

Zehnder ComfoPost CW8

Air to water exchanger

Product data sheet always the best climate





ComfoPost CW8

The Zehnder ComfoPost is an air to water exchanger for use with ComfoWell air distribution connections. The ComfoWell connections allows for selection flexibility, offering a range of rigid circular ductwork or Zehnder ComfoTube semi-rigid ductwork to attached. The ComfoPost is available in a variety of sizes to heat or cool the air supplied by the Zehnder ventilation system.

The ComfoPost units are suitable for a wide range of airflows up to 166 l/s (600 m³hr). The units are made of steel with aluminium and copper pipe forming the heating and cooling coils and are maintenance free.



Key Features

- Ideal for use with reversible heat pumps or chillers to meet SAP 10 or TM59 overheating demands
- Low pressure losses
- Filtered fresh supply air, not recycled stale air
- Suitable for use with the unique modular ComfoWell manifolds
- Suitable for horizontal or vertical installation
- Condensation water tray and drain as standard
- Suitable for Passive House application
- Corrosion resistant

Article Numbers	
Description	Product Code
Air to water exchanger Zehnder ComfoPost CW8 post-treatment battery for heating and cooling with an airflow up to 400 m ³ /h	399 000 004

ComfoPost CW8



Zehnder ComfoPost CW8 post-treatment battery for heating and cooling with an airflow up to 400 m³/h

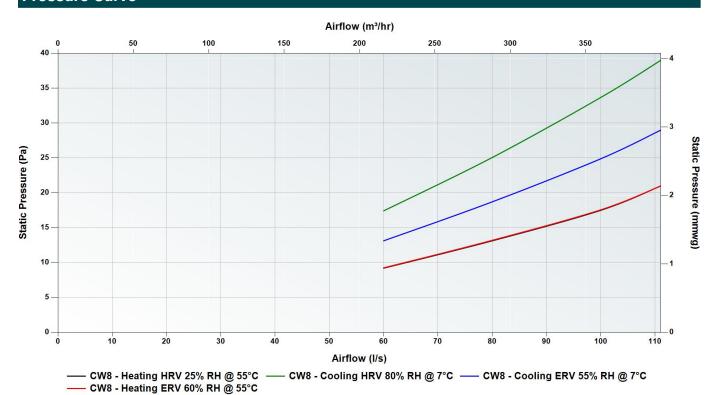
Article number: 399 000 004



Water connection diameter (ø)	1/2					
Water connection type	BSPT tapered male thread					
Condensate drain diameter OD (ø)	14 mm					
Condensate connection type	Worm drive clip to fix to hose or crimped to copper pipe					
ComfoWell range	ComfoWell 420					
ComfoWell rigid round air connection options (ø)	125 mm / 150 mm / 160 mm / 180 mm / 200 mm					
ComfoWell semi-rigid air connection options (ø)	8 x 75 mm / 8 x 90 mm / 4 x 90 mm + 4 x 75 mm					
Material	Casing: Galvanised sheet steel Tubes: Copper Fins: Aluminium with hydrophilic treatment					
Recommended operating water temperature range	7 to 55°C					
Recommended maximum operating air flow	<111.1 l/s (<400 m³hr)					
Maximum thermal heating output	3.65 kW*					
Maximum thermal cooling output	4.5 kW*					
Maximum operating water pressure?	6 bar					
Water volume capacity	0.8 Litres					
Maintenance free	Yes					
Weight	16 kg					

^{*}Total capacity (sensible and latent) based on test conditions shown in the Performance Data table

Pressure Curve



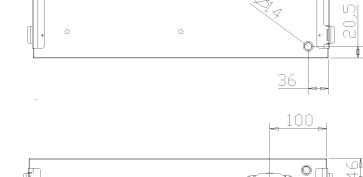


Dimensions

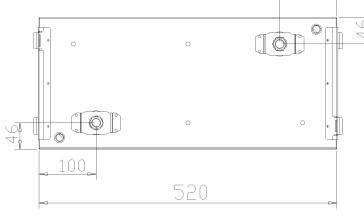
Height	230 mm
Width	420 mm
Depth	520 mm



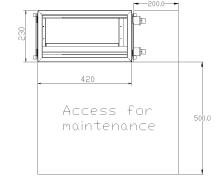
Front View



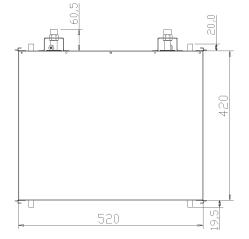
Rear View



Side View



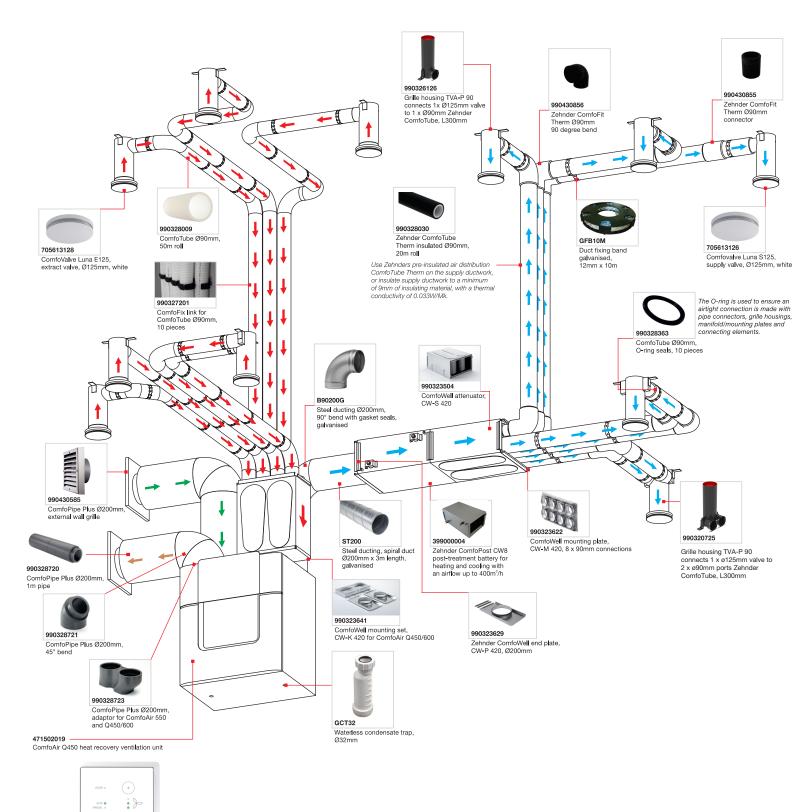
Top View



ComfoPost CW8

3D System Layout

ComfoSwitch C67



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Performance Data

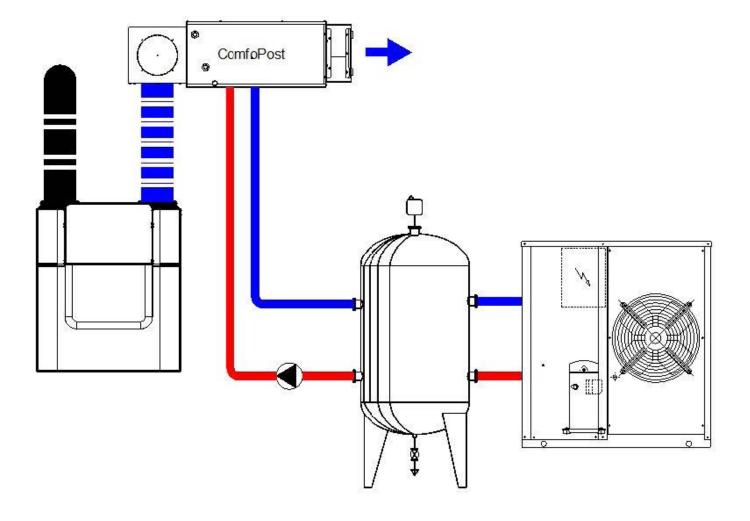
			Heating								Cooling	
			HRV exchanger				ERV exchanger				HRV	ERV
Air	conditions IN to ComfoPost	T °C	18°C					17	°C		27°C	28°C
Connortest		RH %	25%			60%				80%	55%	
		AH		3.2	g/kg			7.3	g/kg		18.1 g/kg	13.1 g/kg
Wat	er temperature IN	°C	55	50	45	40	55	50	45	40	7	7
MINIMUM Air flow 60 I/s (216 m³/h)	H ₂ O	l/h		6	00			600			600	600
	H ₂ O temperature оит	°C	51	47	42	38	51	47	42	38	11	10
	H₂O	kPa	11	11	11	11	11	11	11	12	13	14
	Air temperature оит	°C	52	47	43	38	52	47	43	38	13	11
	Air RH ουτ	%	4	5	6	8	9	11	14	18	100	95
	Air AH оит	g/kg	3.2	3.2	3.2	3.2	7.2	7.2	7.2	7.2	9.3	8
	Air ΔP	Pa	9	9	9	9	9	9	9	9	17	13
Ę	Condensation	l/h	-	-	-	-	-	-	-	-	2.3	1.3
Air	Sensible power	kW	-	-	-	-	-	-	-	-	1	1.2
	TOTAL POWER	kW	2.48	2.14	1.8	1.47	2.56	2.22	1.88	1.54	2.64	2.15
_	H₂O	l/h			00			60	00		600	600
Air flow 80 I/s (288 m³/h)	H ₂ O temperature out	°C	50	46	42	37	50	46	42	37	12	11
Ë	H₂O	kPa	11	11	11	11	11	11	11	12	13	14
288	Air temperature out	°C	50	46	42	37	50	46	41	37	14	13
) s	Air RH ουτ	%	4	5	6	8	9	12	15	19	100	93
0	Air AH оит	g/kg	3.2	3.2	3.2	3.2	7.2	7.2	7.2	7.2	10.3	8.6
∞ ≥	Air ΔP	Pa	13	13	13	13	13	13	13	13	25	19
ê ê	Condensation	l/h	-	-	-	-	-	-	-	-	2.7	1.6
Ąi	Sensible power	kW	-	-	-	-	_	-	-	-	1.3	1.5
	TOTAL POWER	kW	3.14	2.72	2.29	1.86	3.25	2.82	2.39	1.96	3.13	2.58
<u> </u>	H₂O	l/h			00				00		600	600
3/1	H ₂ O temperature out	°C	50	45	41	37	49	45	41	37	12	
0	H ₂ O	kPa	11	11	11	11	11	11	11	12	14	
(36	Air temperature out	°C	49	45	40	36	49	44	40	36	16	14
\ <u>s</u>	Air RH ουτ	%	4	6	7	9	10	13	16	20	99	91
00	Air AH оит	g/kg	3.2	3.2	3.2	3.2	7.2	7.2	7.2	7.2	11.1	9.1
₹	Air ΔP	Pa	18	17	17	17	18	17	17	17	34	25
Air flow 100 I/s (360 m³/h)	Condensation	l/h	-	-	-	-	-	-	-	-	3.1	1.7
Air	Sensible power	kW	-	-	-	-	-	-	-	-	1.4	1.7
	TOTAL POWER	kW	3.74	3.23	2.72	2.21	3.87	3.35	2.83	2.32	3.53	2.94
MAXIMUM Air flow 111.11/s (400 m³/h)	H₂O	l/h			00				00	0.0	600	600
	H ₂ O temperature оит	°C	49	45	41	37	49	45	41	38	11	11
	H ₂ O	kPa	11	11	12	12	11	11	12	12	14	14
	Air temperature out	°C	48	44	40	36	48	44	40	35	16	15
	Air RH оит	%	5	6	7	9	11	13	16	20	99	90
	Air AH ουτ	g/kg	3.2	3.2	3.2	3.2	7.2	7.2	7.2	7.2	9.1	9.3
	Air ΔP	Pa	21	21	20	20	21	21	20	20	39	29
	Condensation	l/h	-	-	-	-	-	-	-	-	1.7	1.8
	Sensible power	kW	-	-	-	-	-	-	-	-	1.5	1.8
	TOTAL POWER	kW	4.06	3.5	2.95	2.4	4.18	3.63	3.07	2.51	3.73	3.11

Initial temperature and humidity outdoor/indoor: winter 2°C 70% R.H. / 20°C 60% R.H.; summer 35°C 50% R.H. / 25°C 50% R.H.
The calculations include the cold recovery efficiency of an enthalpy exchanger as extrapolated from the results provided by the PHI certification

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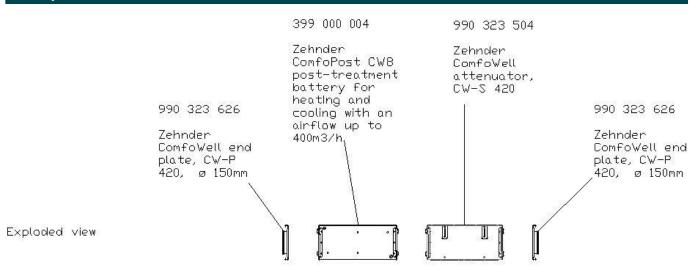


Schematics

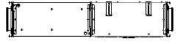




Example Connection



Front view



Top view

ComfoPost CW8



For use with

Our range of ComfoPost products can be used in conjunction with our ComfoAir units, complete with enthalpy cube for improved sensible cooling capacity.



TO VIEW OUR ENTHALPY CUBE DATASHEET

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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Consultant Specification

Specification

The air to water exchanger shall be constructed of galvanised sheet steel with copper tubes and aluminum fins with hydrophilic treatment to enhance thermal transfer. It shall be connected to the MVHR units supply ductwork 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 125 mm to Ø 200 mm. It shall have the option for horizontal or vertical mounting.

The unit shall be manufactured by Zehnder.

ComfoPost_CW8_Technical_Specification_2023_V2

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