

Horizontal Concealed Fan Coil EKCW-A

Specifications (Dual Pipe with 2 Rows of Coils)

Performance		Model	EKCW 200AT	EKCW 300AT	EKCW 400AT	EKCW 500AT	EKCW 600AT	EKCW 800AT	EKCW 1000AT	EKCW 1200AT	EKCW 1400AT
Rated air flow (m ³ /h; under static pressure of 12 Pa, 30 Pa, and 50 Pa)		H	340	510	680	850	1020	1360	1700	2040	2380
		M	279	418	558	697	836	1115	1394	1673	1952
		L	170	255	340	425	510	680	850	1020	1190
Rated cooling capacity (W)	Total heating/cooling capacity	H	1770	2955	3920	4635	5115	7610	8680	10495	11620
	Sensible heating/cooling capacity	H	1140	1980	2570	3205	3735	5535	6680	7765	8955
Rated heating capacity (W)		H	3280	5120	6450	7560	9095	12830	15865	18485	20770
Rated input power (W)	Static pressure of 12 Pa	H	32	46	56	73	93	133	164	188	229
	Static pressure of 30 Pa	H	39	53	72	86	107	142	183	217	239
	Static pressure of 50 Pa	H	46	65	77	90	115	162	187	227	279
Working current (A)	Static pressure of 12 Pa	H	0.15	0.21	0.26	0.33	0.42	0.61	0.74	0.85	1.04
	Static pressure of 30 Pa	H	0.18	0.24	0.33	0.39	0.48	0.65	0.83	0.99	1.09
	Static pressure of 50 Pa	H	0.21	0.29	0.35	0.41	0.52	0.74	0.85	1.03	1.27
Sound dB(A)	Static pressure of 12 Pa	H	34.5	34.5	37.5	41.0	45.0	44.5	48.0	49.0	52.0
	Static pressure of 30 Pa	H	37.0	40.0	42.5	44.0	45.5	46.5	49.5	49.5	53.0
	Static pressure of 50 Pa	H	41.0	43.0	45.0	46.0	47.5	48.0	50.0	51.0	53.5
Water flow (m ³ /h)			0.32	0.51	0.67	0.80	0.88	1.31	1.47	1.81	2.01
Water resistance (cooling) (kPa)			5	14	26	36	18	40	28	40	34
Water resistance (heating) (kPa)			4	12	21	30	14	34	23	34	28
Coil	Type	Mechanically expanded quality copper tubes specially designed for air conditioners with shutter-type hyperbolic aluminum fins									
	Working pressure	1.6MPa									
	Test pressure	Airtightness test under pressurized water: 3.3 MPa									
Fan	Type	Forward-pitched multi-wing centrifugal fan with double-suction impellers made from zinc-plated steel plates									
	Qty.	1	2	2	2	2	3	4	4	4	4
Motor	Type	Single-phase ball-bearing capacitive motor with a high precision and low operation sound									
	Qty.	1	1	1	1	1	2	2	2	2	2
	Power supply	220V~50Hz									
	Protection grade	IP20									
	Insulation grade	B									
Inlet/outlet water pipe	Pipe diameter	Rc3/4 taper pipe with internal thread									
Condensate water pipe	Pipe diameter	Diameter R 3/4 taper pipe with external threads									
Net weight (no electric heater)	No return air plenum	kg	10.4	12.3	14.6	15.4	16.2	24.4	27.1	29.4	35.5
	With return air plenum	kg	13.4	15.9	18.6	19.7	20.8	30.4	33.5	36.6	43.7
Electric heater (optional)	Power supply		220V~50Hz					380V/3N~50Hz			
	Electric heating capacity	kW	1.0/2.0	1.0/2.0/3.0	2.0/3.0/4.0	2.0/3.0/4.0	2.0/3.0/4.0	3.0/4.0/5.0	3.0/4.0/5.0	4.0/5.0/6.0	5.0/6.0/7.0
Net weight (with electric heater)	No return air plenum	kg	13.5	15.6	18.3	19.3	20.4	29.5	32.4	35.2	42.0
	With return air plenum	kg	16.5	19.2	22.3	23.6	25.0	35.5	38.8	42.4	50.2

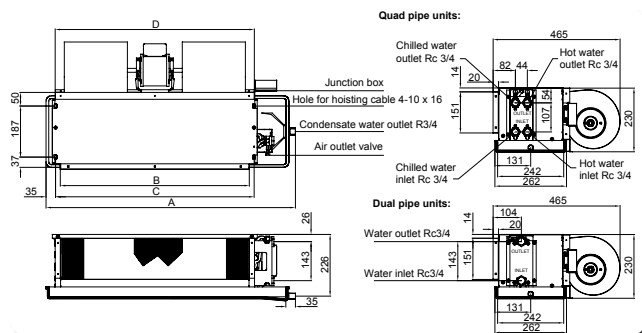
Note:

- Working conditions for cooling: inlet air temperature - dry/wet bulb 27°C/19.5°C; temperature of inlet/outlet water - 7°C/12 °C.
- Working conditions for heating: inlet air temperature - dry bulb 21°C; inlet water temperature 60°C; water flow - equal to that for cooling operation.
- Rated air flow is measured under standard atmosphere using dry coils (dry bulb 20°C).
- Sound pressure grade and sound level are measured in a semi-silent room as per GB/T 19232-2003.
- H, M and L represent high, medium and low fan speed respectively.
- Static pressure refers to outlet static pressure.
- All performance parameters in the above table are measure with a power supply of 220V~50Hz.
- The right/left orientation of connection pipes are exchangeable on site (cooling/heating capacity needs to be multiplied by a correction factor of 0.93 after exchange).

Horizontal Concealed Fan Coil EKCW-A

Dimensions of Horizontal Concealed Fan Coil EKCW-A Units

No return air plenum:

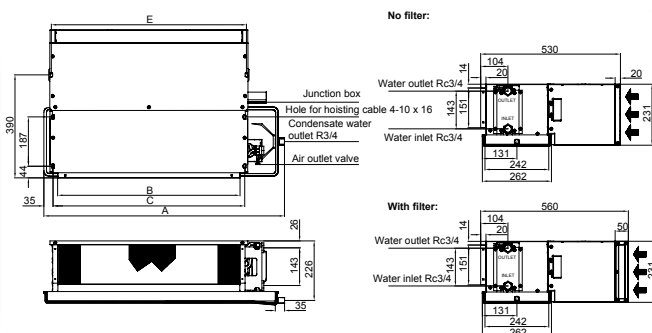


Unit: mm

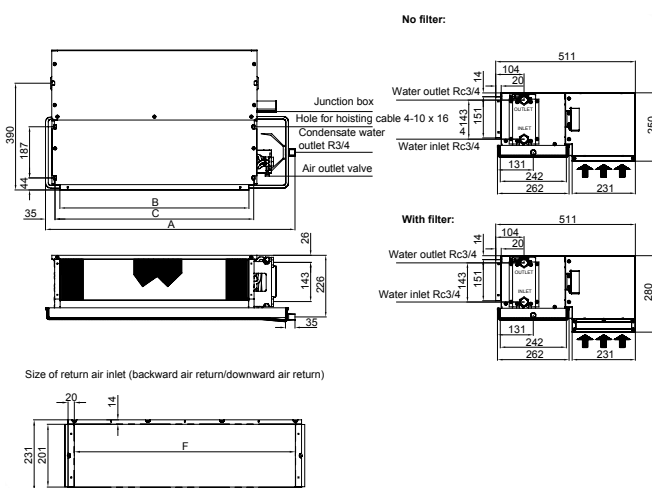
Model	A		B	C	D	E	F	Qty. of Fans
	Standard Water Collector	Extended Water Collector						
EKCW200A	675	775	452	487	490	520	470	1
EKCW300A	815	915	592	627	630	660	610	2
EKCW400A	915	1015	692	727	730	760	710	2
EKCW500A	995	1095	772	807	810	840	790	2
EKCW600A	1095	1195	872	907	910	940	890	2
EKCW800A	1425	1525	1202	1237	1240	1270	1220	3
EKCW1000A	1525	1625	1302	1337	1340	1370	1320	4
EKCW1200A	1725	1825	1502	1537	1540	1570	1520	4
EKCW1400A	1985	2085	1762	1797	1800	1830	1780	4

- In the preceding unit, the water pipe are connected on the right side.
- The code A indicates extended water collector, which is 100 mm longer than a standard water collector.

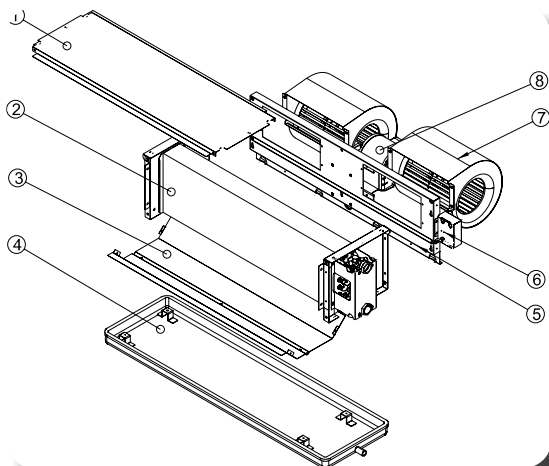
With backward return air plenum:



With downward return air plenum:



Unit Exploded View



1. Top panel
2. Heat exchange coil
3. Air induction plate
4. Water collector
5. Motor panel
6. Junction box
7. Fan
8. Motor

Note:

The figure shows a EKCW400AC unit without return air plenum or filter.

Cassette Fan Coil EKCW-K

Specifications

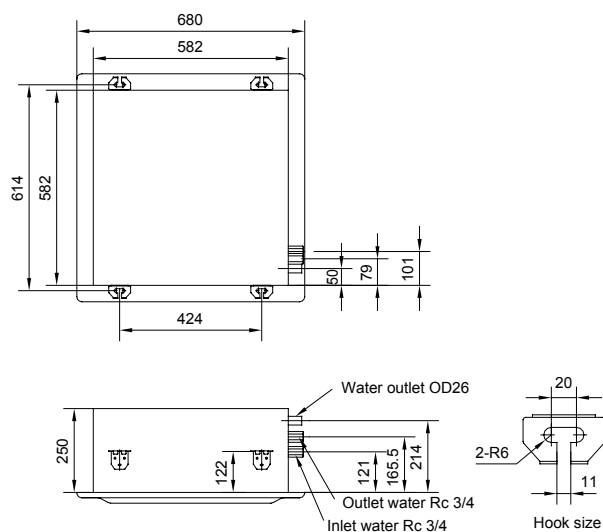
Model			EKCW 300KT	EKCW 400KT	EKCW 500KT	EKCW 600KT	EKCW 800KT	EKCW 1000KT	EKCW 1200KT	EKCW 1400KT
air flow	H	m ³ /h	550	680	850	1020	1360	1700	2040	2380
	M	m ³ /h	500	550	740	850	1210	1360	1700	1900
	L	m ³ /h	450	500	660	740	980	1210	1360	1540
cooling capacity	H	W	2700	3600	4500	5400	7200	9000	10800	12600
heating capacity	H	W	4050	5400	6750	8100	10800	13500	16200	18900
Noise	H	dB(A)	39	41	43	45	46	48	50	51
Input power		W	52	58	71	84	130	170	175	225
Current		A	0.25	0.28	0.34	0.40	0.62	0.81	0.84	1.08
Motor	Type	Single-phase ball-bearing capacitive motor with a high precision and low operation sound								
Power supply		220V~/50Hz								
Protection grade		IP20								
Insulation grade		B								
Water flow	m ³ /h		0.46	0.62	0.77	0.93	1.23	1.54	1.85	2.16
Water resistance	kPa		25	30	15	20	30	35	44	45
Connecting pipe specification		Rc 3/4								
Life of condensate water pump		External diameter of condensate water pipe: Φ26 mm; external diameter of external hose: Φ 16mm								
Dimensions	Master unit	mm	582x582x250	582x582x250	705x705x290	705x705x290	832x832x290	832x832x290	832x832x290	960x960x290
	Panel	mm	680x680x30	680x680x30	830x830x30	830x830x30	980x980x30	980x980x30	980x980x30	1140x1140x30
Net weight	kg		24	24	29	29	38	38	38	49.5

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- Rated air flow is measured under standard atmosphere using dry coils (dry bulb 20°C).
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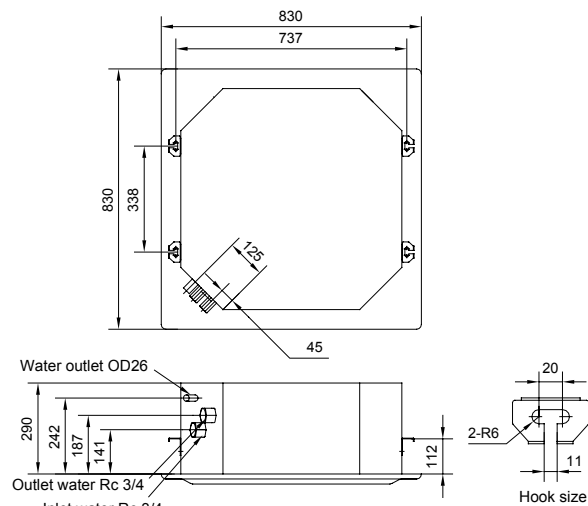
Cassette Fan Coil EKCW-K

Dimension Illustration
(model: EKCW300 / 400KT)



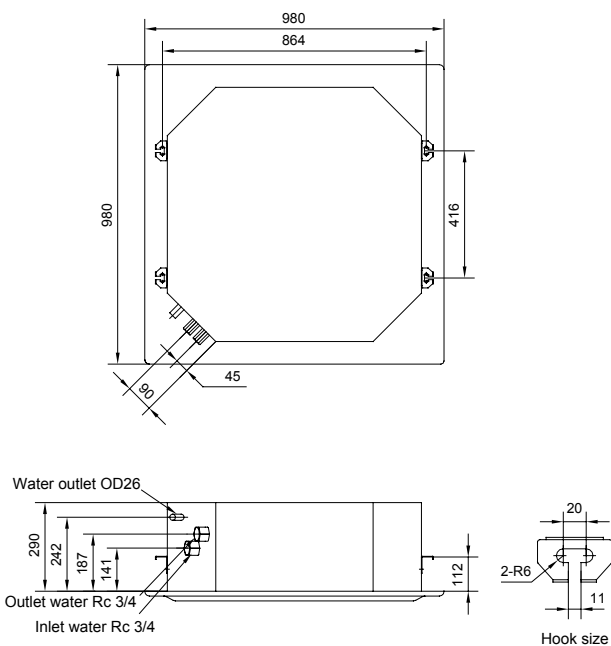
Unit: mm

Dimension Illustration
(model: EKCW500 / 600KT)



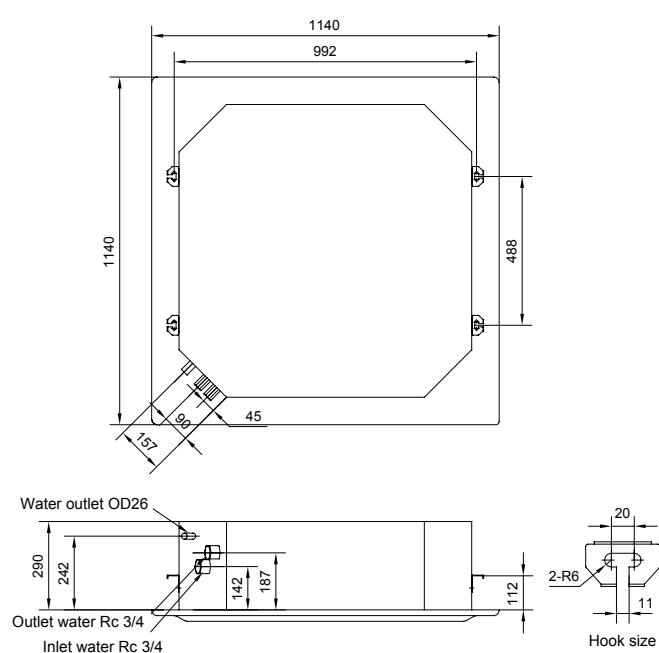
Unit: mm

Dimension Illustration
(model: EKCW800 / 1000 / 1200KT)



Unit: mm

Dimension Illustration
(model: EKCW1400KT)



Unit: mm