AIR HANDLING UNIT

ZK 03~200



AIR HANDLING UNIT

Cooling capacity from 15.4 to 1780 KW
Heating capacity from 27.5 to 2718 KW

Characteristics

Modular and Reasonable Design

Frame structure and modular design, which make compounding, design and model selection more convenient. Internal components configuration of this series go through thermal analysis, and internal airflow is strictly measured, ensuring reasonable layout.

Full range of specification and multi functions

Air volume of this series ranges from 3,000 to 120,000 m^3/h, the basic 22 functional segments are suitable for various cases where have requirements for air conditioning adjustment.

Abundant Compounding and Selection

This series of unit are recommended to provide 5400 basic combinations, which is convenient for users' direct use and engineers' design.

Optimal design and High Cost-efficiency

Computer aid optimized design and computer weighted average calculation of energy efficiency/unit volume cooling capacity/unit weight cooling capacity provide the most optimum power consumption, weight, size and price.

High-quality materials ensures high quality products

Clean and smooth cabinet surface prevents dust and bacteria sediment. Internal rustproof insulation material won't pollute air supply. The units are suitable for areas having high cleanness requirements such as hospital, electronic factories, food processing factory and pharmaceutical factory.

Reasonable structure for transport convenience

Aluminum alloy framework with the special mold processing aluminum prong provides precise assembling size, convenient segments assembling, construct fastness and easily transportation.

Precise data and complete parameters

Accurate and reliable data are provided based on both of actual test and computer calculating. The parameters in special working conditions are also provided.

Available configurations

ZK W 03 - JT - L 4 - 1
(1) (2) (3) (4) (5) (6)

(1) Horizontal structure
(2) Rated airflow: ×1000m^3/h
(3) Metal structure:
T Current air return working condition
X Fresh air working condition
(4) Direction of Nozzle
L Left hand side
R Right hand side
(5) Coil rows of heat exchanger:4,6,8
(6) Power Supply:
1 220/1/50
2 380/3/50
3 230/1/60
4 460/3/60
5 220/3/60
6 Other power supply

Applications



Functions and features



Air flow direction judgment method

Method 1:

Face the unit operation side, the unit with air flows from left to right is Right unit; flows from right to left is Left unit;

For floor standing units, depends on the air flow direction through the coil.

The 'operation side' means the maintenance door or water pipe side. Normally the maintenance door, water connection pipe and humidifier connector etc are installed at same side.

Method 2:

Face the air inlet side and make the sight along with air flow direction. The unit with left side cooling/heating media inlet/outlet water pipe is Left unit,vice versa.

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Return air working condition performance parameters

Model		Rated air flow	Rated cooling capacity	Rated heating capacity	Cold water		Hot water	
		m^3/h	KW	KW	Water flow (m^3/h)	Resistance (KPa)	Water flow (m^3/h)	Resistance (KPa)
ZKW03-JT	4 rows	3000	15.4	27.5	2.63	9.0	2.37	7.4
	6 rows		22.4	34.4	3.83	28.6	2.97	17.6
	8 rows		25.9	40.6	4.43	51.3	3.51	32.7
ZKW04-JT	4 rows	4000	20.6	34.5	3.53	8.9	2.98	6.4
	6 rows		29.9	46.0	5.12	28.0	3.97	17.2
	8 rows		34.6	53.5	5.92	50.1	4.62	31.2
ZKW05-JT	4 rows	5000	24.2	44.2	4.14	12.9	3.82	11.1
	6 rows		37.0	58.3	6.34	45.1	5.04	29.1
	8 rows		43.0	67.5	7.35	81.2	5.83	52.0
ZKW06-JT	4 rows	6000	32.1	57.4	5.49	23.8	4.96	19.6
	6 rows		45.6	70.8	7.80	71.5	6.11	45.0
	8 rows		48.3	78.4	8.35	14.2	6.78	9.5
ZKW07-JT	4 rows	7000	37.5	67.1	6.42	23.6	5.79	19.4
	6 rows		53.2	82.7	9.11	70.9	7.15	44.6
	8 rows		56.5	91.6	9.76	14.0	7.92	9.4
ZKW08-JT	4 rows	8000	43.0	76.7	7.37	25.3	6.63	20.8
	6 rows		61.0	92.4	10.44	75.8	7.99	45.6
	8 rows		66.5	105.0	11.50	15.8	9.06	10.1
ZKW09-JT	4 rows	9000	48.7	86.5	8.33	27.0	7.48	22.0
	6 rows		66.0	102.0	11.30	74.2	8.78	45.9
	8 rows		73.1	116.0	12.63	16.0	10.05	10.4
ZKW10-JT	4 rows	10000	55.2	97.0	9.45	35.7	8.38	28.5
	6 rows		69.5	107.0	12.00	11.1	9.21	6.7
	8 rows		84.6	130.0	14.62	22.0	11.26	13.5
ZKW12-JT	4 rows	12000	68.4	118.0	11.71	58.3	10.21	45.0
	6 rows		90.3	131.0	15.60	19.9	11.29	10.8
	8 rows		98.5	156.0	17.01	31.9	13.47	20.6
ZKW15-JT	4 rows	15000	82	140.0	14.08	9.5	12.11	7.2
	6 rows		111	170.0	19.17	26.6	14.69	16.2
	8 rows		134	196.0	22.99	51.1	16.98	29.0
ZKW20-JT	4 rows	20000	105	183	17.91	68.4	15.78	53.9
	6 rows		154	232	26.58	28.7	20.07	17.0
	8 rows		167	262	28.81	45.5	22.64	29.0
ZKW25-JT	4 rows	25000	117	230	20.04	74.7	19.90	73.7
	6 rows		180	299	31.19	34.3	25.87	24.3
	8 rows		211	330	36.46	62.6	28.49	39.5
ZKW30-JT	4 rows	30000	174	289	30.03	22.8	25.00	16.2
	6 rows		222	339	38.42	56.1	29.32	34.0
	8 rows		258	400	44.54	13.1	34.57	8.2
ZKW35-JT	4 rows	35000	206	340	35.50	24.1	29.40	19.2
	6 rows		273	408	47.10	47.7	35.30	33.8
	8 rows		316	479	54.10	72.7	41.40	52.8
ZKW40-JT	4 rows	40000	240	393	41.48	41.4	33.93	28.6
	6 rows		288	445	49.77	27.2	38.49	17.0
	8 rows		352	540	60.83	23.4	46.68	14.4
ZKW45-JT	4 rows	45000	271	442	46.80	43.5	38.22	30.0
	6 rows		325	502	56.14	28.6	43.37	17.8
	8 rows		397	608	68.55	24.6	52.56	15.1

Model		Rated air flow	Rated cooling capacity	Rated heating capacity	Cold water		Hot water	
		m^3/h	KW	KW	Water flow (m^3/h)	Resistance (KPa)	Water flow (m^3/h)	Resistance (KPa)
ZKW50-JT	4 rows	50000	301	492	52.00	43.50	42.47	30.00
	6 rows		391	587	67.64	33.50	50.68	19.80
	8 rows		441	676	76.17	24.60	58.40	15.10
ZKW60-JT	4 rows	60000	368	595	63.58	64.00	51.45	43.40
	6 rows		478	710	82.53	48.70	61.35	28.40
	8 rows		536	817	92.55	35.80	70.55	21.80
ZKW70-JT	4 rows	70000	429	695	74.22	64.30	60.03	43.70
	6 rows		557	829	96.29	49.00	71.59	28.50
	8 rows		625	953	108.00	36.00	82.31	21.90
ZKW80-JT	4 rows	80000	492	795	85.00	66.60	68.69	45.10
	6 rows		638	948	110.30	51.10	81.94	29.70
	8 rows		715	1090	123.60	37.20	94.14	22.70
ZKW90-JT	4 rows	90000	519	869	89.70	12.20	75.09	8.80
	6 rows		697	1050	120.50	33.30	90.70	19.60
	8 rows		809	1229	138.50	58.90	106.20	35.90
ZKW100-JT	4 rows	100000	563	950	97.22	15.10	82.10	11.10
	6 rows		786	1175	135.70	44.00	101.50	25.70
	8 rows		906	1371	155.10	77.00	118.50	46.60
ZKW120-JT	4 rows	120000	685	1149	118.00	18.50	99.30	13.40
	6 rows		951	1417	164.00	53.20	122.00	30.80
	8 rows		1093	1650	187.00	92.30	143.00	55.60
ZKW140-JT	4 rows	140000	815	1353	141.00	24.70	117.00	17.50
	6 rows		1123	1664	194.00	69.80	144.00	40.10
	8 rows		1206	1870	208.00	14.20	162.00	8.90
ZKW160-JT	4 rows	160000	952	1564	165.00	35.80	135.00	25.00
	6 rows		1240	1866	214.00	27.70	161.00	16.40
	8 rows		1400	2154	242.00	20.40	186.00	12.60
ZKW180-JT	4 rows	180000	1082	1768	187.00	43.30	153.00	29.90
	6 rows		1408	2110	243.00	33.40	182.00	19.70
	8 rows		1586	2433	274.00	24.50	210.00	15.10
ZKW200-JT	4 rows	200000	1221	1980	211.00	58.10	171.00	39.60
	6 rows		1586	2362	274.00	44.60	204.00	26.10
	8 rows		1780	2718	308.00	32.60	235.00	19.90

Note:
The data in the table refers to the values under working condition.
Cooling rated conditions: air inlet 27°C(DB)/19.5°C(WB). Inlet water 7°C, outlet water temperature difference 5°C.
Heating rated conditions: air inlet 15°C(DB), hot water inlet 60°C, water inlet/outlet temperature difference 10 °C.

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Fresh air working condition performance parameters

Model		Rated air flow	Rated cooling capacity	Rated heating capacity	Cold water		Hot water	
		m^3/h	KW	KW	Water flow (m^3/h)	Resistance (KPa)	Water flow (m^3/h)	Resistance (KPa)
ZKW03-JX	4 rows	3000	38.8	33.6	6.63	53.2	2.90	10.9
	6 rows		45.9	38.5	7.94	14.4	3.33	2.7
	8 rows		50.6	46.5	8.74	23.8	4.01	5.4
ZKW04-JX	4 rows	4000	45.7	40.9	7.83	40.9	3.53	8.9
	6 rows		61.4	51.5	10.61	14.1	4.45	2.7
	8 rows		67.6	61.2	11.68	23.3	5.28	5.1
ZKW05-JX	4 rows	5000	56.2	52.0	9.71	8.0	4.50	1.9
	6 rows		76.8	66.0	13.28	23.2	5.70	4.6
	8 rows		84.4	77.6	14.59	38.2	6.71	8.7
ZKW06-JX	4 rows	6000	70.5	64.3	12.18	13.2	5.55	3.0
	6 rows		94.6	80.7	16.35	36.9	6.97	7.3
	8 rows		103.0	94.3	17.79	59.5	8.14	13.5
ZKW07-JX	4 rows	7000	82.4	75.1	14.24	13.1	6.49	3.0
	6 rows		111.0	94.3	19.10	36.6	8.15	7.3
	8 rows		120.0	110.0	20.78	59.0	9.51	13.4
ZKW08-JX	4 rows	8000	94.6	86.0	16.34	14.1	7.43	3.2
	6 rows		127.0	108.0	21.88	39.1	9.32	7.8
	8 rows		138.0	126.0	23.78	62.9	10.88	14.3
ZKW09-JX	4 rows	9000	107.0	97.0	18.49	15.0	8.40	3.4
	6 rows		143.0	115.0	24.70	41.5	9.97	7.4
	8 rows		158.0	140.0	27.35	69.1	12.09	14.7
ZKW10-JX	4 rows	10000	121.0	109.0	20.99	20.0	9.46	4.5
	6 rows		161.0	130.0	27.79	54.1	11.19	9.7
	8 rows		165.0	147.0	28.49	9.7	12.74	2.1
ZKW12-JX	4 rows	12000	151.0	134.0	26.06	32.9	11.62	7.3
	6 rows		193.0	156.0	33.35	24.0	13.47	4.4
	8 rows		207.0	177.0	35.77	16.3	15.32	3.3
ZKW15-JX	4 rows	15000	193.0	171.0	33.27	47.3	14.75	10.4
	6 rows		246.0	198.0	42.48	35.0	17.12	6.5
	8 rows		262.0	225.0	45.36	23.2	19.41	4.8
ZKW20-JX	4 rows	20000	257.0	221.0	44.36	47.3	19.11	9.9
	6 rows		308.0	277.0	53.28	31.3	23.96	7.1
	8 rows		328.0	299.0	56.62	20.5	25.88	4.8
ZKW25-JX	4 rows	25000	326.0	280.0	56.40	65.8	29.20	13.7
	6 rows		391.0	350.0	67.63	42.9	30.25	9.6
	8 rows		415.0	378.0	71.79	28.4	32.70	6.6
ZKW30-JX	4 rows	30000	374.0	326.0	64.67	11.4	28.13	2.5
	6 rows		480.0	397.0	82.86	69.4	34.29	13.6
	8 rows		538.0	480.0	93.03	51.1	41.43	11.5
ZKW35-JX	4 rows	35000	443.0	384.0	76.60	15.4	33.20	7.0
	6 rows		580.0	489.0	100.30	51.2	42.30	18.1
	8 rows		621.0	540.0	107.30	39.5	46.60	15.2
ZKW40-JX	4 rows	40000	495.0	444.0	85.50	17.3	38.30	6.6
	6 rows		668.0	563.0	115.50	60.3	48.60	21.4
	8 rows		714.0	620.0	123.30	46.1	53.60	17.1
ZKW45-JX	4 rows	45000	563.0	503.0	97.30	19.8	43.50	7.5
	6 rows		755.0	635.0	130.50	68.1	54.90	24.2
	8 rows		806.0	700.0	139.30	52.5	60.50	19.4
ZKW50-JX	4 rows	50000	626	559	108.20	19.80	48.30	7.50
	6 rows		839	706	145.00	67.80	61.00	24.10
	8 rows		896	778	154.80	52.50	67.20	19.40
ZKW60-JX	4 rows	60000	763	678	131.90	24.10	58.60	9.10
	6 rows		1015	852	175.40	82.90	73.60	29.50
	8 rows		1081	938	186.80	63.40	81.10	23.50
ZKW70-JX	4 rows	70000	818	725	140.60	25.59	62.31	8.77
	6 rows		1161	924	199.53	104.91	79.43	20.87
	8 rows		1298	1049	223.18	82.86	90.21	24.71
ZKW80-JX	4 rows	80000	937	789	161.14	26.30	67.81	8.46
	6 rows		1328	1021	228.41	107.71	87.82	20.47
	8 rows		1485	1170	255.41	85.05	100.60	24.52

Note:
The data in the table refers to the values under working condition.
Cooling rated conditions: air inlet 27°C(DB)/19.5°C(WB). Inlet water 7°C, outlet water temperature difference 5°C.
Heating rated conditions: air inlet 15°C(DB), hot water inlet 60°C, water inlet/outlet temperature difference 10 °C.

Dimensions

Model	W(mm)	H(mm)	Inlet/outlet nozzle	
			4 rows	6 rows / 8 rows
ZKW03	896	772	40	50
ZKW04	896	976	40	50
ZKW05	998	976	40	50
ZKW06	998	1180	40	50
ZKW07	998	1282	50	50
ZKW08	1100	1384	50	65
ZKW09	1202	1384	50	65
ZKW10	1202	1384	50	65
ZKW12	1304	1588	50	65
ZKW15	1406	1690	50	65
ZKW20	1610	1792	50	65
ZKW25	1814	1996	50	65
ZKW30	2140	2016	50	80
ZKW35	2344	2118	50	80
ZKW40	2548	2220	50	80
ZKW45	2548	2424	50	80
ZKW50	2650	2526	50	80
ZKW60	2956	2730	65	80
ZKW70	3088	3086	65	80
ZKW80	3088	3392	65	80
ZKW90	3598	3596	65	80
ZKW100	4006	3596	65	80
ZKW120	4618	3596	65	80
ZKW140	4618	4106	65	80
ZKW160	5230	4106	65	80
ZKW180	5740	4106	65	80
ZKW200	5842	4514	65	80

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