

EKDW (B Series) Cabinet Air Handling Units

Horizontal Unit

Model: EKDW020H~EKDW450H

Air flow: 2000m³/h ~ 45000m³/h

Vertical Unit

Model: EKDW040V ~ EKDW450V

Air flow: 4000m³/h ~ 45000m³/h

Air Jet Unit

Model: EKDW020S ~ EKDW120S

Air flow: 2000m³/h ~ 12000m³/h



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ISO9001 2008 corporate
certification

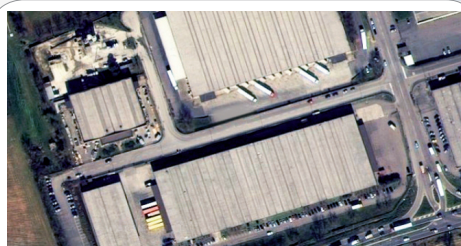


Product QS certification
(XK-06-015-00361)

Manufactured in an ISO Certified Facility

Information covers EuroKlimat products at the time of publication
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EUROKLIMAT Air Conditioner, Environmental & Energy-saving Technology from Europe.



EK Italy Headquarters



EUROKLIMAT (EK), established in 1963 in Italy, which has been growing for the past half a century, and has become one of the most famous, energy-saving air conditioning manufacturers in Italy, Spain and the whole of Europe. Continuous innovation on new product development and top manufacturing quality are the driving force behind this growth.

EUROKLIMAT (EK) pursues the ideals of environmental friendly-providing physical comfort and energy-saving into the whole process of product R&D, manufacturing and service. All our 50 product series which covers residential, commercial and close control air-conditioners are manufactured according to European production standards. EK product incorporates the most advanced energy saving air-conditioning technology in Europe.

Guangdong EUROKLIMAT Air-Conditioning & Refrigeration Co., Ltd. (EK China), is the R&D, manufacturing, sales, marketing and service center for EK Group in Asia. EK Industrial Park with over 70,000 square meters of factory land is strategically located in Dongguan City, Guangdong, China. There are over 20 sales branches providing full scale service and support for the whole of China market. EK China exports its products to European, Australian, South American, South-East Asian and Middle Eastern markets.



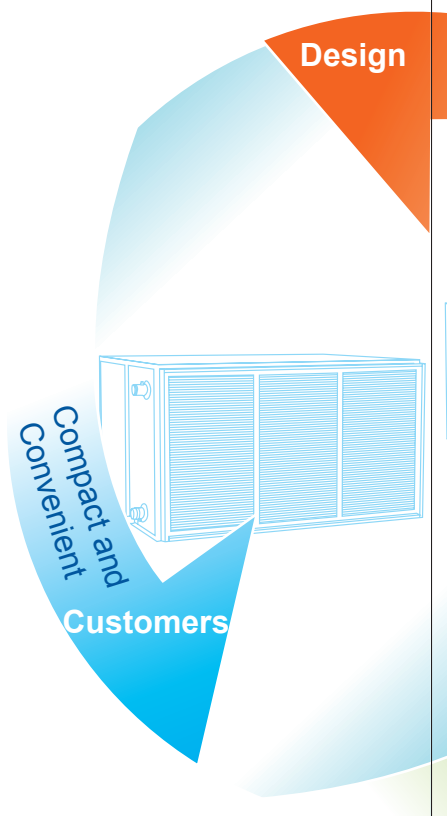
Overview

EUROKLIMAT possesses the most advanced technologies and manufacturing facilities/processes in the air conditioning sector and has been forging ahead at the forefront of air conditioning products and technologies for more than 40 years by enterprising innovation.

Launched by EK to meet market demand, EKDW series air handling units feature joggle structures and foamed polyurethane plates for effective heat preservation and service life enhancement. Units of this series have 40 models and 560 standard specifications available for your choice, and can be widely used in central air conditioning systems of hotels, shopping malls, hospitals, office buildings etc.

Customers

- ▶ EKDW series units feature a high total external pressure, large cooling capacity, compact and simple structure and easy maintenance.
- ▶ Easy maintenance: the bearing of the fan motor needs no lubricant refill.
- ▶ Low sound: a quality fan motor with a low rev provides a large air flow with a low operation sound.
- ▶ Clean and environment friendly: A nylon filter with primary efficiency is installed at the air inlet. Customers can also choose to install a plate or bag filter and sterilization apparatus (aluminum screen filter, electric cleaner and photocatalyst are available).
- ▶ A high-efficiency forward-pitched fan with multiple wings provides a large air flow and stable performance with a low operation sound. The bearing of the fan needs no lubricant refill, thus saving maintenance cost.
- ▶ A 30mm-thick strong cabinet wall made of foamed polyurethane ensures effective heat preservation and a long service life for the entire unit.
- ▶ Mechanically expanded copper tubes with a thin wall and a new type of optimized wavy fins produced using leading-edge manufacturing facilities ensure optimal heat exchange efficiency and pave the way for a high EER. The coils feature multiple specifications and different types of loops to work in concert with various other sections.
- ▶ EKDW features a professional air jet solution that is suitable for areas that is super large or high, areas where no air duct is installed, areas where air ducts cannot be installed and areas where conditioned air cannot be supplied to the bottom of a building from the rooftop. Such areas include air ports, bus stations, exhibition centers, factory plants, supermarkets, and lobbies, front doors and shafts of hotels.
- ▶ EKDW air jet units use high-performance ball-shaped sprayer as the air outlet, and can supply air over a maximum distance of 40 meters. The units can supply conditioned air over a long distance without air duct, thus saving space and operation cost and lowering the requirement on floor distance.
- ▶ EKDW air jet units can supply air 360° and the air supply direction can be manually adjusted. The air is similar to natural air and does not directly blow on people. Conditioned air is supplied to specified locations in the most comfortable way.



Design

- ▶ All-round standard specifications for water flow, water pressure drop, etc
- ▶ All-purpose secondary design software
- ▶ Complete design flow for non-standard units to expand application scope



Services Agents

- ▶ Wide access door makes maintenance work very convenient.
 - ▶ Optional accessories such as temperature/pressure drop alarms are available.
 - ▶ Both air inlet and outlet are equipped with a flange to facilitate air coil connection.
- The unit can be mounted on the floor or hung from the ceiling.

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Nomenclature

Nomenclature

EKDW 080 H R 08 T — 4 L — F AB

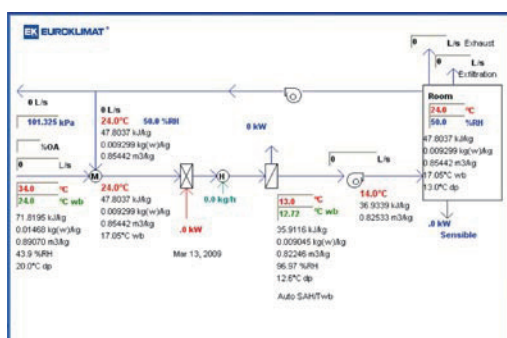
1 2 3 4 5 6 7 8 9 10

1. EKDW Model code: EKDW series cabinet air handling units
2. 080 Air flow code: 080 - 8000 m³/h
3. H Type: H - horizontal; V - vertical
4. R Inlet air conditions: R - return air; F - fresh air
5. 08 Total external pressure: 08-80 Pa, 15-150 Pa, 22-220 Pa, 30-300 Pa
6. T Air supply direction: T - top; omitted for horizontal air supply
7. 4 Rows of coils: 4 - 4 row; 6 - 6 rows
8. L Pipe orientation: L - left oriented; R - right oriented (When you face toward the air outlet - counter air current, connection pipes on the left are left oriented and vice versa)
9. F Power supply features: F: 380 V/3~/50 Hz
10. AB Detailed description on product specification changes

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Flexible and convenient model selection software

A flexible, user-friendly and proprietary software is specifically built for EKDW units for model selection and pricing based on customer requirements.



Specifications for EKDW-H Series Horizontal Air Handling Units

Model		EKDW 020H	EKDW 030H	EKDW 040H	EKDW 050H	EKDW 060H	EKDW 070H	EKDW 080H	EKDW 090H	EKDW 100H	EKDW 120H	EKDW 135H		
Nominal air flow (m³/h)		2000	3000	4000	5000	6000	7000	8000	9000	10000	12000	13500		
External residual pressure (Pa)	I	80	80	80	80	80	80	80	80	~	~	~		
	II	150	150	150	150	150	150	150	150	150	150	150		
	III	220	220	220	220	220	220	220	220	220	220	220		
	IV	~	~	~	300	300	300	300	300	300	300	300		
Nominal cooling capacity (kW)	4 rows of coils (return air)	12	17	24	31	38	44	51	56	63	74	81		
	4 rows of coils (fresh air)	29	42	57	69	83	94	113	127	142	169	175		
	6 rows of coils (return air)	15	23	33	39	48	55	63	72	78	94	107		
	6 rows of coils (fresh air)	35	53	69	88	105	122	137	155	173	208	237		
Nominal heating capacity (kW)	4 rows of coils (return air)	19	30	41	50	61	71	83	93	103	122	140		
	4 rows of coils (fresh air)	33	49	66	82	99	115	133	148	161	197	220		
	6 rows of coils (return air)	23	36	48	60	72	84	96	108	120	144	162		
	6 rows of coils (fresh air)	38	57	77	95	114	132	150	169	188	224	255		
Nominal cooling water flow (L/S)	4 rows of coils (return air)	0.57	0.81	1.14	1.48	1.81	2.10	2.43	2.67	3.00	3.52	3.86		
	4 rows of coils (fresh air)	1.38	2.00	2.71	3.29	3.95	4.48	5.38	6.05	6.76	8.05	8.33		
	6 rows of coils (return air)	0.71	1.10	1.57	1.86	2.29	2.62	3.00	3.43	3.71	4.48	5.10		
	6 rows of coils (fresh air)	1.67	2.52	3.29	4.19	5.00	5.81	6.52	7.38	8.24	9.90	11.29		
Nominal heating water flow (L/S)	4 rows of coils (return air)	0.43	0.68	0.92	1.13	1.37	1.71	1.87	2.24	2.32	2.75	3.37		
	4 rows of coils (fresh air)	0.74	1.10	1.49	1.85	2.23	2.77	2.99	3.56	3.62	4.44	5.29		
	6 rows of coils (return air)	0.52	0.81	1.08	1.35	1.62	2.02	2.16	2.60	2.70	3.24	3.90		
	6 rows of coils (fresh air)	0.86	1.28	1.73	2.14	2.57	3.17	3.38	4.06	4.23	5.04	6.13		
Coil	Type	Copper tube with a new type of wavy aluminum fins												
	Piece/inch	13												
	Working pressure (MPa)	1.6												
	Size of inlet/outlet water pipe connector	R1-1/2	R1-1/2	R1-1/2	R1-1/2	R1-1/2	R2	R2	R2	R2	R2	R2		
	Size of condensate water pipe connector	R1-1/4												
Fan	Type/material	High-efficiency forward-pitched centrifugal fans with multiple wings/zinc-plated steel plates												
	Transmission	V-belt transmission												
	Fanning direction	Downward horizontal/top												
Motor	Power supply	380V/3~50Hz												
	Type	3-phase asynchronous motor; insulation grade of F and protection grade of IP54												
	Motor power (kW)	I	0.37(0.37)	0.55(0.75)	0.75(0.75)	0.75(1.1)	1.1(1.1)	1.1(1.1)	1.1(1.5)	1.5(1.5)	~	~	~	
		II	0.55(0.55)	0.75(0.75)	0.75(1.1)	1.1(1.1)	1.1(1.1)	1.1(1.5)	1.5(1.5)	1.5(1.5)	1.5(2.2)	2.2(2.2)	3.0(3.0)	3.0(3.0)
		III	0.55(0.75)	0.75(1.1)	1.1(1.1)	1.1(1.1)	1.1(1.1)	1.5(1.5)	1.5(1.5)	1.5(2.2)	2.2(2.2)	2.2(2.2)	3.0(3.0)	3.0(4.0)
IV	~	~	~	1.1(1.5)	1.5(2.2)	1.5(2.2)	2.2(2.2)	2.2(3.0)	2.2(3.0)	3.0(3.0)	4.0(4.0)			
Filter	Type	Thickness (mm)												
	Thickness (mm)	8/21												
Cabinet	Type	30mm-thick double-layer plates filled with polyurethane material foamed under high pressure for heat preservation												
Unit Dimensions	Length (mm)	820	950	1010	1130	1260	1300	1500	1620	1650	1750	1940		
	Width (mm)	950	950	1050	1050	1050	1100	1100	1100	1050	1050	1050		
	Height (mm)	630	650	755	755	805	830	830	830	890	950	950		
Unit weight	4 rows of coils (kg)	127	141	169	184	209	233	266	283	348	367	393		
	6 rows of coils (kg)	131	147	176	192	219	245	280	298	366	388	416		

Note:

- The above parameters are for standard units. However, EK can customize these parameters to meet special requirements from customers.
- Working conditions for cooling under nominal return air flow: dry bulb 27°C, wet bulb 19.5°C; working conditions for cooling under nominal fresh air flow: dry bulb 34°C, wet bulb 28°C; water temperature under nominal cooling capacity: inlet water 7°C, outlet water 12°C.
- Working conditions for heating under nominal return air flow: dry bulb 21°C; Working conditions for heating under nominal fresh

air flow: dry bulb 0°C; water temperature under nominal heating capacity: inlet water 60°C, outlet water 50°C.

- Weight listed in the above table are net weight of units. Operation weight may post an increase of 20%.
- Parameters inside () are the power of units with 6 rows of coils.
- The coil loops for units with full return air ("R") and units with full fresh air ("F") may be different. Please specify the inlet air conditions while placing orders. EK can provide computer-aided model selection to meet special requirements. For detailed parameters, please refer to the model selection results.

Specifications

Specifications for EKDW-H Series Horizontal Air Handling Units

Model		EKDW 150H	EKDW 180H	EKDW 200H	EKDW 220H	EKDW 250H	EKDW 270H	EKDW 300H	EKDW 350H	EKDW 400H	EKDW 450H
Nominal air flow (m³/h)		15000	18000	20000	22000	25000	27000	30000	35000	40000	45000
External residual pressure (Pa)	I	~	~	~	~	~	~	220	220	220	220
	II	150	150	150	150	150	150	300	300	300	300
	III	220	220	220	220	220	220	400	400	400	400
	IV	300	300	300	300	300	300	500	500	500	500
	V	~	~	~	~	~	~	~	600	600	600
Nominal cooling capacity (kW)	4 rows of coils (return air)	97	114	123	134	155	165	191	220	256	286
	4 rows of coils (fresh air)	211	248	270	290	337	361	418	481	558	620
	6 rows of coils (return air)	120	147	160	175	199	218	239	276	318	354
	6 rows of coils (fresh air)	268	321	347	375	434	459	526	596	686	754
Nominal heating capacity (kW)	4 rows of coils (return air)	153	186	202	225	253	277	310	358	408	460
	4 rows of coils (fresh air)	246	296	326	355	406	439	502	574	656	730
	6 rows of coils (return air)	183	215	238	264	298	312	366	424	484	542
	6 rows of coils (fresh air)	287	338	375	412	469	507	574	666	766	854
Nominal cooling water flow (L/S)	4 rows of coils (return air)	4.62	5.43	5.86	6.38	7.38	7.86	9.10	10.48	12.19	13.62
	4 rows of coils (fresh air)	10.05	11.81	12.86	13.81	16.05	17.19	19.90	22.90	26.57	29.52
	6 rows of coils (return air)	5.71	7.00	7.62	8.33	9.48	10.38	11.38	13.14	15.14	16.86
	6 rows of coils (fresh air)	12.76	15.29	16.52	17.86	20.67	21.86	25.05	28.38	32.67	35.90
Nominal heating water flow (L/S)	4 rows of coils (return air)	3.44	4.19	4.55	5.07	5.70	6.24	7.48	8.64	9.84	11.10
	4 rows of coils (fresh air)	5.54	6.66	7.34	7.99	9.14	9.88	12.11	13.85	15.82	17.61
	6 rows of coils (return air)	4.12	4.84	5.36	5.94	6.71	7.02	8.83	10.23	11.68	13.07
	6 rows of coils (fresh air)	6.46	7.61	9.28	9.28	10.56	11.42	13.85	16.07	18.48	20.60
Coil	Type	Copper tube with a new type of wavy aluminum fins									
	Piece/inch	13									
	Working pressure (MPa)	1.6									
	Size of inlet/outlet water pipe connector	R2-1/2	R2-1/2	R2-1/2	R3	R3	R3	R3	R3	R3	R3
	Size of condensate water pipe connector	R1-1/4									
Fan	Type/material	High-efficiency forward-pitched centrifugal fans with multiple wings/zinc-plated steel plates									
	Transmission	V-belt transmission									
	Fanning direction	Downward horizontal/top									
Motor	Power supply	380V/3~50Hz									
	Type	3-phase asynchronous motor; insulation grade of F and protection grade of IP54									
	Motor power (kW)	I	~	~	~	~	~	7.5(7.5)	7.5(11)	11(11)	11(11)
		II	3.0(3.0)	4.0(4.0)	4.0(4.0)	4.0(5.5)	4.0(5.5)	5.5(5.5)	7.5(7.5)	11(11)	11(11)
		III	3.0(4.0)	4.0(4.0)	4.0(5.5)	5.5(5.5)	5.5(5.5)	5.5(7.5)	11(11)	11(11)	15(15)
		IV	4.0(4.0)	4.0(5.5)	5.5(5.5)	5.5(7.5)	5.5(7.5)	7.5(7.5)	11(11)	11(15)	15(15)
		V	~	~	~	~	~	~	15(15)	15(15)	15(18.5)
Filter	Type	Thickness (mm)									
	Thickness (mm)	8/21									
Cabinet	Type	30mm-thick double-layer plates filled with polyurethane material foamed under high pressure for heat preservation									
Unit Dimensions	Length (mm)	2010	2060	2250	2300	2470	2620	2770	2770	2930	2930
	Width (mm)	1090	1090	1250	1250	1250	1250	1650	1650	1650	1810
	Height (mm)	1020	1140	1140	1200	1270	1270	1410	1570	1730	1890
Unit weight	4 rows of coils (kg)	447	477	565	589	703	722	972	1047	1196	1294
	6 rows of coils (kg)	472	507	598	625	744	767	1025	1106	1266	1371

Note:

- The above parameters are for standard units. However, EK can customize these parameters to meet special requirements from customers.
- Working conditions for cooling under nominal return air flow: dry bulb 27°C, wet bulb 19.5°C; working conditions for cooling under nominal fresh air flow: dry bulb 34°C, wet bulb 28°C; water temperature under nominal cooling capacity: inlet water 7°C, outlet water 12°C.
- Working conditions for heating under nominal return air flow: dry bulb 21°C; Working conditions for heating under nominal fresh air flow: dry bulb 0°C; water temperature under nominal heating capacity: inlet water 60°C, outlet water 50°C.
- Weight listed in the above table are net weight of units. Operation weight may post an increase of 20%.
- Parameters inside () are the power of units with 6 rows of coils.
- The coil loops for units with full return air ("R") and units with full fresh air ("F") may be different. Please specify the inlet air conditions while placing orders. EK can provide computer-aided model selection to meet special requirements. For detailed parameters, please refer to the model selection results.

Specifications for EKDW-V Series Vertical Air Handling Units

Model		EKDW 040V	EKDW 050V	EKDW 060V	EKDW 070V	EKDW 080V	EKDW 090V	EKDW 100V	EKDW 120V	EKDW 135V	EKDW 150V
Nominal air flow (m³/h)		4000	5000	6000	7000	8000	9000	10000	12000	13500	15000
External residual pressure (Pa)	I	80	80	80	80	80	80	80	~	~	~
	II	150	150	150	150	150	150	150	150	150	150
	III	220	220	220	220	220	220	220	220	220	220
	IV	300	300	300	300	300	300	300	300	300	300
Nominal cooling capacity (kW)	4 rows of coils (return air)	23	30	37	44	50	56.3	63	74	84	95
	4 rows of coils (fresh air)	55	70	83	94	111	121	137	167	190	202
	6 rows of coils (return air)	32	40	47	53	62	69	78	96	112	120
	6 rows of coils (fresh air)	70	86	103	122	137	156	172	206	230	264
Nominal heating capacity (kW)	4 rows of coils (return air)	40	50	60	71	82	91	102	122	139	155
	4 rows of coils (fresh air)	65	82	98	115	129	148	164	197	222	246
	6 rows of coils (return air)	48	60	72	84	97	108	121	142	161	178
	6 rows of coils (fresh air)	77	94	113	132	152	169	191	224	257	280
Nominal cooling water flow (L/S)	4 rows of coils (return air)	1.10	1.43	1.76	2.10	2.80	2.68	3.00	3.52	4.00	4.52
	4 rows of coils (fresh air)	2.62	3.33	3.95	4.48	5.29	5.76	6.52	7.95	9.05	9.62
	6 rows of coils (return air)	1.52	1.90	2.24	2.52	2.95	3.29	3.71	4.57	5.33	5.71
	6 rows of coils (fresh air)	3.33	4.10	4.90	5.81	6.52	7.43	8.19	9.81	10.95	12.57
Nominal heating water flow (L/S)	4 rows of coils (return air)	0.96	1.21	1.45	1.71	1.98	2.19	2.46	2.94	3.34	3.74
	4 rows of coils (fresh air)	1.57	1.98	2.36	2.77	3.11	3.56	3.96	4.75	5.34	5.93
	6 rows of coils (return air)	1.16	1.45	1.74	2.02	2.34	2.60	2.92	3.43	3.87	4.29
	6 rows of coils (fresh air)	1.86	2.27	2.73	3.17	3.67	4.06	4.61	5.40	6.18	6.75
Coil	Type	Copper tube with a new type of wavy aluminum fins									
	Piece/inch	13									
	Working pressure (MPa)	1.6									
	Size of inlet/outlet water pipe connector	R 1-1/2	R 1-1/2	R 1-1/2	R 2	R 2	R 2	R 2	R 2	R 2	R 2-1/2
	Size of condensate water pipe connector	R1-1/4									
Fan	Type/material	High-efficiency forward-pitched centrifugal fans with multiple wings/zinc-plated steel plates									
	Transmission	V-belt transmission									
	Fanning direction	Top									
Motor	Power supply	380V/3~50Hz									
	Type	3-phase asynchronous motor; insulation grade of F and protection grade of IP54									
	Motor power (kW)	I	0.75(0.75)	0.75(1.1)	1.1(1.1)	1.1(1.1)	1.1(1.5)	1.5(1.5)	1.5(2.2)	~	~
		II	0.75(1.1)	1.1(1.1)	1.1(1.5)	1.1(1.5)	1.5(1.5)	1.5(2.2)	2.2(2.2)	2.2(3.0)	3.0(3.0)
		III	1.1(1.1)	1.1(1.1)	1.5(1.5)	1.5(1.5)	1.5(2.2)	2.2(2.2)	2.2(2.2)	2.2(3.0)	3.0(3.0)
		IV	1.1(1.5)	1.1(1.5)	1.5(2.2)	1.5(2.2)	2.2(2.2)	2.2(3.0)	2.2(3.0)	3.0(4.0)	4.0(4.0)
Filter	Type	Thickness (mm)									
	Thickness (mm)	8/21									
Cabinet	Type	30mm-thick double-layer plates filled with polyurethane material foamed under high pressure for heat preservation									
Unit Dimensions	Length (mm)	920	1030	1200	1230	1280	1290	1330	1440	1580	1870
	Width (mm)	650	650	650	810	810	810	900	900	900	810
	Height (mm)	1270	1335	1385	1490	1550	1610	1800	1860	1860	1680
Unit weight	4 rows of coils (kg)	172	203	236	274	306	323	386	423	435	482
	6 rows of coils (kg)	179	211	246	286	321	339	404	444	458	507

Note:

- The above parameters are for standard units. However, EK can customize these parameters to meet special requirements from customers.
- Working conditions for cooling under nominal return air flow: dry bulb 27°C, wet bulb 19.5°C; working conditions for cooling under nominal fresh air flow: dry bulb 34°C, wet bulb 28°C; water temperature under nominal cooling capacity: inlet water 7°C, outlet water 12°C.
- Working conditions for heating under nominal return air flow: dry bulb 21°C; Working conditions for heating under nominal fresh

air flow: dry bulb 0°C; water temperature under nominal heating capacity: inlet water 60°C, outlet water 50°C.

- Weight listed in the above table are net weight of units. Operation weight may post an increase of 20%.
- Parameters inside () are the power of units with 6 rows of coils.
- The coil loops for units with full return air ("R") and units with full fresh air ("F") may be different. Please specify the inlet air conditions while placing orders. EK can provide computer-aided model selection to meet special requirements. For detailed parameters, please refer to the model selection results.

Specifications

Specifications for EKDW-V Series Vertical Air Handling Units

Model		EKDW 180V	EKDW 200V	EKDW 220V	EKDW 250V	EKDW 270V	EKDW 300V	EKDW 350V	EKDW 400V	EKDW 450V
Nominal air flow (m ³ /h)		18000	20000	22000	25000	27000	30000	35000	40000	45000
External residual pressure (Pa)	I	~	~	~	~	~	220	220	220	220
	II	150	150	150	150	150	300	300	300	300
	III	220	220	220	220	220	400	400	400	400
	IV	300	300	300	300	300	500	500	500	500
	V	~	~	~	~	~	600	600	600	600
Nominal cooling capacity (kW)	4 rows of coils (return air)	115	123	138	157	170	191	220	256	286
	4 rows of coils (fresh air)	246	272	302	342	369	418	481	558	620
	6 rows of coils (return air)	142	160	173	197	211	239	276	318	354
	6 rows of coils (fresh air)	317	350	379	428	454	526	596	686	754
Nominal heating capacity (kW)	4 rows of coils (return air)	187	202	230	255	275	310	358	408	460
	4 rows of coils (fresh air)	293	326	362	406	439	502	574	656	730
	6 rows of coils (return air)	215	238	266	300	325	366	424	484	542
	6 rows of coils (fresh air)	339	377	418	474	507	574	666	766	854
Nominal cooling water flow (L/S)	4 rows of coils (return air)	5.48	5.86	6.57	7.48	8.10	9.10	10.48	12.19	13.62
	4 rows of coils (fresh air)	11.71	12.95	14.38	16.29	17.57	19.90	22.90	26.57	29.52
	6 rows of coils (return air)	6.76	7.62	8.24	9.38	10.05	11.38	13.14	15.14	16.86
	6 rows of coils (fresh air)	15.10	16.67	18.05	20.38	21.62	25.05	28.38	32.67	35.90
Nominal heating water flow (L/S)	4 rows of coils (return air)	4.51	4.87	5.55	6.15	6.63	7.48	8.64	9.84	11.10
	4 rows of coils (fresh air)	7.07	7.86	8.73	9.79	10.59	12.11	13.85	15.82	17.61
	6 rows of coils (return air)	5.19	5.74	6.42	7.24	7.84	8.83	10.23	11.68	13.07
	6 rows of coils (fresh air)	8.18	9.09	10.08	11.43	12.23	13.85	16.07	18.48	20.60
Coil	Type	Copper tube with a new type of wavy aluminum fins								
	Piece/inch	13								
	Working pressure (MPa)	1.6								
	Size of inlet/outlet water pipe connector	R 2-1/2	R 2-1/2	R 3	R 3	R3	R3	R3	R3	R3
	Size of condensate water pipe connector	R1-1/4								
Fan	Type/material	High-efficiency forward-pitched centrifugal fans with multiple wings/zinc-plated steel plates								
	Transmission	V-belt transmission								
	Fanning direction	Top								
Motor	Power supply	380V/3~50Hz								
	Type	3-phase asynchronous motor; insulation grade of F and protection grade of IP54								
	Motor power (kW)	I	~	~	~	~	7.5(7.5)	7.5(11)	11(11)	11(11)
		II	4.0(4.0)	4.0(4.0)	4.0(5.5)	4.0(5.5)	5.5(5.5)	7.5(7.5)	11(11)	11(11)
		III	4.0(4.0)	4.0(5.5)	5.5(5.5)	5.5(5.5)	5.5(7.5)	11(11)	11(11)	15(15)
		IV	4.0(5.5)	5.5(5.5)	5.5(7.5)	5.5(7.5)	7.5(7.5)	11(11)	11(15)	15(15)
Filter	Type	Thickness (mm)								
	Thickness (mm)	8/21								
Cabinet	Type	30mm-thick double-layer plates filled with polyurethane material foamed under high pressure for heat preservation								
Unit Dimensions	Length (mm)	2060	2250	2310	2480	2630	2770	2770	2930	3090
	Width (mm)	810	900	900	900	900	1010	1010	1010	1170
	Height (mm)	1740	1860	1920	1990	1990	2270	2590	2750	2810
Unit weight	4 rows of coils (kg)	537	649	674	779	807	968	1040	1196	1384
	6 rows of coils (kg)	567	682	710	820	851	1021	1099	1267	1461

Note:

- The above parameters are for standard units. However, EK can customize these parameters to meet special requirements from customers.
- Working conditions for cooling under nominal return air flow: dry bulb 27°C, wet bulb 19.5°C; working conditions for cooling under nominal fresh air flow: dry bulb 34°C, wet bulb 28°C; water temperature under nominal cooling capacity: inlet water 7°C, outlet water 12°C.
- Working conditions for heating under nominal return air flow: dry bulb 21°C; Working conditions for heating under nominal fresh air flow: dry bulb 0°C; water temperature under nominal heating capacity: inlet water 60°C, outlet water 50°C.
- Weight listed in the above table are net weight of units. Operation weight may post an increase of 20%.
- Parameters inside () are the power of units with 6 rows of coils.
- The coil loops for units with full return air ("R") and units with full fresh air ("F") may be different. Please specify the inlet air conditions while placing orders. EK can provide computer-aided model selection to meet special requirements. For detailed parameters, please refer to the model selection results.

Specifications for EKDW-S Jet Air Handling Unit

Model			EKDW 020S	EKDW 030S	EKDW 040S	EKDW 050S	EKDW 060S	EKDW 070S	EKDW 080H	EKDW 090S	EKDW 100S	EKDW 120S	
Nominal air flow (m³/h)			2000	3000	4000	5000	6000	7000	8000	9000	10000	12000	
Nominal cooling capacity (kW)	4 rows of coils (return air)		12	17	24	31	38	44	51	56	63	74	
	4 rows of coils (fresh air)		29	42	57	69	83	94	113	127	142	169	
	6 rows of coils (return air)		15	23	33	39	48	55	63	72	78	94	
	6 rows of coils (fresh air)		35	53	69	88	105	122	137	155	173	208	
Nominal heating capacity (kW)	4 rows of coils (return air)		19	30	41	50	61	71	83	93	103	122	
	4 rows of coils (fresh air)		33	49	66	82	99	115	133	148	161	197	
	6 rows of coils (return air)		23	36	48	60	72	84	96	108	120	144	
	6 rows of coils (fresh air)		38	57	77	95	114	132	150	169	188	224	
Nominal cooling water flow (L/S)	4 rows of coils (return air)		0.57	0.81	1.14	1.48	1.81	2.10	2.43	2.67	3.00	3.52	
	4 rows of coils (fresh air)		1.38	2.00	2.71	3.29	3.95	4.48	5.38	6.05	6.76	8.05	
	6 rows of coils (return air)		0.71	1.10	1.57	1.86	2.29	2.62	3.00	3.43	3.71	4.48	
	6 rows of coils (fresh air)		1.67	2.52	3.29	4.19	5.00	5.81	6.52	7.38	8.24	9.90	
Nominal heating water flow (L/S)	4 rows of coils (return air)		0.43	0.68	0.92	1.13	1.37	1.71	1.87	2.24	2.32	2.75	
	4 rows of coils (fresh air)		0.74	1.10	1.49	1.85	2.23	2.77	2.99	3.56	3.62	4.44	
	6 rows of coils (return air)		0.52	0.81	1.08	1.35	1.62	2.02	2.16	2.60	2.70	3.24	
	6 rows of coils (fresh air)		0.86	1.28	1.73	2.14	2.57	3.17	3.38	4.06	4.23	5.04	
Coil	Type		Copper tube with a new type of wavy aluminum fins										
	Piece/inch		13										
	Working pressure (MPa)		1.6										
	Size of inlet/outlet water pipe connector		R 1-1/2	R 1-1/2	R 1-1/2	R 1-1/2	R 1-1/2	R 2	R 2	R 2	R 2	R 2	
	Size of condensate water pipe connector		R1-1/4										
Fan	Type/material		High-efficiency forward-pitched centrifugal fans with multiple wings/zinc-plated steel plates										
	Transmission		V-belt transmission										
	Fanning direction		Downward horizontal/top										
Rang (number of nozzles)	4 rows of heat exchangers	I	10~20m(1)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	~	~
		II	20~30m(1)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)
		III	~	~	~	30~40m(1)	30~40m(2)	30~40m(1)	30~40m(1)	30~40m(1)	30~40m(1)	30~40m(2)	30~40m(2)
	6 rows of heat exchangers	I	10~20m(1)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	10~20m(2)	~	~
		II	20~30m(1)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)	20~30m(2)
		III	~	~	~	30~40m(1)	30~40m(2)	30~40m(1)	30~40m(1)	30~40m(1)	30~40m(1)	30~40m(2)	30~40m(2)
Motor power (kW)	4 rows of heat exchangers	I	0.55	0.75	0.75	1.1	1.5	1.5	1.5	2.2	~	~	
		II	0.75	1.1	1.1	1.5	2.2	2.2	2.2	3.0	3.0	4.0	
		III	~	~	~	2.2	3.0	3.0	3.0	4.0	5.5	5.5	
	6 rows of heat exchangers	I	0.75	1.1	1.1	1.1	1.5	1.5	1.5	3.0	~	~	
		II	1.1	1.5	1.5	1.5	2.2	2.2	2.2	3	3.0	4.0	
		III	~	~	~	2.2	3.0	3.0	3.0	4.0	5.5	5.5	
Filter	Type		Thickness (mm)										
	Thickness (mm)		8/21										
Cabinet	Type		30mm-thick double-layer plates filled with polyurethane material foamed under high pressure for heat preservation										
Unit Dimensions	Length (mm)		820	950	1010	1130	1260	1300	1500	1620	1650	1750	
	Width (mm)		1450	1450	1550	1550	1550	1600	1600	1600	1550	1550	
	Height (mm)		630	650	755	755	805	830	830	830	890	950	
Unit weight (kg)	4 rows of heat exchangers		135	149	179	195	222	247	282	300	369	389	
	6 rows of heat exchangers		139	156	187	204	232	260	297	316	388	411	

Note:

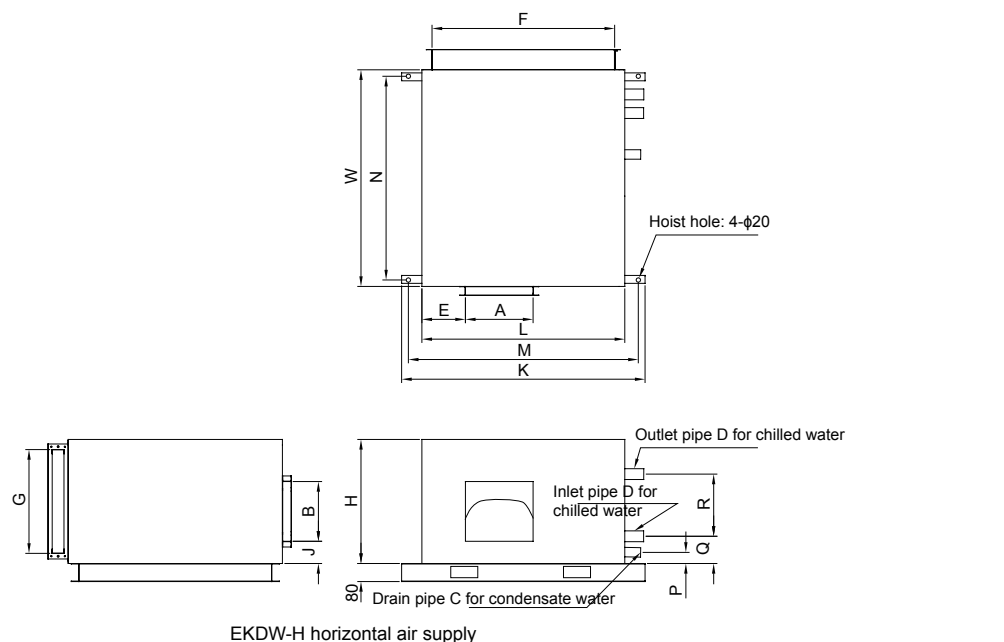
- The above parameters are for standard units. However, EK can customize these parameters to meet special requirements from customers.
- Working conditions for cooling under nominal return air flow: dry bulb 27°C, wet bulb 19.5°C; working conditions for cooling under nominal fresh air flow: dry bulb 34°C, wet bulb 28°C; water temperature under nominal cooling capacity: inlet water 7°C, outlet water 12°C.
- Working conditions for heating under nominal return air flow: dry bulb 21°C; Working conditions for heating under nominal fresh

air flow: dry bulb 0°C; water temperature under nominal heating capacity: inlet water 60°C, outlet water 50°C.

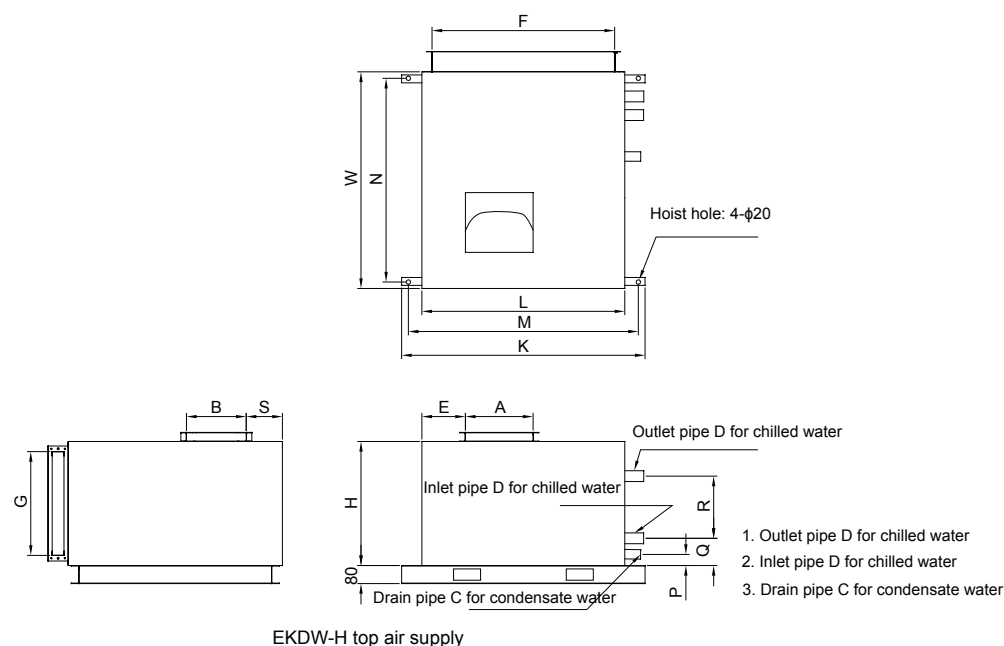
- Weight listed in the above table are net weight of units. Operation weight may post an increase of 20%.
- Parameters inside () are the power of units with 6 rows of coils.
- The coil loops for units with full return air ("R") and units with full fresh air ("F") may be different. Please specify the inlet air conditions while placing orders. EK can provide computer-aided model selection to meet special requirements. For detailed parameters, please refer to the model selection results.

Unit Dimensions

Dimensions of Horizontal Air Handling Units (EKDW020H ~ EKDW080H)



EKDW-H horizontal air supply

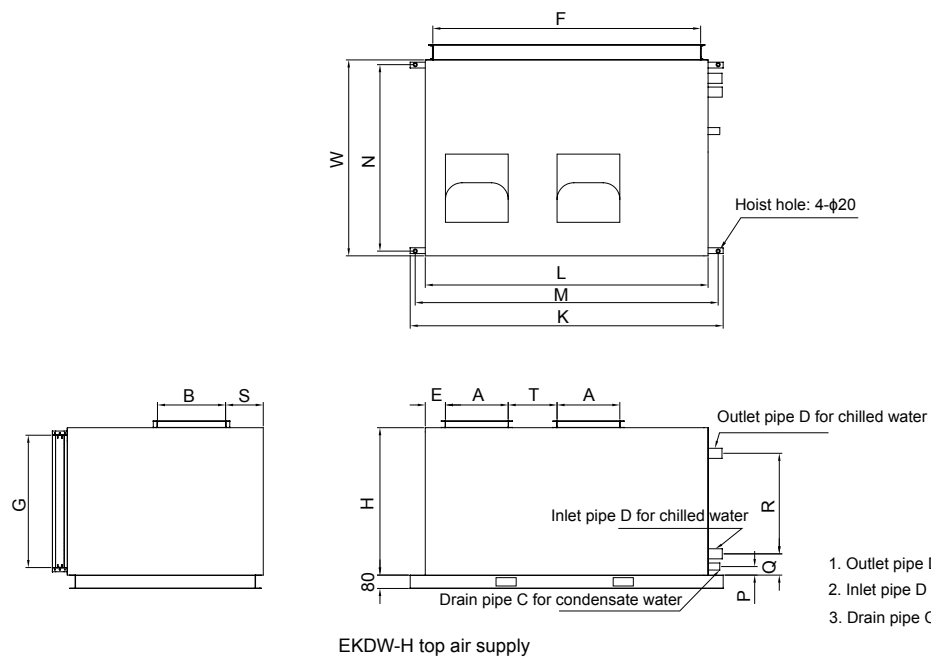
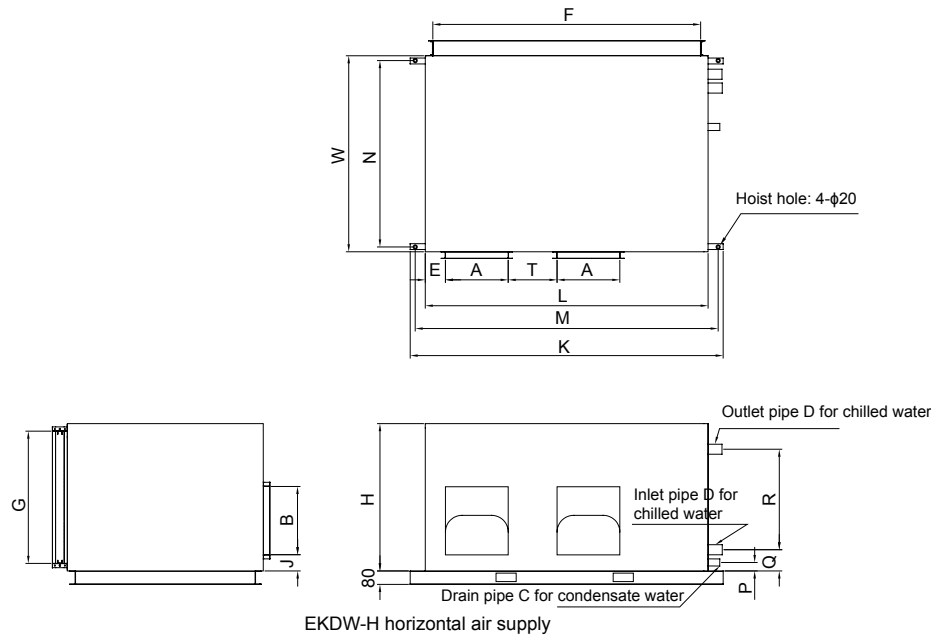


EKDW-H top air supply

Measurement: mm

Dimensions	Length	Width	Height	Size of return air inlet		Size of air supply inlet		Hoist size						Size of connection pipes			Inlet/outlet pipe for chilled water	Drain pipe for condensate water
Model	L	W	H	F	G	A	B	K	M	N	J	S	E	P	Q	R	D	C
EKDW020H	820	950	550	765	495	262	231	1000	940	883	95	148	145	55	123	297	R1-1/2	R1-1/4
EKDW030H	950	950	570	895	515	290	259	1130	1070	883	93	162	203	55	123	348	R1-1/2	R1-1/4
EKDW040H	1010	1050	675	955	620	333	292	1190	1130	983	101	201	168	55	123	449	R1-1/2	R1-1/4
EKDW050H	1130	1050	675	1075	620	312	344	1310	1250	983	101	245	250	55	123	449	R1-1/2	R1-1/4
EKDW060H	1260	1050	725	1205	670	398	344	1440	1380	983	101	217	304	55	123	500	R1-1/2	R1-1/4
EKDW070H	1300	1100	750	1245	695	375	407	1480	1420	1033	101	248	348	55	131	498	R2	R1-1/4
EKDW080H	1500	1100	750	1445	695	375	407	1680	1620	1033	101	246	449	55	131	498	R2	R1-1/4
EKDW090H	1620	1100	750	1565	695	473	407	1800	1740	1033	101	258	449	55	131	498	R2	R1-1/4

Dimensions of Horizontal Air Handling Units (EKDW100H ~ EKDW270H)



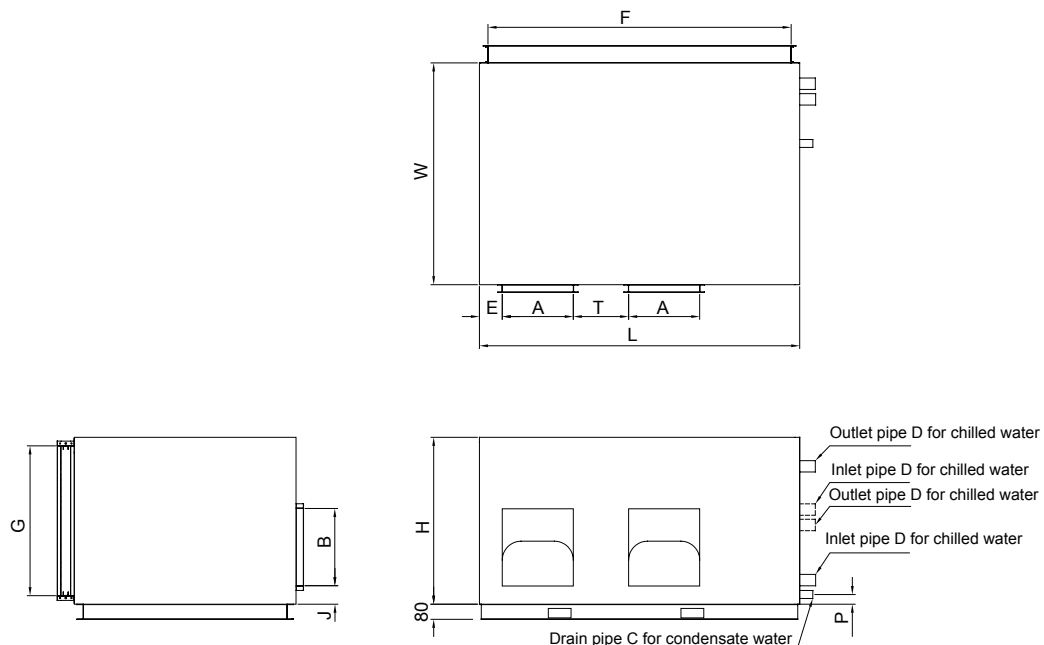
1. Outlet pipe D for chilled water
2. Inlet pipe D for chilled water
3. Drain pipe C for condensate water

Measurement: mm

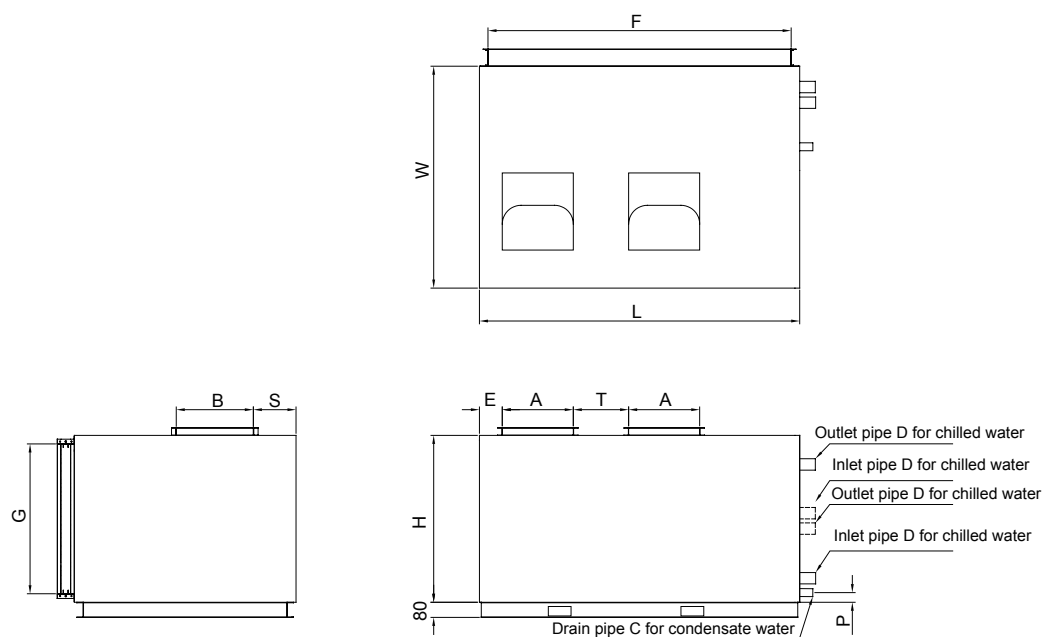
Dimensions	Length	Width	Height	Size of return air inlet		Size of air supply inlet		Hoist size							Size of connection pipes			Inlet/outlet pipe for chilled water	Drain pipe for condensate water
Model	L	W	H	F	G	A	B	K	M	N	J	S	E	T	P	Q	R	D	C
EKDW100H	1650	1050	810	1595	755	312	344	1830	1770	983	101	217	177	241	55	131	561	R2	R1-1/4
EKDW120H	1750	1050	870	1695	815	312	344	1930	1870	983	101	217	252	241	55	131	625	R2	R1-1/4
EKDW135H	1940	1050	870	1885	815	398	344	2120	2060	983	101	218	215	321	55	131	625	R2	R1-1/4
EKDW150H	2010	1090	940	1955	885	375	407	2190	2130	1023	101	258	244	292	55	139	672	R2-1/2	R1-1/4
EKDW180H	2060	1090	1060	2005	1005	375	407	2240	2180	1023	101	248	294	292	55	139	799	R2-1/2	R1-1/4
EKDW200H	2250	1250	1060	2195	1005	432	478	2430	2370	1183	107	309	298	341	55	139	799	R2-1/2	R1-1/4
EKDW220H	2300	1250	1120	2245	1065	432	478	2480	2420	1183	106	309	298	341	55	145	850	R3	R1-1/4
EKDW250H	2470	1250	1190	2415	1135	559	481	2650	2590	1183	106	309	156	456	55	145	913	R3	R1-1/4
EKDW270H	2620	1250	1190	2565	1135	559	481	2800	2740	1183	106	309	307	456	55	145	913	R3	R1-1/4

Unit Dimensions

Dimensions of Horizontal Air Handling Units (EKDW300H ~ EKDW450H)



EKDW-H horizontal air supply



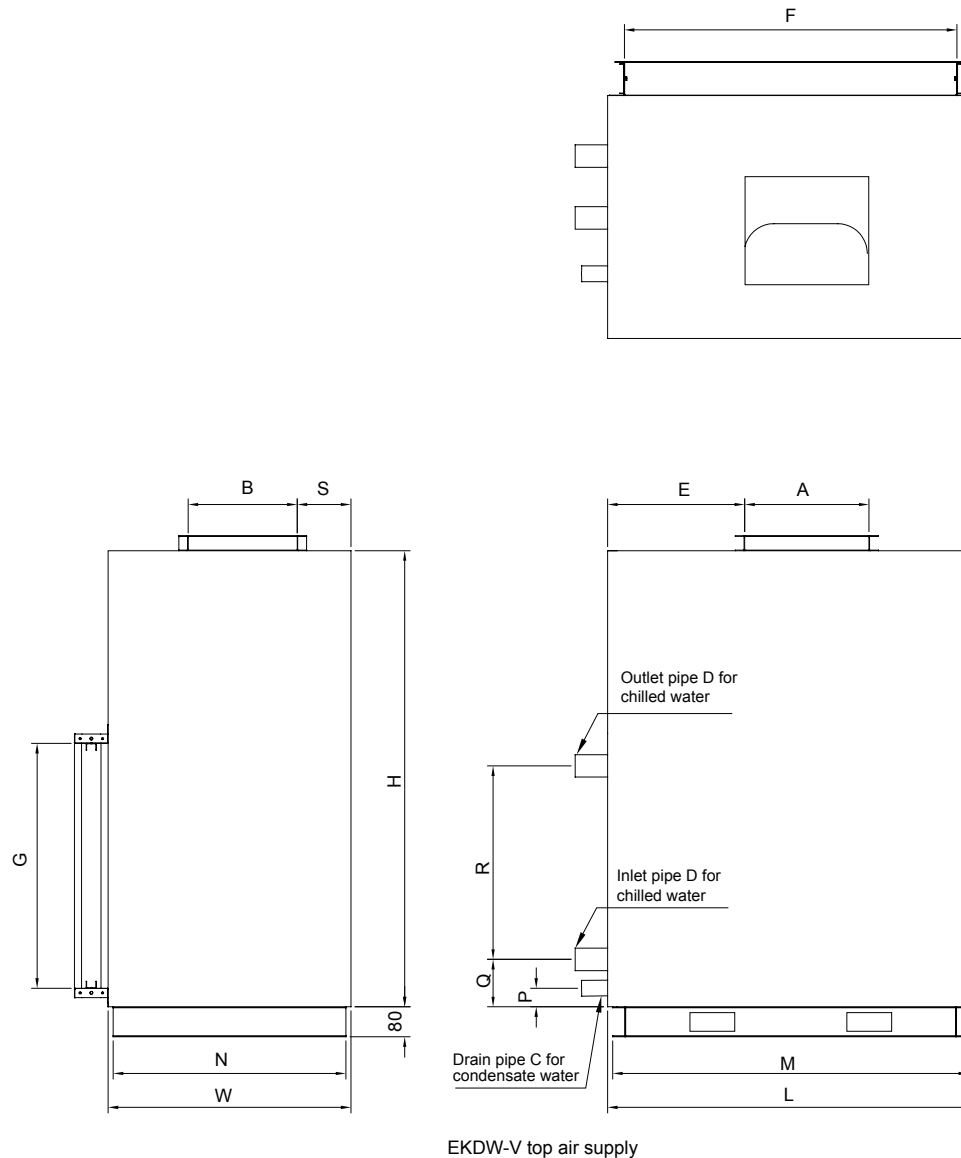
EKDW-H top air supply

Measurement: mm

Dimensions	Length	Width	Height	Size of return air inlet		Size of air supply inlet		Hoist size				Size of connection pipes	Inlet/outlet pipe for chilled water	Drain pipe for condensate water
Model	L	W	H	F	G	A	B	E	T	J	S	P	D	C
EDW300H	2770	1650	1330	2710	1270	557	478	262	458	70	330	100	R3	R1-1/4
EDW350H	2770	1650	1490	2710	1430	569	569	277	450	270	315	100	R3	R1-1/4
EDW400H	2930	1650	1650	2870	1590	569	569	357	450	270	315	100	R3	R1-1/4
EDW450H	2930	1810	1810	2870	1750	638	638	273	500	275	430	100	R3	R1-1/4

Note: "D" in the above figure is the diameter of inlet/out water pipe for units (EKDW020H ~ EKDW350H) with a single coil;
For units (EKDW400H ~ EKDW450H) with double coils, there are two sets of inlet/outlet water pipes with a diameter of "D".

Dimensions of Vertical Air Handling Units (EKDW40V ~ EKDW120V)



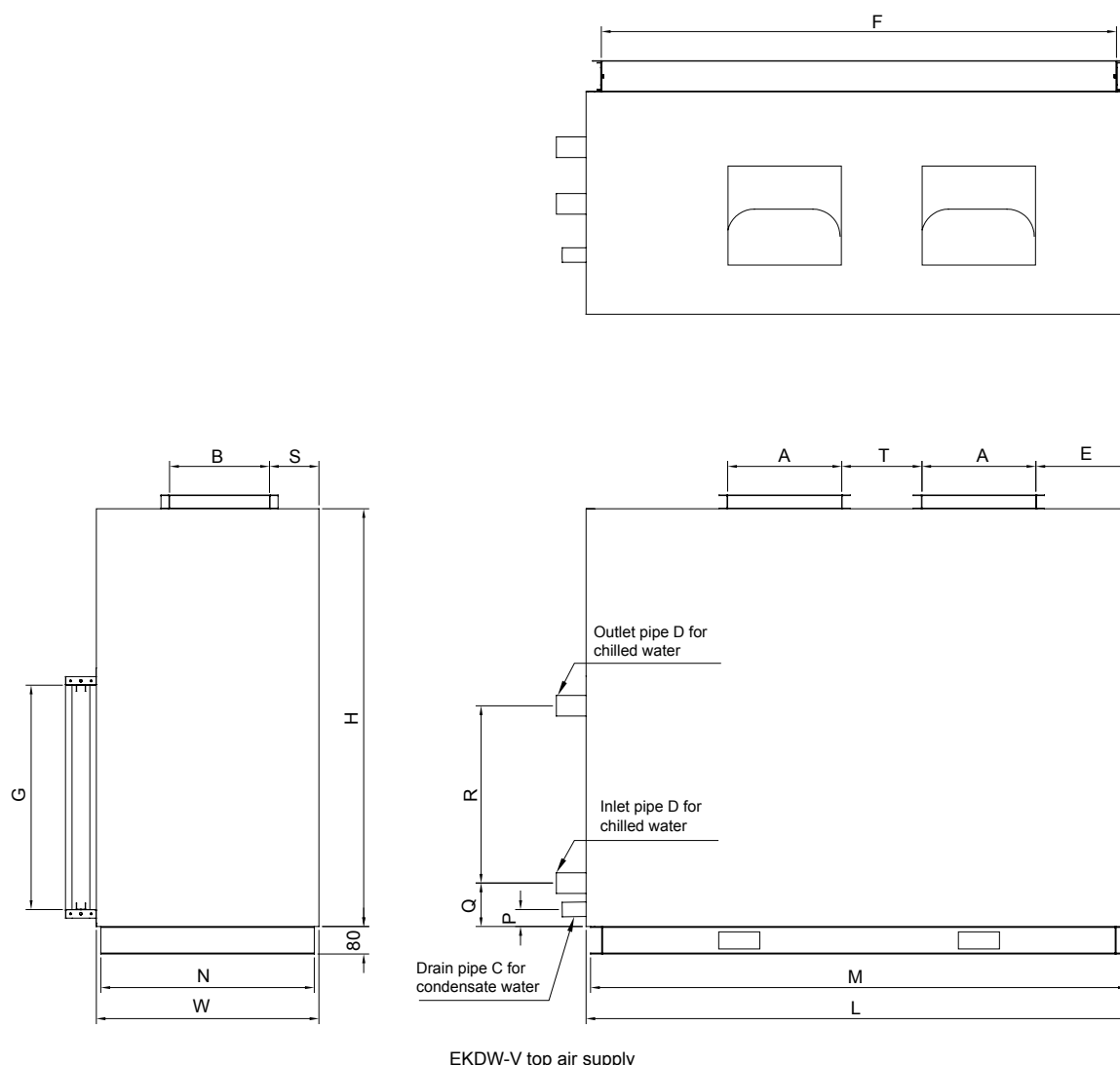
EKDW-V top air supply

Measurement: mm

Dimensions	Length	Width	Height	Size of return air inlet		Size of air supply inlet		Hoist size				Size of connection pipes			Inlet/outlet pipe for chilled water	Drain pipe for condensate water
Model	L	W	H	F	G	A	B	M	N	S	E	P	Q	R	D	C
EKDW040V	920	650	1190	865	640	333	292	890	620	143	448	50	131	510	R1-1/2	R1-1/4
EKDW050V	1030	650	1255	975	640	312	344	1000	620	70	517	50	131	510	R1-1/2	R1-1/4
EKDW060V	1200	650	1305	1145	690	398	344	1170	620	70	517	50	131	573	R1-1/2	R1-1/4
EKDW070V	1230	810	1410	1175	720	375	407	1200	780	146	515	50	131	561	R2	R1-1/4
EKDW080V	1280	810	1470	1225	785	375	407	1250	780	145	516	50	131	625	R2	R1-1/4
EKDW090V	1290	810	1530	1235	840	473	407	1260	780	146	514	50	131	688	R2	R1-1/4
EKDW100V	1330	900	1720	1275	910	432	481	1300	870	103	572	50	131	752	R2	R1-1/4
EKDW120V	1440	900	1780	1385	970	559	481	1410	870	103	622	50	131	815	R2	R1-1/4
EKDW135V	1580	900	1780	1525	970	559	481	1550	870	103	622	50	131	815	R2	R1-1/4

Unit Dimensions

Dimensions of Vertical Air Handling Units (EKDW150V ~ EKDW270V)

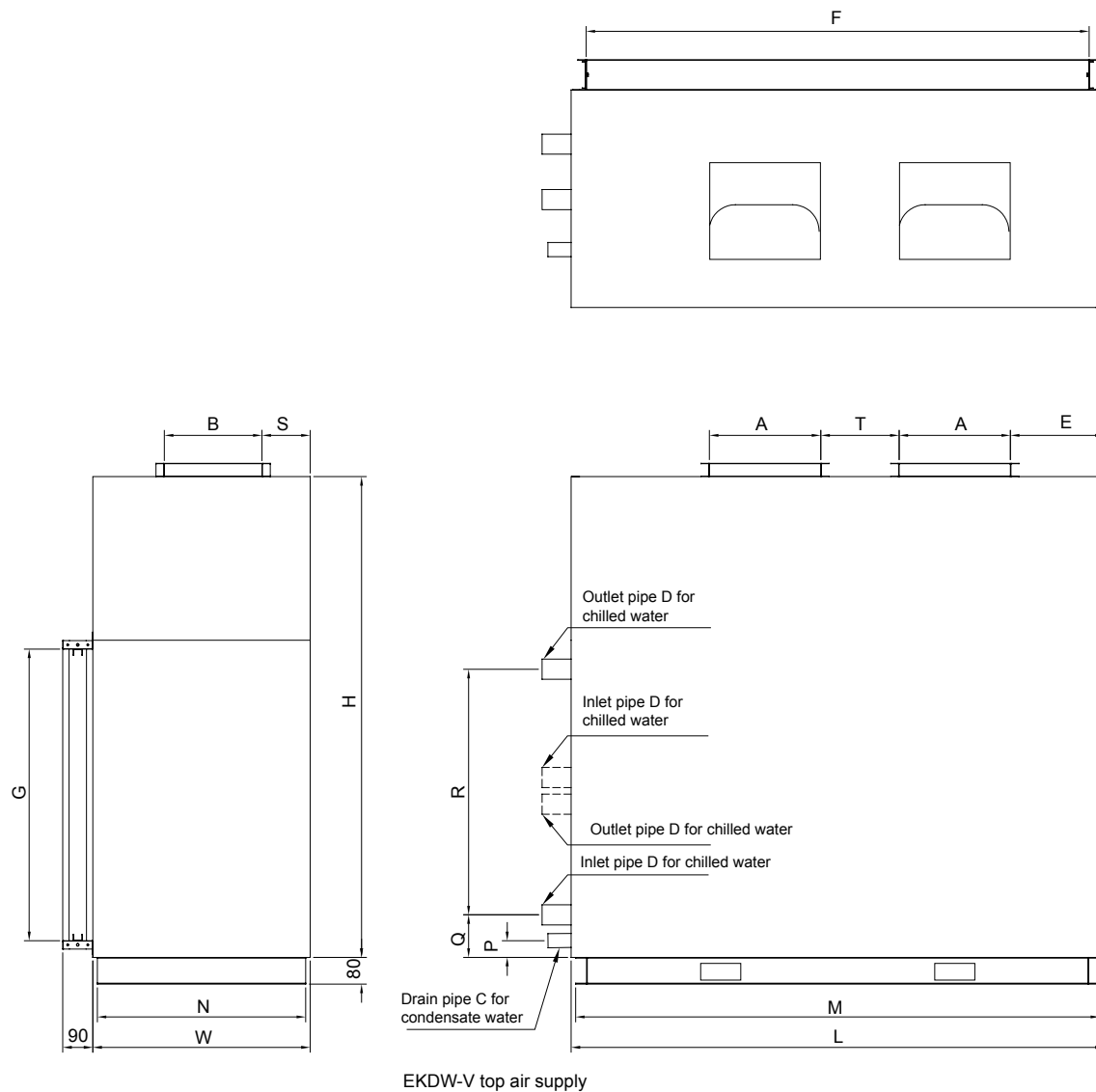


EKDW-V top air supply

Measurement: mm

Dimensions	Length	Width	Height	Size of return air inlet		Size of air supply inlet		Hoist size					Size of connection pipes			Inlet/outlet pipe for chilled water	Drain pipe for condensate water
Model	L	W	H	F	G	A	B	M	N	S	E	T	P	Q	R	D	C
EKDW150V	1870	810	1600	1815	910	375	407	1840	780	145	131	292	50	139	736	R2-1/2	R1-1/4
EKDW180V	2060	810	1660	2005	970	375	407	2030	780	145	339	292	50	139	799	R2-1/2	R1-1/4
EKDW200V	2250	900	1780	2195	970	432	481	2220	870	104	379	341	50	139	799	R2-1/2	R1-1/4
EKDW220V	2310	900	1840	2255	1030	432	481	2280	870	104	358	341	50	139	850	R3	R1-1/4
EKDW250V	2480	900	1910	2425	1105	559	481	2450	870	103	160	456	50	139	913	R3	R1-1/4
EKDW270V	2630	900	1910	2575	1105	559	481	2600	870	104	310	456	50	139	913	R3	R1-1/4

Dimensions of Vertical Air Handling Units (EKDW300V ~ EKDW450V)



EKDW-V top air supply

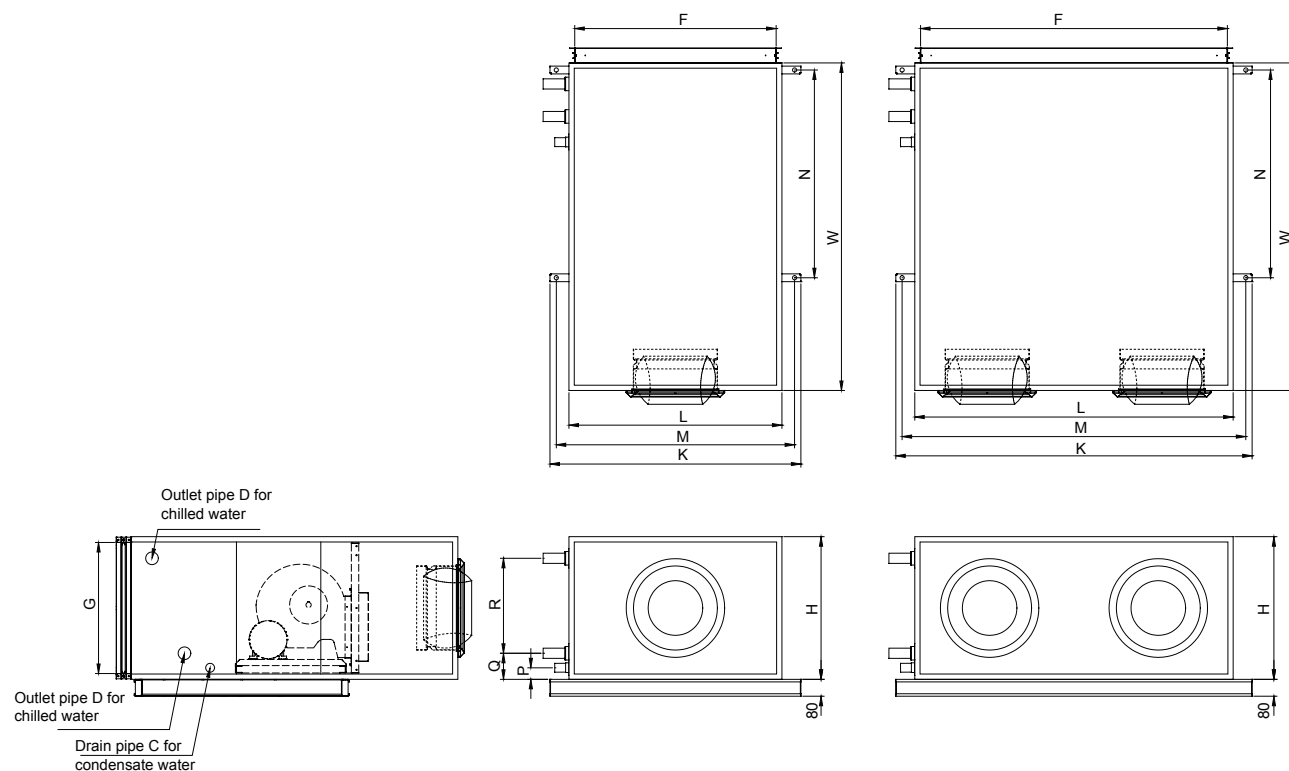
Measurement: mm

Dimensions	Length	Width	Height	Size of return air inlet		Size of air supply inlet		Hoist size			Size of connection pipes	Inlet/outlet pipe for chilled water	Drain pipe for condensate water
Model	L	W	H	F	G	A	B	E	T	S	P	D	C
EDW300V	2770	1010	2190	2710	1270	559	481	262	456	206	100	R3	R1-1/4
EDW350V	2770	1010	2510	2710	1405	572	572	274	446	132	100	R3	R1-1/4
EDW400V	2930	1010	2670	2870	1565	572	572	354	446	132	100	R3	R1-1/4
EDW450V	3090	1170	2730	3030	1565	638	638	353	500	197	100	R3	R1-1/4

Note: "D" in the above figure is the diameter of inlet/out water pipe for units (EKDW040V ~ EKDW350V) with a single coil;
For units (EKDW400V ~ EKDW450V) with double coils, there are two sets of inlet/outlet water pipes with a diameter of "D".

Unit Dimensions

Dimensions of Jet Air Handling Unit (EKDW020S~EKDW120S)



Measurement: mm

Dimensions	Length	Width	Height	Size of return air inlet		Hoist size				Size of connection pipes			Inlet/outlet pipe for chilled water	Drain pipe for condensate water
Model	L	W	H	F	G	K	M	N	J	P	Q	R	D	C
EKDW020S	820	1450	550	765	495	1000	940	1383	95	55	123	297	R1-1/2	R1-1/4
EKDW030S	950	1450	570	895	515	1130	1070	1383	93	55	123	348	R1-1/2	R1-1/4
EKDW040S	1010	1550	675	955	620	1190	1130	1483	101	55	123	449	R1-1/2	R1-1/4
EKDW050S	1130	1550	675	1075	620	1310	1250	1483	101	55	123	449	R1-1/2	R1-1/4
EKDW060S	1260	1550	725	1205	670	1440	1380	1483	101	55	123	500	R1-1/2	R1-1/4
EKDW070S	1300	1600	750	1245	695	1480	1420	1533	101	55	131	498	R2	R1-1/4
EKDW080S	1500	1600	750	1445	695	1680	1620	1533	101	55	131	498	R2	R1-1/4
EKDW090S	1620	1600	750	1565	695	1800	1740	1533	101	55	131	498	R2	R1-1/4
EKDW100S	1650	1550	810	1595	755	1830	1770	1483	101	55	131	561	R2	R1-1/4
EKDW120S	1750	1550	870	1695	815	1930	1870	1483	101	55	131	625	R2	R1-1/4

Considerations for Placing Orders

- Please specify the model, specification, quantity, working conditions of the unit (s) and any special requirements in detail while placing orders.
- Besides standard total external pressure, the total external pressure of this series of units can also be customized as per requirements from customers. Please specify your requirement on total external pressure while placing orders.
- How to Tell Right-oriented Connection Pipes from Left-oriented Ones
Please specify the orientation of inlet/outlet water pipes while placing orders. When you face toward the air outlet (counter air current), connection pipes on the left are left oriented and vice versa, as shown in Figure 1 ~ 3. For cooling water pipes, L represents "left" and R represents "right". The condensate water pipes are on the same side with cooling water pipes.

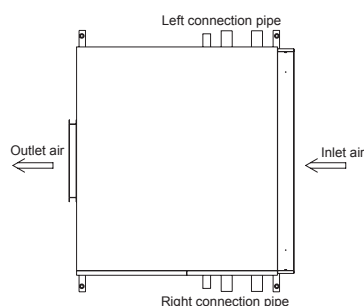


Figure 1 EKDW-H horizontal units with horizontal air supply

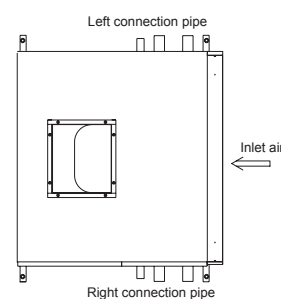


Figure 2 EKDW-H horizontal units with top air supply

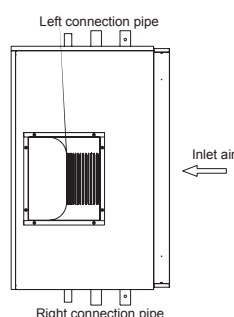
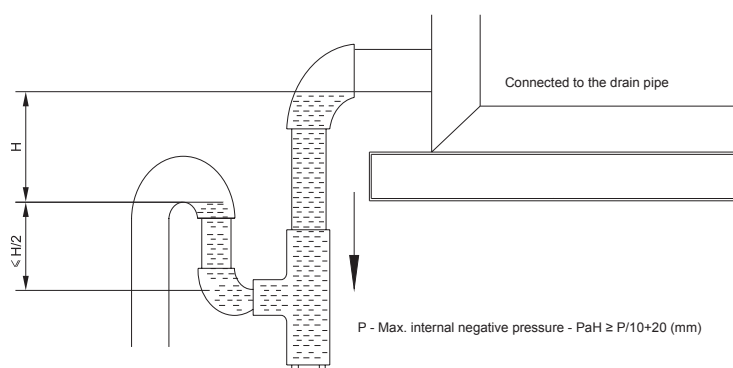


Figure 3 EKDW-V horizontal units with top air supply

Considerations for Installation

During unit installation, a proper water seal is needed to ensure smooth discharge of condensate water, as shown in Figure 4.



Optional Parts

Available Combinations of Optional Functional Sections

Functional section	Standard configuration			Optional functional section				
	Primary efficiency filter	Cooled coil	Fan	Heating coil	Wet film humidifier	Electric heater	Bag-type filter with medium efficiency	Blending section
Combination 1	√	√	√	√				
Combination 2	√	√	√		√			
Combination 3	√	√	√			√		
Combination 4	√	√	√				√	
Combination 5	√	√	√					√
Combination 6	√	√	√	√			√	
Combination 7	√	√	√	√				√
Combination 8	√	√	√	√			√	√
Combination 9	√	√	√		√		√	
Combination 10	√	√	√		√			√
Combination 11	√	√	√		√		√	√
Combination 12	√	√	√			√	√	
Combination 13	√	√	√			√		√
Combination 14	√	√	√			√	√	√

Note:

1. Non-woven fabric filters are available for your choice (nylon screen filter is the standard configuration).
2. Unit power and total external pressure may be changed.
3. The width of the unit "W" may be increased as necessary.

Purification and Sterilization Apparatus (Optional)

Aluminum Screen Filter

- Used to filter large particles, such as smog;
- The aluminum frame helps to reduce maintenance cost;
- The precision aluminum screen is easy to install and clean.

Electronic Purification Apparatus

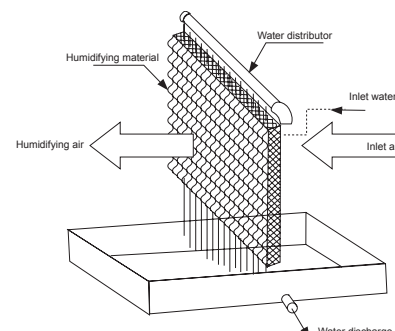
- A high-voltage static dedusting technology is applied to effectively filter all sorts of dust, bacteria, virus and harmful gas;
- Multi-layered filtering provides multi-layered protection;
- A modular design can meet various air flow requirements.

Photocatalyst Ultraviolet Sterilamp

- The sterilamp can effectively dampening the growth of bacteria and mildew and thereby eliminating odor caused by such growth;
- The photocatalyst itself is stable and unconsumed, and therefore can be effective for a long time;
- The sterilamp can effectively degrade contaminants such as formaldehyde, toluene and ammonia into harmless and nontoxic materials, and does not cause secondary contamination.

Wet film humidifier

Tap water purified by the solenoid valve flows directly into the water distributor at the top of the humidifier through water pipes and then flows down to wet the wet film under the pull of gravity. Residual water collected by the water collector flows into the sewage through the drainpipe (water will not be recycled). Hot air passing through the wet film is dampened and cooled (equal enthalpy wetting). During this course, some water in the wet film is evaporated without consuming additional energy. The work principle of wet film humidifier with direct water flow is shown in the figure on the right side.

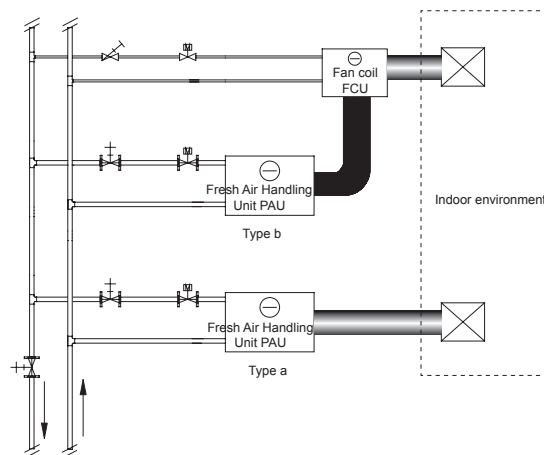


Fresh Air Handling Unit & Fan Coil System

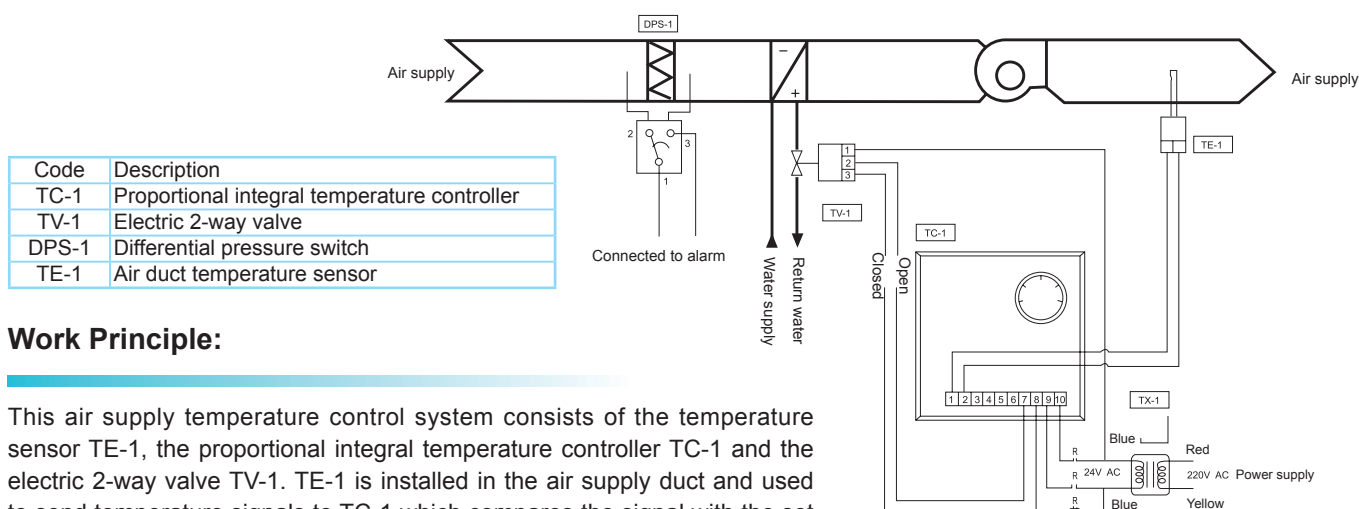
It is flexible and space effective, and can modulate indoor air independently. As customers attached more importance to indoor air quality, this system has found its way into various types of buildings, such as guest houses, hotels and office buildings.

Fresh air handling unit & fan coil system consists of two components, namely the indoor fan coil unit which is used for indoor cooling/heating and the fresh air handling unit which is used for pre-cooling and preheating of outdoor fresh air (only processes fresh air). Some fresh air handling units can be equipped with humidifiers and air purification/sterilization apparatus to meet high requirements on indoor air quality.

Fresh air can be supplied in two ways, namely direct supply which directly supplies processed fresh air into rooms (a in the figure on the right) and indirect supply which supplies processed fresh air into rooms through terminal equipment (b in the figure on the right).



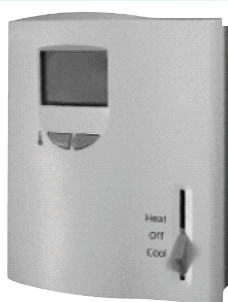
Dual Pipe Proportional Integral Control for Fresh Air Handling Units



Work Principle:

This air supply temperature control system consists of the temperature sensor TE-1, the proportional integral temperature controller TC-1 and the electric 2-way valve TV-1. TE-1 is installed in the air supply duct and used to send temperature signals to TC-1 which compares the signal with the set value and outputs signals to continuously modulate the openness of TV-1 so that the temperature detected by TE-1 always falls into the set range. The differential pressure switch DPS-1 detects the pressure drop of the filter and compares it with the set value. An alarm is triggered if the value detected exceeds the set value.

The unit can be equipped with temperature controllers, water valves, pressure gauges and differential pressure switches (optional)



Temperature controller



Differential pressure switch

Quick Reference for Maximum Total External Pressure

Motor Power of EKDW Series Cabinet Air Handling Units - Quick Reference for Maximum Total External Pressure

Model		EKDW 020H	EKDW 030H	EKDW 040H	EKDW 050H	EKDW 060H	EKDW 070H	EKDW 080H	EKDW 090H	EKDW 100H	EKDW 120H	EKDW 135H	EKDW 150H	EKDW 180H	EKDW 200H	EKDW 220H	EKDW 250H	EKDW 270H
Nominal air flow (m³/h)		2000	3000	4000	5000	6000	7000	8000	9000	10000	12000	13500	15000	18000	20000	22000	25000	27000
Rows of coils	Motor power (kW)	Total external pressure (Pa)																
4	0.37	140																
	0.55	280	115															
	0.75	420	235	200	129													
	1.1	550	415	380	329	160	180											
	1.5		615	540	509	320	340	245	180									
	2.2			680	809	550	590	485	360	315								
	3.0				829	680	820	785	570	515	380	230	270					
	4.0									725	600	400	450	295	240	170	155	
	5.5									775	850	630	700	525	430	50	315	255
	7.5												780	815	660	580	485	445
	11															930	705	705
6	0.37																	
	0.55	215																
	0.75	355	159	125														
	1.1	465	339	305	243													
	1.5		539	465	423	240	260	170	110									
	2.2			610	723	470	510	410	290	245								
	3.0				743	600	740	710	500	445	305	160	200					
	4.0									655	525	330	380	220	170			
	5.5									705	775	560	630	450	360	280	245	180
	7.5												710	740	590	510	415	370
	11															860	635	630

Model		EKDW 040V	EKDW 050V	EKDW 060V	EKDW 070V	EKDW 080V	EKDW 090V	EKDW 100V	EKDW 120V	EKDW 135V	EKDW 150V	EKDW 180V	EKDW 200V	EKDW 220V	EKDW 250V	EKDW 270V
Nominal air flow (m³/h)		4000	5000	6000	7000	8000	9000	10000	12000	13500	15000	18000	20000	22000	25000	27000
Rows of coils	Motor power (kW)	Total external pressure (Pa)														
4	0.37															
	0.55															
	0.75	180	115													
	1.1	360	315	165	185	100										
	1.5	520	495	325	345	250	185	125								
	2.2		795	555	595	490	365	315	245	150						
	3.0		815	685	825	790	575	545	415	340	275					
	4.0							805	585	520	455	295	240	170	155	
	5.5								765	750	705	525	430	350	315	255
	7.5										785	815	660	580	485	445
	11													930	705	705
6	0.37															
	0.55															
	0.75	95	140													
	1.1	275	340	115												
	1.5	435	520	250	275	180	110									
	2.2		820	480	525	420	290	245	170							
	3.0		840	610	755	720	500	475	340	270	200					
	4.0							735	510	450	380	220	170	100		
	5.5								690	680	630	450	360	280	245	180
	7.5										710	740	590	510	415	370
	11													860	635	630

Model		EKDW300H	EKDW350H	EKDW400H	EKDW450H	EKDW300V	EKDW350V	EKDW400V	EKDW450V
Nominal air flow (m³/h)		30000	35000	40000	45000	30000	35000	40000	45000
Rows of coils	Motor power (kW)	Total external pressure (Pa)							
4	5.5	180				180			
	7.5	370	250			370	250		
	11	650	520	365	320	650	520	365	320
	15		830	685	600		830	685	600
	18.5				790				790
6	5.5	120				120			
	7.5	310	180			310	180		
	11	590	450	300	250	590	450	300	250
	15		760	620	530		760	620	530
	18.5				720				720

Measurement Conversion Table

Measurement Conversion Table

Length	M	mm	in	ft	mile
	1	1x10 ³	39.37	3.281	6.214x10 ⁻⁴
	0.3048	304.8	12	1	1.578x10 ⁻⁵
	1x10 ⁻³	1	0.0394	3.281x10 ⁻³	6.214x10 ⁻⁷
	0.0254	25.4	1	0.08333	1.578x10 ⁻⁵
	1.609x10 ³	1.609x10 ⁶	6.336x10 ⁴	5280	1
Area	m ²	hm ²	in ²	ft ²	milK ²
	1	1x10 ⁻⁴	1.55x10 ³	10.76	3.861x10 ⁻⁷
	0.0929	9.29x10 ⁻⁶	144	1	3.587x10 ⁻⁸
	2.59x10 ⁶	258.9	4.0145x10 ⁹	2.7878x10 ⁷	1
Volume	m ³	L	US gal	UK gal	ft ³
	1	1000	264.17	219.97	35.315
	1x10 ⁻³	1	0.2642	0.22	0.0353
	3.785x10 ⁻³	3.7854	1	0.8327	0.1337
	4.546x1 ⁻³	4.546	1.20095	1	0.1605
	2.832x10 ⁻²	28.316	7.481	6.229	1
Weight	G	kg	t	lb	Slug
	1	1x10 ⁻³	1x10 ⁻⁶	2.205x10 ⁻³	0.0353
	1x10 ³	1	1x10 ⁻³	2.205	35.274
	1x10 ⁶	1x10 ³	1	2.205x10 ³	3.527x10 ⁴
	453.592	0.4536	4.536x10 ⁻⁴	1	16
	28.35	0.0283	2.83x10 ⁻⁵	0.0625	1
Pressure	Pa	mmH ₂ O	atm	lb/in ²	in.Hg
	1	0.102	9.8692x10 ⁻⁶	1.4504x10 ⁻⁴	2.953x10 ⁻⁴
	9.807	1	9.678x10 ⁻⁵	1.422x10 ⁻³	2.89x10 ⁻³
	101325	10332	1	14.696	29.921
	6894.8	703.06	0.068	1	2.036
	3386.39	345.32	0.0334	0.4911	1
Energy	J	kJ	kW•h	kcal	Btu
	1	1x10 ⁻³	2.778x10 ⁻⁷	2.389x10 ⁻⁴	9.478x10 ⁻⁴
	1x10 ³	1	2.778x10 ⁻⁴	0.2389	0.9478
	3.6x10 ⁶	3600	1	860.1	3411
	4186.8	4.1868	1.163x10 ⁻³	1	3.968
	1055.1	1.0551	2.93x10 ⁻⁴	0.252	1
Power	W	kW	kcal/h	Btu/h	RT
	1	1x10 ⁻³	0.8604	3.412	2.843x10 ⁻⁴
	1x10 ³	1	860.4	3412	0.2843
	1.163	1.1622x10 ⁻³	1	3.9657	3.30x10 ⁻⁴
	0.293	2.93x10 ⁻⁴	0.2522	1	8.33x10 ⁻⁵
	3517	3.517	3024	12000	1
Flow	L/s	m ³ /s	m ³ /h	ft ³ /s	UK gal/s
	1	1x10 ⁻³	3.6	0.0353	0.22
	1x103	1	3600	35.3147	219.97
	0.2778	2.778x10 ⁻⁴	1	9.81x10 ⁻³	0.611
	28.317	0.0283	101.941	1	6.2288
	4546	4.546x10 ⁻³	16.416	0.1605	1



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EK Iran's Distributor

Tahviah Sam Industrial Group

Add: Tahviah Sam Bldg., NO.26, East 14th St., Beyhaghi Blv., Arjantin Sq., Tehran, Iran

Tel: +9821 88526010

Fax: +9821 88526034

Email: info@tahviehsam.ir

EK China

Guangdong EuroKlimat Air-Conditioning & Refrigeration Co., Ltd.

Add: EuroKlimat Industrial Park, Huangjiang Dongguan Guangdong China 523766

Tel: +86 769 8366 0888

Fax: +86 769 8362 2528

EK Italy

Add: Euroklimat S.p.A. via Liguria, 8 - 127010 Siziano (PV)

Tel: (39).0382610282

Fax: (39).0382617782



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