Mobile application.
- ① Remote access with Sentio Smart Connect.

WITH THE COMBINATION OF THESE ELEMENTS, SENTIO PROVIDES A COMFORTABLE AND EASY-TO-INSTALL INDOOR CLIMATE CONTROL SOLUTION



Fully enjoying the benefits of underfloor heating and ventilation often requires advanced system knowledge and many setting tweaks to achieve the perfect indoor climate. The Wavin Sentio system changes everything.

1. CONNECT

The Sentio Central Control Unit (CCU) enables easy temperature adjustment and monitoring throughout the year. The CCU supports up to 8 thermostats, 16 actuators and 2 circulation pumps, with optional compensation for weather conditions with the addition of an outdoor temperature sensor. This translates into a high level of comfort and energy efficiency. The CCU has an intuitive cable connection system with colour-coded ports, as well as MODBUS ports to connect up to two MVHR units.

2. SET

The LCD touch screen is a display that can be used for all installations. Its preset profiles enable quick and trouble-free system start-up. The screen provides a high level of flexibility and does not require any special skills to change the settings.

Since the screen contains all the predefined profiles, the installer need only answer the system's questions about the configuration of the heating system to enable the correct settings straight away.

To set the most advanced features of the system, you need to use LCD screen, or a USB cable for connecting

Thanks to intelligent and logical functions, it simplifies operation and reduces common problems, and makes system installation an easy process with only three steps: **CONNECT - SET - GO**.

If the heating system requires more than 8 heating zones, an expansion module can be also connected to the control panel, allowing up to 8 additional thermostats and 8 actuators for connection and management by the CCU. The control panel also has the capability to control two additional external devices (e.g. heat pump, boiler or even other home automation devices such as lighting or blinds). If you wish to add even more devices, there is the possibility to connect an expansion module which adds 6 volt-free relays to control up to 6 devices.

directly to a PC is also available. In addition, Sentio Smart Connect allows an installer or technician to connect to the system remotely, giving full configuration access identical to that provided by the LCD screen.

Usually this is a one-time operation completed during installation and commissioning. Once the system is handed over to the user, it is not necessary to have the same level of configuration access. The most common user adjustments can be made using the thermostats or, most conveniently, using the mobile application.

3. GO

The aesthetic, intuitive and easy-to-use Sentio thermostat displays information only when necessary. The intelligent system shows both temperature and humidity levels, and also adjusts the brightness of the display to suit the environment. With the additional connection of a floor probe or use of the IR thermostat model (with infrared

sensor), the temperature of the floor can be adjusted and controlled even more precisely.

After initial setup and commissioning, Sentio is designed not to require constant supervision or adjustment. The LCD screen or app will alert the user to any operation issues.

Sentio mobile app

The Sentio application is intuitive with a clear and modern interface. It can be used to quickly set the temperature in rooms and zones, adjust Ventiza fan speeds, and set the schedule of your heating and ventilation systems from anywhere, even whilst at work or on holiday. It also allows you to regulate the temperature in several properties, as well as share comfort settings with other users. The application also allows you to provide time-limited remote access to the system, allowing your installer to diagnose and repair system issues without needing to visit.



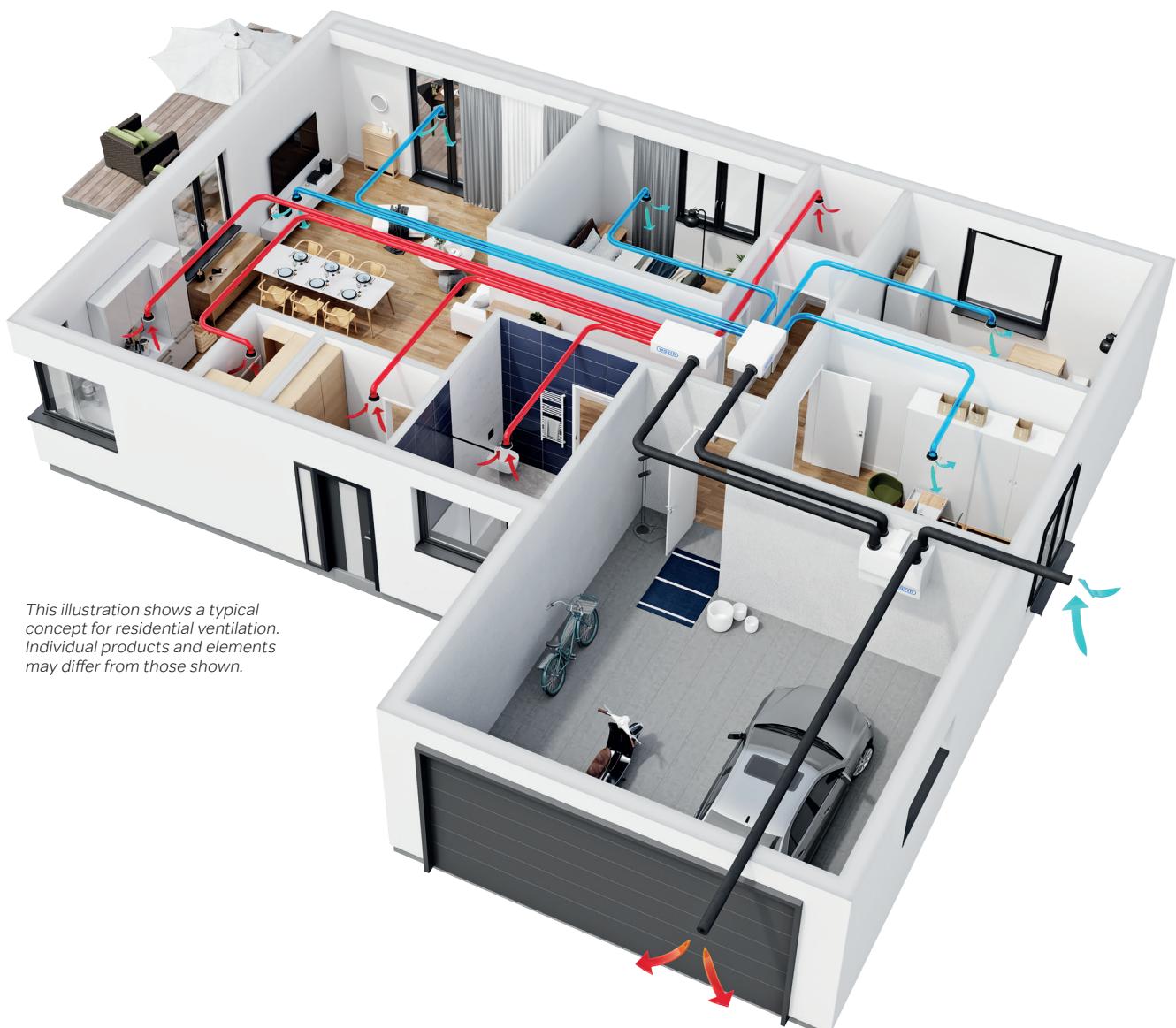
Typical MVHR installation

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



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

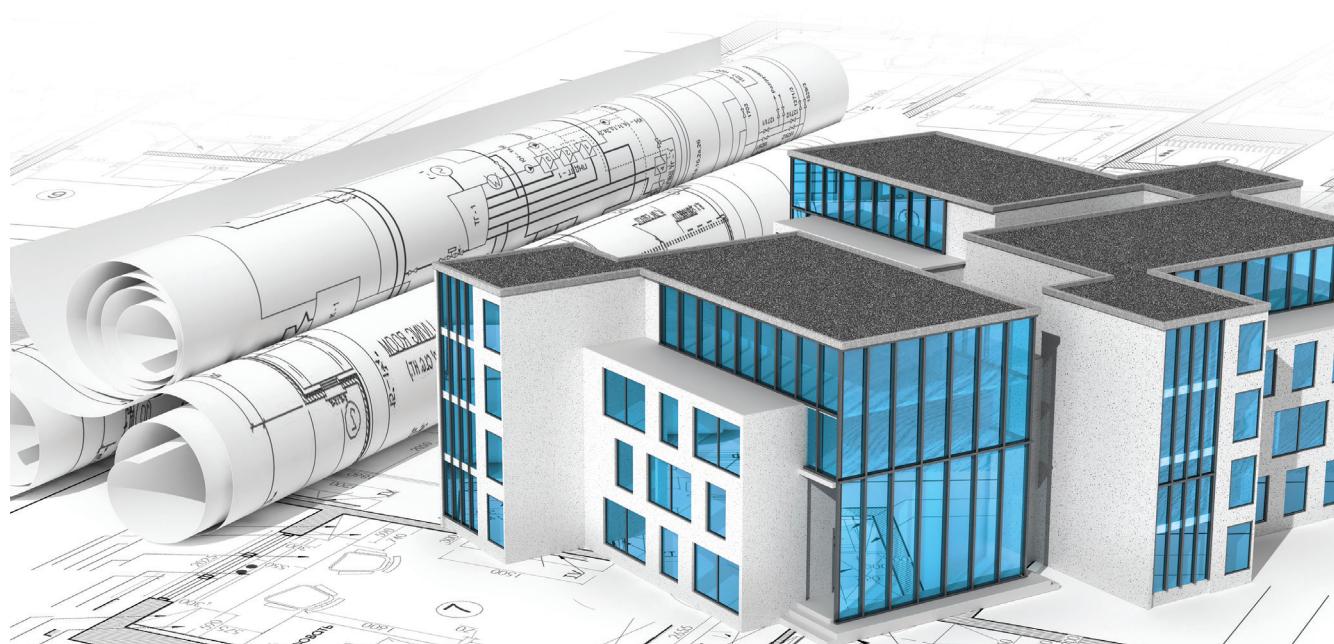
The installation of ducts should be arranged in such a way as to provide enough space for future installation of dampers in the event of noise problems. If the installation is sufficiently well designed, there may be no need for silencers.

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	-	-	-	-	-
75CS165	-	-	-	-	-
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	-

Catalogue code	Nom. internal diameter (mm)	Length (mm)	Width (mm)	Height / Depth (mm)	Weight (kg)
75CS184	-	350	153	153	-
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

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.

Discover our broad portfolio at www.wavin.com

- Water management
- Heating and cooling
- Water and gas distribution
- Waste water drainage



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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