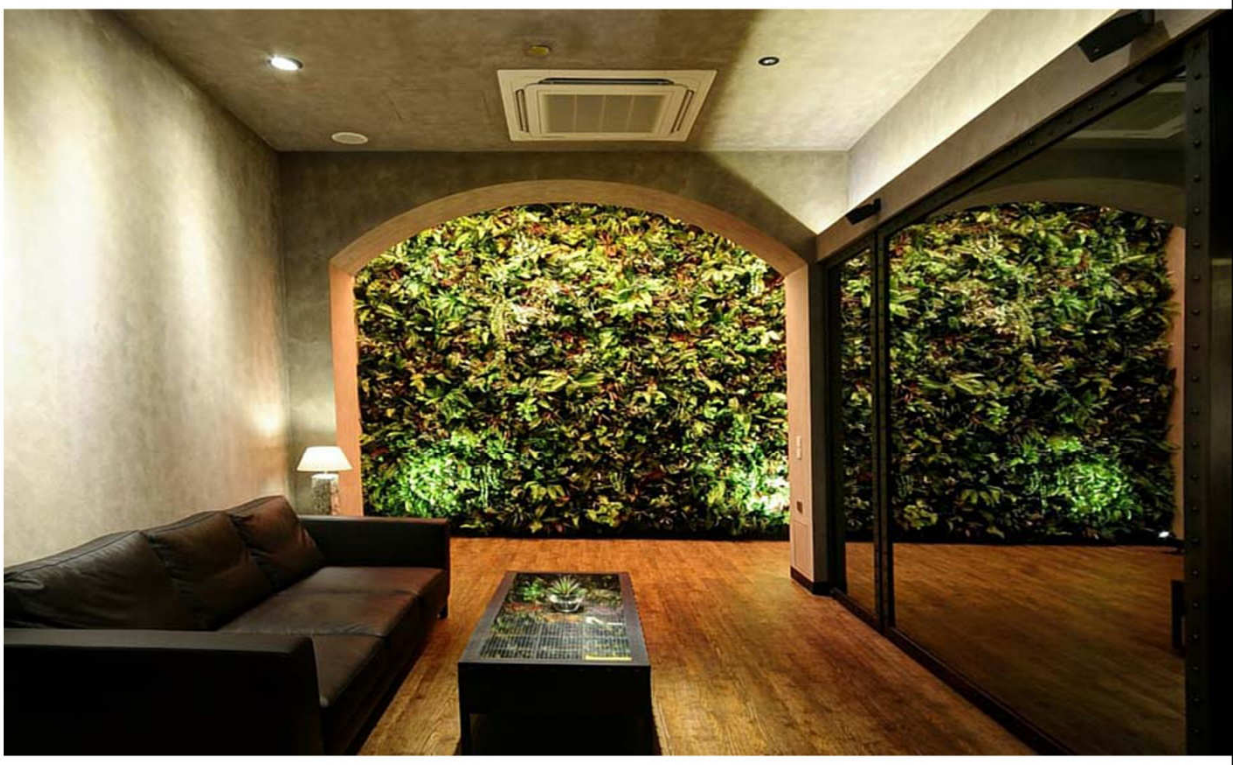
euroclima

FAN COIL UNITS

FOR RESIDENTIAL & COMMERCIAL BUILDINGS, HOTELS, OFFICES & HOSPITALS

PRODUCT CATALOGUE



euroclima®
We care for better air

CONTENTS & INTRODUCTION

CONTENTS

INTRODUCTION

Your best partner for Fan Coil Units.

Since 1963, Euroclima is a leader in customized air conditioning and ventilation systems. We develop, manufacture and commercialize high quality air handling products for all applications, from basic comfort to health care, process air and installations with highly efficient heat recovery systems.

Euroclima pursues the ideals of protecting the environment, providing physical comfort and adopting energy-saving into the whole process of product R&D, manufacturing and service.

Over the last 50 years, Euroclima has delivered more than 100,000 units all over the world.

Success Story

The secret of Euroclima's long-standing and continuous success lies in the efficient project-management, the distinctive customer orientation, innovation, and top manufacturing quality.

Standardized & Customized Fan Coil Units.

Euroclima offers a wide range of both standardized and customized Fan Coil units for residential and commercial buildings such as hotels, offices, schools, stores, museums, cinemas etc. according to the global generally accepted standards.

EU series fan coil units are simple and cost-effective due to leading-edge in manufacturing process and they are compact, easy to installed & maintain, efficient, and produce low noise.

We can design special products for your own projects such as marine and medical applications, built with latest technology components

All Fan coils can be delivered with factory fitted controls and accessories (valves, heating elements, etc.).

Manufactured in an ISO Certified Facility

PRODUCT SERIES

EUCW-A (AC Motor) (170 – 2380 m^3/hr)
EUCW-E (EC Motor) (170 – 2380 m^3/hr)
HORIZONTAL CONCEALED, SINGLE SKIN
Maximum ESP 50 Pa

EUCW-DA (AC Motor) (200 – 3163 m^3/hr)
HORIZONTAL CONCEALED, SINGLE SKIN
ESP range 30-100 Pa

EUCW-DS-A (AC Motor) (703 – 4100 m^3/hr)
HORIZONTAL CONCEALED, DOUBLE SKIN
Maximum ESP 100 Pa

EUCW-EA (AC Motor)
EUCW-EC (EC Motor)
HORIZONTAL EXPOSED FAN COIL
170 – 2380 m^3/hr

EUCW-K (AC Motor)
CASSETTE FAN COIL
340 – 2380 m^3/hr

EUCW-L (AC Motor)
1-WAY CASSETTE FAN COIL
340 – 1530 m^3/hr

UNIT FEATURES

Casing

The unit casing is of single skin type with inner insulation. Panel is made of galvanized steel. The standard insulation consists of 8 mm fiber glass & 5mm polyethylene insulation thus producing a rigid and robust panel. The casing is suitably stiffened to minimize drumming and vibration and fully protected against corrosion. The overall unit has a compact graceful finish with an only of 230mm height to easily fit into tight architectural ceiling space.

Filter

Filter is made of Nylon Screen with Aluminum frame.

Coils

Coils are made of copper tubes 3/8" OD with shutter type aluminum fins.
The fins are pre-coated for protection by hydrophilic blue film and mechanically bonded to the copper tubes by precise machine expansion and tested to 3.3MPa pressure (Working pressure 1.6MPa)
The manifolds are made of steel with Rc3/4 taper pipe with internal threads. The coils provided with manual air-vent.

Drain Pan

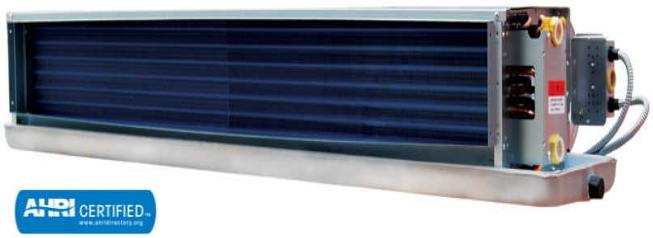
The Drain pan is made of cold rolled steel (inner surface pre-coated) molded as a whole, lined with 7 mm polyethylene thermal insulation and pitched for positive drainage. Drain connection is R3/4 taper pipe with external threads.
Optional material (SS304), 6mm thick insulation (Armaflex 0/1) fireproof and various extended lengths (100-300mm) are available on request.

Fan

Fan is direct driven, forward curved, centrifugal, double inlet double width type, constructed from galvanized steel, dynamically & statically balanced.

AC Motor

Fan motor is selected for maximum efficiency and low noise with 3 speeds, permanent split capacitor, ball bearings and with Built-in automatic reset thermal overloads protection.
Power supply 230/240V-50/60Hz, protection grade IP20 & insulation class B.



EC Motor

Fan motor is driven by integrated PCB board , which saved 30-50% energy saving at H/M/L speed compared to traditional on/off AC motor , power input will be reduced by 50-70% at continuously varied air flow conditioning .

Optional Control type:
0-10 DCV from external signal
3 speeds by thermostat

Permanent split capacitor, ball bearings and with Built-in automatic reset thermal overloads protection ,Power supply 230/240V-50/60Hz, protection grade IP20 & insulation class B.

Low Noise

Units have been configured to minimize noise output with the smallest size unit generating only 33.5-52 dB (A) at high fan speed depending on unit size.

Flexibility/available options

- Auxiliary electric heater
- Back return or bottom return air plenum.
- 0.8 or 1.0 mm thick Galvanized steel for return air plenum
- Inter-changeable Left/ Right pipe connections on site.
- Easy to install optional external valves with standard pipe connection.
- Externally mounted electrical junction box for field wiring termination.
- Quick disconnect motor connections with removable fan & motor assembly for easy service access.

Selection Software

Selection software is available for selection of models at various working conditions.

NOMENCLATURE

EUCW	200	A	C	3	R	B	F	A	1	A

EU Series
Fan Coil Unit

Model

Motor Type
A - AC motor, **E** - EC motor

Coil Type			
C-3C0H			
H-3C1H			
D-3C0H	For High Delta °T water		
A-4C0H	For High Delta °T water		
C	Chilled Water Coil		
H	Heating Water Coil		

Outlet Static Pressure		
1 – 12Pa	3 – 30Pa	5 – 50Pa

Connection Side (facing the supply)	
R- Right	**L** -Left

Return Air Plenum
B – Back Plenum, D – Bottom Plenum

Power Supply
A- 230/240V-1PH-50Hz
K- 230/240V-1PH-60Hz

Electric Heater

Drain pan			
Code	**Material**	**Insulation**	**Ext. Length**
A,B,C,D	Cold Rolled	7mm PE	Std, 100, 200, 300
E,F,G,H	SS304		
I,M,R,V	Cold Rolled	6mm Armaflex1	Std, 100, 200, 300
J,N,S,W	SS304		
K,P,T,X	Cold Rolled	6mm Armaflex0	Std, 100, 200, 300
L,Q,U,Y	SS304		

Filter
F – 8mm Nylon Filter, **G** – 25mm Nylon Filter,
H – 25mm AL Filter

GENERAL DATA

Item	200	300	400	500	600	800	1000	1200	1400
Standard thickness of parts for different models									
Top plate (mm)	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	1.0
Fan Deck (mm)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
Drain guide plate (mm)	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	1.0
Side plate (mm)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Covering plate (mm)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Control box (mm)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Control box cover (mm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Drain pan (mm)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Filter dimensions									
Total Width (mm)	197								
Total length (mm)	506	646	746	826	926	1255.5	1355.5	1555.5	1815
Qty	2	2	2	2	2	3	3	3	3
Fan									
No. of Fan Blowers	1	2				3	4		
AC/EC Motor	1	1				2	2		
No. of motors	1					2			
Auxiliary electric heater									
Capacity (kW)	1/2	1/2/3	2/3/4	2/3/4	2/3/4	3/4/5	3/4/5	4/5/6	5/6/7
Power supply	230-240V/1P/50Hz					400V/3P/50Hz			

GENERAL TECHNICAL PERFORMANCE FOR EUCW-A

UNIT CONFIG	EUCW			200	300	400	500	600	800	1000	1200	1400
Air	Total Air Flow @ Dry coil	H	m^3/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 ESP		Pa	12 Pa / 30Pa / 50Pa								
Electrical	Power Input (H speed)	12Pa	W	32	46	56	73	93	133	164	188	229
		30Pa		39	53	72	83	107	142	183	217	239
		50Pa		46	65	77	90	115	162	187	227	279
	Running Current (H Speed)	12Pa	A	0.15	0.21	0.26	0.33	0.42	0.61	0.74	0.85	1.04
		30Pa		0.18	0.24	0.33	0.38	0.48	0.65	0.83	0.99	1.09
		50Pa		0.21	0.29	0.35	0.41	0.52	0.74	0.85	1.03	1.27

EUCW-AC (2PIPE, 3ROW COIL WITH AC MOTOR)

Cooling	Total Cooling Capacity	H	kW	2.08	3.19	4.13	4.69	5.86	7.91	9.17	10.73	12.46
		M		1.81	2.83	3.65	4.12	5.24	6.9	8.16	9.39	11.07
		L		1.27	1.95	2.54	2.92	3.71	4.88	5.82	6.74	7.94
	Sensible Cooling Capacity	H	kW	1.41	2.02	2.7	3.37	4.1	5.77	6.68	8.06	9.32
		M		1.2	1.77	2.34	2.91	3.57	4.96	5.81	6.95	8.11
		L		0.81	1.18	1.58	1.98	2.43	3.38	3.98	4.77	5.57
Heating	Heating Capacity	H	kW	3.56	5.37	6.9	7.73	9.55	12.92	15.85	17.84	21.3
		M		3.05	4.61	5.91	6.69	8.28	11.19	13.77	15.33	13.41
		L		2.03	3.03	4	4.54	5.6	7.6	9.44	10.57	12.68
Hydraulic	Water Flow Rate	H	m^3/h	0.36	0.5	0.67	0.77	0.9	1.28	1.43	1.75	2.02
		M		0.32	0.44	0.58	0.69	0.81	1.12	1.27	1.53	1.79
		L		0.21	0.31	0.42	0.49	0.56	0.79	0.91	1.1	1.29
	Water Pressure Drop	H	kPa	9	21	26	16	25	25	20	29	29
		M		7	17	21	13	21	20	16	22	24
		L		4	9	12	7	11	11	9	13	13
Sound	Sound Pressure Level (HSpeed)	12Pa	dB(A)	34.5	35	36.5	41.5	44.5	44.5	47.5	48.5	51.5
		30Pa		37	39	42	43	46	45.5	50	50	52
		50Pa		39.5	42.5	44	45.5	46.5	48	50	51	53.5

EUCW-AD (2PIPE, HIGH DELTA T, 3ROW COIL WITH AC MOTOR)

Cooling	Total Cooling Capacity	H	kW	2.11	2.73	3.49	4.37	5.3	6.98	8.7	9.58	11.78
		M		1.84	2.4	3.09	3.83	4.68	6.16	7.69	8.48	10.22
		L		1.3	1.7	2.19	2.73	3.34	4.41	5.51	6.11	7.43
	Sensible Cooling Capacity	H	kW	1.23	1.82	2.37	3.05	3.81	5.01	6.48	7.36	8.94
		M		1.07	1.57	2.05	2.63	3.3	4.33	5.58	6.37	7.65
		L		0.72	1.06	1.39	1.79	2.24	2.95	3.81	4.35	5.25
Heating	Heating Capacity	H	kW	3.81	5.08	6.68	8.09	10.03	12.97	15.17	18.06	21.51
		M		3.26	4.36	5.78	7.04	8.67	11.28	13.23	15.78	18.66
		L		2.19	2.98	3.96	4.83	6	7.75	9.17	10.91	12.96
Hydraulic	Water Flow Rate	H	m^3/h	0.22	0.29	0.35	0.44	0.53	0.71	0.88	0.97	1.17
		M		0.19	0.25	0.3	0.39	0.47	0.63	0.78	0.86	1.01
		L		0.13	0.18	0.21	0.28	0.33	0.45	0.55	0.61	0.73
	Water Pressure Drop	H	kPa	25	8	12	19	17	21	31	20	30
		M		19	6	9	15	14	17	25	16	23
		L		7	3	5	9	8	10	13	9	13
Sound	Sound Pressure Level (H Speed)	12Pa	dB(A)	34.5	35	36.5	41.5	44.5	44.5	47.5	48.5	51.5
		30Pa		37	39	42	43	46	45.5	50	50	52
		50Pa		39.5	42.5	44	45.5	46.5	48	50	51	53.5

EUCW-AA (2PIPE, HIGH DELTA T, 4ROW COIL WITH AC MOTOR)

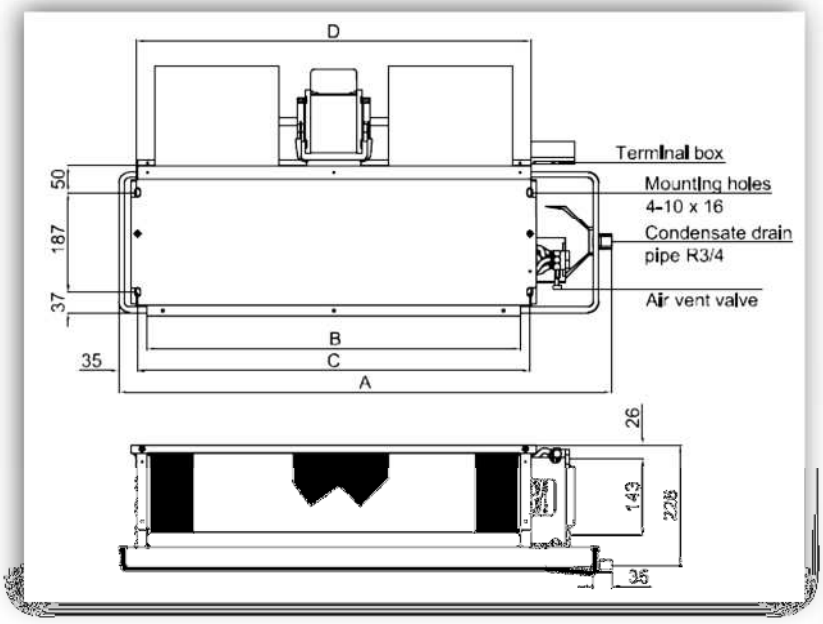
UNIT CONFIG	EUCW			200	300	400	500	600	800	1000	1200	1400
Cooling	Total Cooling Capacity	H	kW	1.88	2.93	3.81	4.31	5.48	7.15	8.91	9.61	12.13
		M		1.62	2.57	3.32	3.78	4.79	6.24	7.79	8.43	10.62
		L		1.13	1.78	2.31	2.66	3.36	4.4	5.48	6.04	7.47
	Sensible Cooling Capacity	H	kW	1.11	1.88	2.61	3.08	3.87	5.13	6.56	7.3	9.03
		M		0.97	1.61	2.22	2.65	3.31	4.41	5.62	6.27	7.75
		L		0.64	1.07	1.48	1.78	2.22	2.96	3.78	4.25	5.21
Heating	Heating Capacity	H	kW	3.59	5.48	6.95	8.43	12.31	13.36	16.59	18.45	22.29
		M		3.05	4.68	5.97	7.29	10.64	11.43	14.29	15.91	19.32
		L		2.05	3.11	3.99	4.91	7.17	7.73	9.69	10.88	13.11
Hydraulic	Water Flow Rate	H	m^3/h	0.22	0.34	0.44	0.5	0.5	0.63	1.02	1.1	1.39
		M		0.19	0.3	0.38	0.45	0.45	0.55	0.89	0.97	1.21
		L		0.14	0.2	0.27	0.31	0.31	0.38	0.63	0.7	0.85
	Water Pressure Drop	H	kPa	5	13	23	11	11	17	26	21	31
		M		4	11	18	9	9	14	20	17	25
		L		2	6	10	4	4	8	12	10	14
Sound	Sound Pressure Level (H Speed)	12Pa	dB(A)	33.5	32.5	38.5	41.5	41.5	44.5	48	49	51
		30Pa		39.5	40	43	44	44	46	50.5	50.5	51.5
		50Pa		42	43	45	46	46	47.5	50.5	52.5	53

MODEL	COOLING MODE		HEATING MODE		
	Air on coil °C (DB/WB)	In/Out Water temp °C	Air on coil °C	Inlet Water temp °C	Water flow rate
EUCW-AC	26.7 / 19.4	7.2 / 12.8	21.1	60	same as cooling mode
EUCW-AD	26.7 / 19.4	7.2 / 15.6	21.1	60	same as cooling mode
EUCW-AA	26.7 / 19.4	7.2 / 15.6	21.1	60	same as cooling mode

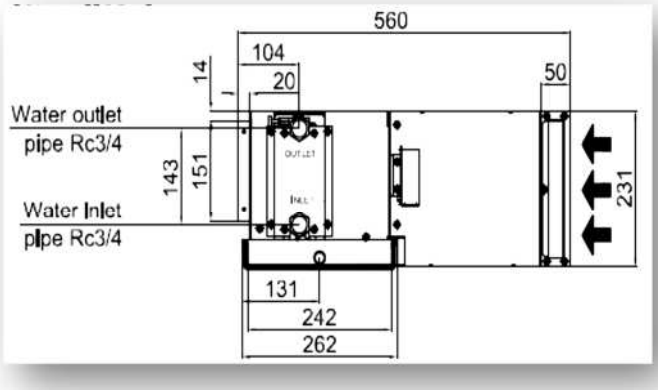
Note:-

1) High speed cooling mode performance data are certified by **AHRI** for the above models
2) Rated air flow is measured under standard atmosphere using dry coils (at 20°C)
3) Sound pressure levels are measured in a semi-anechoic chamber as per GB/T 19232-2003

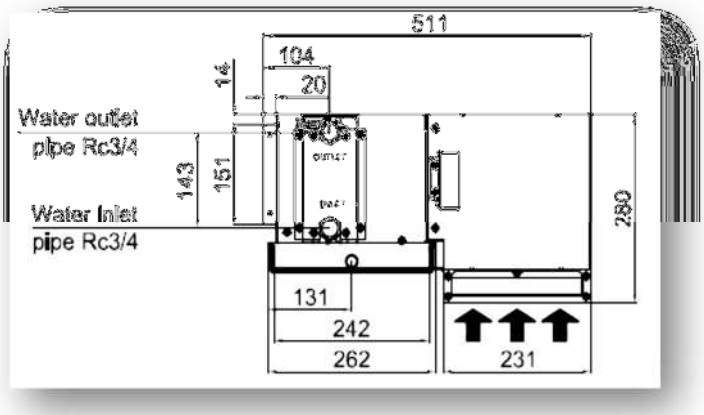
UNIT DIMENSIONAL DRAWING (mm)



With Back Plenum & Filter

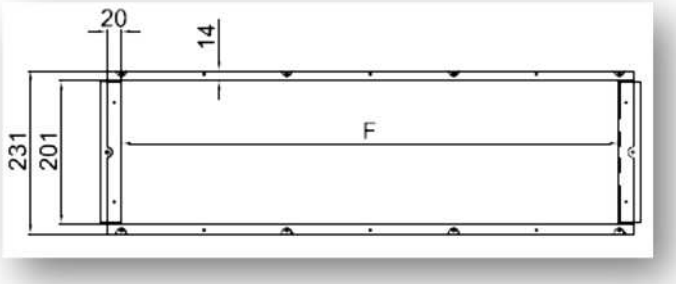


With Bottom Plenum & Filter



Model (Unit: mm)	A	B	C	D	E	F
EUCW200A	675	452	487	490	520	470
EUCW300A	815	592	627	630	660	610
EUCW400A	915	692	727	730	760	710
EUCW500A	995	772	807	810	840	790
EUCW600A	1095	872	907	910	940	890
EUCW800A	1425	1202	1237	1240	1270	1220
EUCW1000A	1525	1302	1337	1340	1370	1320
EUCW1200A	1725	1502	1537	1540	1570	1520
EUCW1400A	1985	1762	1797	1800	1830	1780
Note: Right hand coil connection show						

PLENUM DIMENSION (Back / Bottom):



Model (Unit: mm)	A	B	C	D	E	F
EUCW200AE	675	452	487	490	520	470
EUCW300AE	815	592	627	630	660	610
EUCW400AE	915	692	727	730	760	710
EUCW500AE	995	772	807	810	840	790
EUCW600AE	1095	872	907	910	940	890
EUCW800AE	1425	1202	1237	1240	1270	1220
EUCW1000AE	1525	1302	1337	1340	1370	1320
EUCW1200AE	1725	1502	1537	1540	1570	1520
EUCW1400AE	1985	1762	1797	1800	1830	1780
Note: Right hand coil connection show						

UNIT FEATURES

General

The new EUCW-DA FCUs are specifically designed to satisfy high cooling capacity application requirement. Their quiet operation, compact dimensions and particularly low height, make units ideal for ceiling concealed installation. Units are standard supplied with soundproofed suction plenum and air filter.

Higher Cooling Capacity in High Delta T Application

These units are particularly suitable for high Delta T (chilled water) applications with Low chilled water pressure drop.

High Air Flow Volume at High ESP

11 sizes of EUCW-DA cover an air flow range from 339 to 2705 m^3/hr at medium speed with ESP of 75Pa.

High Efficiency and Energy Saving

A boundary layer film of air adhering to the fin surface will insulate the fin surface and severely reduces the heat exchange efficiency. Specially designed HYDROPHILIC DALUE FIN eliminates this boundary layer of air and creates continuous turbulence for best heat exchange efficiency.

Flexibility

Units are available with left or right hand water connections, which can be easily switched in the field by changing the positions of the fan-motor assembly and the supply air flange assembly if required.

Low Noise Design

Enlarged fan wheels design allows lower fan speed selection for the same external static pressure and airflow requirement. Thereby noise level is significantly reduced.

Drain Pan

The Drain pan is made of cold rolled steel (inner surface pre-coated) molded as a whole, lined with 7 mm polyethylene thermal insulation and pitched for positive drainage. Drain connection is Rc3/4 taper pipe with external threads.

Optional material (SS304), 6mm thick insulation (Armaflex 0/1) fireproof and various extended lengths (100-300mm) are available on request.

Casing

The unit casing is of single skin type with inner insulation. Panel is made of galvanized steel. The standard insulation consists of 8 mm fiber glass (coil top panel) & 5mm polyethylene insulation on other panels.

Filter

Filter is made of single layer nylon net media with 8mm thick Aluminum frame.

Coils

Coils are made of copper tubes 3/8" OD, 0.3mm thick with shutter type aluminum fins with 0.11mm thickness, 11fpi. The fins are pre-coated for protection by hydrophilic blue film and mechanically bonded to the copper tubes by precise machine expansion and pressure tested to 3.3MPa for one minute and leak tested to 1.6MPa for 5 minutes.

The manifolds are made of brass with Rc3/4 taper pipe with internal threads. The coils provided with manual air-vent.

Fan

Fan is direct driven, forward curved, centrifugal, and double inlet double width type, constructed from galvanized steel, dynamically & statically balanced.

AC Motor

Fan motor is selected for maximum efficiency and low noise with 4 speeds, permanent split capacitor, ball bearings and with Built-in automatic reset thermal overloads protection.

Power supply 230/240V-50/60Hz, protection grade IP20 & insulation class B with 4 pole.

NOMENCLATURE

EUCW	200	D	A	A	8	R	B	F	1	A

EU Series
Fan Coil Unit

Model
Ceiling Concealed Horizontal Ducted **(High ΔT)**

Motor Type
A - AC motor, **E** - EC motor

Coil Type	
A-4C0H	For High Delta °T water
C	Chilled Water Coil
H	Heating Coil

Outlet Static Pressure
8 – 75 Pa ESP

Connection Side (Facing the supply)
R - Right, **L** - Left

Return Air Plenum	
B	Back Plenum
D	Bottom Plenum
E/M	Back Plenum with 10mm felt muffler
F/N	Back Plenum with 15mm glass wool muffler
X	Back Plenum down sucking filter with 5mm PE muffler

Power Supply
A- 230/240V-1PH-50Hz
K- 230/240V-1PH-60Hz

Electric Heater

Filter		
	Media	**Frame**
F	Single layer Nylon	8 mm Aluminum
G	Double layer Nylon	25 mm Aluminum
H	Triple layer Aluminum	25 mm Aluminum
J	Cool Catalyst Filter	8 mm Aluminum

GENERAL DATA

MODEL				200	300	400	500	600	800	900	1000	1200	1400	1600
Fan & motor	Quantity			1	2	2	2	2	3	4	4	3	3	4
	Diameter		mm	160	160	160	160	160	160	160	160	200	200	200
	Length		mm	200	160	200	200	200	200	160	200	190	190	190
	Number of AC motors			1					2					
Coil		Face area	m^2	0.09	0.12	0.14	0.16	0.18	0.24	0.26	0.30	0.30	0.33	0.41
		Row		4										
		Fin per inch		10										
Filter	Number			1	1	2	2	3	3	3	3	3	3	3
	Size	Length	mm	485	665	765	805	905	1235	1375	1535	1252	1337	1637
		Width	mm	236	236	236	236	236	236	236	236	292	292	292
Weight	Net Weight		kg	16	21	22	24	28	39	44	48	51	52	62
	Gross Weight		kg	19	24	25	28	31	43	48	53	55	58	68
	Operating Weight		kg	17	22	24	26	30	41	47	50	54	54	66

GENERAL TECHNICAL PERFORMANCE EUCW-D

MODEL			200	300	400	500	600	800	900	1000	1200	1400	1600
Nominal air flow @ Dry coil.	H	m^3/h	348	445	664	831	923	1368	1563	1682	2374	2385	3162
	M	m^3/h	304	399	610	793	868	1295	1514	1629	2207	2380	2972
	L	m^3/h	200	270	445	630	693	1089	1293	1374	1667	1930	2311
Cooling Capacity	Total	W	1660	2300	3280	3750	4300	6570	7150	7910	9980	10490	12920
	Sensible	W	980	1400	2040	2580	2850	4490	4870	5480	7360	7880	9960
Heating capacity		H	3564	4541	6158	7351	8705	12709	14413	15498	20736	20887	25529
Rated power input @ 230V/1ph/50Hz	H	W	84	101	116	148	165	297	299	309	507	603	665
	M	W	78	92	108	133	154	273	277	290	475	523	607
	L	W	58	69	92	110	133	225	232	250	407	428	529
Rated current input	H	A	0.40	0.48	0.54	0.67	0.81	1.44	1.53	1.58	2.37	2.78	3.10
	M	A	0.36	0.42	0.49	0.62	0.71	1.25	1.28	1.34	2.17	2.46	2.78
	L	A	0.28	0.32	0.43	0.54	0.61	1.02	1.06	1.14	1.85	2.04	2.42
Water Flow Rate		m^3/h	0.16	0.22	0.31	0.36	0.41	0.63	0.68	0.75	0.95	1.00	1.23
Water pressure drop		KPa	3	6	13	6	8	10	13	11	14	16	20
External static pressure		Pa	75	75	75	75	75	75	75	75	75	75	75
Sound pressure level		DBA(A)	42.6	45.6	45.3	46.7	49.2	48.7	48.2	50.3	50.9	50.9	52.9

MODEL	COOLING MODE		HEATING MODE		
	Air on coil °C (DB/WB)	In/Out Water temp °C	Air on coil °C	Inlet Water temp °C	Water flow rate
EUCW-DA	24.0 / 18.0	5.5 / 14.5	-	-	-
Note:-					
1) Rated air flow is measured under standard atmosphere using dry coils (at 20°C)					
2) When the water connect direction is changed in field, the capacity should be reduced by 6%.					
3) Sound pressure levels are measured in a semi-anechoic chamber as per GB/T 19232-2003.					

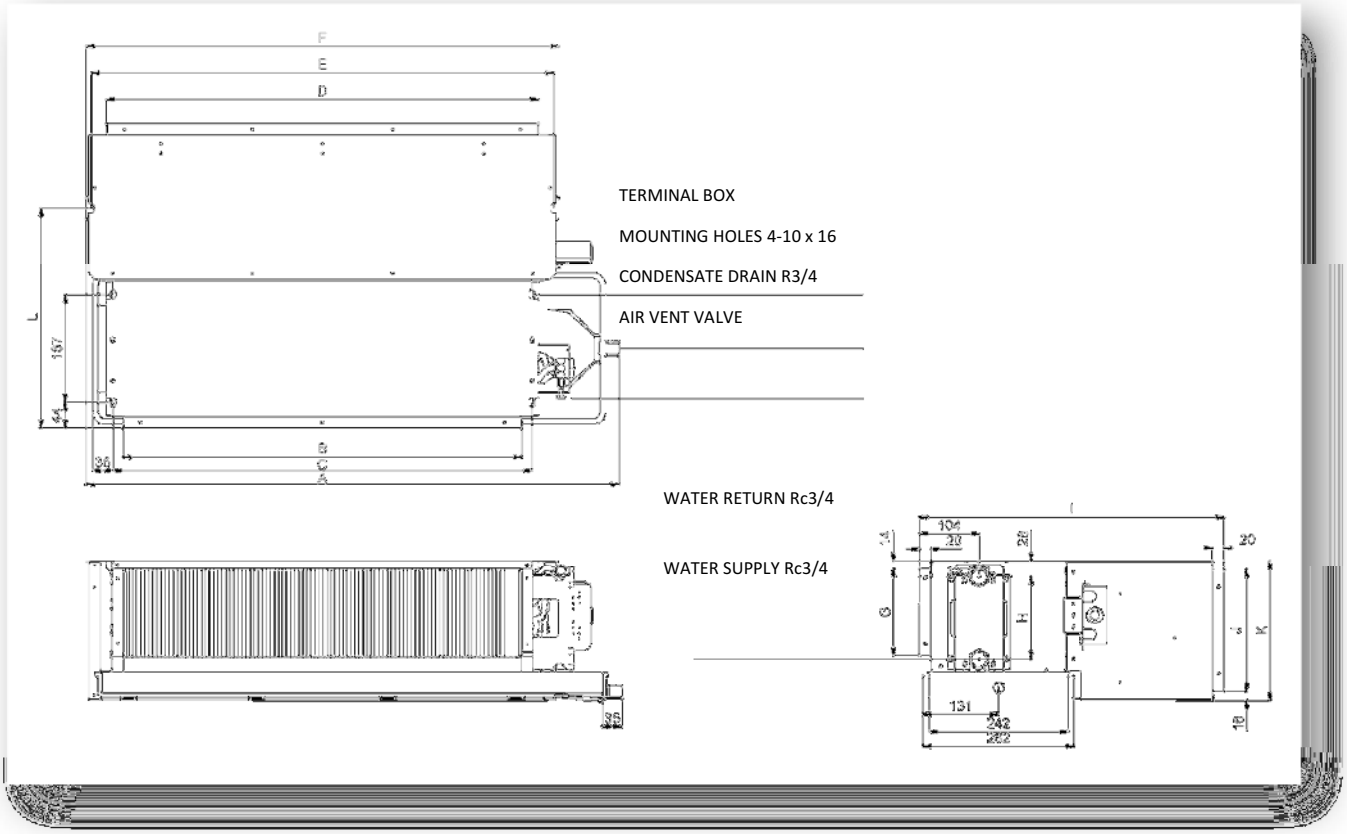
OPERATING LIMITS	
Maximum water side pressure	16 bars
Minimum entering water temperature	4.5°C
Maximum entering water temperature	80°C
Minimum air inlet temperature	5°C
Maximum air inlet temperature	43°C

AIRFLOW vs ESP DATA

Model	Fan Speed	AIR FLOW (m3/hr) at ESP (pa)							
		40	50	60	70	75	80	90	100
200DA	H	468	436	402	367	349	330	292	253
	M	437	400	362	324	304	285	245	205
	L	316	285	253	218	201	182	145	105
300DA	H	624	578	529	475	446	417	355	289
	M	581	535	484	429	400	370	306	239
	L	434	388	342	295	271	247	198	148
400DA	H	858	809	755	696	665	633	566	494
	M	794	748	697	642	612	581	515	445
	L	595	558	516	470	446	421	367	309
500DA	H	1018	970	918	861	831	800	734	664
	M	977	931	880	824	795	764	700	631
	L	774	742	703	657	632	605	546	480
600DA	H	1167	1106	1038	963	923	882	794	699
	M	1104	1044	978	906	869	830	748	660
	L	865	828	782	726	694	660	585	501
800DA	H	1662	1587	1506	1417	1369	1320	1216	1104
	M	1592	1516	1433	1344	1296	1247	1144	1033
	L	1318	1263	1200	1129	1090	1049	961	865
900DA	H	1916	1830	1733	1623	1564	1502	1369	1223
	M	1863	1778	1681	1573	1515	1453	1321	1178
	L	1611	1534	1447	1348	1294	1238	1118	986
1000DA	H	2047	1952	1850	1740	1683	1623	1498	1366
	M	1995	1902	1800	1690	1631	1571	1443	1307
	L	1677	1604	1520	1427	1376	1322	1207	1082
1200DA	H	2577	2522	2465	2406	2376	2345	2281	2215
	M	2379	2334	2286	2235	2209	2182	2126	2066
	L	1738	1723	1704	1681	1668	1655	1624	1590
1400DA	H	2637	2562	2490	2421	2387	2353	2288	2226
	M	2594	2536	2475	2413	2381	2349	2284	2216
	L	2059	2027	1992	1953	1932	1910	1863	1813
1600DA	H	3464	3384	3299	3210	3164	3116	3018	2916
	M	3229	3162	3091	3014	2975	2934	2848	2758
	L	2430	2407	2376	2336	2313	2288	2232	2168

Note:
1) Air flow is in Dry coil conditions.
2) ESP out of the range 40-100 Pa application is not recommended
3) For more air flow under different conditions, please refer to the selection program

DIMENSIONAL DRAWINGS



1) ALL THE DIMENSIONS ARE FOR THE UNITS WITH STANDARD DRAIN PAN. TO GET DIMENSIONS FOR UNITS WITH EXTENDED DRAIN PAN, PLEASE INCREASE THE ABOVE LENGTH VALUES ACCORDINGLY.

Model	A	B	C	D	E	F	G	H	I	J	K	L
EUCW200DA	677	452	487	469	522	540	151	143	530	211	243	382
EUCW300DA	827	592	627	649	702	820	151	143	530	211	243	382
EUCW400DA	927	692	727	749	802	820	151	143	530	211	243	382
EUCW500DA	997	772	807	789	842	860	151	143	530	211	243	382
EUCW600DA	1097	872	907	889	942	960	151	143	530	211	243	382
EUCW800DA	1427	1202	1237	1219	1272	1290	151	143	530	211	243	382
EUCW900DA	1537	1302	1337	1359	1412	1420	151	143	530	211	243	382
EUCW1000DA	1727	1502	1537	1519	1572	1580	151	143	530	211	243	382
EUCW1200DA	1427	1202	1237	1219	1272	1290	201	194	600	266	297	413
EUCW1400DA	1527	1302	1337	1319	1372	1390	201	194	600	266	297	413
EUCW1600DA	1827	1602	1637	1619	1672	1690	201	194	600	266	297	413

UNIT FEATURES

Casing
The unit casing is of double skin type with sandwich insulation. Inner skin is made of 0.5mm galvanized steel and outer skin is made of 0.5mm heavy metal galvanized steel electrostatic spraying with Akzonobel JI419C, standard color gray-white.

Filter
Filter is made of double layer nylon net media with 25mm thick Aluminum frame.

Coils
Coils are made of copper tubes 3/8" OD, 0.3mm thick with shutter type aluminum fins with 0.11mm thickness, 14fpi.
The fins are pre-coated for protection by hydrophilic blue film and mechanically bonded to the copper tubes by precise machine expansion and pressure tested to 3.3MPa for one minute and leak tested to 1.6MPa for 5 minutes.
The manifolds are made of steel with with external threads. The coils provided with manual air-vent.

Drain Pan
The Drain pan is made of SS304 (inner surface pre-coated) molded as a whole, lined with 7 mm polyethylene thermal insulation and pitched for positive drainage. Drain connection is Rc3/4 taper pipe with external threads.

Fan
Fan is direct driven, forward curved, centrifugal, and double inlet double width type, constructed from galvanized steel, dynamically & statically balanced.

AC Motor
Fan motor is selected for maximum efficiency and low noise with 3 speeds, permanent split capacitor, ball bearings and with Built-in automatic reset thermal overloads protection.
Power supply 230/240V-50/60Hz, protection grade IP20 & insulation class B with 4pole.

Low Noise
Enlarged fan wheels design allows lower fan speed selection for the same external static pressure and airflow requirement. Thereby noise level is significantly reduced.

Selection Software
Selection software is available for selection of models at various working conditions.

GENERAL DATA

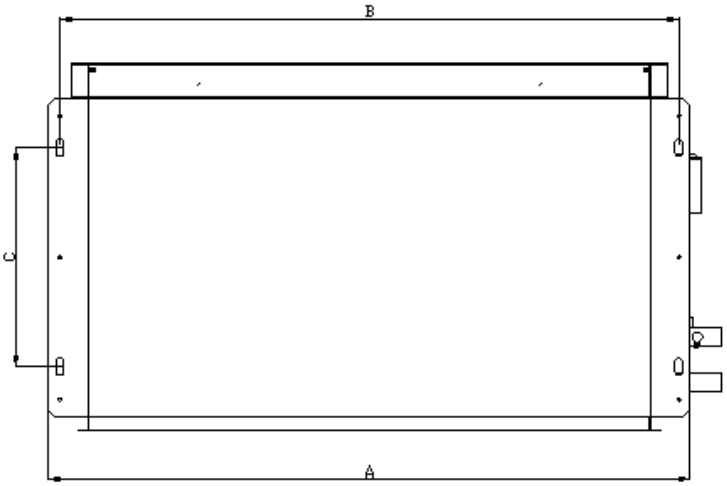
MODEL (EUCW-DS)			400	800	1200	1600	2000	2400
Fan & motor	Quantity		2	3	3	4	4	4
	Number of AC motors		1	2	2	2	2	2
Coil	Copper Diameter		9.52 mm					
	Rows	nos	4	4	4	4	6	6
	Pipe Configuration	nos	2	2	2	2	2	2
Dimensions	Length	mm	955	1455	1455	1855	1580	1910
	Width	mm	535	535	605	605	810	810
	Height	mm	296	296	350	350	490	490
	Net Weight	kg	39	62.5	77	113	132	132

GENERAL TECHNICAL PERFORMANCE EUCW-DS

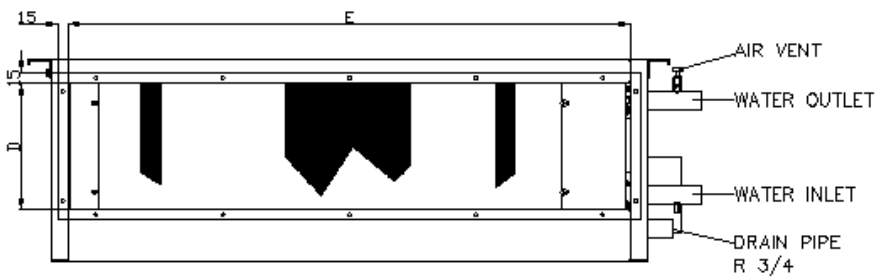
MODEL				400	800	1200	1600	2000	2400
Air	Total Air flow	M	m^3/h	703	1296	2126	2848	3500	4100
	ESP	M	pa	50	50	70	70	70	90
Cooling Capacity	Total	M	KW	3.50	7.00	10.60	14.10	17.60	21.10
	Sensible	M	KW	2.31	4.49	7.08	9.60	12.50	15.80
Electrical @ 230V/1ph/50Hz	power input	M	W	150	300	510	670	1190	1360
	Running Current	M	A	1.00	1.80	2.70	2.00	2.50	3.80
Hydraulic	Water Flow Rate	M	m3/h	0.34	0.64	0.98	1.26	1.63	2.10
	Water Pressure Drop	M	kpa	13	10	14	20	25	40
Sound pressure (M speed 60 pa)			DBA(A)	48.7	52.1	53.8	55.8	57.6	57.8

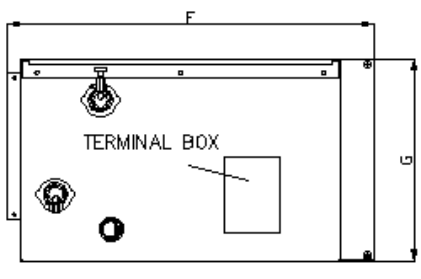
MODEL	COOLING MODE		HEATING MODE		
	Air on coil °C (DB/WB)	In/Out Water temp °C	Air on coil °C	Inlet Water temp °C	Water flow rate
EUCW-DH	24.0 / 18	5.55 / 14.44	-	-	-
Note:					
1) Rated air flow is measured under standard atmosphere using dry coils (at 20°C)					
2) When the water connect direction is changed in field, the capacity should be reduced by 6%.					
3) Sound pressure levels are measured in a semi-anechoic chamber as per GB/T 19232-2003					

DIMENSIONAL DRAWINGS



Model	A	B	C	D	E	F	G
EUCW400DA	938	904	470	186	823	630	296
EUCW800DA	1448	1414	400	186	1333	630	296
EUCW1200DA	1448	1414	490	238	1333	720	350
EUCW1600DA	1848	1814	480	238	1733	720	390
EUCW2000DA	1848	1814	550	288	1733	780	400
EUCW2400DA	1848	1814	550	288	1733	780	400





UNIT FEATURES

General
The unit is compact & ultra thin for installation where floor space is at a premium and where units can be ceiling mounted. Can be installed with its back against a wall, the air intake being on the underside.

Cabinet
The cabinet is realized with heavy metal Galvanized steel electrostatic spraying with Akzonobel JI419C, standard color gray-white .

Casing/Chassis
The unit casing is of single skin type with inner insulation. Panel is made of galvanized steel. The standard insulation consists of 8 mm fiber glass & 5mm polyethylene insulation thus producing a rigid and robust panel.

Grills
The standard supply and return air grilles are manufactured from black steel and fixed deflection.

Filter
Filter is made of washable nylon screen with 8mm thick steel frame. The filter at the air inlet can be easily replaced.

Coils
Coils are made of copper tubes 3/8" OD with shutter type aluminum fins.
The fins are pre-coated for protection by hydrophilic blue film and mechanically bonded to the copper tubes by precise machine expansion and tested to 3.3MPa pressure (Working pressure 1.6MPa)
The manifolds are made of brass with Rc3/4 taper pipe with internal threads. The coils provided with manual air-vent.

Drain Pan
The Drain pan is made of cold rolled steel (inner surface pre-coated) molded as a whole, lined with 7 mm polyethylene thermal insulation and pitched for positive drainage. In/Out connection is RC3/4 taper pipe with external threads. Drain connection size 21mm diameter. Optional material (SS304), 6mm thick insulation (Armstrong 0/1) fireproof are available on request.

Fan
Fan is direct driven, forward curved, centrifugal, double inlet double width type, constructed from galvanized steel, dynamically & statically balanced.

AC Motor
Fan motor is selected for maximum efficiency and low noise with 3 speeds, permanent split capacitor, ball bearings and with Built-in automatic reset thermal overloads protection.
Power supply 230/240V-50/60Hz, protection grade IP20 & insulation class B.

EC Motor
Fan motor is driven by integrated PCB board , which saved 30-50% energy saving at H/M/L speed compared to traditional on/off AC motor , power input will be reduced by 50-70% at continuously varied air flow conditioning .

Optional Control Type:
0-10 DCV from external signal
3 speeds by thermostat

Permanent split capacitor, ball bearings and with Built-in automatic reset thermal overloads protection ,Power supply 230/240V-50/60Hz, protection grade IP20 & insulation class B.

Low Noise
The unit features an optimal design and a high efficiency low sound fan and has undergone strict motion/rest rectification to ensure that it works at high efficiency with low noise.

Flexibility/available options
- Auxiliary electric heater
- Quick disconnect motor connections with removable fan & motor assembly for easy service access.

Selection Software
Selection software is available for selection of models at various working conditions.

NOMENCLATURE

EUCW	200	EA	C	R	F	A	1	A

EU Series
Fan Coil Unit

Model

Motor Type
EA - AC motor, **EC** - EC motor

Coil Type	
D-3C0H	For High Delta °T water
A-4C0H	For High Delta °T water
C	Chilled Water Coil
H	Heating Water Coil

Connection Side (Facing the supply)
R - Right, **L** - Left

Filter	Cold rolled steel is epoxy painted	
	Media	**Frame**
F	Nylon filter	8 mm steel

Power Supply
A- 230/240V-1PH-50Hz
K- 230/240V-1PH-60Hz

Electric Heater
0- No Heater
1- With Heater

Electric Heater

Code	Material	Insulation
A	Cold Rolled	7mm PE
E	SS304	
I	Cold Rolled	6mm (fire grade1)
J	SS304	
K	Cold Rolled	6mm (fire grade 0)
L	SS304	

GENERAL DATA

MODEL				200E	300E	400E	500E	600E	800E	1000E	1200E	1400E
Fan & motor	**Fan Quantity**			1	2	2	2	2	3	4	4	4
	Motor Quantity			1	1	1	1	1	2	2	2	2
	Diameter		mm	150	150	150	150	150	150	150	150	150
	Length		mm	200	150	200	200	200	200	150	200	240
Coil	**Face area**		m^2	0.090944	0.119364	0.139664	0.155904	0.176204	0.243194	0.263494	0.304094	0.356874
	Row/EA			4	4	4	4	4	4	4	4	4
	Row/EC			3	3	3	3	3	3	3	3	3
	Fin per inch EA/EC			11/12	11/12	11/12	11/12	11/12	11/12	11/12	11/12	11/12
Filter	**Number**			1	1	1	1	1	2	2	2	2
	Size	**Length**	mm	483	614	723	802	903	614	664	764	894
		Width	mm	171	171	171	171	171	171	171	171	171
Electric Heater (optional)	**Power supply**			230V/1PH/50Hz					400V/3PH/50Hz			
	KW			1/2	1/2/3	2/3/4	2/3/4	2/3/4	3/4/5	3/4/5	4/5/6	5/6/7
Weight	**Net Weight (no heater)**		kg	27.1	31.4	35.4	37.5	39.9	55.4	59.9	65.7	76.5
	Net Weight (with heater)		kg	30.1	34.7	39.1	41.4	44.1	60.5	65.2	71.5	83.0
	Gross Weight		kg	29.6	34.3	38.5	40.8	43.5	59.7	64.4	70.7	82.1

TECHNICAL PERFORMANCE FOR EUCW-EA

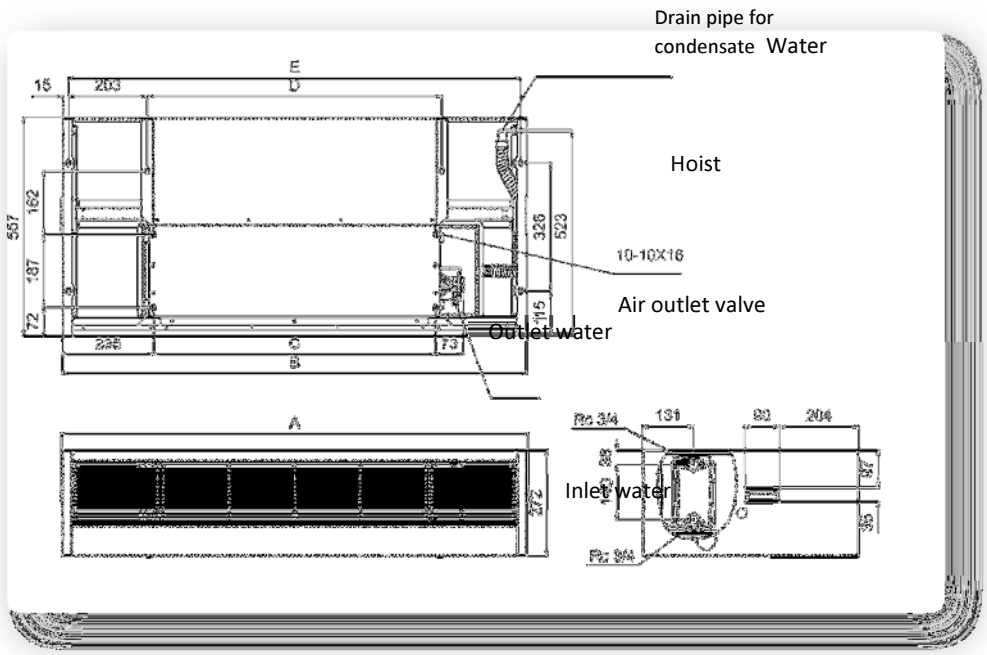
UNIT CONFIG	EUCW-E			200 EA	300 EA	400 EA	500 EA	600 EA	800 EA	1000 EA	1200 EA	1400 EA
Air	Total Air Flow	H	m^3/h	340	510	680	850	1020	1360	1700	2040	2380
		M		279	418	558	697	836	1115	1394	1673	1952
		L		170	255	340	425	510	680	850	1020	1190
Electrical (230V/1Ph/50Hz)	Power Input (H speed)	H	W	41	53	72	86	107	142	183	217	239
	Running Current (H Speed)	H	A	0.18	0.24	0.33	0.39	0.48	0.65	0.83	0.99	1.09
Rated Cooling Capacity	Total Cooling Capacity	H	KW	2.12	3.38	4.39	4.90	6.20	8.09	10.16	11.06	13.7
	Sensible Cooling Capacity	H		1.23	2.05	2.84	3.35	4.17	5.57	7.12	7.96	9.77
Heating	Heating Capacity	H	KW	3.57	5.42	6.91	8.33	12.23	13.21	16.58	18.33	22.16
Hydraulic	Water flow Rate	H	m^3/h	0.20	0.33	0.43	0.48	0.60	0.79	0.99	1.07	1.32
	Water Pressure Drop (cooling)	H	Kpa	5	13	22	10	16	16	25	20	29
	Water Pressure Drop (Heating)	H	Kpa	4	9	18	8	13	13	20	17	24
Sound	Sound Pressure Level (H Speed)	0Pa	dB(A)	39.5	40.0	43.0	44.0	46.0	46.0	50.5	50.5	51.5

TECHNICAL PERFORMANCE FOR EUCW-EC

UNIT CONFIG	EUCW-E			200 EC	300 EC	400 EC	500 EC	600 EC	800 EC	1000 EC	1200 EC	1400 EC
Air	Total Air Flow	H	m^3/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
Electrical 230V/1Ph/50Hz	Power Input (H speed)	H	W	39	53	72	83	107	142	183	217	239
	Running Current (H Speed)	H	A	0.18	0.24	0.33	0.38	0.48	0.65	0.83	0.99	1.09
Rated Cooling Capacity	Total Cooling Capacity	H	KW	2.26	3.48	4.49	5.14	6.45	8.49	10.03	11.54	13.6
	Sensible Cooling Capacity	H		1.49	2.17	2.87	3.6	4.37	6.08	7.11	8.50	9.92
Heating	Heating Capacity	H	KW	3.61	5.48	7..05	7.9	9.77	13.21	16.23	18.16	21.81
Hydraulic	Water flow Rate	H	m^3/h	0.44	0.61	0.74	0.96	1.10	1.54	1.75	2.10	2.47
	Water Pressure Drop (cooling)	H	Kpa	13	30	17	24	36	36	29	40	42
	Water Pressure Drop (Heating)	H	Kpa	11	23	13	20	29	31	22	37	35
Sound	Sound Pressure Level (H Speed)	0Pa	dB(A)	37.0	39.0	42.0	43.0	46.0	45.5	50.0	50.0	52.0

MODEL	COOLING MODE		HEATING MODE		
	Air on coil °C (DB/WB)	In/Out Water temp °C	Air on coil °C	Inlet Water temp °C	Water flow rate
EUCW-E	27.0 / 19.5	7.0 / 12.0	21	60	Same as cooling mode
Note:-					
1) Rated air flow is measured under standard atmosphere using dry coils (at 20°C)					
2) When the water connect direction is changed in field, the capacity should be reduced by 6%.					
3) Sound pressure levels are measured in a semi-anechoic chamber as per GB/T 19232-2003					

DIMENSIONAL DRAWINGS



Note:
In the preceding unit, the water pipes are connected on the right side.

Model (Unit:mm)	200E	300E	400E	500E	600E	800E	1000E	1200E	1400E
A	963	1097	1203	1283	1383	1713	1813	2013	2273
B	957	1091	1197	1277	1377	1707	1807	2007	2267
C	488	628	728	808	908	1238	1338	1538	1798
D	520	660	760	840	940	1270	1370	1570	1830
E	927	1061	1167	1247	1347	1677	1777	1977	2237

UNIT FEATURES

Features

The unit features elegant panel and edge design and can be flexibly installed. It provides wide-angle circular air with a strong and even current. Air is supplied to all corners of the room, making indoor space feels natural and comfortable.
The compact & super-thin design streamlined front panel (30mm thick), and can be easily installed in a narrow space in ceiling.

Motor

Single phase, ball bearing capacitive motor for high efficiency and low operation sound.

Thermostat

Standard unit configure with remote, and
Wired thermostat is optional

TECHNICAL SPECIFICATION

Model			300K	400K	500K	600K	800K	1000K	1200K	1400K
Air flow @ Dry coil	H	m^3/h	550	680	850	1020	1360	1700	2040	2380
	M	m3/h	500	550	740	850	1210	1360	1700	1900
	L	m3/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
Water flow		m3/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
Dimensions	Master unit	mm	582x582x250	582x582x250	705x705x290	705x705x290	832x832x290	832x832x290	832x832x290	960x960x290
	Panel	mm	680x680x30	680x680x30	830x830x30	830x830x30	980x980x30	980x980x30	980x980x30	1140x1140x30

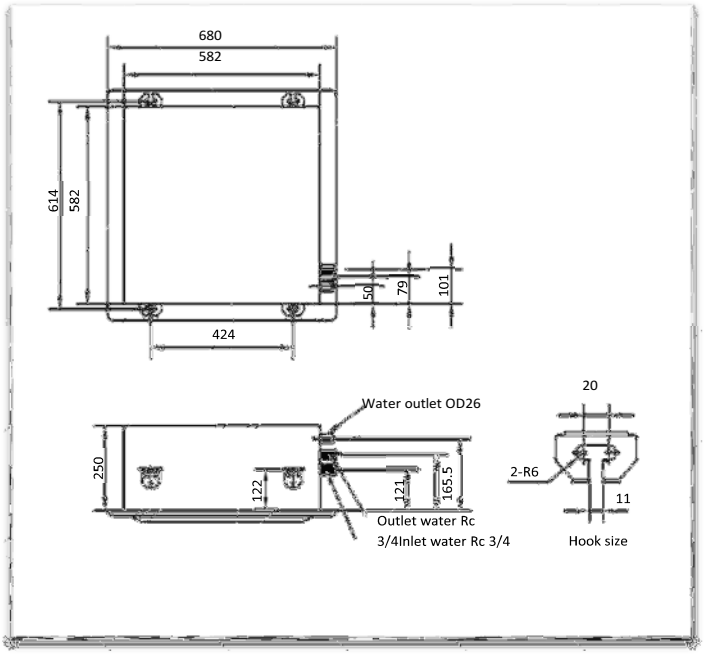
NOMENCLATURE

EUCW-300-K-T-B-A-AA

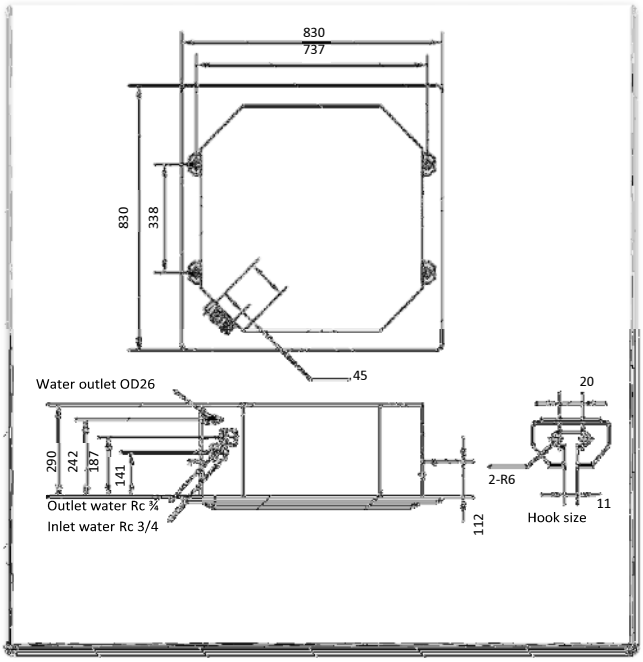
EUCW	**EU Series** Fan Coil Unit
300	**Model**
K	**Cassette fan coil**
T	**T – Dual pipe** **M- Quad pipe**
B	**Design serial number**
A	**Power Supply** **A**-230/240V-1PH-50Hz
AA	**Detailed product specification**

DIMENSIONAL DRAWINGS

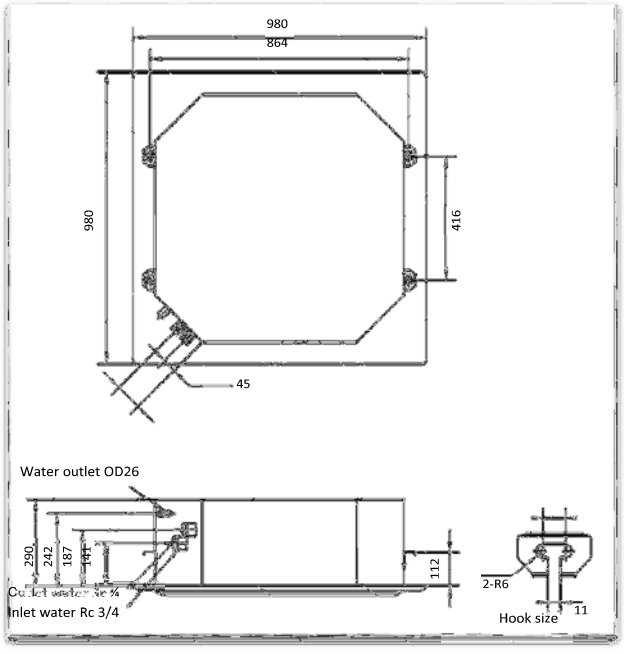
EUCW300/400KT



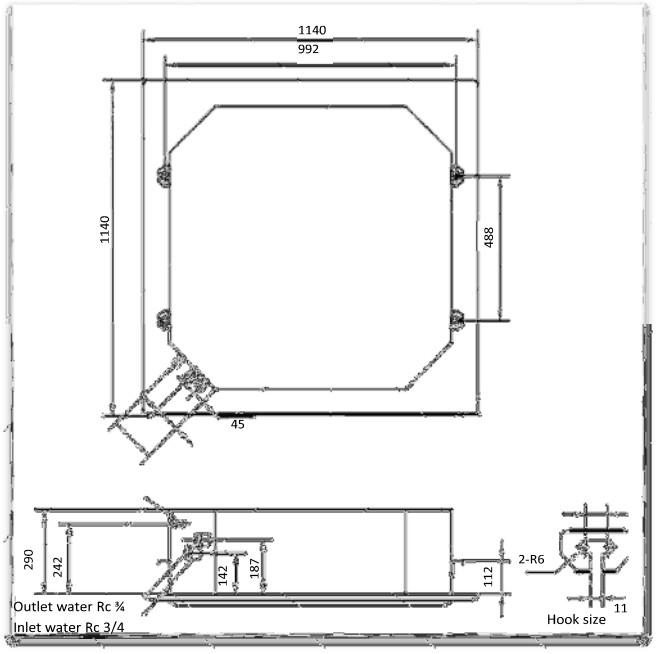
EUCW500/600



EUCW800/1000/1200



EUCW1400



UNIT FEATURES

Features

EUCW 1-way cassette fan coils are terminals of a hydronic system for installation in false ceilings. They can be used with chilled or hot water to form an air conditioning system.

Filter

Synthetic movable & washable filter.

Coils

High efficiency copper tubes with hydrophilic aluminum fins.

Unit Composition

- 1-Way discharge decorative panel in ABS material
- Motor drive auto swing louvers
- Integral 700mm head condensate drain pump
- Wireless remote controller

Optional

- Wired thermostat
- Pre-stamped lateral hole for fresh air connection

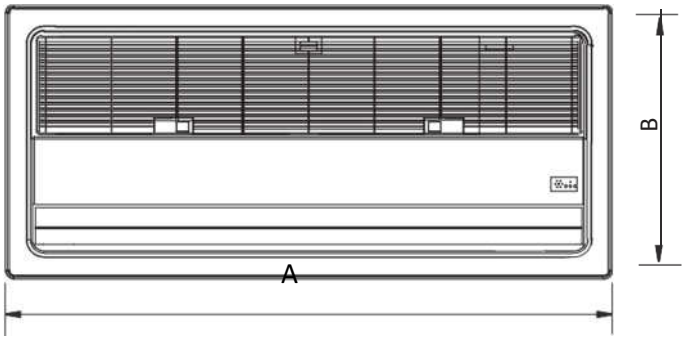
NOMENCLATURE	
EUCW-200-L-A-AA	
EUCW	**EU Series** Fan Coil Unit
200	**Model**
L	**1-way Cassette fan coil**
A	**Power Supply** **A-**230/240V-1PH-50Hz
AA	**Detailed product specification**

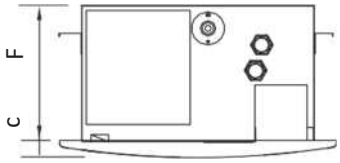
TECHNICAL SPECIFICATIONS

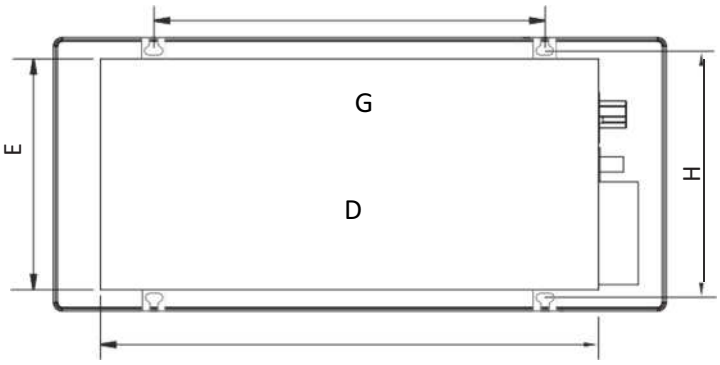
Model			200L	300L	400L
Total cooling capacity	speed high	kW	1.9	2.7	3.6
	speed medium	kW	1.5	2.1	2.8
	speed low	kW	1.0	1.6	2.1
Sensible cooling capacity	speed high	kW	1.3	1.9	2.5
	speed medium	kW	1.1	1.6	2.1
	speed low	kW	0.8	1.3	1.7
Water flow rate		l/h	327	464	619
Water pressure drop		kPa	10	15	18
Heating capacity	speed high	kW	2.1	3.2	4.2
	speed medium	kW	1.7	2.5	3.2
	speed low	kW	1.2	1.9	2.5
Evaporator coil	rows		2	2	3
	FPI		15.9	15.9	15.9
	copper diameter	inch	3/8"	3/8"	3/8"
	water content	l	0.65	0.65	0.92
Centrifugal fan blower	fan blower diameter	mm	ϕ142	ϕ142	ϕ142
	fan blower nr.		2	2	2
Electrical power	power input	W	45	54	64
	running current	A	0.20	0.24	0.28
Air flow rate	high speed	m^3/h	340	510	680
	medium speed	m^3/h	270	400	520
	low speed	m^3/h	190	300	400
Sound pressure (1m)	high speed	dB(A)	39	39	40
	medium speed	dB(A)	36	36	37
	low speed	dB(A)	30	30	31
Unit dimensions	Length	mm	848	848	848
	Width	mm	394	394	394
	Height	mm	235	235	235
Panel dimensions	Length	mm	1043	1043	1043
	Width	mm	468	468	468
	Height	mm	30	30	30
Net weight		kg	23	23	24
Water connection (FPT)		inch	3/4"	3/4"	3/4"
Electrical power supply			220-240V/1Phase/50HZ		

MODEL	COOLING MODE		HEATING MODE		
	Return air temp°C (DB/WB)	In/Out Water temp°C	Return air temp°C	Inlet Water temp°C	Water flow rate
EUCW-L	27.0 / 19.0	7.2 / 12.0	20.0	50	same as cooling mode

DIMENSIONAL DRAWINGS

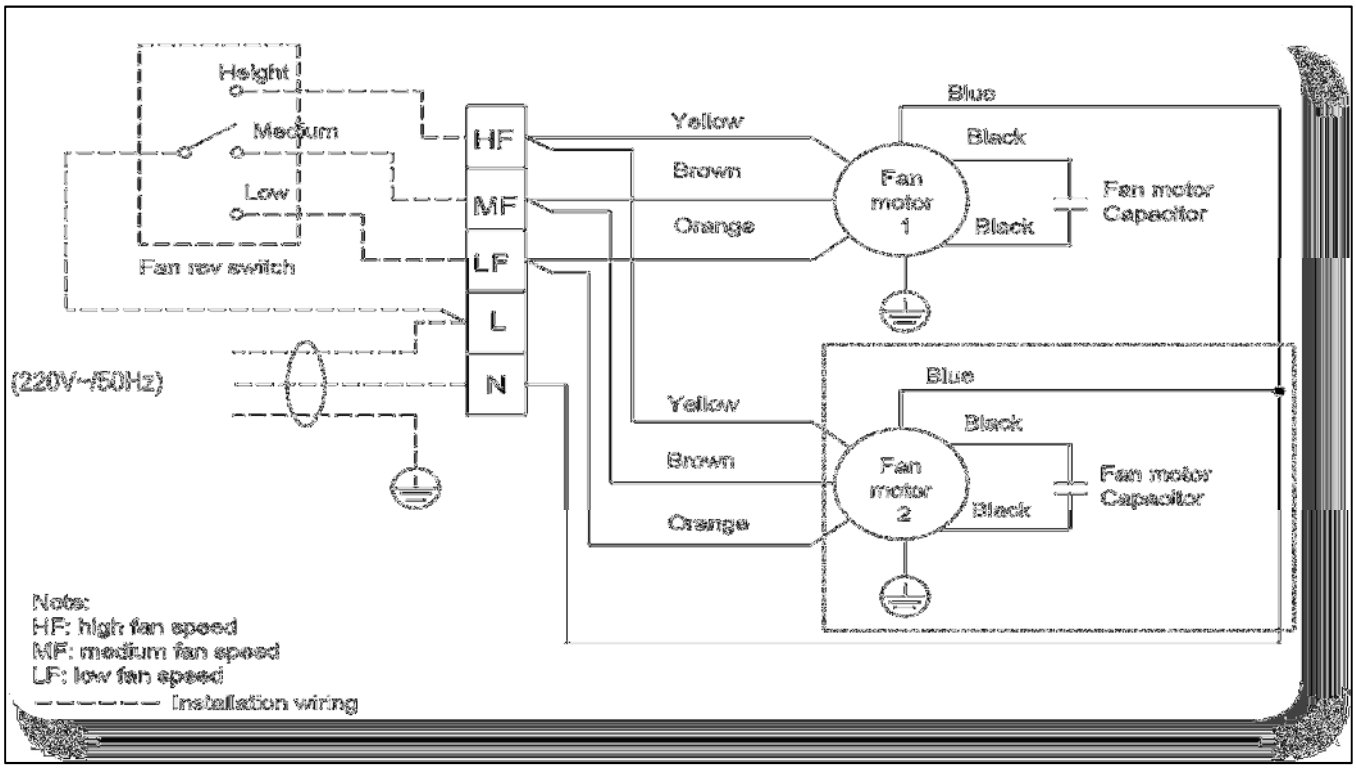






Model (Unit: mm)	200L	300L	400L
A	1043	1043	1043
B	468	468	468
C	30	30	30
D	848	848	848
E	394	394	394
F	235	235	235
G	760	760	760
H	434	434	434

WIRING DIAGRAM



Notes:

1. Before connecting electric wires, verify that the power supply specifications meet the requirements specified on the nameplate. Disconnect power cables to avoid electric shock.

2. Electric connection must be performed according to the electric wiring diagram. The unit must be well grounded.

3. The voltage, frequency and number of phases of the power supply must meet the requirements specified on the nameplate. The voltage fluctuations must not exceed ±10%.

4. Do not connect units of different models parallel. A maximum of two units of the same model can be connected parallel. If these requirements are violated, the motor may be damaged.

NOTE: ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE

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Due to it's commitment of continuous product development and improvement, Euroclima reserves the right to change specifications without notice.

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