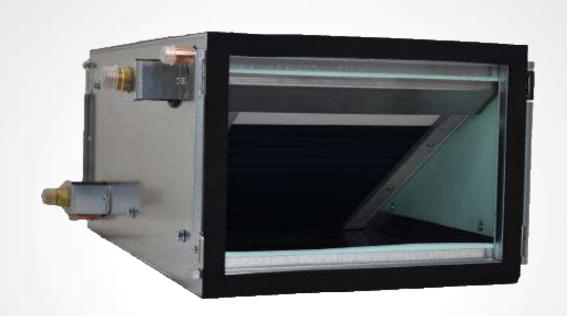


Zehnder ComfoPost CW6

Air to water exchanger

Product data sheet always the best climate





ComfoPost CW6

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

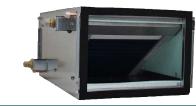
Article Numbers	
Description	Product Code
Air to water exchanger Zehnder ComfoPost CW6 post-treatment battery for heating and cooling with an airflow up to 300 m ³ /h	398 480 002

ComfoPost CW6



Zehnder ComfoPost CW6 post-treatment battery for heating and cooling with an airflow up to 300 m³/h

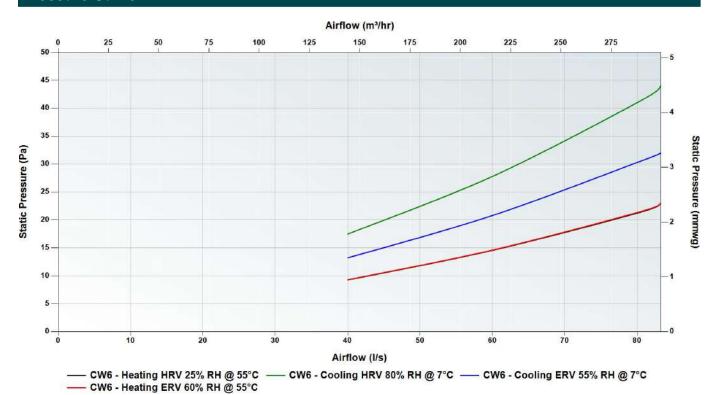
Article number: 398 480 002



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 320
ComfoWell rigid round air connection options (ø)	125 mm / 150 mm / 160 mm / 180 mm
ComfoWell semi-rigid air connection options (ø)	6 x 75 mm / 6 x 90 mm / 2 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	<83.3 l/s (<300 m³hr)
Maximum thermal heating output	2.8 kW*
Maximum thermal cooling output	3.13 kW*
Maximum operating water pressure?	6 bar
Water volume capacity	0.6 Litres
Maintenance free	Yes
Weight	13.5 kg

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

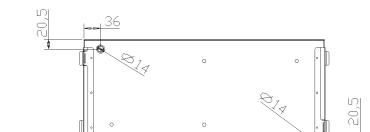
Pressure Curve





Dimensions

Height	230 mm
Width	320 mm
Depth	520 mm



520

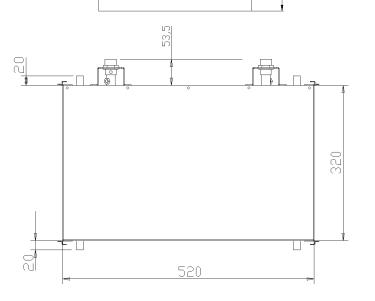
Front View

- ...

Rear View

Side View

Top View

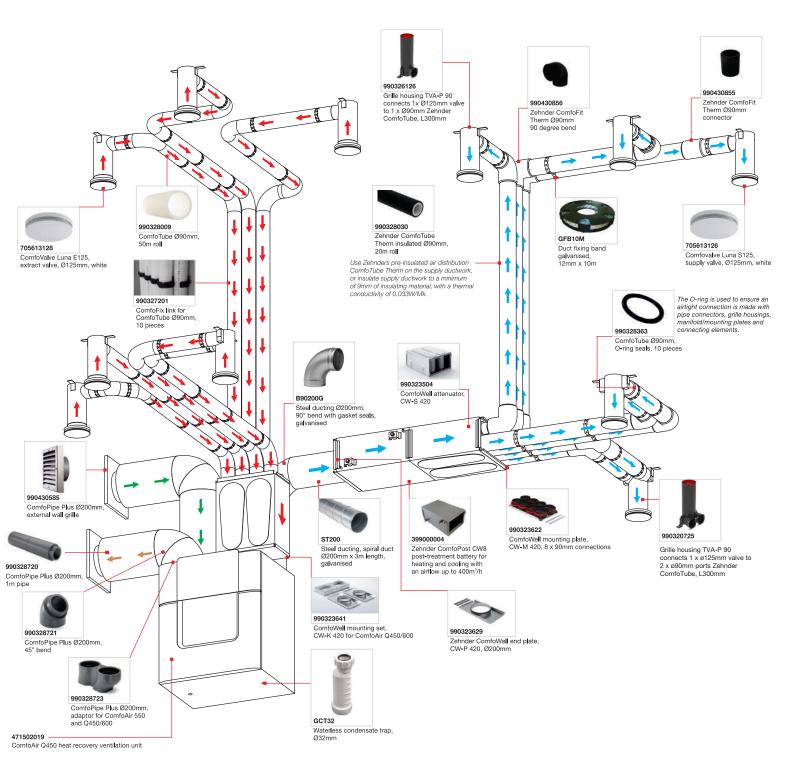


Access for

maintenance

3D System Layout

ComfoPost CW6



zehndő



ComfoSwitch C67



Performance Data

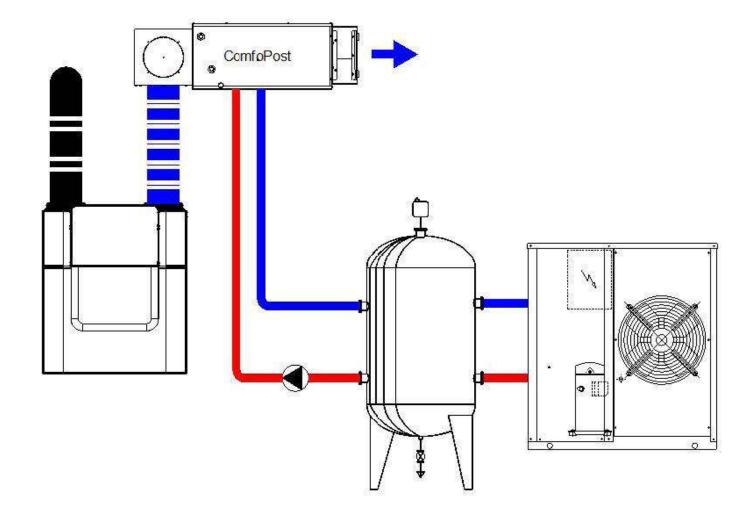
		Heating									Cooling	
			HRV exchanger				ERV exchanger				HRV	ERV
Air	conditions IN to ComfoPost	T °C	18°C				17	°C		27°C	28°C	
Comorost		RH %	25%				60%				80%	55%
		AH		3.2	g/kg			7.3	g/kg		18.1 g/kg	13.1 g/kg
Wat	er temperature IN	°C	55	50	45	40	55	50	45	40	7	7
MINIMUM Air flow 40 I/s (144 m³/h)	H ₂ O	l/h		6	00			600			600	600
	H₂O temperature ουτ	°C	52	48	43	39	52	48	43	38	10	9
	H₂O	kPa	9	10	10	10	9	10	10	10	12	12
≥ 4	Air temperature out	°C	52	48	43	38	52	47	43	38	12	11
) s/	Air RH ουτ	%	4	5	6	8	9	11	14	17	100	96
<u></u>	Air AH оит	g/kg	3.2	3.2	3.2	3.2	7.2	7.2	7.2	7.2	9	7.9
≥ >4	Air ΔP	Pa	9	9	9	9	9	9	9	9	17	13
fl _o	Condensation	l/h	-	-	-	-	-	-	-	-	1.7	1
Air	Sensible power	kW	-	-	-	-	-	-	-	-	0.7	0.9
	TOTAL POWER	kW	1.73	1.5	1.26	1.03	1.79	1.55	1.32	1.08	1.88	1.52
	H₂O	l/h		6	00			6	00		600	600
Air flow 60 I/s (216 m³/h)	H ₂ O temperature ₀υτ	°C	52	47	43	38	51	47	42	38	10	10
Έ	H ₂ O	kPa	9	10	10	10	9	10	10	10	12	12
216	Air temperature out	°C	50	46	41	37	50	46	41	37	14	13
) s/	Air RH ουτ	%	4	5	7	8	9	12	15	19	100	93
00	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	15	14	14	14	15	14	14	14	28	21
Q	Condensation	l/h	-	-	-	-	-	-	-	-	2.1	1.2
Air	Sensible power	kW	-	-	-	-	-	-	-	_	0.9	1.1
	TOTAL POWER	kW	2.35	2.03	1.71	1.39	2.43	2.1	1.78	1.46	2.35	1.94
	H ₂ O	l/h			00				00		600	600
3/h	H ₂ O temperature out	°C	51	46	42	38	51	46	42	37	11	10
E	H ₂ O	kPa	9	10	10	10	9	10	10	10	12	12
288	Air temperature out	°C	48	44	40	36	48	44	40	36	16	14
) s/	Air RH ουτ	%	5	6	7	9	10	13	17	20	99	90
0,	Air AH оит	g/kg	3.2	3.2	3.2	3.2	7.2	7.2	7.2	7.2	11.3	9.2
δ ≥	Air ΔP	Pa	21	21	21	21	21	21	21	21	41	30
Air flow 80 I/s (288 m³/h)	Condensation	l/h	-	-	-	-	-	-	-	-	2.4	1.3
Air	Sensible power	kW		-					-		1.1	1.3
	TOTAL POWER	kW	2.93	2.53	2.13	1.73	3.03	2.62	2.22	1.82	2.74	2.29
Ē	H₂O	l/h			00				00		600	600
n ³ /	H ₂ O temperature out	°C	51	46	42	37	51	47	42	38	11	10
MAXIMUM Air flow 83.3 I/s (300 m³/h)	H ₂ O	kPa	10	10	10	10	10	10	10	10	12	12
	Air temperature out	°C	48	44	40	36	48	43	39	35	16	15
	Air RH ουτ	%	5	6	7	9	10	12	15	19	99	90
	Air AH оит	g/kg	3.2	3.2	3.2	3.2	7.2	7.2	7.2	7.2	11.4	9.3
	Air ΔP	Pa	23	23	23	22	23	23	23	22	44	32
	Condensation	l/h	-	-	-	-	-	-	-	-	2.4	1.3
	Sensible power	kW	-	-						-	1.1	1.3
	TOTAL POWER	kW	3.03	2.62	2.2	1.79	3.13	2.71	2.29	1.88	2.8	2.34

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

ComfoPost CW6

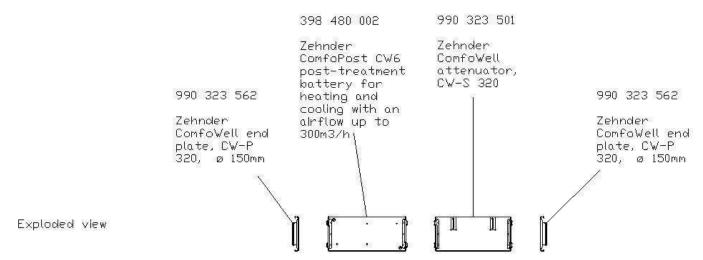


Schematics

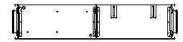




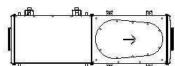
Example Connection



Front view



Top view

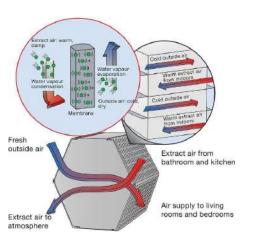


ComfoPost CW6



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 FIND OUT MORE ABOUT ENTHALPY EXCHANGERS

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Consultant Specification

Specification

The air to water exchanger shall be constructed of galvanised sheet steel with copper tubes and aluminium 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_CW6_Technical_Specification_2023_V5

Zehnder Group UK Limited \cdot Concept House \cdot Watchmoor Point \cdot Camberley \cdot Surrey \cdot GU15 3AD T +44 1276 408404 \cdot ventilation@zehnder.co.uk \cdot www.zehnder.co.uk