Zehnder ComfoWell 625

Modular manifold for use with semi-rigid ductwork

Product data sheet

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ComfoWell 625

The Zehnder ComfoWell 625 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 625 mm it can be used for connecting up to 12 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 RapidLock® connections to quickly form an air tight and robust seal by simply push-fitting the semi-rigid ductwork. Noise reduction can be improved by combining two attenuators together. Filters are available in ISO ePM1 (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's required.
- Easy to assemble thanks to its modular and compact design.

Article Numbers

Description	Product Code
Attenuator	
Zehnder ComfoWell attenuator, CW-S 625	990 323 505
Manifold	
Zehnder ComfoWell manifold box, CW-D 625	990 323 630
Filter Housing	
Zehnder ComfoWell filter housing, CW-F 625	990 323 555
Mounting Plates	
Zehnder ComfoWell mounting plate, CW-M 625, 12 x 75 mm connections	990 323 631
Zehnder ComfoWell mounting plate, CW-M 625, 12 x 90 mm connections	990 323 632
End Plates	
Zehnder ComfoWell end plate, CW-P 625, ø 160 mm	990 323 637
Zehnder ComfoWell end plate, CW-P 625, ø 180 mm	990 323 638
Zehnder ComfoWell end plate, CW-P 625, ø 200 mm	990 323 639
Spacer Frame	
Zehnder ComfoWell spacer frame, CW-DF 625	990 323 634
Mounting Set	
Zehnder ComfoWell mounting set, CW-K 625, for Zehnder ComfoAir Q450/600	990 323 642
Filters	
Filter for ComfoWell 625, CW-F9 625, ISO ePM1 (F9), 1 Piece	990 323 654
Filter for ComfoWell 625, CW-AC 625, active carbon filter, 1 Piece	990 323 655

Technical Specification

Housing	Galvanised sheet steel
Inner lining	Closed-cell melamine resin foam
Mounting Plates	High-density polyethylene (HDPE)
Operating temperature range	-25 to +60°C
Recommended maximum air volume	133.3 l/s (480 m³/h) at normal ventilation level
Air tightness class to EN 1507:2006	C
Air tightness class to EN 12237:2003	C
Fire rating to EN 13501-1	C

Sound Data

Combination	Octave Band (Hz) Insertion Loss, dB							
	63	125	250	500	1000	2000	4000	8000
1 x Attenuator (CW-S 625) with 2 x 180 mm end plates (CW-P 625)	8.5	4.1	9	16.3	11.9	12.5	10.1	8.2
2 x Attenuator (CW-S 625) stacked with 2 x 180 mm end plates (CW-P 625)	8	9.7	16.6	19.9	18.7	22.5	17.3	16.1
1 x Attenuator (CW-S 625) with 1 x 200 mm end plates (CW-P 625) and 1 x 75 mm mounting plate (CW-M 625)	18.6	10.7	19.2	27.3	23	24	19.3	18

Acoustic performance measured according to EN ISO 7235 (pink noise)

Example Connections

Combination Options / Individual Components	ComfoAir Q600 right handed with mounting set, 2 x attenuators and 2 x 12 port ø 90mm mounting plates	Stand alone attenuator with 2 x ø 200mm end plates	Stand alone manifold with 1 x ø 200mm end plate and 12 x ø 90mm mounting plate	Stand alone filter housing with 2 x ø 200mm	Stand alone silencer and manifold combined with 1 x ø 200mm end plate and 12 x ø 90mm mounting plate	Stand alone 2 x attenuator with 1 x ø 200mm end plate and 12 x ø 90mm mounting plate
Attenuator — Article Number: 990 323 505	2 x Zehnder ComfoWell attenuator, CW-S 625	1 x Zehnder ComfoWell attenuator, CW-S 625	——	——	1 x Zehnder ComfoWell attenuator, CW-S 625	2 x Zehnder ComfoWell attenuator, CW-S 625
Manifold Box — Article Number: 990 323 630	——	——	1 x Zehnder ComfoWell manifold box, CW-D 625	——	——	——
Filter Housing — Article Number: 990 323 555	——	——	——	1 x Zehnder ComfoWell filter housing, CW-F 625	——	——
Mounting Plate - ø90 — Article Number: 990 323 632	2 x Zehnder ComfoWell mounting plate, CW-M 625, 12 x 90mm connections	——	1 x Zehnder ComfoWell mounting plate, CW-M 625, 12 x 90mm connections	——	1 x Zehnder ComfoWell mounting plate, CW-M 625, 12 x 90mm connections	1 x Zehnder ComfoWell mounting plate, CW-M 625, 12 x 90mm connections
End Plate - ø 200 — Article Number: 990 323 639	——	2 x Zehnder ComfoWell end plate, CW-P 625, ø 200mm	1 x Zehnder ComfoWell end plate, CW-P 625, ø 200mm	2 x Zehnder ComfoWell end plate, CW-P 625, ø 200mm	1 x Zehnder ComfoWell end plate, CW-P 625, ø 200mm	1 x Zehnder ComfoWell end plate, CW-P 625, ø 200mm
Mounting Set — Article Number: 990 323 642	1 x Zehnder ComfoWell mounting set, CW-K 625, for Zehnder ComfoAir Q450/600	——	——	——	——	——
Filter — Article Number: 990 323 654	——	——	——	1 x Filter for ComfoWell 625, CW-F9 625, ISO ePM1 >90% (F9), 1 Piece	——	——

Zehnder ComfoWell attenuator CW-S 625

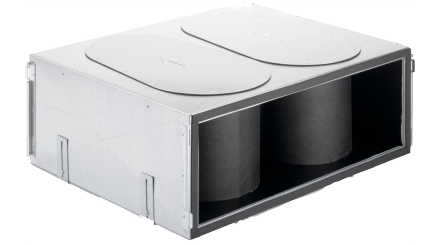Article number: 990 323 505

Description
Attenuator:
Zehnder ComfoWell attenuator CW-S 625.
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.
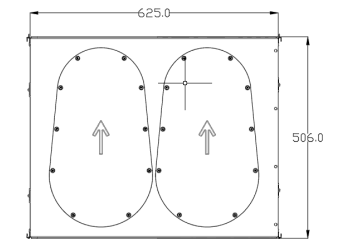
Technical Specification

Height	506 mm
Width	625 mm
Depth	233.8 mm
Weight	8 kg

Dimensions

Front View

Side View — Access for maintenance

Top View

Pressure Curve

Airflow (m³/hr)

Static Pressure (Pa) / Static Pressure (mmwg) vs Airflow (l/s)

—— 1 x Attenuator (CW-S 625) with 2 x 200 mm end plates (CW-P 625)
—— 2 x Attenuator (CW-S 625) stacked with 2 x 200 mm end plates (CW-P 625)
—— 1 x Attenuator (CW-S 625) with 1 x 200 mm end plates (CW-P 625) and 1 x 75 mm mounting plate (CW-M 625) - Supply
—— 1 x Attenuator (CW-S 625) with 1 x 200 mm end plates (CW-P 625) and 1 x 75 mm mounting plate (CW-M 625) - Extract
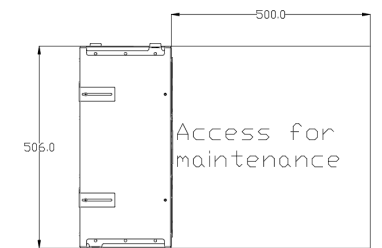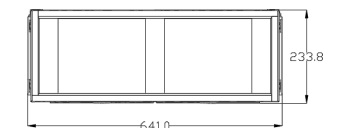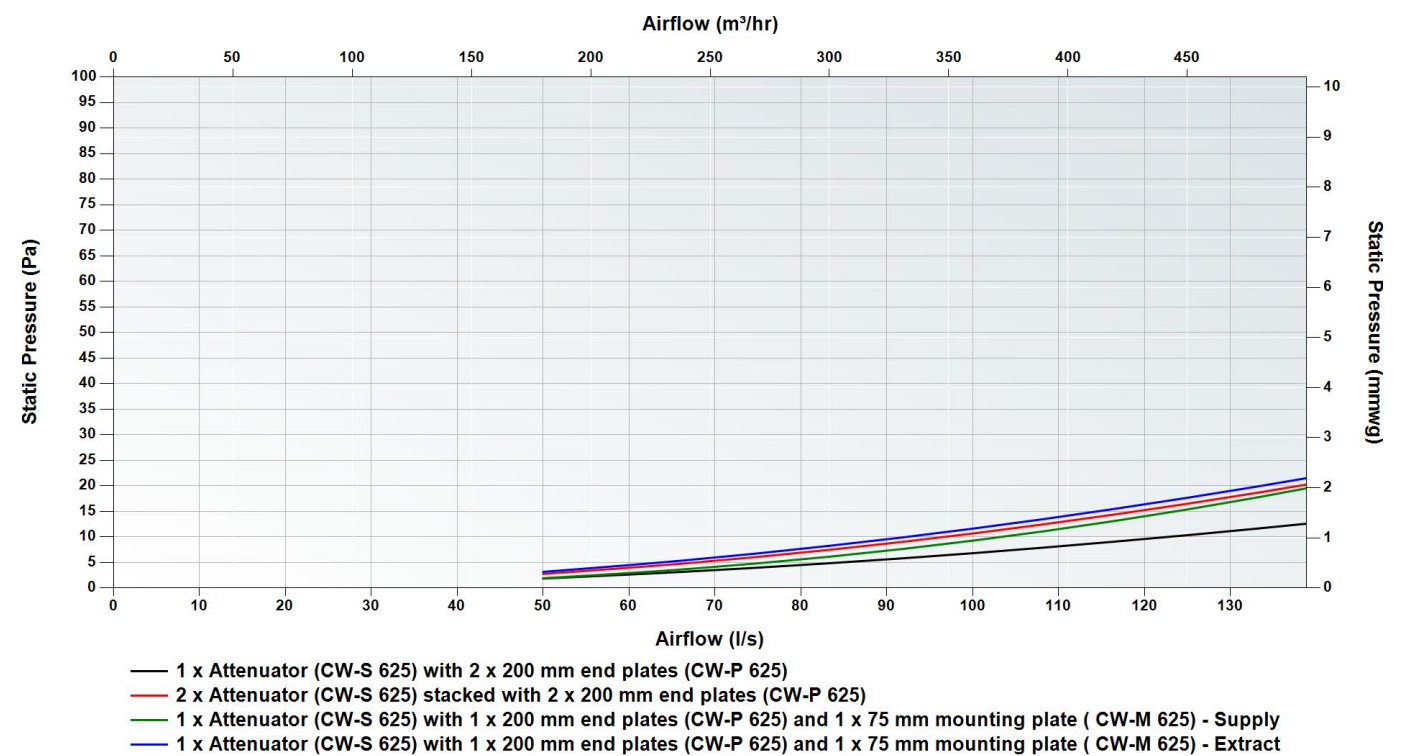
Zehnder ComfoWell manifold box CW-D 625

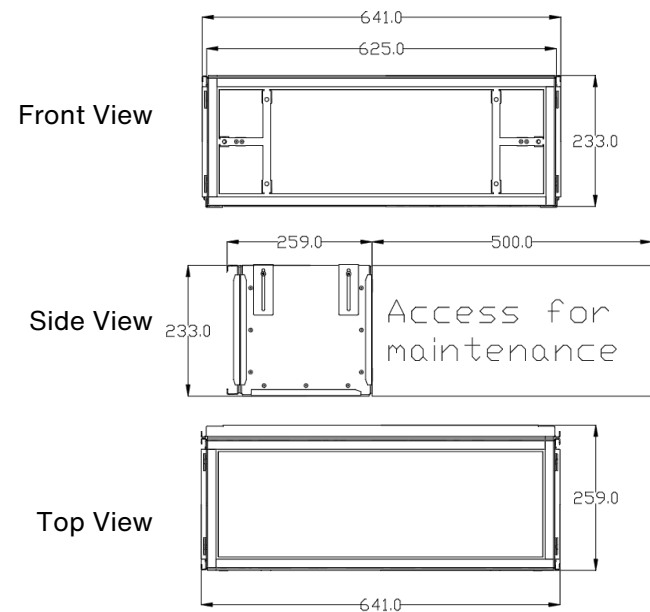Article number: 990 323 630

Description

Manifold Box:

Zehnder ComfoWell manifold box CW-D 625. Rectangular compact design with closed pore internal lining. Suitable for use with the mounting plate for 12 x ComfoTube 75 mm connections or 12 x 90 mm 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.

Technical Specification

Height	233 mm
Width	641 mm
Depth	259 mm
Weight	6.5 kg

Dimensions

Front View

Side View

Access for maintenance

Top View

641.0
625.0
233.0
259.0
500.0
233.0
259.0
641.0

Zehnder ComfoWell filter housing CW-F 625

Article number: 990 323 555
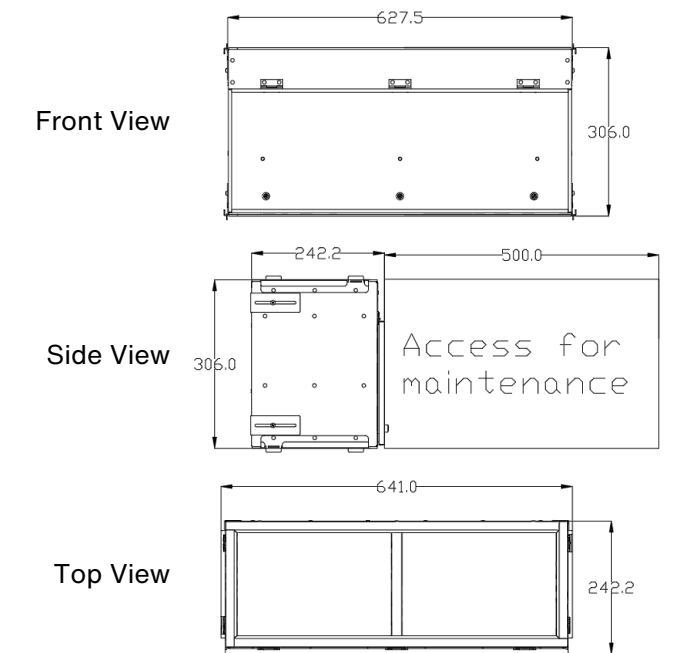
Description

Filter Housing:

Zehnder ComfoWell filter housing CW-F 625. Rectangular compact design for use with a fine dust filter graded ISO ePM1 (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, with only 1 filter per housing possible. 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.
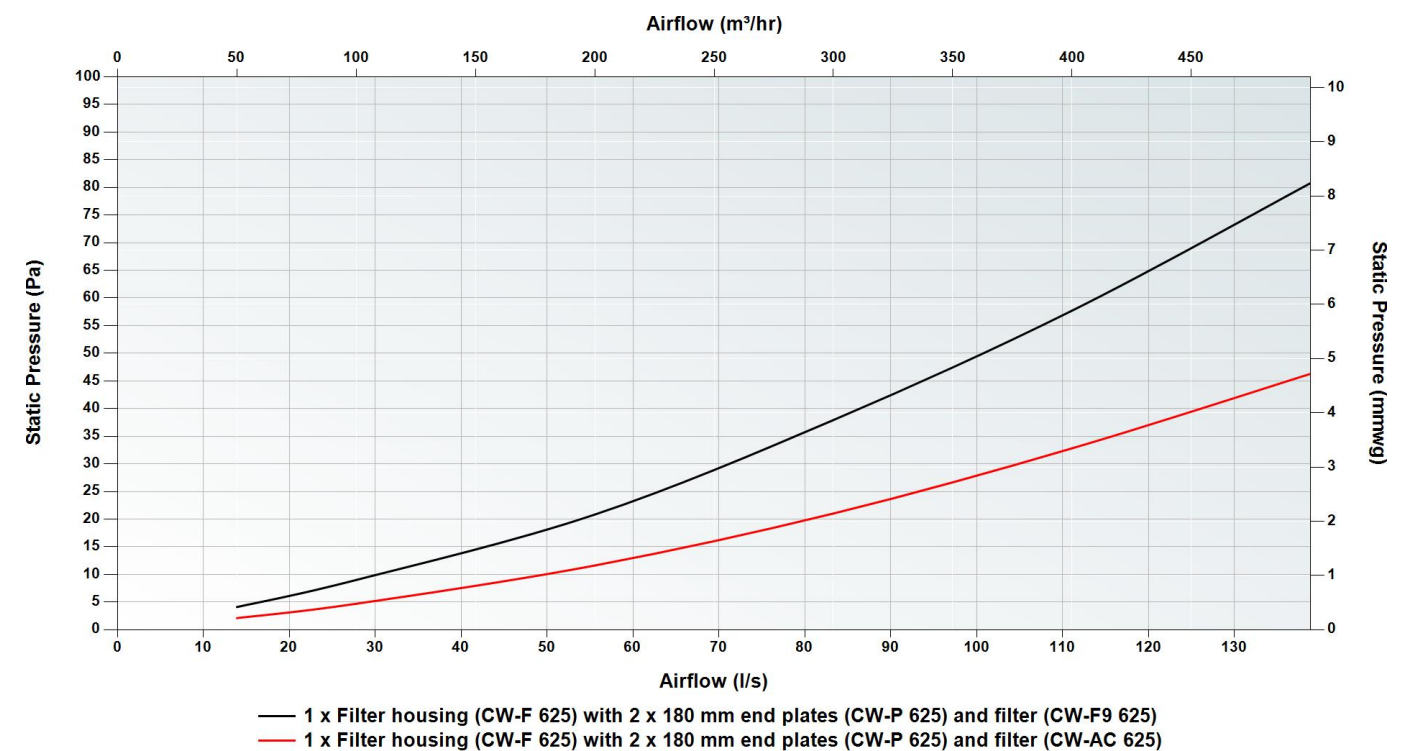
Technical Specification

Height	306 mm
Width	627.5 mm
Depth	242.2 mm
Weight Housing	7.36 kg
CW-F9	1 kg
CW-AC	1.68 kg

Dimensions

Front View

Side View

Access for maintenance

Top View

627.5
306.0
242.2
500.0
306.0
641.0
242.2

Pressure Curve

Airflow (m³/hr)

Static Pressure (Pa)

Static Pressure (mmwg)

Airflow (l/s)

—— 1 x Filter housing (CW-F 625) with 2 x 180 mm end plates (CW-P 625) and filter (CW-F9 625)
—— 1 x Filter housing (CW-F 625) with 2 x 180 mm end plates (CW-P 625) and filter (CW-AC 625)

Zehnder ComfoWell mounting plate CW-M 625

Article number: 990 323 631 / 990 323 632

Description

Mounting Plate:

Zehnder ComfoWell mounting plate CW-M 625-12 x 75 or 90. Manifold mounting plate for connection of 12 x ComfoTube 75 mm or 90 mm semi-rigid ducting. The mounting plate includes a protective film and the necessary mounting accessories, including RapidLock® connections to quickly form an air tight and robust seal by simply push-fitting the semi-rigid ductwork.

Technical Specification

Height	56.7 mm / 61.3 mm
Width	641 mm
Depth	230 mm
Weight	<1.9 kg

Dimensions

990 323 631
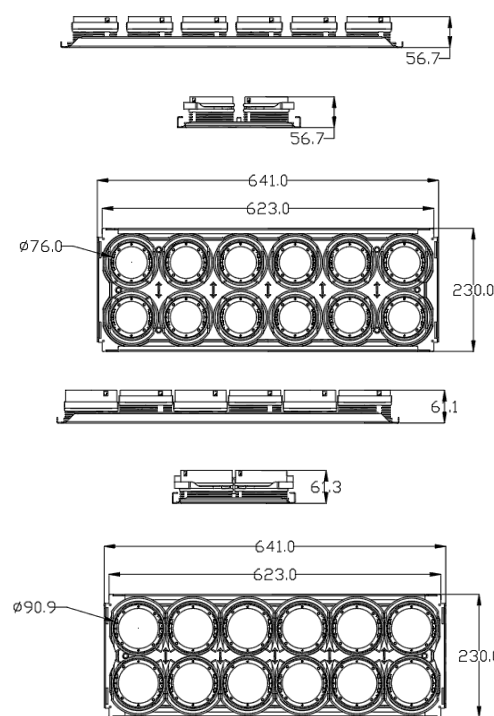Front View

990 323 631
Side View

990 323 631
Top View

990 323 632
Front View

990 323 632
Side View

990 323 632
Top View

Zehnder ComfoWell spacer frame, CW-DF 625

Article number: 990 323 634

Description

Spacer Frame:

Zehnder ComfoWell spacer frame CW-DF625. 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.
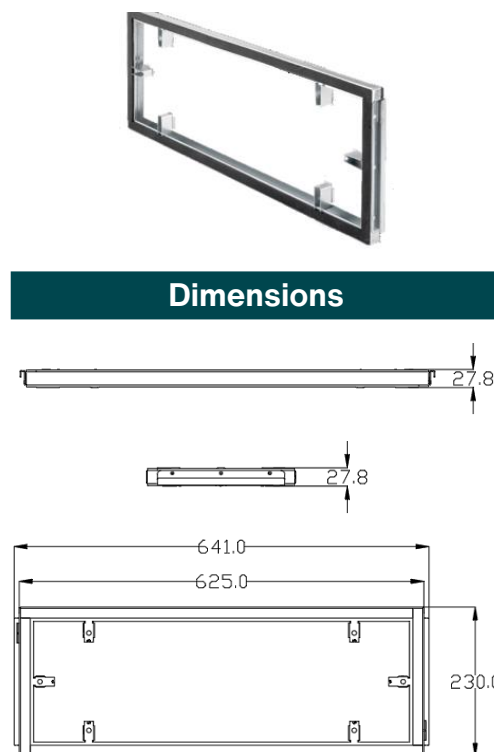
Technical Specification

Height	27.8 mm
Width	641 mm
Depth	230 mm
Weight	1.36 kg

Dimensions

Front View

Side View

Top View

Zehnder ComfoWell end plate CW-P 625 - ø 160 / 180 / 200 mm

Article number: 990 323 637 / 990 323 638 / 990 323 639

Description

End Plate:

Zehnder ComfoWell end plate CW-P 625 - DN160 / DN180 / 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.

Technical Specification

Diameter	160 mm / 180 mm / 200 mm
Height	42.3 mm
Width	641 mm
Depth	230 mm
Weight	<1.82 kg

Dimensions

990 323 637
Front View

990 323 637
Side View

990 323 637
Top View

990 323 638
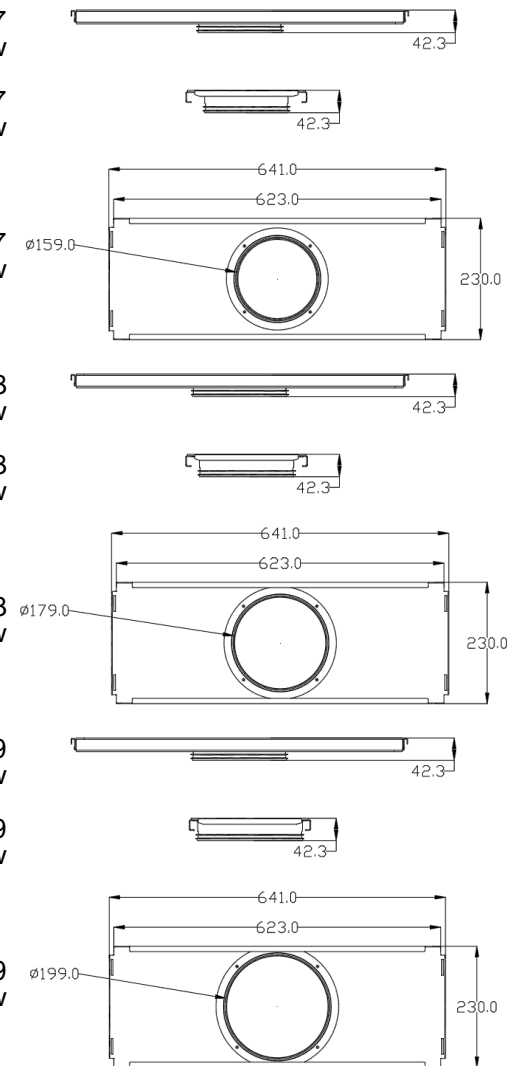Front View

990 323 638
Side View

990 323 638
Top View

990 323 639
Front View

990 323 639
Side View

990 323 639
Top View

Zehnder ComfoWell mounting set, CW-K 625, for Zehnder ComfoAir Q450/600

Article number: 990 323 642

Description
Mounting set:
A special mounting set is available for the Zehnder ComfoWell 625 for direct mounting to the ComfoAir Q600 ventilation units. The mounting set includes all the necessary accessories (screws, brackets and mounting brackets).

Technical Specification

Height	61.8 mm
Width	641 mm
Depth	510.5 mm
Weight	5.17 kg

Dimensions

Front View

Side View

Top View

61.8

641.0

61.8

510.5

ø180.0
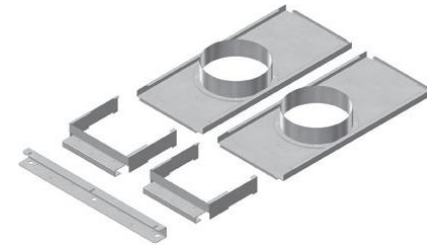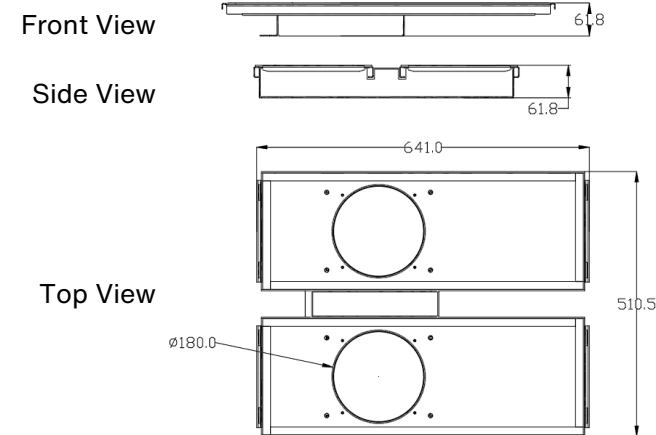
For use with

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

TO VIEW OUR COMFOTUBE INFORMATION

CLICK HERE

BIM/CAD Components

If you would like to download the BIM / CAD files for this or any other of our products then please visit our BIM library.

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Installation Instructions

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Our Informational Videos

Watch our video on the future of air distribution installation - Zehnder RapidLock®!

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Watch our video on how to clean the Zehnder ComfoTube ductwork.

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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 according to EN 13501-1.

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

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.

Comfowell625_Technical_Specification_2024_V1