

Zehnder ComfoWell 420

Modular manifold for use with semi-rigid ductwork

Product data sheet

always the best climate





Technical Specification

Housing	Galvanis
Inner lining	Closed-c
Mounting Plates	High-der
Operating temperature range	-25 to +6
Recommended maximum air volume	88.8 l/s
Air tightness class to EN 1507:2006	С
Air tightness class to EN 12237:2003	С
Fire rating to EN 13501-1	С

Sound Data

1 x Attenuator (CW-S 420) with 2 x 160 mm end plates (CW-P 420)

Combination

2 x Attenuator (CW-S 420) stacked with 2 x 160 mm end plate (CW-P 420)

1 x Attenuator (CW-S 420) with 1 x 160 mm end plates (CW-P 420) and 1 x 75 mm mounting plate (CW-M 420)

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

ComfoWell 420

The Zehnder ComfoWell 420 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 420 mm it can be used for connecting up to 8 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 420	990 323 504
Manifold	
Zehnder ComfoWell manifold box, CW-D 420	990 323 620
Filter Housing	
Zehnder ComfoWell filter housing, CW-F 420	990 323 554
Mounting Plates	
Zehnder ComfoWell mounting plate, CW-M 420, 8 x 75 mm connections	990 323 621
Zehnder ComfoWell mounting plate, CW-M 420, 8 x 90 mm connections	990 323 622
End Plates	
Zehnder ComfoWell end plate, CW-P 420, ø 125 mm	990 323 625
Zehnder ComfoWell end plate, CW-P 420, ø 160 mm	990 323 627
Zehnder ComfoWell end plate, CW-P 420, ø 180 mm	990 323 628
Zehnder ComfoWell end plate, CW-P 420, ø 200 mm	990 323 629
Spacer Frame	
Zehnder ComfoWell spacer frame, CW-DF 420	990 323 624
Mounting Set	
Zehnder ComfoWell mounting Set, CW-K 420, for Zehnder ComfoAir Q350	990 323 648
Zehnder ComfoWell mounting set, CW-K 420, for Zehnder ComfoAir Q450/600	990 323 641
Zehnder ComfoWell mounting set, CW-K 420, for Zehnder ComfoAir Flex 250/350	990 323 712
Filters	
Filter for ComfoWell 420, CW-F9 420, ISO ePM1 (F9), 1 Piece	990 323 651
Filter for ComfoWell 420, CW-AC 420, active carbon filter, 1 Piece	990 323 652



sed sheet steel

cell melamine resin foam

ensity polyethylene (HDPE)

-60°C

(320 m³/h) at normal ventilation level

		Octa	ave Bar	nd (Hz)	Insertio	on Loss	, dB	
	63	125	250	500	1000	2000	4000	8000
C	8.2	5.7	8.3	12.9	12.2	14	11.2	11.6
tes	7.2	10	16.8	23.9	17.6	28.1	21.2	20.8
>	24	7.1	14.8	26.7	24.8	24.6	24.5	21.7

Example Connections

Combination Options	ComfoAir Q350 right handed with mounting set, 2 x attenuators and 2 x 8 port o 75mm mounting plates	Stand alone attenuator with 2 x o 160mm end plates	Stand alone manifold with 1 x o 160mm end plate and 8 x ø 75mm mounting plate	Stand alone filter housing with 2 x ø 160mm	Stand alone silencer and manifold combined with 1 x o 160mm end plate and 8 x o 75mm mounting plate	Stand alone 2 x attenuator with 1 x o 160mm end plate and 8 x o 75mm mounting plate
Individual Components			8338		***** *	
Attenuator	2 x Zehnder ComfoWell attenuator, CW-S 420	1 x Zehnder ComfoWell attenuator, CW-S 420			1 x Zehnder ComfoWell attenuator, CW-S 420	2 x Zehnder ComfoWell attenuator, CW-S 420
Article Number: 990 323 620			1 x Zehnder ComfoWell manifold box, CW-D 420			
Filter Housing				1 x Zehnder ComfoWell filter housing, CW-F 420		
Mounting Plate -075	2 x Zehnder ComfoWell mounting plate, CW-M 420, 8 x 75mm connections		1 x Zehnder ComfoWell mounting plate, CW-M 420, 8 x 75mm connections		1 x Zehnder ComfoWell mounting plate, CW-M 420, 8 x 75mm connections	1 x Zehnder ComfoWell mounting plate, CW-M 420, 8 x 75mm connections
End Plate - ø 160		2 x Zehnder ComfoWell end plate, CW-P 420, ø 160mm	1 x Zehnder ComfoWell end plate, CW-P 420, ø 160mm	2 x Zehnder ComfoWell end plate, CW-P 420, ø 160mm	1 x Zehnder ComfoWell end plate, CW-P 420, ø 160mm	1 x Zehnder ComfoWell end plate, CW-P 420, e 160mm
Mounting Set	1 x Zehnder ComfoWell mounting set, CW-K 420, for Zehnder ComfoAir Q350					
Filter				1 x Filter for ComfoWell 420, CW-F9 420, ISO ePM1 >90% (F9), 1 Piece		



zeh

Zehnder ComfoWell attenuator CW-S 420

Article number: 990 323 504

Description

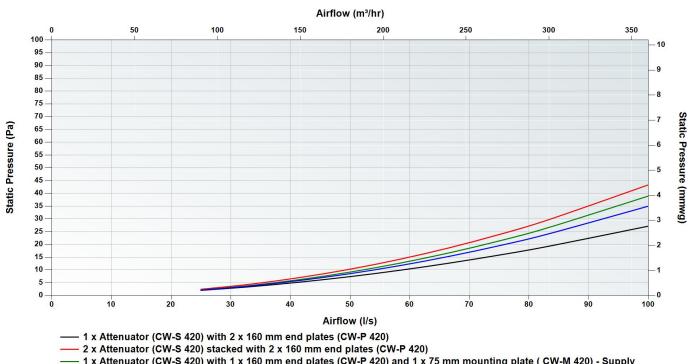
Attenuator:

Zehnder ComfoWell attenuator CW-S 420. 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

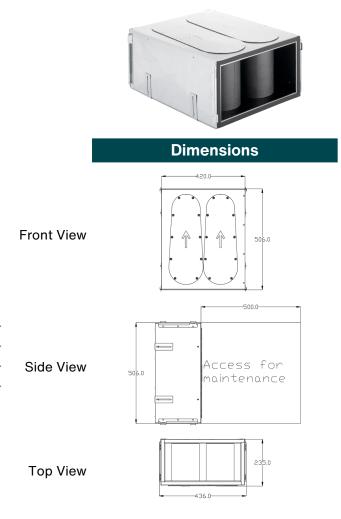
Height	506 mm
Width	436 mm
Depth	235 mm
Weight	6 kg

Pressure Curve



1 x Attenuator (CW-S 420) stacked with 2 x 100 mm end plates (CW-P 420) and 1 x 75 mm mounting plate (CW-M 420) - Supply
1 x Attenuator (CW-S 420) with 1 x 160 mm end plates (CW-P 420) and 1 x 75 mm mounting plate (CW-M 420) - Extract





Zehnder ComfoWell manifold box CW-D 420

Article number: 990 323 620

Description

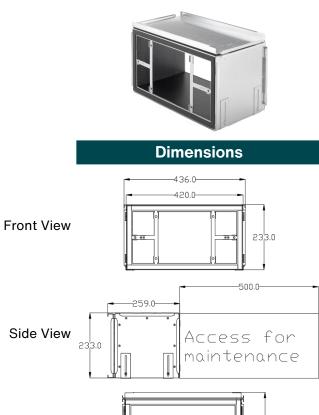
Manifold Box:

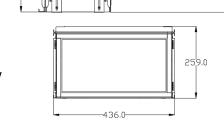
Zehnder ComfoWell manifold box CW-D 420. Rectangular compact design with closed pore internal lining. Suitable for use with the mounting plate for 8 x ComfoTube 75 mm connections or 8 x 90 mm connections. The mounting plate can be mounted on the top or side of the manifold box. The airtight connection 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	436 mm
Depth	259 mm
Weight	4.7 kg

Top View





ComfoWell 420

Zehnder ComfoWell filter housing CW-F 420

Article number: 990 323 554

Description

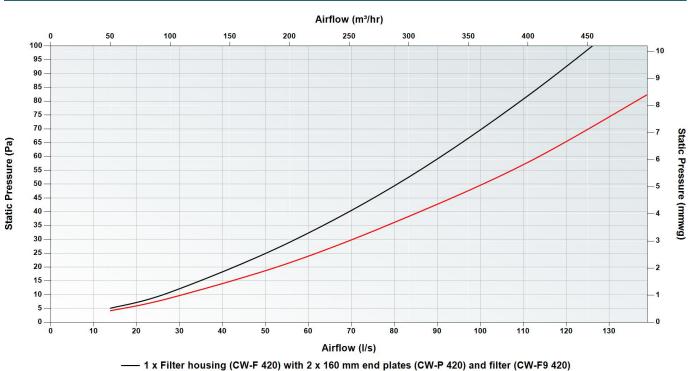
Filter Housing:

Zehnder ComfoWell filter housing CW-F 420. 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

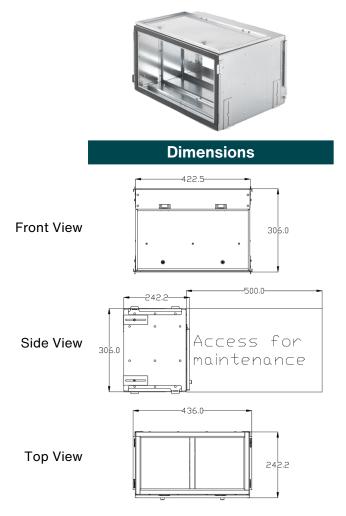
Height	306 mm
Width	436 mm
Depth	242.2 mm
Weight	
Housing	5.85 kg
CW-F9	0.8 kg
CW-AC	1.32 kg

Pressure Curve



- 1 x Filter housing (CW-F 420) with 2 x 160 mm end plates (CW-P 420) and filter (CW-AC 420)





Zehnder ComfoWell mounting plate CW-M 420

Article number: 990 323 621 / 990 323 622

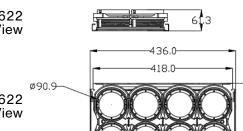
Description

Mounting Plate:

990 323 621 Zehnder ComfoWell mounting plate CW-M 420-8 x 75 or 90. Manifold mounting plate for connection of $8 \times \text{ComfoTube } 75 \text{ mm or } 90 \text{ mm semi-rigid ducting.}$ 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		990 323 621 Top View
Height	56.7 mm / 61.3 mm	
Width	436 mm	_
Depth	230 mm	_
Weight	<1.3 kg	990 323 622 Front View

990 323 622 Side Viev



Zehnder ComfoWell end plate CW-P 420 - ø 125 / 160 / 180 / 200 mm

Article number: 990 323 625 / 990 323 627 / 990 323 628 / 990 323 629

Description

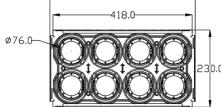
End Plate:

Zehnder ComfoWell end plate CW-P 420 - DN125 / DN160 / DN180 / DN200 (with centre connection) for 990 323 625 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	125 mm / 160 mm / 180 mm / 200 mm	
Height	42.3 mm	ģ
Width	436 mm	
Depth	230 mm	_
Weight	<1.25 kg	

Front View 990 323 621 Side View -436.0-



56.7-

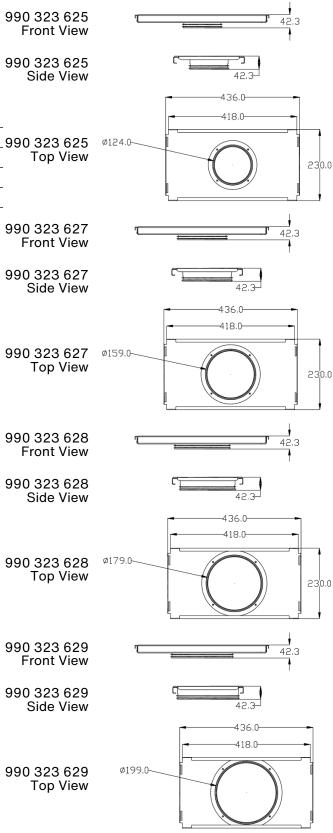
Dimensions

45.0-





Dimensions



Zehnder ComfoWell spacer frame, CW-DF 420

Article number: 990 323 624

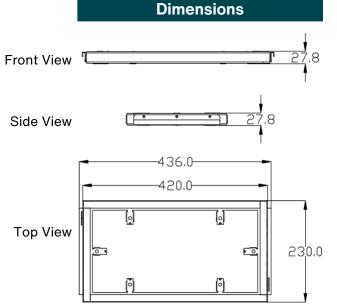
Description

Spacer Frame:

Zehnder ComfoWell spacer frame CW-DF420. 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	436 mm
Depth	230 mm
Weight	1.12 kg



ComfoWell 420

Zehnder ComfoWell mounting set, CW-K 420, for Zehnder ComfoAir Q450/600

Article number: 990 323 641

Description

Mounting set:

A range of special mounting sets are available for the Zehnder ComfoWell 420 for direct mounting to the ComfoAir Q350 / ComfoAir Q450 / ComfoĂir Q600 ComfoAir Flex 250 / ComfoAir Flex 350 ventilation units. The mounting set includes all the necessary accessories (screws, brackets and mounting brackets).

Technical Specification

Height	61.8 mm
Width	436 mm
Depth	510.5 mm
Weight	4.98 kg

Zehnder ComfoWell mounting set, CW-K 420, for Zehnder ComfoAir Q350

Article number: 990 323 648

Description

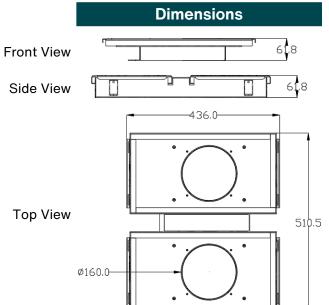
Mounting set:

A range of special mounting sets are available for the Zehnder ComfoWell 420 for direct mounting to the ComfoAir Q350 / ComfoAir Q450 / ComfoAir Q600 ComfoAir Flex 250 / ComfoAir Flex 350 ventilation units. The mounting set includes all the necessary accessories (screws, brackets and mounting brackets).

Technical Specification

Height	61.8 mm
Width	436 mm
Depth	510.5 mm
Weight	4.04 kg





Zehnder ComfoWell mounting set, CW-K 420, for Zehnder ComfoAir Flex 250/350

Article number: 990 323 712

Description

Mounting set:

A range of special mounting sets are available for the Zehnder ComfoWell 420 for direct mounting to the ComfoAir Q350 / ComfoAir Q450 / ComfoAir Q600 ComfoAir Flex 250 / ComfoAir Flex 350 ventilation units. The mounting set includes all the necessary accessories (screws, brackets and mounting brackets).

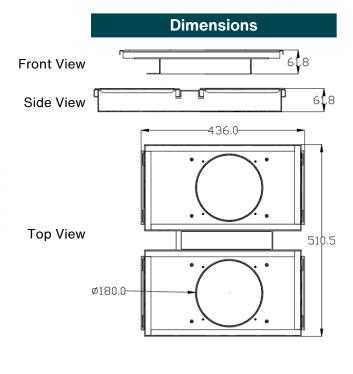
Technical Specification

Height	87 mm
Width	436 mm
Depth	230 mm
Weight	2.8 kg

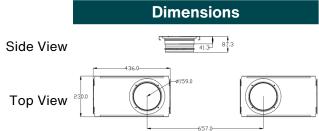
Top View











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.

TO VISIT OUR BIM/CAD LIBRARY



Installation Instructions

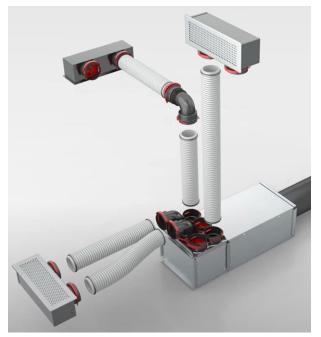
If you would like to download the installation files for this or any other of our products then please visit our download page by clicking the link below.

TO VISIT OUR DOWNLOAD PAGE



ComfoWell 420

Our Informational Videos



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

TO WATCH OUR VIDEO



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.

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.







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

TO WATCH OUR VIDEO

CLICK HERE

- It shall be of modular construction with options to combine attenuators, manifold box, filter housing with