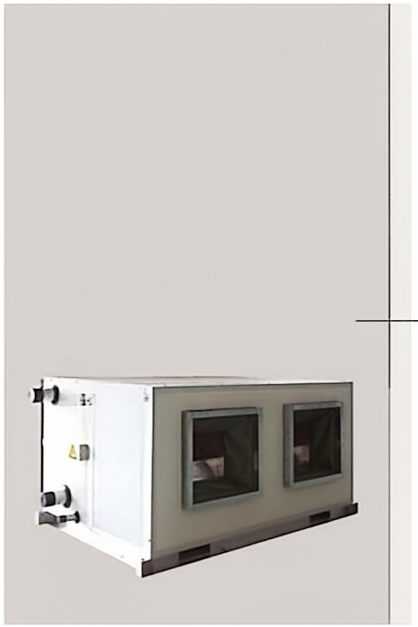
AIR HANDLING UNIT

ZKW 03~60



AIR HANDLING UNIT

(Horizontal installation type)

Indoor installation

Cooling capacity from 15 to 1225.5 KW

Heating capacity from 28.6 to 930 KW

Characteristics

Easy installation

Horizontal installation

Available configurations

Air handling unit (Horizontal installation type)

ZKW 03 - GT - L 4 - 1

(1) (2) (3) (4) (5)

(1) Rated airflow: ×1000m³/h

(2) Metal structure:

T Current air return working condition

X Fresh air working condition

(3) Direction of Nozzle

L Left hand side

R Right hand side

(4) Coil rows of heat exchanger:4,6,8

(5) 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:

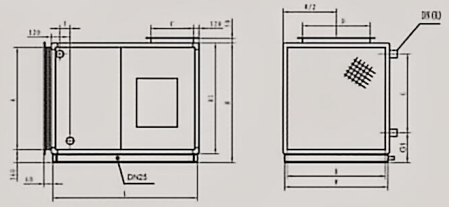
Face the unit operation side, the unit with air flows from left to right is Right unit; flows from right to left is Left unit; For floor standing units, depends on the air flow direction through the coil.

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

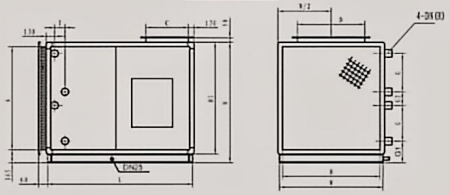
Method 2:

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.

Dimensions



ZKW03~ZKW20



ZKW25~ZKW60

Model	L	W	H	H1	A	B	C	D	G	G1	G2	I			R	
												4 rows	6 rows	8 rows	4 rows	6 rows / 8 rows
ZKW03	1370	865	770	690	548	723	350	350	419.5	207	/	82.5	137.5	192.5	40	50
ZKW04	1460	865	960	880	738	723	400	400	610	207	/	82.5	137.5	192.5	40	50
ZKW05	1550	945	1025	945	803	803	450	450	673.5	207	/	82.5	137.5	192.5	40	50
ZKW06	1550	970	1150	1070	928	828	500	500	800.5	207	/	82.5	137.5	192.5	40	50
ZKW07	1550	985	1275	1195	1053	843	550	550	927.5	207	/	82.5	137.5	192.5	40	50
ZKW08	1670	1075	1310	1230	1088	933	600	600	959.25	207	/	82.5	137.5	192.5	40	65
ZKW09	1670	1165	1310	1230	1088	1023	600	600	959.25	207	/	82.5	137.5	192.5	40	65
ZKW10	1670	1205	1370	1290	1148	1063	650	650	1022.75	207	/	82.5	137.5	192.5	50	65
ZKW12	1800	1215	1595	1515	1373	1073	700	700	1245	207	/	82.5	137.5	192.5	50	65
ZKW15	1800	1385	1660	1580	1438	1243	750	750	1308.5	207	/	82.5	137.5	192.5	50	65
ZKW20	1940	1620	1785	1705	1563	1478	800	800	1435.5	207	/	82.5	137.5	192.5	50	65
ZKW25	2180	1820	1960	1880	1738	1678	900	900	705.25	207	202	82.5	137.5	192.5	50	65
ZKW30	2300	2085	2085	2005	1843	1923	950	950	737	227	222	82.5	137.5	192.5	50	80
ZKW35	2450	2370	2085	2005	1843	2208	1050	1050	737	227	222	82.5	137.5	192.5	50	80
ZKW40	2450	2435	2275	2195	2033	2273	1100	1100	832.25	227	222	82.5	137.5	192.5	50	80
ZKW45	2610	2550	2405	2325	2163	2388	1150	1150	895.75	227	222	82.5	137.5	192.5	50	80
ZKW50	2610	2655	2530	2450	2288	2493	1200	1200	959.25	227	222	82.5	137.5	192.5	50	80
ZKW60	2790	2895	2720	2640	2478	2733	1300	1300	1054.5	227	222	82.5	137.5	192.5	50	80

Outer rotor fans are equipped for models(ZKW03/04/05/06) as default designs. If belt driven fans are adopted for ZKW03/04/05/06, then the length will be changed as:

ZKW03: L=1570,ZKW04: L=1660,ZKW05: L=1710,ZKW06: L=1750,Other models are unaffected.

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Return air working condition performance parameters

Model		Rated air flow	Rated cooling capacity	Rated heating capacity	Cold water		Hot water		Total static pressure	ESP	Motor power	Power input	Noise	Weight (kg)
		m³/h	KW	KW	Water flow (m³/h)	Resistance(KPa)	Water flow(m³/h)	Resistance(KPa)	Pa	Pa	KW	KW	dB(A)	
	4 rows		15.0	28.6	2.6	8.0	2.5	7.6	470	180				182
ZKW03-GT	6 rows	3000	22.3	34.9	3.8	11.5	3.0	10.3	470	140	0.8	1.1	62	189
	8 rows		25.6	38.6	4.4	22.6	3.3	17.8	470	110				203
	4 rows		21.5	38.4	3.7	8.9	3.3	8.3	570	280				210
ZKW04-GT	6 rows	4000	28.1	46.8	4.8	14.7	4.0	11.4	570	240	1.1	1.7	65	217
	8 rows		33.6	51.6	5.8	27.0	4.4	19.6	570	210				224
	4 rows		26.0	47.0	4.5	10.6	4.0	9.7	570	280				224
ZKW05-GT	6 rows	5000	38.0	57.8	6.5	15.5	5.0	13.4	570	240	1.5	2.1	66	238
	8 rows		41.3	63.9	7.1	31.2	5.5	22.9	570	210				252
	4 rows		33.9	60.5	5.8	16.9	5.2	14.9	570	280				266
ZKL06-GT	6 rows	6000	40.1	72.4	6.9	28.8	6.2	21.5	570	240	2.2	2.6	67	280
	8 rows		52.4	79.0	9.0	50.0	6.8	35.4	570	210				294
	4 rows		39.2	70.2	6.7	14.7	6.0	15.1	570	280				294
ZKW07-GT	6 rows	7000	48.5	84.2	8.3	21.4	7.2	22.0	570	240	2.2	3.0	67	308
	8 rows		57.9	91.9	10.0	51.0	7.9	36.2	570	210				322
	4 rows		43.7	79.0	7.5	17.7	6.8	15.8	570	280				336
ZKW08-GT	6 rows	8000	58.7	95.5	10.1	31.0	8.2	23.3	570	240	3.0	3.4	68	357
	8 rows		68.8	104.4	11.8	53.6	9.0	38.3	570	210				378
	4 rows		48.1	92.8	8.3	22.2	8.0	21.4	650	360				357
ZKW09-GT	6 rows	9000	59.6	110.1	10.3	28.8	9.5	32.0	650	320	3.0	4.3	69	378
	8 rows		76.4	119.5	13.1	62.6	10.3	51.5	650	290				399
	4 rows		57.3	101.2	9.9	26.0	8.7	23.8	650	360				406
ZKW10-GT	6 rows	10000	70.6	121.1	12.1	34.2	10.4	31.5	650	320	3.0	4.8	70	427
	8 rows		81.3	127.0	14.0	20.3	10.9	15.0	650	290				448
	4 rows		61.6	121.0	10.6	23.3	10.4	22.9	670	380				448
ZKW12-GT	6 rows	12000	84.4	145.1	14.5	34.6	12.5	35.0	670	340	4.0	5.9	71	476
	8 rows		97.3	152.2	16.7	20.5	13.1	15.2	670	310				504
	4 rows		77.4	147.6	13.3	35.4	12.7	33.7	780	490				504
ZKL15-GT	6 rows	15000	113.3	176.1	19.5	15.5	15.1	13.0	780	450	5.5	8.4	73	532
	8 rows		132.0	188.6	22.7	30.7	16.2	22.6	780	420				560
	4 rows		93.5	197.4	16.1	43.4	17.0	13.5	780	490				595
ZKW20-GT	6 rows	20000	135.7	246.0	23.3	18.6	21.1	19.4	780	450	7.5	11.3	74	630
	8 rows		171.7	260.9	29.5	40.6	22.4	32.2	780	420				665
	4 rows		131.3	241.8	22.6	15.6	20.8	14.3	780	490				644
ZKW25-GT	6 rows	25000	179.2	294.6	30.8	27.4	25.3	21.0	780	450	11.0	14.1	75	686
	8 rows		220.8	323.5	38.0	45.6	27.8	34.7	780	420				728
	4 rows		174.8	306.6	30.1	22.6	26.4	22.0	780	490				805
ZKW30-GT	6 rows	30000	228.9	365.4	39.4	45.1	31.4	33.2	780	450	11.0	16.9	76	847
	8 rows		264.9	396.9	45.6	75.8	34.1	53.2	780	420				889
	4 rows		205.1	357.8	35.3	32.9	30.8	28.3	780	490				875
ZKW35-GT	6 rows	35000	268.1	426.9	46.1	60.2	36.7	44.1	780	450	15.0	19.7	77	931
	8 rows		309.4	463.2	53.2	99.3	39.8	69.7	780	420				987
	4 rows		234.4	408.9	40.3	32.9	35.2	83.3	780	490				959
ZKW40-GT	6 rows	40000	306.4	487.9	52.7	60.2	42.0	44.1	780	450	15.0	22.5	77	1029
	8 rows		367.1	529.4	63.1	93.4	45.5	69.7	780	420				1099
	4 rows		266.4	461.7	45.8	40.8	39.7	34.7	830	540				1050
ZKW45-GT	6 rows	45000	347.0	550.5	59.7	76.1	47.3	99.1	830	500	18.5	26.8	78	1134
	8 rows		407.0	596.5	70.0	31.5	51.3	86.6	830	470				1218
	4 rows		296.8	514.0	51.0	40.2	44.2	34.2	830	540				1155
ZKW50-GT	6 rows	50000	386.1	612.2	66.4	74.8	52.6	54.5	830	500	22.0	29.8	79	1253
	8 rows		444.1	663.3	76.4	121.6	57.0	85.1	830	470				1351
	4 rows		363.6	623.6	62.5	47.9	53.6	40.3	830	540				1260
ZKW60-GT	6 rows	60000	469.2	739.5	80.7	90.0	63.6	65.1	830	500	30.0	35.7	79	1372
	8 rows		537.5	799.2	92.4	144.6	68.7	100.6	830	470				1484

Note:
Cooling rated conditions: air inlet 27°C(DB), 19.5°C(WB),water inlet 7 °C, water inlet/outlet temperature difference 5 °C.
Heating rated conditions: air inlet 15° C(DB), hot water inlet 60 °C, water inlet/outlet temperature difference 10 °C.
ESP: 150-650Pa.
Motor power means reference value of the fan motor power under the pressure in the table.
Noise measured at 1m in open field.

Fresh air working condition performance parameters

Model		Rated air flow	Rated cooling capacity	Rated heating capacity	Cold water		Hot water		Total static pressure	ESP	Motor power	Power input	Noise	Weight (kg)
		m³/h	KW	KW	Water flow (m³/h)	Resistance(KPa)	Water flow(m³/h)	Resistance(KPa)	Pa	Pa	KW	KW	dB(A)	
	4 rows		35.1	35.0	6.0	21.2	3.0	9.6	470	180				182
ZKW03-GX	6 rows	3000	47.8	42.2	8.2	39.1	3.6	13.2	470	140	0.8	1.1	62	189
	8 rows		51.6	43.8	8.9	16.3	3.8	6.5	470	110				203
	4 rows		47.4	47.0	8.1	23.4	4.0	10.5	570	280				210
ZKW04-GX	6 rows	4000	60.8	52.1	10.5	9.4	4.5	3.9	570	240	1.1	1.7	65	217
	8 rows		70.7	58.8	12.1	18.3	5.1	7.1	570	210				224
	4 rows		57.5	57.5	9.9	26.5	4.9	12.0	570	280				224
ZKW05-GX	6 rows	5000	74.9	64.5	12.9	11.0	5.5	4.6	570	240	1.5	2.1	66	238
	8 rows		87.2	72.8	15.0	21.2	6.3	8.2	570	210				252
	4 rows		72.0	67.2	12.4	13.0	5.8	5.4	570	280				266
ZKL06-GX	6 rows	6000	92.0	82.0	15.8	20.5	7.1	7.1	570	240	2.2	2.6	67	280
	8 rows		104.1	90.9	17.9	33.3	7.8	12.3	570	210				294
	4 rows		83.3	77.9	14.3	13.1	6.7	5.5	570	280				294
ZKW07-GX	6 rows	7000	106.8	95.4	18.4	20.9	8.2	7.2	570	240	2.2	3.0	67	308
	8 rows		121.0	105.8	20.8	34.0	9.1	12.5	570	210				322
	4 rows		93.2	87.7	16.0	13.6	7.5	5.8	570	280				336
ZKW08-GX	6 rows	8000	127.2	108.0	21.9	18.9	9.3	7.7	570	240	3.0	3.4	68	357
	8 rows		136.8	120.2	23.5	35.7	10.3	13.3	570	210				378
	4 rows		113.5	104.2	19.5	18.6	9.0	7.6	650	360				357
ZKW09-GX	6 rows	9000	142.3	125.9	24.5	30.1	10.8	10.2	650	320	3.0	4.3	69	378
	8 rows		159.4	138.3	27.4	47.5	11.9	17.4	650	290				399
	4 rows		122.9	113.6	21.1	19.5	9.8	8.1	650	360				406
ZKW10-GX	6 rows	10000	155.7	138.4	26.8	32.3	11.9	11.0	650	320	3.0	4.8	70	427
	8 rows		174.8	152.4	30.1	50.8	13.1	18.7	650	290				448
	4 rows		152.6	143.0	26.2	20.6	12.3	8.6	670	380				448
ZKW12-GX	6 rows	12000	191.3	165.7	32.9	27.1	14.3	11.2	670	340	4.0	5.9	71	476
	8 rows		217.3	182.7	37.4	47.3	15.7	18.9	670	310				504
	4 rows		194.2	176.5	33.4	30.6	15.2	12.4	740	450				504
ZKL15-GX	6 rows	15000	241.2	212.4	41.5	52.4	18.3	17.6	740	410	5.5	8.4	73	532
	8 rows		268.0	232.0	46.1	79.5	19.9	29.0	740	380				560
	4 rows		256.5	239.9	44.1	40.3	20.6	16.9	780	490				595
ZKW20-GX	6 rows	20000	327.2	286.7	56.3	74.1	24.7	24.8	780	450	7.5	11.3	74	630
	8 rows		348.1	299.7	59.9	30.7	25.8	11.3	780	420				665
	4 rows		312.3	294.1	53.7	42.3	25.3	17.9	780	490				644
ZKW25-GX	6 rows	25000	405.6	342.9	69.8	30.5	29.5	12.1	780	450	11.0	14.1	75	686
	8 rows		420.1	371.2	72.2	32.8	31.9	12.1	780	420				728
	4 rows		376.7	344.3	64.8	19.4	29.6	7.8	780	490				805
ZKW30-GX	6 rows	30000	487.5	427.6	83.8	56.3	36.8	18.6	780	450	11.0	16.9	76	847
	8 rows		527.6	459.3	90.7	49.5	39.5	18.0	780	420				889
	4 rows		475.9	414.6	81.8	24.7	35.7	10.2	780	490				875
ZKW35-GX	6 rows	35000	570.7	500.3	98.1	74.2	43.0	24.5	780	450	15.0	19.7	77	931
	8 rows		617.2	537.1	106.1	63.8	46.2	23.1	780	420				987
	4 rows		560.7	485.2	96.4	26.8	41.7	10.2	780	490				959
ZKW40-GX	6 rows	40000	667.2	571.8	114.7	61.1	49.2	24.5	780	450	15.0	22.5	77	1029
	8 rows		730.5	613.8	125.6	59.8	52.8	23.1	780	420				1099
	4 rows		618.3	537.1	106.3	32.7	46.2	12.4	830	540				1050
ZKW45-GX	6 rows	45000	769.6	645.8	132.3	78.5	55.5	24.5	830	500	18.5	26.8	78	1134
	8 rows		837.1	693.0	144.0	78.3	59.6	28.3	830	470				1218
	4 rows		643.3	597.9	110.6	29.8	51.4	12.2	830	540				1155
ZKW50-GX	6 rows	50000	856.2	718.3	147.2	77.2	61.8	30.1	830	500	22.0	29.8	79	1253
	8 rows		931.1	770.5	160.1	73.5	66.2	27.9	830	470				1351
	4 rows		788.3	727.7	135.6	34.9	62.6	14.3	830	540				1260
ZKW60-GX	6 rows	60000	1036.7	868.4	178.3	108.6	74.7	35.6	830	500	30.0	35.7	79	1372
	8 rows		1125.5	930.0	193.6	90.3	80.0	32.6	830	470				1484

Note:
Cooling rated conditions: air inlet 27°C(DB), 19.5°C(WB),water inlet 7 °C, water inlet/outlet temperature difference 5 °C.
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