

Zehnder ComfoWell 520



Comfowell 520

The Zehnder ComfoWell 520 is a modular system consisting of attenuators, fine grade filters and active carbon filters all integrated for use with a rigid or semi-rigid ductwork approach. With a width of 520mm it can be used for connecting up to 10 ComfoTube connections. The systems compact dimensions ensure good sound absorption and also make it easy to clean. Rigid pipe can be connected to the end plate securely by utilising the gasket seal connection. All other components are fitted using the locking slide connections to form an airtight and robust seal.

Noise reduction can be improved by combining two attenuators together. Filters are available in ISO ePM1 >80% (F7) or ISO ePM1 >90% (F9) grade in addition to an odour neutralising active carbon filter.



Key Features

- Attenuator, fine grade filter, active carbon filter and manifold all combined into one space saving combination with the option to bespoke build exactly what is required.
- Easy to assemble thanks to its modular and compact design.

Article Numbers

Description	Product Code
Attenuator	
Zehnder ComfoWell attenuator, CW-S 520	990 323 502
Manifold	
Zehnder ComfoWell manifold box CW-D 520	990 323 532
Filter Housing	
Zehnder ComfoWell filter housing CW-F 520	990 323 552
Mounting Plates	
Zehnder ComfoWell mounting plate, CW-M 520, 10 x 75mm connections	990 323 614
Zehnder ComfoWell mounting plate, CW-M 520, 10 x 90mm connections	990 323 615
Zehnder ComfoWell mounting plate, CW-M 520, 4 x 90mm + 6 x 75mm connections	990 323 617
End Plates	
Zehnder ComfoWell end plate, CW-P 520, ø 150mm	990 323 568
Zehnder ComfoWell end plate, CW-P 520, ø 160mm	990 323 564
Zehnder ComfoWell end plate, CW-P 520, ø 180mm	990 312 513
Zehnder ComfoWell end plate, CW-P 520, ø 200mm	990 312 514

Article Numbers

Spacer Frame

Zehnder ComfoWell spacer frame, CW-DF 520	990 323 539
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Mounting Set

Zehnder ComfoWell mounting set, CW-K 520, for Zehnder ComfoAir Q350	990 323 649
Zehnder ComfoWell mounting set, CW-K 520, for Zehnder ComfoAir Q450/600	990 323 646

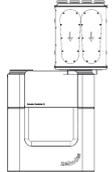
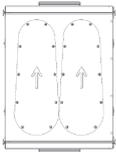
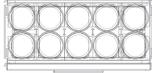
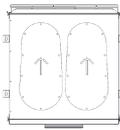
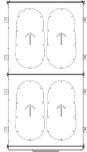
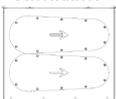
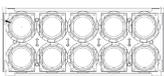
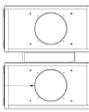
Filters

Filter for ComfoWell 520, CW-F7 520, ISO ePM1 >80% (F7), 1 Piece	990 323 606
Filter for ComfoWell 520, CW-F9 520, ISO ePM1 >90% (F9), 1 Piece	990 323 607
Filter for ComfoWell 520, CW-AC 520, active carbon filter, 1 Piece	990 323 608

Technical Specification

Housing material	Galvanised Sheet Steel
Operating temperature range	-25 to +60 °C
Inner lining	Closed-cell melamine resin foam
Recommended maximum air volume	111.1l/s (400 m ³ /h) at normal ventilation level
Air tightness class to EN 1507:2006	C
Air tightness class to EN 12237:2003	C
Fire rating to ISO13501	C

Example Connections

<p>Combination Options</p> <p>Individual Components</p>	<p>ComfoAir Q450 right handed with mounting set, 2 x attenuators and 2 x 10 port ø 75mm mounting plates</p> 	<p>Stand alone attenuator with 2 x ø 180mm end plates</p> 	<p>Stand alone manifold with 1 x ø 180mm end plate and 10 x ø 90mm mounting plate</p> 	<p>Stand alone filter housing with 2 x ø 180mm end plate</p> 	<p>Stand alone silencer and manifold combined with 1 x ø 180mm end plate and 10 x ø 90mm mounting plate</p> 	<p>Stand alone 2 x attenuator with 1 x ø 180mm end plate and 10 x ø 90mm mounting plate</p> 
<p>Attenuator</p>  <p>Article Number: 990 323 502</p>	<p>2 x Zehnder ComfoWell attenuator, CW-S 520</p>	<p>1 x Zehnder ComfoWell attenuator, CW-S 520</p>	<p>—</p>	<p>—</p>	<p>1 x Zehnder ComfoWell attenuator, CW-S 520</p>	<p>2 x Zehnder ComfoWell attenuator, CW-S 520</p>
<p>Manifold Box</p>  <p>Article Number: 990 323 532</p>	<p>—</p>	<p>—</p>	<p>1 x Zehnder ComfoWell manifold box, CW-D 520</p>	<p>—</p>	<p>—</p>	<p>—</p>
<p>Filter Housing</p>  <p>Article Number: 990 323 552</p>	<p>—</p>	<p>—</p>	<p>—</p>	<p>1 x Zehnder ComfoWell filter housing, CW-F 520</p>	<p>—</p>	<p>—</p>
<p>Mounting Plate -ø75</p>  <p>Article Number: 990 323 614</p>	<p>2 x Zehnder ComfoWell mounting plate, CW-M 520, 10 x 75mm connections</p>	<p>—</p>	<p>—</p>	<p>—</p>	<p>—</p>	<p>—</p>
<p>Mounting Plate -ø90</p>  <p>Article Number: 990 323 615</p>	<p>—</p>	<p>—</p>	<p>1 x Zehnder ComfoWell mounting plate, CW-M 520, 10 x 90mm connections</p>	<p>—</p>	<p>1 x Zehnder ComfoWell mounting plate, CW-M 520, 10 x 90mm connections</p>	<p>1 x Zehnder ComfoWell mounting plate, CW-M 520, 10 x 90mm connections</p>
<p>End Plate - ø 180</p>  <p>Article Number: 990 323 513</p>	<p>—</p>	<p>2 x Zehnder ComfoWell end plate, CW-P 520, ø 180mm</p>	<p>1 x Zehnder ComfoWell end plate, CW-P 520, ø 180mm</p>	<p>2 x Zehnder ComfoWell end plate, CW-P 520, ø 180mm</p>	<p>1 x Zehnder ComfoWell end plate, CW-P 520, ø 180mm</p>	<p>1 x Zehnder ComfoWell end plate, CW-P 520, ø 180mm</p>
<p>Mounting Set</p>  <p>Article Number: 990 323 646</p>	<p>1 x Zehnder ComfoWell mounting set, CW-K 520, for Zehnder ComfoAir Q450/600</p>	<p>—</p>	<p>—</p>	<p>—</p>	<p>—</p>	<p>—</p>
<p>Filter</p>  <p>Article Number: 990 323 607</p>	<p>—</p>	<p>—</p>	<p>—</p>	<p>1 x Filter for ComfoWell 520, CW-F9 520, ISO ePM1 >90% (F9), 1 Piece</p>	<p>—</p>	<p>—</p>

Dimensions

Zehnder ComfoWell attenuator, CW-S 520

Article number: 990 323 502

Description

Attenuator:

Zehnder ComfoWell attenuator CW-S 520. Rectangular compact attenuator with highly efficient sound insulation combined with low pressure losses. The attenuator can be used individually or in combination with all ComfoWell components. The airtight connection between components is via a clamping strip.

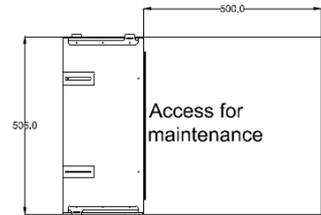
For cleaning purposes the sound absorbing element can be removed. Mounting on the wall or ceiling is done using the supplied fully adjustable installation mounts.

Dimensions

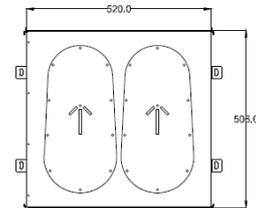
Height	506mm
Width	536mm
Depth	232.5mm
Weight	8.2 kg



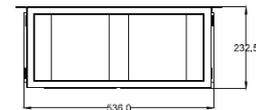
Side view



Front view



Top View



Zehnder ComfoWell manifold box CW-D 520

Article number: 990 323 532

Description

Manifold Box:

Zehnder ComfoWell manifold box CW-D 520. Rectangular compact design with closed pore internal lining. Suitable for use with the mounting plate for ComfoTube 75mm x 10 connections, 90mm x 10 connections or a combination of 90mm x 4 and 75mm x 6 connections.

The mounting plate can be mounted on the top or side of the manifold box. The airtight connection between components is via a clamping strip.

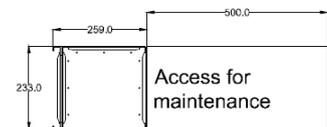
For cleaning purposes the manifold box side plate can be removed for easy access. Mounting on the wall or ceiling is done using the supplied fully adjustable installation mounts.

Dimensions

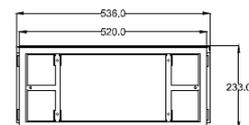
Height	233mm
Width	536mm
Depth	259 mm
Weight	5.42 kg



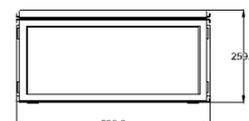
Side view



Front view



Top View



Dimensions

Zehnder ComfoWell filter housing CW-F 520

Article number: 990 323 552

Description

Filter Housing:

Zehnder ComfoWell filter housing CW-F 520. Rectangular compact design for use with a fine pollen filter graded ISO ePM1 >80% (F7), a fine dust filter graded ISO ePM1 >90% (F9) or an active carbon filter to neutralise odours in the supply air duct run. The filter elements are not included with the filter housing and need to be purchased separately. The filter housing can be used individually or in combination with all ComfoWell components. The airtight connection between components is via a clamping strip.

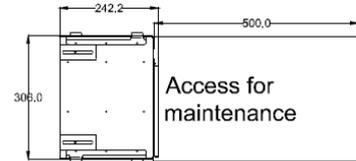
Mounting on the wall or ceiling is done using the supplied fully adjustable installation mounts.

Dimensions

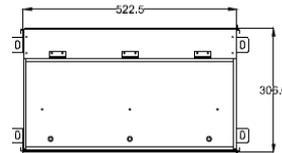
Height	306 mm
Width	536 mm
Depth	242.2 mm
Weight	6.66 kg



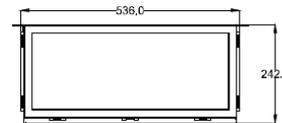
Side view



Front view



Top View



Zehnder ComfoWell mounting plate CW-M 520

Article number: 990 323 614

Description

Mounting Plate:

Zehnder ComfoWell mounting plate CW-M 520-10 x 75. Manifold mounting plate for connection of 10x ComfoTube 75mm semi-rigid ducting.

The mounting plate includes a protective film and the necessary mounting accessories.

Dimensions

Height	45mm
Width	536mm
Depth	230mm
Weight	<2.42 kg



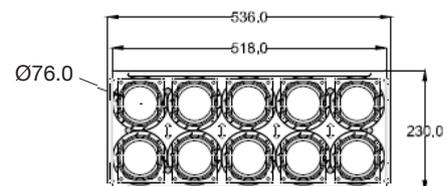
Side view



Front view



Top View



Dimensions

Zehnder ComfoWell mounting plate CW-M 520

Article number: 990 323 615

Description

Mounting Plate:

Zehnder ComfoWell mounting plate CW-M 520-10 x 90. Manifold mounting plate for connection of 10 x ComfoTube 90mm semi-rigid ducting.

The mounting plate includes a protective film and the necessary mounting accessories.



Side view



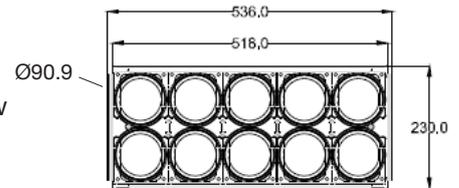
Front view



Dimensions

Height	45mm
Width	536mm
Depth	230mm
Weight	<2.42 kg

Top View



Zehnder ComfoWell mounting plate CW-M 520

Article number: 990 323 617

Description

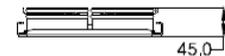
Mounting Plate:

Zehnder ComfoWell mounting plate CW-M 520 4 x 90 and 6 x 75. Manifold mounting plate for connection of 4 x 90mm and 6 x 75mm semi-rigid ducting.

The mounting plate includes a protective film and the necessary mounting accessories.



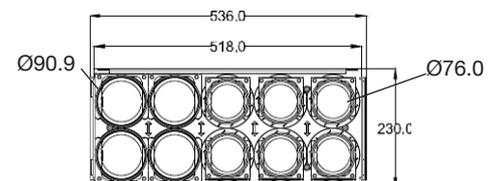
Side view



Front view



Top View



Dimensions

Zehnder ComfoWell end plate CW-P 520 - Ø 150

Article number: 990 323 568

Description

End Plate:

Zehnder ComfoWell end plate CW-P 520 - DN150 (with centre connection) for the connection to the ComfoWell attenuator/manifold box or filter housing to the matching ducting size required.

The end plate includes the necessary mounting accessories.

Dimensions

Height	42.3mm
Width	536mm
Depth	230mm
Diameter	150mm



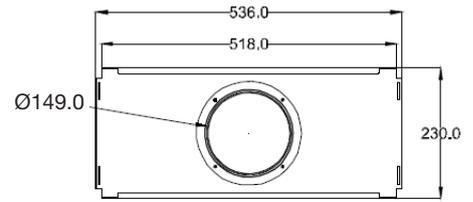
Side view



Front view



Top View



Zehnder ComfoWell end plate CW-P 520 - Ø 160mm

Article number: 990 323 564

Description

End Plate:

Zehnder ComfoWell end plate CW-P 520 - DN160 (with centre connection) for the connection to the ComfoWell attenuator/manifold box or filter housing to the matching ducting size required. The end plate includes the necessary mounting accessories.

Dimensions

Height	42.3mm
Width	536mm
Depth	230mm
Diameter	160mm



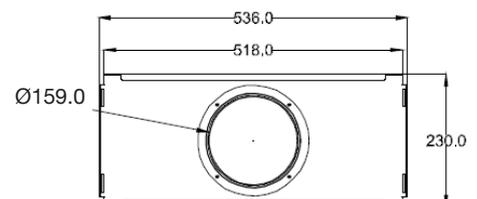
Side view



Front view



Top View



Dimensions

Zehnder ComfoWell end plate CW-P 520 -Ø 180mm

Article number: 990 323 513

Description

End Plate:

Zehnder ComfoWell end plate CW-P 520 - DN180 (with centre connection) for the connection to the ComfoWell attenuator/manifold box or filter housing to the matching ducting size required. The end plate includes the necessary mounting accessories.

Dimensions

Height	42.3mm
Width	536mm
Depth	230mm
Diameter	180mm



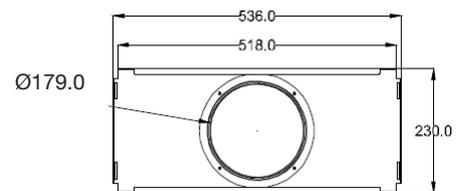
Side view



Front view



Top View



Zehnder ComfoWell end plate CW-P 520 -Ø 200mm

Article number: 990 323 514

Description

End Plate:

Zehnder ComfoWell end plate CW-P 520 - DN200 (with centre connection) for the connection to the ComfoWell attenuator/manifold box or filter housing to the matching ducting size required. The end plate includes the necessary mounting accessories.

Dimensions

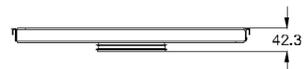
Height	42.3mm
Width	536mm
Depth	230mm
Diameter	200mm



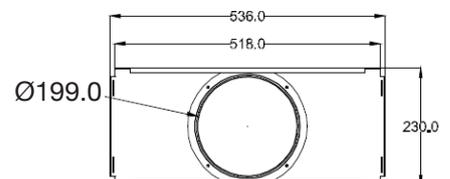
Side view



Front view



Top View



Dimensions

Zehnder ComfoWell spacer frame, CW-DF 520

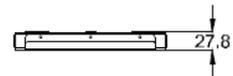
Article number: 990 323 539

Description

Zehnder ComfoWell spacer frame CW-DF520. Rectangular frame for use in the event of uneven surfaces when connecting components and mounting plate (concreted in place) are at 90 degrees. The spacer frame includes the necessary mounting accessories.



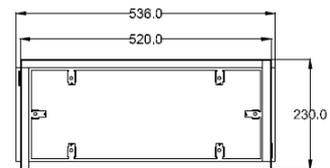
Side view



Front view



Top View

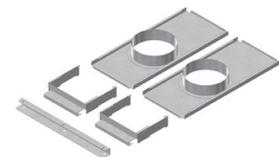


Dimensions

Height	27.8mm
Width	536mm
Depth	230mm
Weight	1.36 kg

Zehnder ComfoWell mounting set, CW-K 520, for Zehnder ComfoAir Q350

Article number: 990 323 649



Description

Mounting set:

A special mounting set is available for the Zehnder ComfoWell 520 for direct mounting to the ComfoAir Q350 ventilation units. The mounting set includes all the necessary accessories (screws, brackets and mounting brackets).

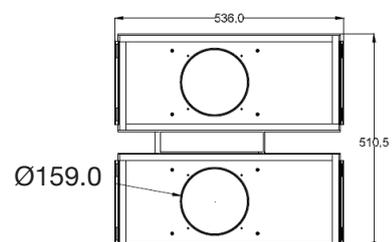
Side view



Front view



Top View



Dimensions

Height	61.8mm
Width	536mm
Depth	510.5mm
Weight	4.56 kg

Dimensions

Zehnder ComfoWell mounting set, CW-K 520,
for Zehnder ComfoAir Q450/600

Article number: 990 323 646

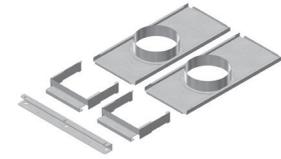
Description

Mounting set:

A special mounting set is available for the Zehnder ComfoWell 520 for direct mounting to the ComfoAir Q450/ComfoAir Q600 ventilation units. The mounting set includes all the necessary accessories (screws, brackets and mounting brackets).

Dimensions

Height	61.8mm
Width	536mm
Depth	510.5mm
Weight	5.5 kg



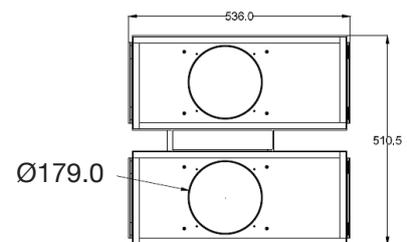
Side view



Front view

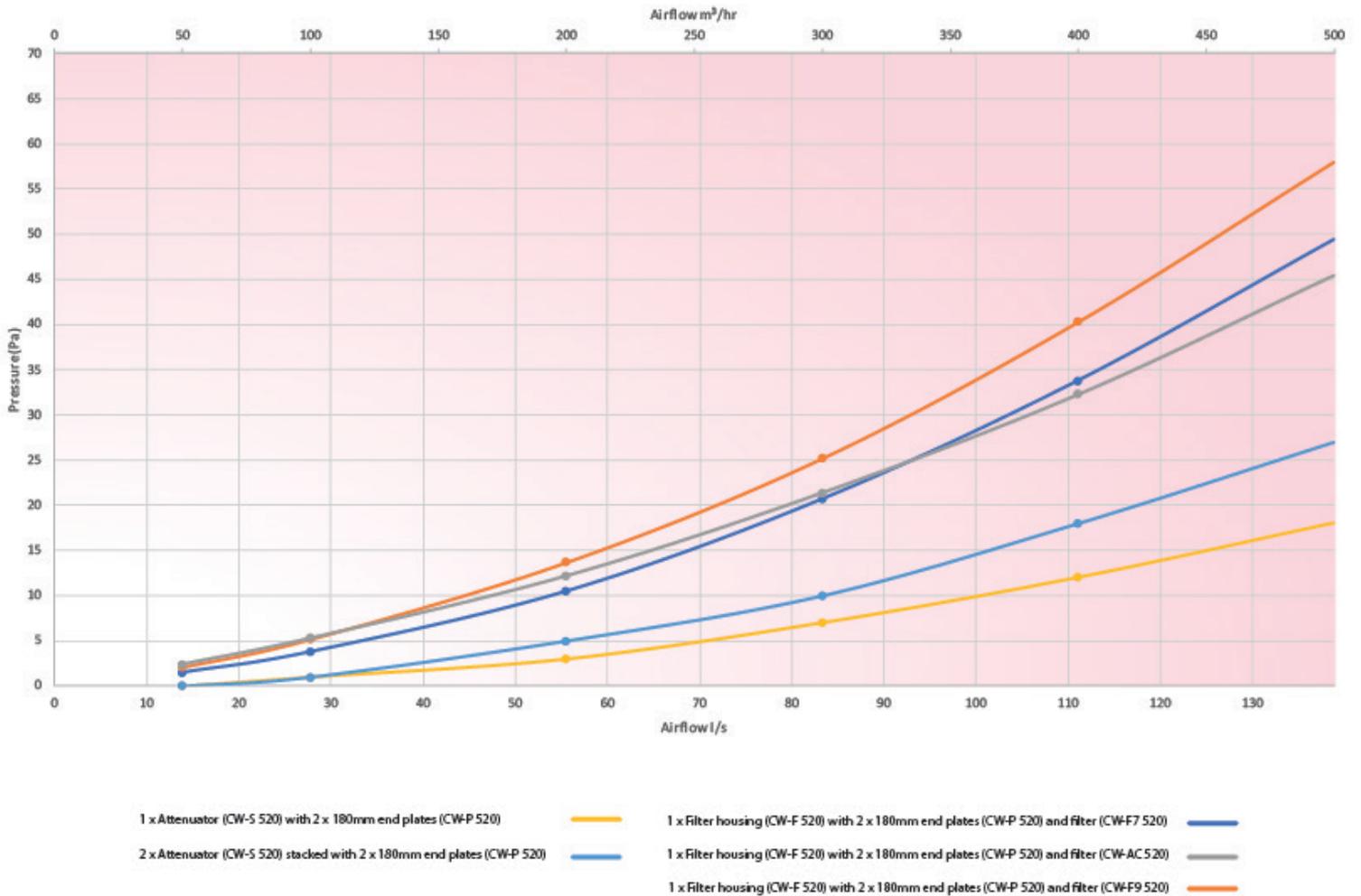


Top View



Pressure Curve

Comfowell 520



Sound Data

Comfowell 520

Combination	Octave Band (Hz) Insertion Loss, dB							
	63	125	250	500	1000	2000	4000	8000
1 x Attenuator (CW-S 520) with 2 x 180mm end plates (CW-P 520)	2,0	6,3	10,3	16,5	12,0	20,4	15,0	13,5
2 x Attenuator (CW-S 520) stacked with 2 x 180mm end plates (CW-P 520)	6,7	12,3	20,3	22,5	19,2	37,8	27,6	23,9

For use with

Our range of Comfowell units can be used in conjunction with our Zehnder ComfoTube ø 75mm and ø 90mm semi-rigid ductwork.



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INFORMATION**

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BIM/CAD Components

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Installation Instructions

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Consultant specification

Specification

The semi-rigid ductwork manifold shall be constructed of galvanised sheet steel with a closed-cell melamine resin foam inner lining to prevent dust collection and have a fire class C rating according to EN ISO13501.

It shall be of modular construction with options to combine attenuators, manifold box, filter housing with ISO ePM1 >80% (F7), ISO ePM1 >90% (F9) or active carbon filters and end plates ranging from ø 125mm to ø 200mm.

It shall have the option of a mounting set for direct connection to the mechanical ventilation with heat recovery unit. The components shall be tested to BS EN 1507:2006 and BS EN 12237:2003 for airtightness and have removable elements to provide access for cleaning.