

## 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 (m <sup>3</sup> /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(1.5)	1.1(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)	1.5(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 (m <sup>3</sup> /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	
Nominal heating water flow (L/S)	4 rows of coils (return air)	12.76	15.29	16.52	17.86	20.67	21.86	25.05	28.38	32.67	35.90	
	4 rows of coils (fresh air)	3.44	4.19	4.55	5.07	5.70	6.24	7.48	8.64	9.84	11.10	
	6 rows of coils (return 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 (fresh air)	4.12	4.84	5.36	5.94	6.71	7.02	8.83	10.23	11.68	13.07	
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)	5.5(7.5)	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)	7.5(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)	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:

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- Weight listed in the above table are net weight of units. Operation weight may post an increase of 20%.
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