

## Part 3 Chilled Water Fan Coil Unit

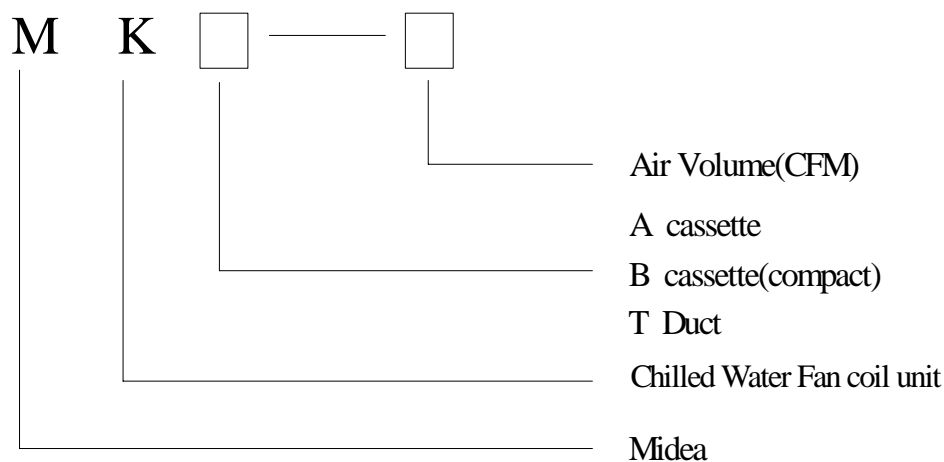
### Chapter 1 Summarization

Fan coil is a kind of compound device which assemble fan and surface-type coil heating-exchanger together. Fan coil with fresh air supply system is a main type of center air-conditioner system, so it is an important component of AC devices. Fan coil has horizontal type, vertical type, etc. A cooling (heating) supply system usually consists of fan coil terminals and chilled water system (heated water system).

Midea commercial AC fan coil is designed and manufactured on the base of advanced technology, and utilize qualified galvanized iron as material. Due to its supper-thin design, it has such advantages: beautiful outlook, space saving, easy installation, etc. And the most obvious advantage is that it can decrease the outlet air Temp-difference as low as possible to make room more comfortable, as well as don't decrease cooling capacity output. For the large air flow volume design, it can increase room ventilation frequency, supply more flesh air, and balance room temp. distribution. Benefiting from adoption of advanced material and technology, it can effectively decrease the running noise and keep running smoothly. With the advantages above, it can be widely applied in market, hospital, office building, hotel airport, etc.

Our fan coil has supper-thin type and normal type, and we can customize some nonstandard model according to customer's requirement.

### Chapter 2 Nomenclature



## Chapter 3 Specification

### Chilled Water Fan Coil Unit (compact cassette type)

TYPE			MKB-300	MKB-400	MKB-450	MKB-500
Airflow		m <sup>3</sup> /h	500	630	710	800
Cooling Capacity		W	3035	3790	4350	4835
		Btu/h	10355	12886	14790	16440
Heating Capacity		W	5130	6425	6840	8210
		Btu/h	17500	21845	23250	27900
Noise		dB(A)	38	39	40	41
Water flow		LPH	530	653	740	850
Water resistance		kPa	10.1	14.5	18.3	27.1
Indoor Coil	Number of rows		2	2	2	2
	Tube pitch(a)x row pitch(b)	mm	21×13.37			
	Fin spacing	mm	1.3			
	Fin type		Hydrophilic aluminium			
	Tube outside dia.and type	mm	φ 7.94, innergroove tube			
	Coil length x height x width	mm	1185×210×26.74			
	Number of circuits		10	10	10	10
Fan motor	Type		Low noise 3 speed fan motor			
	Number		1			
	Model		YDK45-4F			
	Brand		WEILING			
	Input	W	30	45	55	70
	Capacitor	uF	1	1.5	2	3
Indoor unit	Dimension (W*H*D)	mm	580×254×580			
	Packing (W*H*D)	mm	750×340×750			
	Net/Gross weight	kg	21/30			
Panel	Dimension (W*H*D)	mm	650×30×650			
	Packing (W*H*D)	mm	715×115×715			
	Net/Gross weight	kg	3/5			
Control mode			wired controller ( optional )、 remote controller ( standard )			
Pipe	Water-inlet pipe		RC3/4" internal thread			
	Water-return pipe		RC3/4" internal thread			
	Condensation water-outlet pipe		EVA+LDPE 3/4" external thread			

**Chilled Water Fan Coil Unit (cassette type)**

TYPE			MKA-1500	MKA-1200	MKA-950	MKA-850	MKA-750	MKA-600	
Airflow		m <sup>3</sup> /h	2500	2000	1600	1400	1250	1000	
Cooling Capacity		W	13956	11259	8910	7860	6985	5709	
		Btu/h	4090	3300	2611	2307	2047	1673	
Heating Capacity		W	22820	19065	15011	13640	11550	9660	
		Btu/h	6688	5588	4399	3998	3385	2831	
Noise		dB(A)	45	45	44	44	41	41	
Water flow		LPH	2388	1928	1541	1382	1204	1005	
Water resistance		kPa	46	44	30	27	25.2	38	
Indoor Coil	Number of rows		2						
	Tube pitch(a)x row pitch(b)	mm	25.4×22						
	Fin spacing	mm	1.3						
	Fin type		Hydrophilic aluminium						
	Tube outside dia.and type	mm	φ7, innergroove tube						
	Coil length x height x width	mm	2000×250×27				2000×170×27		
	Number of circuits		6				4		
Fan motor	Type		Low noise 3 speed fan motor						
	Number		1						
	Model		YDK110-6		YDK56-6		YDK55-6		
	Brand		WEILING						
	Input	W	190	180	144	144	128	120	
	Capacitor	uF	5			3.5			
Indoor unit	Dimension (W*H*D)	mm	840×310×840				840×240×840		
	Packing (W*H*D)	mm	1020×410×930				1020×330×930		
	Net/Gross weight	kg	40/50				36/46		
Panel	Dimension (W*H*D)	mm	950×40×950						
	Packing (W*H*D)	mm	1030×145×1030						
	Net/Gross weight	kg	6/11						
Control mode			wired controller (optional)、remote controller (standard)						
Pipe	Water-inlet pipe		RC3/4" internal thread						
	Water-return pipe		RC3/4" internal thread						
	Condensation water-outlet pipe		EVA+LDPE 3/4" external thread						

**Chilled Water Fan Coil Unit (Duct type)**

Model		MKT-300	MKT-400	MKT-450	MKT-500	MKT-600
Air-flow volume m <sup>3</sup> /h	High-speed	500	630	710	800	1000
	Middle-speed	420	500	550	716	850
	Low-speed	310	390	430	622	762
Capacity	Cooling capacity (W)	3035	3790	4350	4835	5709
	Heating capacity (W)	5130	6425	6480	8210	9660
	water-flow volume(L/H)	530	653	740	850	1005
	hydraulic resistance (kPa)	10.1	14.5	18.3	27.1	38
Noise level	Db(A)	33	33	33	34	35
Air-flow volume adjustment		Remote control, Wire control, 3 level adjustment				
Fan	type	Front-wing double-inlet centrifugal type fan				
	number	1			2	
Motor	type	3 level speed, low noise, capacitance motor				
	number	1				
	power supply	AC 1Φ-220V-50HZ				
	input power (w)	38	39	47	70	84
Coil	type	copper tube, grilled aluminum fin				
	rows	2				
	Working pressure	1.6MPa				
Connection pipe	water inlet	RC3/4" internal thread				
	water outlet	RC3/4" internal thread				
	drainage	ZG3/4" external thread				
Net weight (kg)	no air-return box	21	21	21	21	21
Dimension	Width (mm)	975	975	975	1275	1275
	Height (mm)	240	240	240	240	240
	Depth (mm)	490	490	490	490	490

Remark: 1. All performance data above is based upon 0Pa ambient static pressure. 2. Cooling capacity test condition: air inlet Temp. : 27DB°C/19.5WB°C, water inlet Temp. 7°C, water Temp. difference 5°C. 3. Heating capacity test condition: air inlet Temp. : 21DB°C, water inlet Temp. 60°C, the volume of air and water is same as cooling. 4. Noise level is tested in full-anechoic room. 5. Can customize Fan Coil smaller than MKT-300.

**Chilled Water Fan Coil Unit (Duct type)**

Model		MKT-750	MKT-850	MKT-950	MKT-1200	MKT-1500
Air-flow volume m <sup>3</sup> /h	High-speed	1250	1400	1600	2000	2500
	Middle-speed	1069	1180	1400	1706	2110
	Low-speed	890	1050	1185	1304	1602
Capacity	Cooling capacity (W)	6985	7860	8910	11259	13956
	Heating capacity (W)	11550	13640	15011	19065	22820
	Water-flow volume(LPH)	1204	1382	1541	1928	2388
	Hydraulic resistance(KPa)	25.2	27	30	44	46
Noise level	dB(A)	35	38	39	39	40
Air-flow volume adjustment		linear controller control, 3 level adjustment				
Fan	type	Front-wing double-inlet centrifugal type fan				
	number	3			4	
Motor	type	3 speed, low noise capacitance motor				
	number	1			2	
	power supply	AC 1Φ-220V-50HZ				
	input power (w)	108	137	142	201	250
Coil	type	copper tube, grided aluminum fin				
	rows	2				
	Working pressure	1.6MPa				
Connection pipe	water inlet	RC3/4" internal thread				
	water outlet	RC3/4" internal thread				
	drainage	ZG3/4" external thread				
Net weight (kg)	no air-return box	34	34	34	47	47
Dimension	Width (mm)	1445	1445	1445	1995	1995
	Height (mm)	240	240	240	240	240
	Depth (mm)	490	490	490	490	490

**Remark:**

1. All performance data above is based upon 0Pa ambient static pressure.
2. Cooling capacity test condition: air inlet Temp. : 27DB°C/19.5WB°C, water inlet Temp. 7°C, water Temp. difference 5°C. 3. Heating capacity test condition: air inlet Temp. : 21DB°C, water inlet Temp. 60°C, the volume of air and water is same as cooling. 4. Noise level is tested in full-anechoic room.

## Chapter 4 Capacity Table

Cooling Capacity Table

unit: W

Model	Water inlet temp. (°C)	Water flow volume (LPM)	Hydraulic pressure drop (kPa)	Air inlet condition									
				DB24°C WB17°C		DB25°C WB18°C		DB26°C WB19°C		DB27°C WB19.5°C		DB28°C WB21°C	
				SH	TH	SH	TH	SH	TH	SH	TH	SH	TH
MKB-300	5	6	4.6	1763	2084	1818	2291	1866	2499	1969	2618	1962	2940
		8	8.1	1874	2347	1938	2579	1994	2820	2099	2948	2115	3324
		10	12.7	1949	2526	2021	2781	2091	3044	2187	3180	2219	3596
		12	18.2	2019	2675	2091	2948	2163	3236	2267	3380	2307	3829
	6	6	4.6	1698	1922	1746	2123	1802	2331	1898	2443	1898	2771
		8	8.1	1794	2163	1858	2395	1914	2635	2019	2755	2035	3140
		10	12.7	1754	1866	1930	2587	2003	2852	2107	2980	2131	3396
		12	18.2	1922	2475	2003	2747	2075	3028	2179	3172	2219	3621
	7	6	4.6	1626	1754	1682	1954	1730	2163	1825	2274	1826	2595
		8	8.1	1714	1978	1778	2211	1844	2453	1978	2611	1954	2948
		10	12.7	1778	2131	1850	2387	1914	2643	2019	3035	2051	3196
		12	18.2	1834	2267	1906	2691	1986	3004	2091	3244	2123	3404
MKT-300	8	6	4.6	1554	1586	1610	1786	1666	1994	1762	2099	1762	2427
		8	8.1	1634	1794	1698	2019	1762	2259	1853	2374	1882	2755
		10	12.7	1690	1930	1762	2187	1834	2443	1938	2579	1962	2988
		12	18.2	1738	2059	1818	2323	1890	2603	2003	2739	2035	3180
9	6	4.6	1490	1490	1546	1618	1594	1826	1690	1930	1698	2251	
	8	8.1	1562	1602	1626	1834	1690	2067	1786	2187	1802	2555	
	10	12.7	1610	1730	1770	1978	1746	2235	1850	2371	1882	2771	
	12	18.2	1650	1842	1730	2107	1802	2387	1914	2523	1946	2964	
10	6	4.6	1362	1418	1474	1474	1530	1650	1626	1754	1634	2075	
	8	8.1	1482	1482	1546	1634	1610	1874	1714	1986	1730	2355	
	10	12.7	1522	1522	1594	1770	1666	2027	1770	2155	1802	2563	
	12	18.2	1562	1626	1642	1890	1714	2163	1826	2299	1866	2731	

Remark:

1. DB: Dry Bulb Temp.                      WB: Wet Bulb Temp.  
TH: Total heat                                SH: Sensible heat
2. Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)

Cooling Capacity Table

unit: W

Model	Water inlet temp. °C	Water flow volume LPM	Hydraulic pressure drop kPa	Air inlet condition									
				DB24°C WB17°C		DB25°C WB18°C		DB26°C WB19°C		DB27°C WB19.5°C		DB28°C WB21°C	
				SH	TH	SH	TH	SH	TH	SH	TH	SH	TH
MKB-400 MKT-400	5	6	4.6	2200	2600	2270	2860	2330	3120	2450	3260	2450	3670
		8	8.1	2340	2930	2420	3220	2490	3520	2620	3680	2640	4150
		10	12.7	2430	3150	2520	3470	2610	3800	2730	3970	2770	4490
		12	18.2	2520	3340	2610	3680	2700	4040	2830	4220	2880	4780
	6	6	4.6	2120	2400	2180	2650	2250	2910	2370	3050	2370	3460
		8	8.1	2240	2700	2320	2990	2390	3290	2520	3440	2540	3920
		10	12.7	2190	2330	2410	3230	2500	3560	2630	3720	2660	4240
		12	18.2	2400	3090	2500	3430	2590	3780	2720	3960	2770	4520
	7	6	4.6	2030	2190	2100	2440	2160	2700	2280	2840	2280	3240
		8	8.1	2140	2470	2220	2760	2300	3060	2420	3210	2440	3680
		10	12.7	2220	2660	2310	2980	2390	3300	2520	3790	2560	3990
		12	18.2	2290	2830	2380	3360	2480	3750	2610	4050	2650	4250
	8	6	4.6	1940	1980	2010	2230	2080	2490	2200	2620	2200	3030
		8	8.1	2040	2240	2120	2520	2200	2820	2320	2970	2350	3440
		10	12.7	2110	2410	2200	2730	2290	3050	2420	3220	2450	3730
		12	18.2	2170	2570	2270	2900	2360	3250	2500	3420	2540	3970
	9	6	4.6	1860	1860	1930	2020	1990	2280	2110	2410	2120	2810
		8	8.1	1950	2000	2030	2290	2110	2580	2230	2730	2250	3190
		10	12.7	2010	2160	2210	2470	2180	2790	2310	2960	2350	3460
		12	18.2	2060	2300	2160	2630	2250	2980	2390	3150	2430	3700
	10	6	4.6	1700	1770	1840	1840	1910	2060	2030	2190	2040	2590
		8	8.1	1850	1850	1930	2040	2010	2340	2140	2480	2160	2940
		10	12.7	1900	1900	1990	2210	2080	2530	2210	2690	2250	3200
		12	18.2	1950	2030	2050	2360	2140	2700	2280	2870	2330	3410

Remark:

- DB: Dry Bulb Temp.                      WB: Wet Bulb Temp.  
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- Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)

Cooling Capacity Table

unit: W

Model	Water inlet temp. °C	Water flow volume LPM	Hydraulic pressure drop kPa	Air inlet condition									
				DB24°C WB17°C		DB25°C WB18°C		DB26°C WB19°C		DB27°C WB19.5°C		DB28°C WB21°C	
				SH	TH	SH	TH	SH	TH	SH	TH	SH	TH
MKT-450	5	6	4.6	2674	3124	2744	3428	2825	3743	2969	3905	2960	4400
		8	8.1	2906	3689	3005	4058	3104	4445	3257	4642	3284	5245
		10	12.7	3050	4031	3158	4445	3275	4867	3428	5083	3482	5758
		12	18.2	3158	4283	3284	4723	3401	5182	3572	5416	3635	6136
	6	6	4.6	2564	2879	2645	3185	2717	3491	2861	3653	2861	4148
		8	8.1	2780	3401	2879	3770	2978	4157	3131	4346	3158	4948
		10	12.7	2915	3725	3023	4130	3140	4552	3293	4768	3347	5434
		12	18.2	3014	3959	3140	4400	3257	4849	3419	5083	3491	5803
	7	6	4.6	2456	2627	2537	2933	2618	3239	2762	3401	2762	3887
		8	8.1	2654	3113	2753	3482	2852	3473	3004	3805	3041	4481
		10	12.7	2771	3410	2888	3635	2996	3788	3158	4067	3212	4750
		12	18.2	2869	3625	2987	3797	3112	4030	3275	4350	3347	5002
MKB-450	8	6	4.6	2357	2375	2438	2681	2519	2987	2672	3140	2663	3626
		8	8.1	2528	2825	2636	3185	2735	3563	2888	3752	2915	4346
		10	12.7	2636	3095	2753	3491	2870	3914	3023	4121	3077	4786
		12	18.2	2717	3293	2843	3725	2969	4175	3131	4121	3203	4750
9	6	4.6	2249	2249	2339	2420	2411	2726	2555	2888	2564	3365	
	8	8.1	2411	2528	2510	2888	2609	3257	2762	3446	2798	4031	
	10	12.7	2501	2771	2618	3167	2735	3581	2897	3797	2951	4445	
	12	18.2	2573	2951	2699	3383	2825	3734	2996	3887	3068	4490	
10	6	4.6	2150	2150	2231	2231	2312	2465	2456	2618	2465	3095	
	8	8.1	2285	2285	2393	2582	2492	2951	2645	3140	2681	3725	
	10	12.7	2375	2438	2483	2843	2600	3248	2762	3455	2816	4112	
	12	18.2	2438	2609	2564	3032	2690	3473	2852	3698	2924	4220	

Remark:

- DB: Dry Bulb Temp.                      WB: Wet Bulb Temp.  
TH: Total heat                              SH: Sensible heat
- Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)



Cooling Capacity Table

unit: W

Model	Water inlet temp. °C	Water flow volume LPM	Hydraulic pressure drop kPa	Air inlet condition									
				DB24°C WB17°C		DB25°C WB18°C		DB26°C WB19°C		DB27°C WB19.5°C		DB28°C WB21°C	
				SH	TH	SH	TH	SH	TH	SH	TH	SH	TH
MKT-500 MKB-500	5	10	13.5	3390	4480	3510	4940	3640	5410	3810	5650	3870	6400
		15	30.4	3510	4760	3650	5250	3780	5760	3970	6020	4040	6820
		20	54.0	2850	3200	2940	3540	3020	3880	3180	4060	3180	4610
		25	84.4	3090	3780	3200	4190	3310	4620	3480	4830	3510	5500
	6	10	13.5	3240	4140	3360	4590	3490	5060	3660	5300	3720	6040
		15	30.4	3350	4400	3490	4890	3620	5390	3800	5650	3880	6450
		20	54.0	2730	2920	2820	3260	2910	3600	3070	3780	3070	4320
		25	84.4	2950	3460	3060	3870	3170	3860	3340	4230	3380	4980
	7	10	13.5	3080	3790	3210	4040	3330	4210	3510	4520	3570	5280
		15	30.4	3190	4030	3320	4220	3460	4480	3640	4835	3720	5560
		20	54.0	2620	2640	2710	2980	2800	3320	2970	3490	2960	4030
		25	84.4	2810	3140	2930	3540	3040	3960	3210	4170	3240	4830
	8	10	13.5	2930	3440	3060	3880	3190	4350	3360	4580	3420	5320
		15	30.4	3020	3660	3160	4140	3300	4640	3480	4580	3560	5280
		20	54.0	2500	2500	2600	2690	2680	3030	2840	3210	2850	3740
		25	84.4	2680	2810	2790	3210	2900	3620	3070	3830	3110	4480
	9	10	13.5	2780	3080	2910	3520	3040	3980	3220	4220	3280	4940
		15	30.4	2860	3280	3000	3760	3140	4150	3330	4320	3410	4990
		20	54.0	2390	2390	2480	2480	2570	2740	2730	2910	2740	3440
		25	84.4	2540	2540	2660	2870	2770	3280	2940	3490	2980	4140
	10	10	13.5	2640	2710	2760	3160	2890	3610	3070	3840	3130	4570
		15	30.4	2710	2900	2850	3370	2990	3860	3170	4110	3250	4690
		20	54.0	2879	2981	3023	3464	3159	3964	3354	4218	3430	5014
		25	84.4	2947	3151	3100	3659	3244	4192	3447	4463	3532	5310

Remark:

1. DB: Dry Bulb Temp.                      WB: Wet Bulb Temp.  
TH: Total heat                               SH: Sensible heat
2. Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)

Cooling Capacity Table

unit: W

Model	Water inlet temp. °C	Water flow volume LPM	Hydraulic pressure drop kPa	Air inlet condition									
				DB24°C		DB25°C		DB26°C		DB27°C		DB28°C	
				WB17°C		WB18°C		WB19°C		WB19.5°C		WB21°C	
				SH	TH	SH	TH	SH	TH	SH	TH	SH	TH
MKT-600 MKA-600	5	10	13.5	3850	4530	3960	4980	4070	5440	4280	5680	4280	6400
		15	30.4	4160	5300	4310	5840	4450	6390	4670	6670	4710	7540
		20	54.0	4380	5800	4540	6390	4700	7010	4930	7320	5000	8290
		25	84.4	4510	6110	4680	6730	4850	7380	5090	7720	5180	8750
	6	10	13.5	3690	4180	3810	4620	3920	5080	4130	5310	4130	6030
		15	30.4	3980	4890	4130	5420	4270	5970	4490	6250	4530	7110
		20	54.0	4180	5360	4340	6960	4500	6550	4730	6870	4810	7830
		25	84.4	4300	5640	4470	6270	4650	6910	4880	7250	4980	8270
	7	10	13.5	3540	3820	3660	4260	3770	4710	3980	4940	3990	5650
		15	30.4	3800	4480	3950	5000	4090	5550	4310	5709	4360	6680
		20	54.0	3980	4910	4150	5490	4310	6100	4540	6410	4610	7360
		25	84.4	4090	5170	4270	5790	4440	6440	4680	6760	4770	7790
	8	10	13.5	3390	3450	3510	3890	3620	4340	3830	4570	3840	5280
		15	30.4	3630	4060	3770	4580	3920	5120	4140	5390	4190	6240
		20	54.0	3790	4450	3950	5030	4110	5630	4340	5940	4420	6890
		25	84.4	3880	4700	4060	5310	4240	5950	4470	6280	4570	7290
	9	10	13.5	3240	3240	3360	3520	3480	3970	3690	4190	3700	4890
		15	30.4	3450	3630	3600	4150	3740	4680	3960	4960	4020	5800
		20	54.0	3590	3990	3760	4570	3920	5160	4150	5460	4230	6410
		25	84.4	3680	4210	3860	4820	4030	5460	4270	5780	4370	6790
	10	10	13.5	3090	3090	3220	3220	3330	3590	3540	3810	3560	4510
		15	30.4	3280	3280	3430	3710	3570	4240	3790	4510	3850	5350
		20	54.0	3400	3520	3570	4090	3730	4680	3960	4980	4050	5920
		25	84.4	3480	3720	3660	4320	3830	4950	4070	5270	4170	6270

Remark:

- DB: Dry Bulb Temp.                      WB: Wet Bulb Temp.  
TH: Total heat                              SH: Sensible heat
- Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)

Cooling Capacity Table

unit: W

Model	Water inlet temp. °C	Water flow volume LPM	Hydraulic pressure drop kPa	Air inlet condition									
				DB24°C		DB25°C		DB26°C		DB27°C		DB28°C	
				WB17°C		WB18°C		WB19°C		WB19.5°C		WB21°C	
				SH	TH	SH	TH	SH	TH	SH	TH	SH	TH
MKA-750 MKT-750	5	15	11.9	4377	5293	4508	5816	4639	6357	4874	6627	4892	7482
		20	21.2	4613	5877	4779	6462	4927	7072	5171	7386	5223	8354
		25	33.1	4805	6322	4979	6967	5154	7630	5406	7970	5476	9025
		30	47.7	4927	6601	5119	7281	5302	7979	5555	8502	5651	9452
	6	15	11.9	4194	4874	4334	5398	4465	5930	4700	6209	4718	7054
		20	21.2	4421	5415	4578	6008	4735	6610	4979	7054	5023	7883
		25	33.1	4587	5834	4770	6479	4944	7133	5188	7473	5267	8519
		30	47.7	4700	6104	4892	6775	5075	7473	5337	7831	5424	8929
	7	15	11.9	4020	4456	4159	4979	4290	5511	4526	5781	4543	6618
		20	21.2	4220	4962	4377	5808	4534	6322	4779	6985	4831	7403
		25	33.1	4377	5345	4552	6069	4726	6723	4979	7037	5058	8014
		30	47.7	4482	5590	4665	6261	4857	6950	5110	7307	5206	8406
	8	15	11.9	3837	4037	3985	4552	4116	5075	4351	5345	4377	6174
		20	21.2	4020	4491	4186	5075	4343	5668	4587	6060	4639	6915
		25	33.1	4168	4848	4343	5476	4517	6130	4770	6462	4848	7490
		30	47.7	4255	5075	4447	5738	4630	6427	4892	6775	4988	7865
	9	15	11.9	3671	3671	3811	4116	3950	4639	4186	4909	4203	5729
		20	21.2	3828	4020	3994	4595	4151	5188	4395	5494	4456	6427
		25	33.1	3950	4343	4133	4970	4308	5616	4561	5947	4648	6967
		30	47.7	4037	4552	4229	5206	4412	5886	4674	6235	4770	7316
	10	15	11.9	3497	3497	3636	3680	3776	4203	4011	4465	4037	5284
		20	21.2	3636	3636	3802	4116	3959	4700	4203	4997	4264	5930
		25	33.1	3750	3828	3924	4447	4107	5092	4360	5415	4447	6435
		30	47.7	3819	4011	4011	4665	4194	5345	4456	5685	4561	6758

Remark:

1. DB: Dry Bulb Temp.

WB: Wet Bulb Temp.

TH: Total heat

SH: Sensible heat

2. Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)

Cooling Capacity Table

unit: W

Model	Water inlet temp. °C	Water flow volume LPM	Hydraulic pressure drop kPa	Air inlet condition									
				DB24°C		DB25°C		DB26°C		DB27°C		DB28°C	
				WB17°C		WB18°C		WB19°C		WB19.5°C		WB21°C	
SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH		
MKA-850 MKT-850	5	15	11.9	5020	6070	5170	6670	5320	7290	5590	7600	5610	8580
		20	21.2	5290	6740	5480	7410	5650	8110	5930	8470	5990	9580
		25	33.1	5510	7250	5710	7990	5910	8750	6200	9140	6280	10350
		30	47.7	5650	7570	5870	8350	6080	9150	6370	9750	6480	10840
	6	15	11.9	4810	5590	4970	6190	5120	6800	5390	7120	5410	8090
		20	21.2	5070	6210	5250	6890	5430	7580	5710	8090	5760	9040
		25	33.1	5260	6690	5470	7430	5670	8180	5950	8570	6040	9770
		30	47.7	5390	7000	5610	7770	5820	8570	6120	8980	6220	10240
	7	15	11.9	4610	5110	4770	5710	4920	6320	5190	6630	5210	7590
		20	21.2	4840	5690	5020	6660	5200	7250	5480	7860	5540	8490
		25	33.1	5020	6130	5220	6960	5420	7710	5710	8070	5800	9190
		30	47.7	5140	6410	5350	7180	5570	7970	5860	8380	5970	9640
	8	15	11.9	4400	4630	4570	5220	4720	5820	4990	6130	5020	7080
		20	21.2	4610	5150	4800	5820	4980	6500	5260	6950	5320	7930
		25	33.1	4780	5560	4980	6280	5180	7030	5470	7410	5560	8590
		30	47.7	4880	5820	5100	6580	5310	7370	5610	7770	5720	9020
	9	15	11.9	4210	4210	4370	4720	4530	5320	4800	5630	4820	6570
		20	21.2	4390	4610	4580	5270	4760	5950	5040	6300	5110	7370
		25	33.1	4530	4980	4740	5700	4940	6440	5230	6820	5330	7990
		30	47.7	4630	5220	4850	5970	5060	6750	5360	7150	5470	8390
	10	15	11.9	4010	4010	4170	4220	4330	4820	4600	5120	4630	6060
		20	21.2	4170	4170	4360	4720	4540	5390	4820	5730	4890	6800
		25	33.1	4300	4390	4500	5100	4710	5840	5000	6210	5100	7380
		30	47.7	4380	4600	4600	5350	4810	6130	5110	6520	5230	7750

Remark:

1. DB: Dry Bulb Temp.

WB: Wet Bulb Temp.

TH: Total heat

SH: Sensible heat

2. Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)

Cooling Capacity Table

unit: W

Model	Water inlet temp. °C	Water flow volume LPM	Hydraulic pressure drop kPa	Air inlet condition									
				DB24°C		DB25°C		DB26°C		DB27°C		DB28°C	
				WB17°C		WB18°C		WB19°C		WB19.5°C		WB21°C	
SH	TH	SH	TH	SH	TH	SH	TH	SH	TH	SH	TH		
MKA-950 MKT-950	5	15	11.9	5543	6702	5708	7364	5874	8049	6172	8391	6194	9473
		20	21.2	5841	7442	6050	8181	6238	8954	6547	9352	6613	10577
		25	33.1	6084	8005	6304	8822	6525	9661	6845	10091	6934	11427
		30	47.7	6238	8358	6481	9219	6713	10102	7033	10765	7154	11968
	6	15	11.9	5311	6172	5487	6834	5653	7508	5951	7861	5973	8932
		20	21.2	5598	6856	5796	7607	5995	8369	6304	8932	6360	9981
		25	33.1	5808	7386	6039	8203	6260	9031	6569	9462	6669	10787
		30	47.7	5951	7729	6194	8579	6426	9462	6757	9915	6867	11306
	7	15	11.9	5090	5642	5267	6304	5432	6978	5730	7320	5752	8380
		20	21.2	5344	6282	5543	7353	5741	8005	6050	8678	6117	9374
		25	33.1	5543	6768	5763	7684	5984	8513	6304	8910	6404	10147
		30	47.7	5675	7077	5907	7927	6150	8800	6470	9252	6591	10643
	8	15	11.9	4858	5112	5046	5763	5211	6426	5509	6768	5543	7817
		20	21.2	5090	5686	5300	6426	5498	7177	5808	7673	5874	8755
		25	33.1	5278	6139	5498	6934	5719	7762	6039	8181	6139	9484
		30	47.7	5388	6426	5631	7265	5863	8137	6194	8579	6315	9959
	9	15	11.9	4648	4648	4825	5211	5002	5874	5300	6216	5322	7254
		20	21.2	4847	5090	5057	5819	5255	6569	5565	6956	5642	8137
		25	33.1	5002	5498	5233	6293	5454	7110	5774	7530	5885	8822
		30	47.7	5112	5763	5355	6591	5587	7453	5918	7894	6039	9263
	10	15	11.9	4427	4427	4604	4659	4781	5322	5079	5653	5112	6691
		20	21.2	4604	4604	4814	5211	5013	5951	5322	6326	5399	7508
		25	33.1	4748	4847	4968	5631	5200	6448	5520	6856	5631	8148
		30	47.7	4836	5079	5079	5907	5311	6768	5642	7199	5774	8557

Remark:

- DB: Dry Bulb Temp.                      WB: Wet Bulb Temp.  
TH: Total heat                              SH: Sensible heat
- Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)

Cooling Capacity Table

unit: W

Model	Water inlet temp. °C	Water flow volume LPM	Hydraulic pressure drop kPa	Air inlet condition									
				DB24°C		DB25°C		DB26°C		DB27°C		DB28°C	
				WB17°C		WB18°C		WB19°C		WB19.5°C		WB21°C	
				SH	TH	SH	TH	SH	TH	SH	TH	SH	TH
MKA-1200 MKT-1200	5	25	18.2	7840	9890	8110	10880	8370	11910	8780	12430	8860	14040
		32	29.8	8070	10450	8360	11500	8640	12600	9060	13150	9170	14880
		35	35.6	8260	10890	8560	12000	8860	13140	9290	13730	9430	15550
		40	46.5	8450	11240	8730	12390	9040	13580	9480	14190	9630	16080
	6	25	18.2	7510	9120	7770	10110	8040	11130	8450	11650	8530	13250
		32	29.8	7720	9640	8010	10700	8290	11780	8710	12330	8820	14050
		35	35.6	7890	10060	8190	11160	8490	12290	8920	12880	9060	14680
		40	46.5	8030	10390	8350	11530	8660	12710	9100	13320	9260	15700
	7	25	18.2	7170	8350	7440	9330	7700	10340	8120	10350	8200	12440
		32	29.8	7360	8830	7660	9870	7940	10950	8360	11259	8480	13200
		35	35.6	7520	9210	7830	10300	8130	11430	8560	12010	8700	13810
		40	46.5	7640	9520	7970	10650	8280	11830	8720	12430	8880	14300
	8	25	18.2	6840	7560	7110	8540	7380	9540	7790	10050	7880	11630
		32	29.8	7010	8010	7310	9040	7590	10110	8020	10650	8140	12340
		35	35.6	7150	8350	7460	9440	7760	10560	8200	11140	8340	12910
		40	46.5	7270	8640	7590	9760	7910	10930	8350	11530	8510	13380
	9	25	18.2	6510	6770	6790	7730	7050	8730	7470	9230	7560	10800
		32	29.8	6670	7170	6960	8200	7250	9260	7680	9800	7800	11470
		35	35.6	6790	7480	7100	8560	7410	9680	7840	10250	7990	12010
		40	46.5	6890	7740	7220	8860	7530	10020	7980	10610	8140	12450
	10	25	18.2	6190	6190	6470	6920	6730	7910	7150	8410	7250	9960
		32	29.8	6320	6320	6620	7340	6910	8390	7340	8930	7460	10590
		35	35.6	6430	6600	6740	7670	7050	8770	7490	9340	7640	11090
		40	46.5	6520	6830	6850	7940	7170	9090	7610	9680	7780	11500

Remark:

- DB: Dry Bulb Temp.                      WB: Wet Bulb Temp.  
TH: Total heat                              SH: Sensible heat
- Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)

Cooling Capacity Table

unit: W

Model	Water inlet temp. °C	Water flow volume LPM	Hydraulic pressure drop kPa	Air inlet condition									
				DB24°C		DB25°C		DB26°C		DB27°C		DB28°C	
				WB17°C		WB18°C		WB19°C		WB19.5°C		WB21°C	
				SH	TH	SH	TH	SH	TH	SH	TH	SH	TH
MKA-1500 MKT-1500	5	25	18.2	7840	9890	8110	10880	8370	11910	8780	12430	8860	14040
		32	29.8	8070	10450	8360	11500	8640	12600	9060	13150	9170	14880
		35	35.6	8260	10890	8560	12000	8860	13140	9290	13730	9430	15550
		40	46.5	8450	11240	8730	12390	9040	13580	9480	14190	9630	16080
	6	25	18.2	7510	9120	7770	10110	8040	11130	8450	11650	8530	13250
		32	29.8	7720	9640	8010	10700	8290	11780	8710	12330	8820	14050
		35	35.6	7890	10060	8190	11160	8490	12290	8920	12880	9060	14680
		40	46.5	8030	10390	8350	11530	8660	12710	9100	13320	9260	15700
	7	25	18.2	7170	8350	7440	9330	7700	10340	8120	10350	8200	12440
		32	29.8	7360	8830	7660	9870	7940	10950	8360	11259	8480	13200
		35	35.6	7520	9210	7830	10300	8130	11430	8560	12010	8700	13810
		40	46.5	7640	9520	7970	10650	8280	11830	8720	12430	8880	14300
	8	25	18.2	6840	7560	7110	8540	7380	9540	7790	10050	7880	11630
		32	29.8	7010	8010	7310	9040	7590	10110	8020	10650	8140	12340
		35	35.6	7150	8350	7460	9440	7760	10560	8200	11140	8340	12910
		40	46.5	7270	8640	7590	9760	7910	10930	8350	11530	8510	13380
	9	25	18.2	6510	6770	6790	7730	7050	8730	7470	9230	7560	10800
		32	29.8	6670	7170	6960	8200	7250	9260	7680	9800	7800	11470
		35	35.6	6790	7480	7100	8560	7410	9680	7840	10250	7990	12010
		40	46.5	6890	7740	7220	8860	7530	10020	7980	10610	8140	12450
10	25	18.2	6190	6190	6470	6920	6730	7910	7150	8410	7250	9960	
	32	29.8	6320	6320	6620	7340	6910	8390	7340	8930	7460	10590	
	35	35.6	6430	6600	6740	7670	7050	8770	7490	9340	7640	11090	
	40	46.5	6520	6830	6850	7940	7170	9090	7610	9680	7780	11500	

Remark:

1. DB: Dry Bulb Temp.

WB: Wet Bulb Temp.

TH: Total heat

SH: Sensible heat

2. Table above is based on normal type fan coil high speed air-flow volume; cooling capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)

## Heating Capacity Table:

unit: W

Model	Water Flow volume(LPM)	Hydraulic Pressure Drop (kPa)	Air inlet condition DB18℃						
			Water inlet temp.						
			40	45	50	55	60	70	80
MKB-300 MKT-300	6	4.6	2454	3064	3682	4292	4910	6138	7368
	8	8.1	2599	3245	3980	4538	4538	6484	7778
	10	12.7	2686	3359	4033	4698	4698	6708	8057
	12	18.2	2754	3436	4128	4821	4821	6876	8253
MKB-400 MKT-400	6	4.6	2950	3620	4290	4960	5630	6970	8310
	8	8.1	3110	3813	4530	5240	5950	7360	8780
	10	12.7	3220	3948	4690	5420	6160	7630	9090
	12	18.2	3300	4178	4810	5560	6310	7810	9320
MKB-450 MKT-450	6	4.6	3970	4880	5780	6690	7590	9400	11210
	8	8.1	4290	5260	6240	7210	8190	10140	12090
	10	12.7	4470	5480	6500	7510	8530	10560	12590
	12	18.2	4580	5620	6670	7710	8750	10840	12920
MKB-500 MKT-500	10	13.5	4357	5344	6330	7372	8294	10270	12252
	15	30.4	4693	5766	6837	7902	8952	11080	13216
	20	54.0	4890	6005	7118	8235	9318	11540	13760
	25	84.4	5018	6159	7306	8448	9565	11837	14117
MKA-600 MKT-600	10	13.5	5120	6280	7440	8610	9770	12100	14430
	15	30.4	5520	6770	8030	9280	10540	13050	15560
	20	54.0	5750	7060	8360	9670	10980	13590	16210
	25	84.4	5900	7240	8580	9920	11260	13950	16630
MKA-750 MKT-750	15	11.9	5986	7357	8920	9989	11543	14251	17011
	20	21.2	6231	7656	9078	10492	11887	14713	17548
	25	33.1	6493	7974	9452	10935	12373	15323	18271
	30	47.7	6663	8178	9701	11218	12701	15718	18745
MKA-850 MKT-850	15	11.9	6700	8230	9750	11280	12800	15850	18900
	20	21.2	7050	8650	10260	11860	13460	16670	19870
	25	33.1	7280	8930	10590	12240	13900	17210	20520
	30	47.7	7440	9130	10830	12520	14210	17590	20980
MKA-950 MKT-950	15	11.9	7789	9554	11329	13096	14837	18354	21895
	20	21.2	8193	10051	11905	13779	15599	19313	23027
	25	33.1	8448	10378	12303	14221	16110	19940	23782
	30	47.7	8650	10613	12572	14537	16460	20382	24306
MKA-1200 MKT-1200	25	18.2	10350	12700	15050	17410	17960	24470	29170
	32	29.8	10650	13070	15500	17920	20340	25190	30030
	35	35.6	10880	13360	15830	18310	20780	25730	30680
	40	46.5	11060	13580	16090	18610	21130	26160	31190
MKA-1500 MKT-1500	25	18.2	11871	14575	17273	19980	22627	27998	33401
	32	29.8	12332	15131	17939	20742	23482	29073	34667
	35	35.6	12650	15532	18408	21279	24101	29828	35588
	40	46.5	12904	15826	18756	21697	24573	30409	36264



## Heating Capacity Table:

unit: W

Model	Water Flow volume LPM	Hydraulic Pressure Drop kPa	Air inlet condition DB20°C						
			Water inlet temp.						
			40	45	50	55	60	70	80
<b>MKB-300</b> <b>MKT-300</b>	6	4.6	2226	2840	3454	4067	4690	6918	7145
	8	8.1	2364	3014	3655	4306	4956	6256	7548
	10	12.7	2446	31224	3793	4461	5139	6476	7823
	12	18.2	2510	3197	9884	4580	5267	6641	8015
<b>MKB-400</b> <b>MKT-400</b>	6	4.6	2680	3350	4020	4690	5360	6700	8040
	8	8.1	2830	3540	4250	4950	5660	7080	8500
	10	12.7	2930	3660	4400	5150	5860	7330	8800
	12	18.2	3000	3750	4510	5260	6010	7510	9020
<b>MKB-450</b> <b>MKT-450</b>	6	4.6	2945	3745	4544	5350	6149	7755	9360
	8	8.1	3028	3948	4816	5677	6645	8375	10054
	10	12.7	3217	4020	5023	5925	6826	8626	10324
	12	18.2	3307	4230	5160	6084	7007	8853	10557
<b>MKB-500</b> <b>MKT-500</b>	10	13.5	3610	4520	5420	6320	7230	9040	10850
	15	30.4	3900	4870	5850	6820	7800	9750	11700
	20	54.0	4060	5070	6090	7110	8120	10150	12190
	25	84.4	4160	5210	6250	7290	8330	10420	12500
<b>MKA-600</b> <b>MKT-600</b>	10	13.5	4650	5810	6980	8140	9310	11630	13960
	15	30.4	5020	6270	7530	8780	10040	12550	15060
	20	54.0	5220	6530	7840	9150	10450	13070	15680
	25	84.4	5350	6700	8040	9380	10730	13410	16090
<b>MKA-750</b> <b>MKT-750</b>	15	11.9	5662	6961	8240	9594	10891	13522	16157
	20	21.2	5867	7279	8711	10015	11224	14185	17997
	25	33.1	5905	7473	8962	10233	11187	14845	18097
	30	47.7	6060	7561	9096	10600	12099	15125	18223
<b>MKA-850</b> <b>MKT-850</b>	15	11.9	6090	7620	9140	10670	12190	15240	18290
	20	21.2	6410	8010	9610	11220	12820	16030	19230
	25	33.1	6620	8270	9930	11580	13240	16550	19860
	30	47.7	6760	8460	10150	11840	13530	16920	20300
<b>MKA-950</b> <b>MKT-950</b>	15	11.9	7084	8834	10621	12375	14134	17661	21207
	20	21.2	7451	9293	11162	13020	14859	18584	22304
	25	33.1	7684	9595	11534	13438	15347	19187	23035
	30	47.7	7867	9813	11787	13737	15679	19613	23542
<b>MKA-1200</b> <b>MKT-1200</b>	25	18.2	9410	11760	14110	16470	18820	23530	28230
	32	29.8	9680	12110	14530	16950	19370	24220	29060
	35	35.6	9890	12370	14840	17320	19790	24740	29690
	40	46.5	10060	12570	15090	17600	20120	25150	30180
<b>MKA-1500</b> <b>MKT-1500</b>	25	18.2	10797	13476	16194	18880	21555	26941	32352
	32	29.8	11216	13990	16819	19600	22369	27976	33578
	35	35.6	11505	14361	17259	20108	22959	28702	34469
	40	46.5	11736	14632	17585	20503	23408	29261	35124

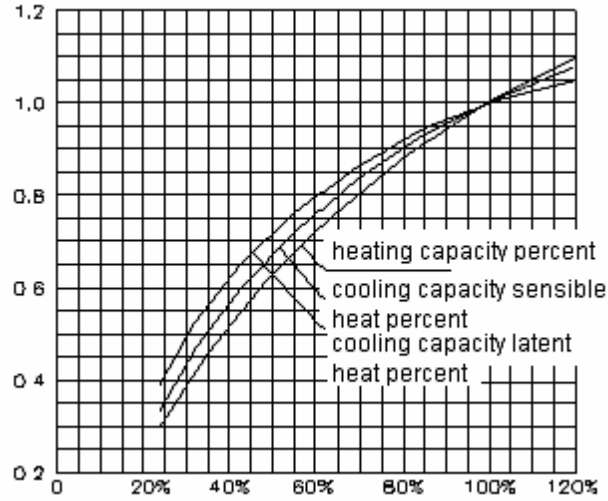
## Heating Capacity Table:

unit: W

Model	Water Flow volume LPM	Hydraulic Pressure Drop kPa	Air inlet condition DB21 °C						
			Water inlet temp.						
			40	45	50	55	60	70	80
MKB-300 MKT-300	6	4.6	2062	2528	2996	3463	3932	4869	5805
	8	8.1	2265	2776	3211	3712	4213	5211	6216
	10	12.7	2498	3063	3638	4204	4778	5912	7043
	12	18.2	2593	3284	3781	4370	4962	6230	7434
MKB-400 MKT-400	6	4.6	2540	3210	3880	4550	5230	6570	7910
	8	8.1	2690	3400	4100	4810	5520	6940	8350
	10	12.7	2780	3520	4250	4980	5720	7180	8650
	12	18.2	2850	3600	4350	5110	5860	7360	8860
MKB-450 MKT-450	6	4.6	2313	4006	4811	5613	6405	8012	9621
	8	8.1	3460	4322	5196	6053	6914	8644	10378
	10	12.7	3605	4501	5411	6309	7196	9003	10805
	12	18.2	3700	4616	5553	6472	7387	9235	11085
MKB-500 MKT-500	10	13.5	3430	4340	5240	6140	7050	8860	10670
	15	30.4	3700	4680	5650	6630	7600	9550	11500
	20	54.0	3860	4870	5890	6900	7920	9950	11980
	25	84.4	3960	5000	6040	7080	8130	10210	12290
MKA-600 MKT-600	10	13.5	4420	5580	6740	7910	9070	11400	13730
	15	30.4	4760	6020	7280	8530	9790	12300	14810
	20	54.0	4960	6270	7580	8890	10190	12810	15420
	25	84.4	5090	6430	7780	9120	10460	13140	15820
MKA-750 MKT-750	15	11.9	5121	6597	7806	9126	10495	13265	16094
	20	21.2	5272	6793	8215	9626	11048	13880	16713
	25	33.1	5497	6976	8554	10032	11499	14456	17401
	30	47.7	5644	7256	8780	10292	11804	14828	17852
MKA-850 MKT-850	15	11.9	5790	7310	8840	10360	11890	14930	17980
	20	21.2	6090	7690	9290	10900	12500	15710	18910
	25	33.1	6280	7940	9600	11250	12910	16220	19530
	30	47.7	6430	8120	9810	11500	13190	16580	19960
MKA-950 MKT-950	15	11.9	6715	8478	10252	12015	13789	17315	20852
	20	21.2	7063	8918	10774	13641	14497	18220	21931
	25	33.1	7283	9208	11134	13047	14972	18811	22650
	30	47.7	7457	9417	11377	13337	15297	19228	23148
MKA-1200 MKT-1200	25	18.2	8940	11290	13640	16000	18350	23050	27760
	32	29.8	9200	11620	14040	16470	18890	23730	28580
	35	35.6	9400	11870	14350	16820	19300	24250	29190
	40	46.5	9550	12070	14590	17100	19620	24650	29680
MKA-1500 MKT-1500	25	18.2	10234	12933	15631	18330	21029	26413	31811
	32	29.8	10631	13426	16234	19029	21824	27427	33016
	35	35.6	10905	13782	16659	19522	22399	28139	33893
	40	46.5	11124	14042	16974	19906	22838	28687	34537

Remark:

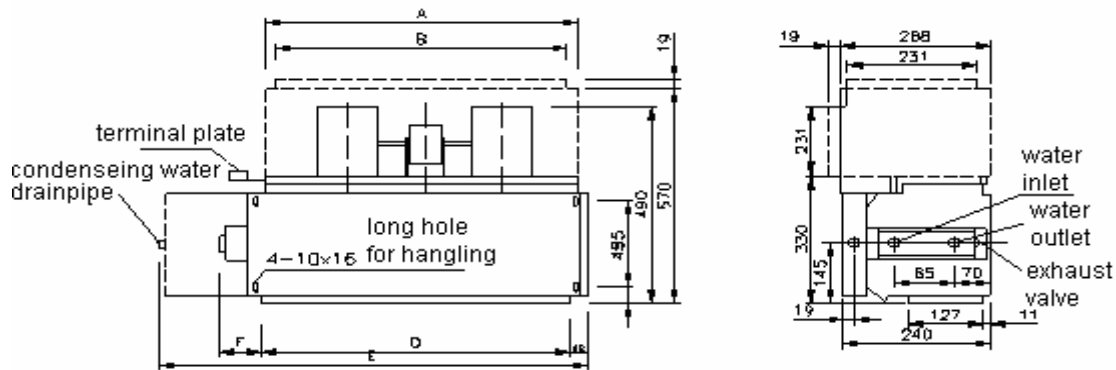
1. DB: Dry Bulb Temp.                      WB: Wet Bulb Temp.  
    TH: Total heat                            SH: Sensible heat
2. Table above is based on normal type fan coil high speed air-flow volume; heating capacity on other speed air flow volume should multiply with corresponding capacity modification coefficient (refer to capacity modification coefficient diagram.)



Capacity modification coefficient diagram

## Chapter 5 Dimension

### (1) Duct-type fan coil



model	MKT-300	MKT-400	MKT-450	MKT-500 MKT-600	MKT-750, MKT-850	MKT-950	MKT-1200 MKT-1500
dimension							
A		582		882	1082		1347
B		552		852	1052		1317
C		615		915	1115		1380
D		587		887	1087		1352
E		975		1275	1445		1995
F		94		94	94		94

**Notice:**

1. Example above is based on double scroll cases type, it may be different from the one you chose
2. Double-dash line in drawing is the dimension of air-return box (down air-return type and rear air-return type)
3. If customer need air-return box, please declare when booking, furthermore, please explain whether it is down air-return type or rear air-return type.

(2)Cassette type

MKB-300、MKB-400、MKB-450、MKB-500

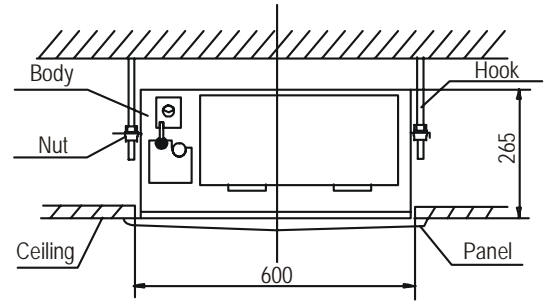
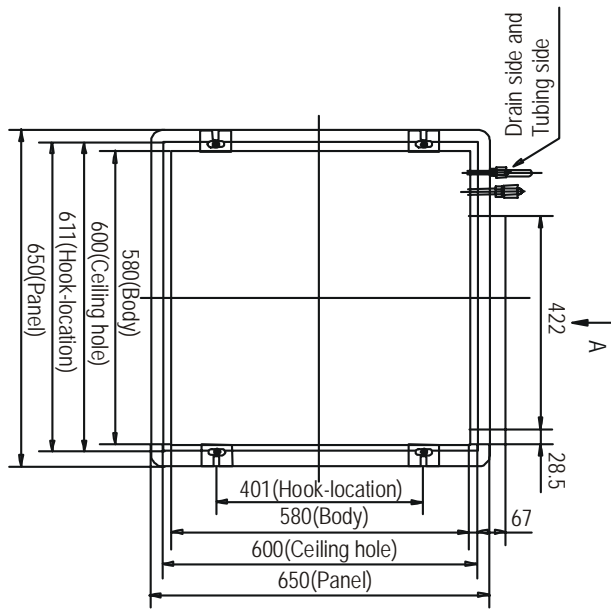
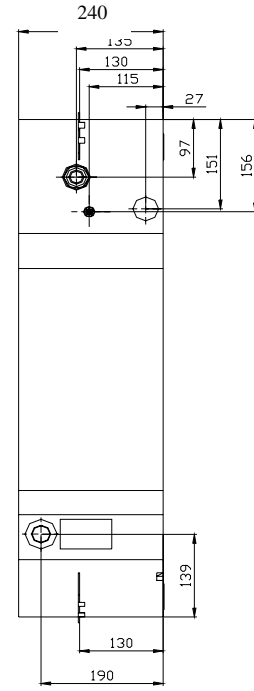
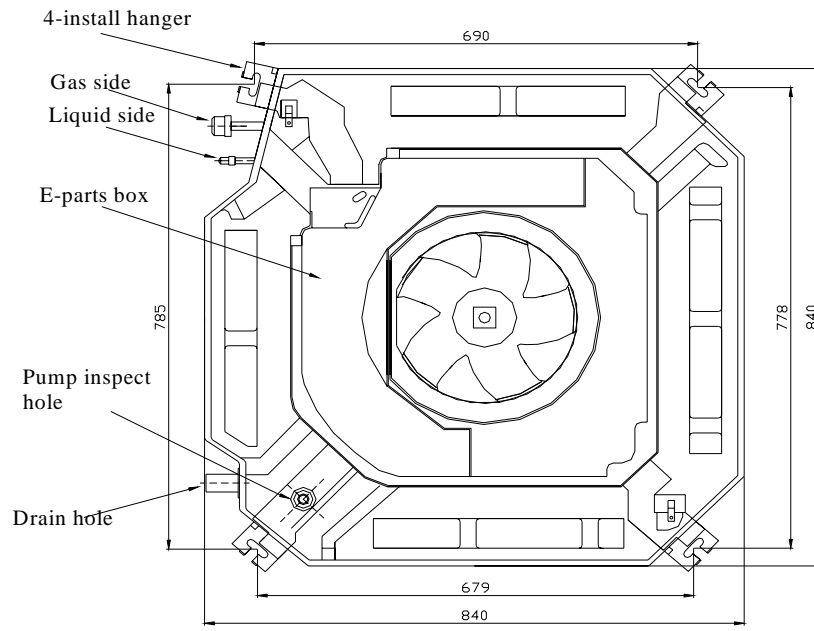
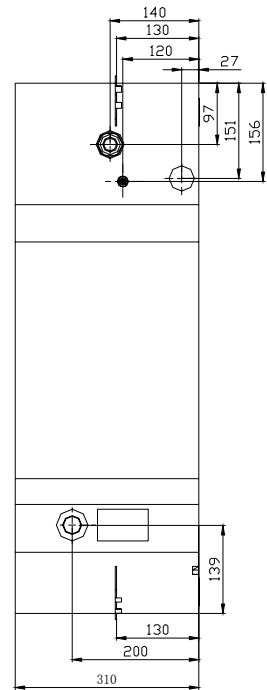
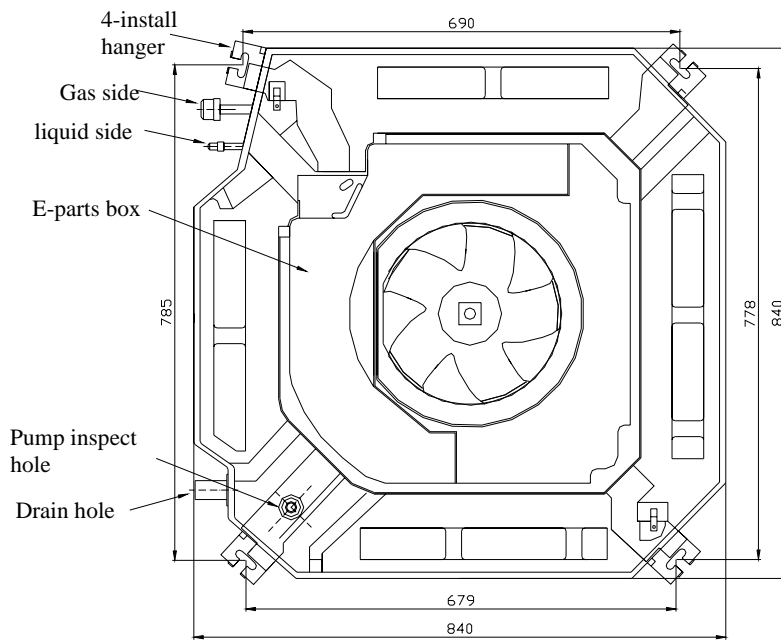


Chart 4

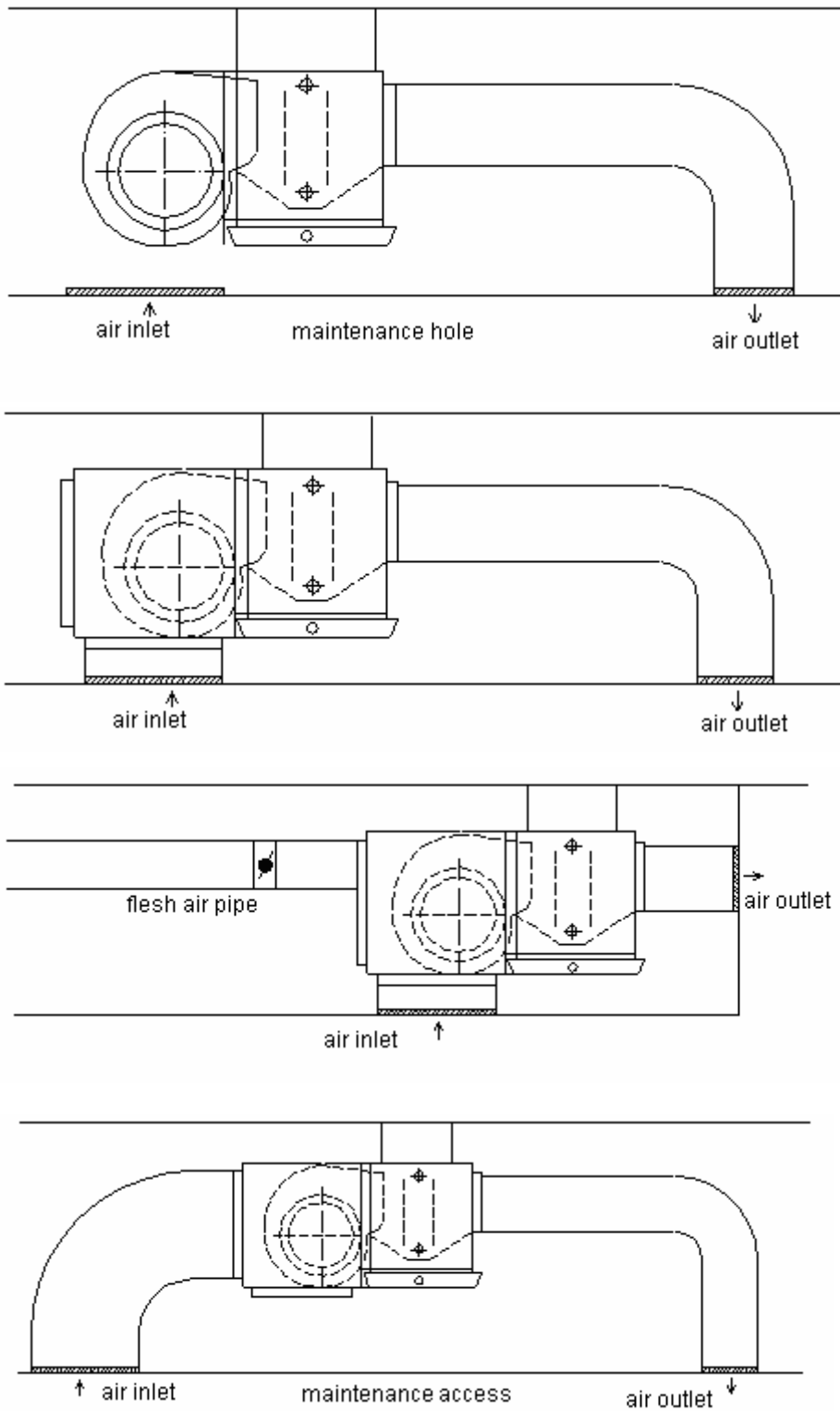
MKA-600、MKA-750



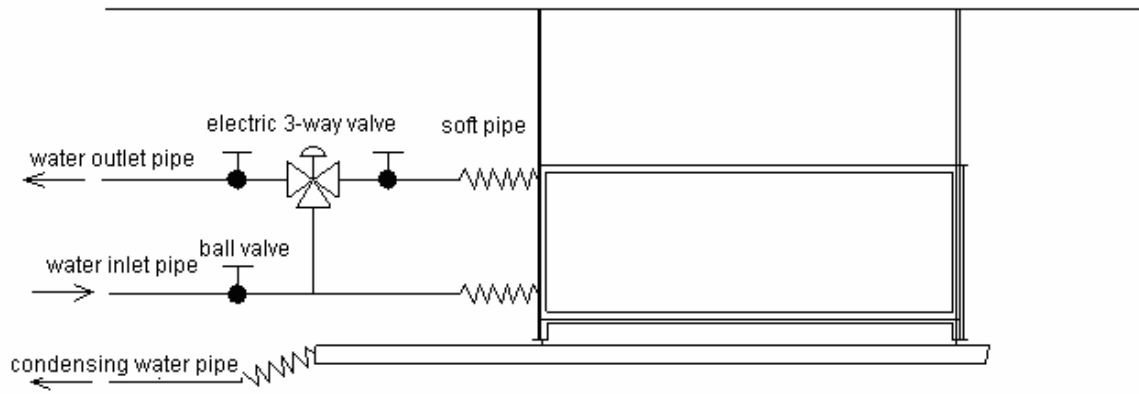
MKA-850、MKA-950、MKA-1200、MKA-1500



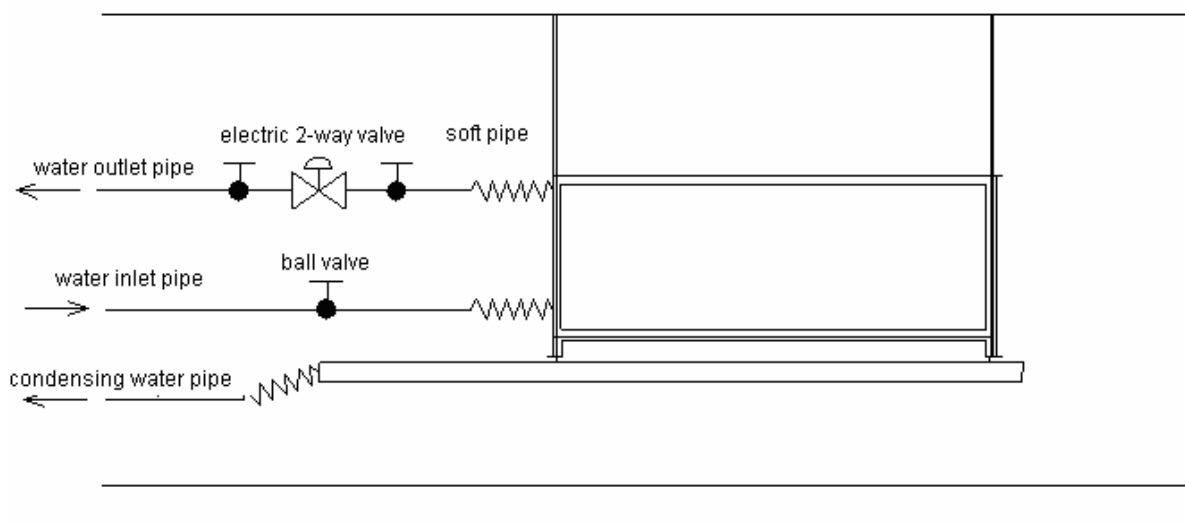
**Chapter 6 Installation Sketch Map (take Duct type as example)**



Air pipeline installation sketch



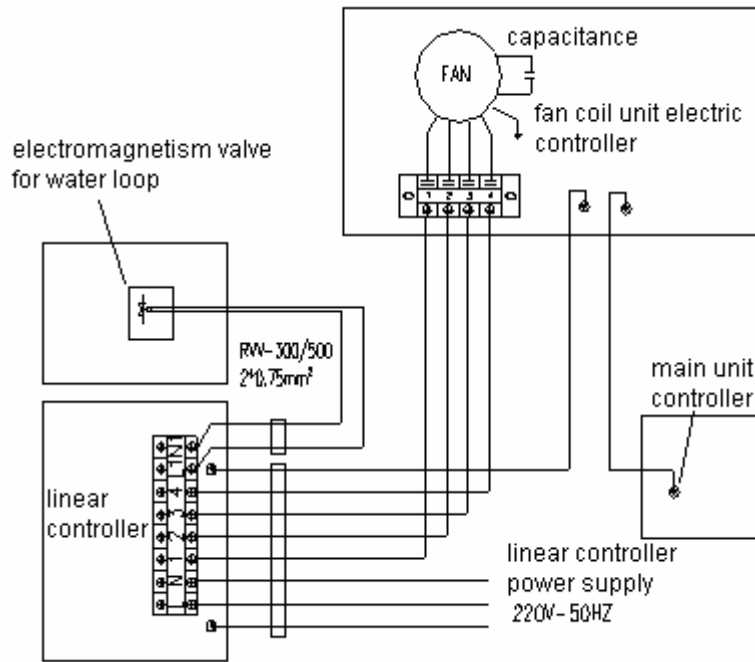
Constant water flux system pipeline sketch



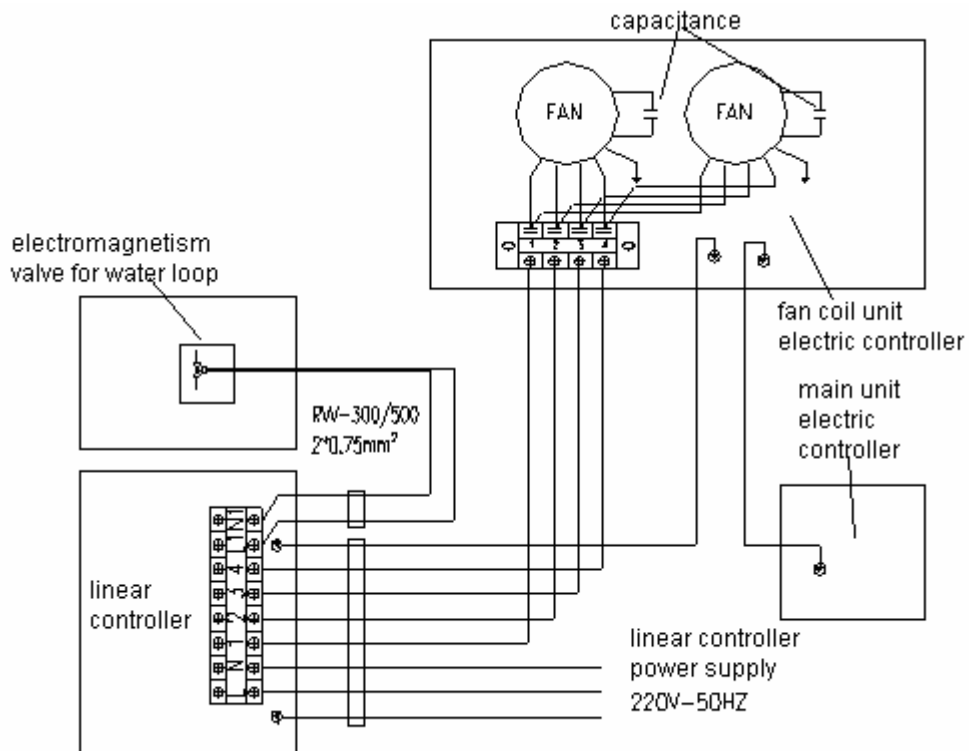
Variable water volume system pipeline sketch



## Chapter 7 Wiring Diagram

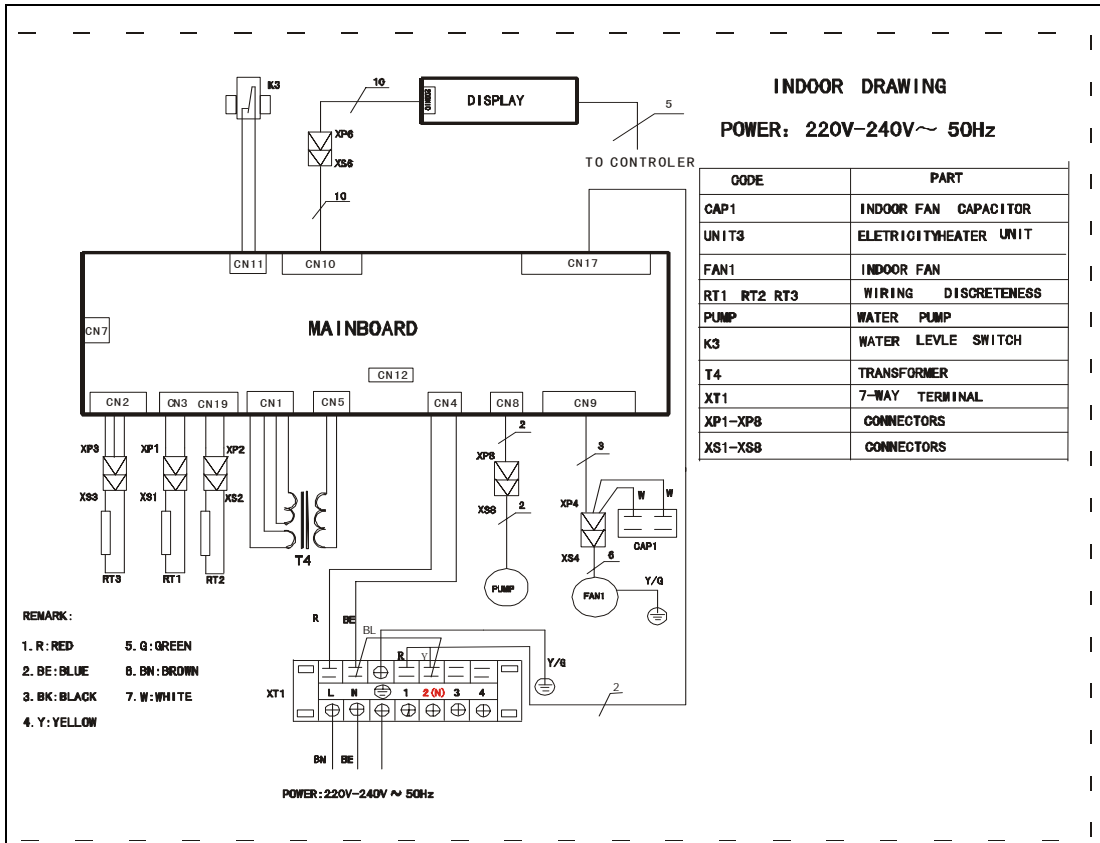


Duct-type fan coil wiring diagram(Applicable to MKT-300~MKT-950 fan coil)

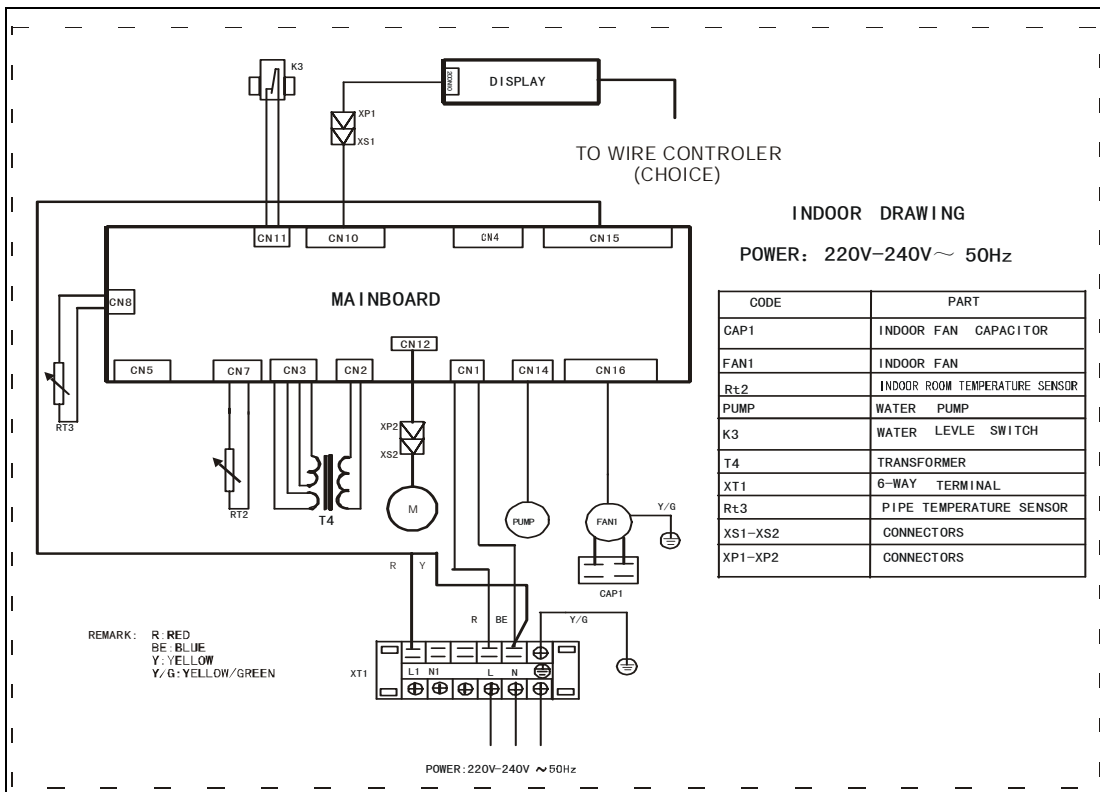


Thin type fan coil wiring diagram(Apply to MKT-1200~MKT-1500 type unit)

### Cassette (compact) wiring diagram



### Cassette wiring diagram



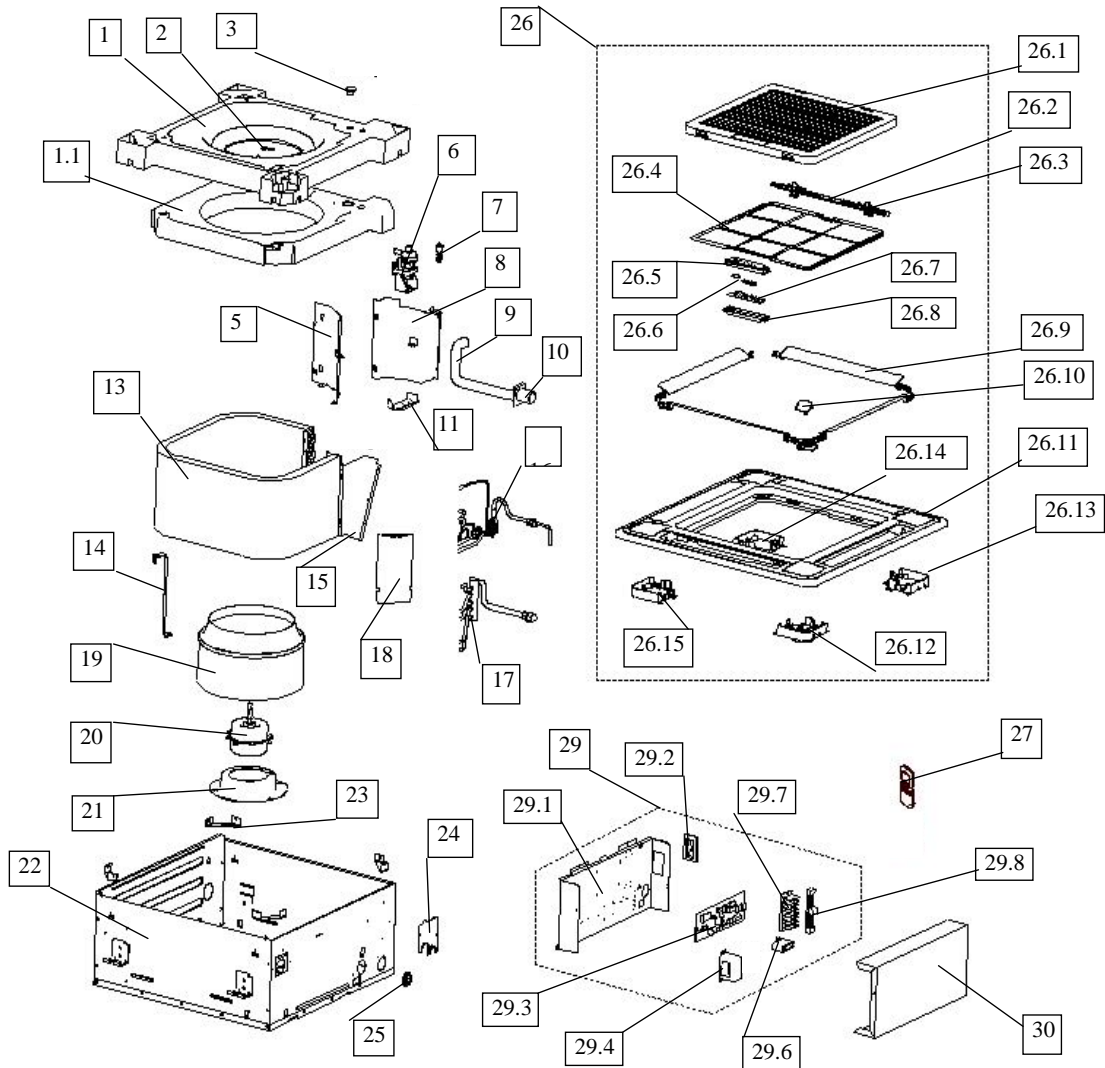
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## **Chapter 8 Unit installation, Operation and Maintenance**

1. Unit installation: unit should be fixed by supporter and hanger, and easy disassembly and maintenance. Pay attention to keep unit's outer integrality and inner rotary components shouldn't be touched by any other part. Ensure to keep any sundries away from fan impeller, motor and heat-exchanger, as well as keep draining side lower at least 3-5mm than the other side to make condensing water draining out well.
2. Air duct connection: install filter at air inlet to prevent fins from being jammed by dirty and keep heat-exchanger working with high efficiency. Installation, please refer to air duct installation sketch above.
3. Water pipeline installation: fan coil chilled water applies down-inlet and up-outlet type, soft pipe should be applied between water pipe and fan coil. Outlet and inlet water pipeline should be heat insulated well. And sealing screw thread connection place by some material made up of polite tra fluoro ethylene (PTFE) to prevent leakage. Moreover, condensing water pipe should be inclined to insure condensate can be drained out well. Fan coil connection should be done after having cleaned pipeline well to avoid jamming heat-exchanger.
4. Electric wiring: unit should be grounded well, and correctly wired, wiring, please refer to corresponding electric wiring sketch.
5. Debugging: clear all possible sundries, and check wire connection, water pipeline connection, after having ensured all connection is well, start unit, please use 3-level speed switch to adjust, it is better to start with high-speed level then shift it to other speed level.
6. Unit running: before normal running, please open manual exhaust valve in water outlet pipeline to drain out air from fan coil and water pipeline, and this operation should be done in term during future's running period. In summer, chilled water Temp should be no less than 5°C; in winter, heated water should be not higher than 65°C, as well as, water should be pre-disposed to achieve demanded quality.
7. Maintenance: fan coil heat-exchanger should be clean and dry in term, as well as the same thing should be done for filter net. It is suggested to fully pour water to fan coil to prevent tube from rusting when stop using. In winter, anti-freeze solutions should be done to prevent tube from being broken caused by freezing.

## Chapter 9 Exploded view

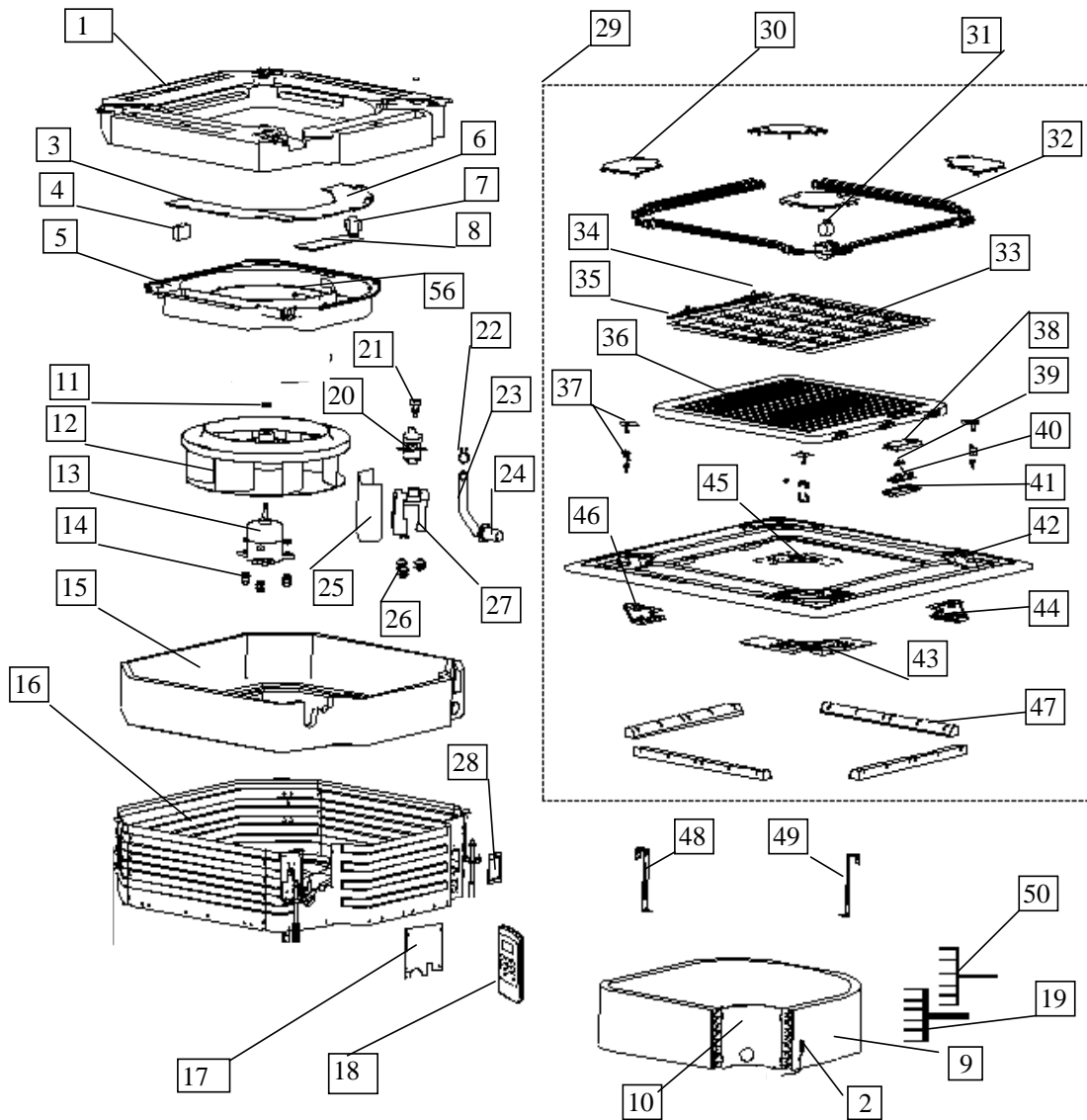
MKB-300、MKB-400、MKB-450、MKB-500



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Collect Water Pan ,Ass'y	1	26.1	Air inlet grille	1
1.1	Foam, Collect Water Pan	1	26.2	Switch cover, air inlet grille	1
2	Wire fixing board	1	26.3	Switch, air inlet grille	2
3	Stopper, Water Drain	1	26.4	Filter	1
5	Evaporator Fixture Board Ass'y	1	26.5	Control box	1
6	Drain Pump	1	26.6	LED holder	1
7	Liquid Position Sensor Ass'y	1	26.7	Control board	1
8	Deseparating board, right	1	26.8	Cover, control box	1
9	Drain pipe	1	26.9	Fan guide	4
10	Extend water pipe	1	26.10	Swing motor	1

11	Drain Pump Holder	1	26.11	Panel	1
13	Evaporator Ass'y	1	26.12	Install cover, swing motor	1
14	Fixing clamp, evaporator	1	26.13	Install cover I	1
15	Deseparating board, left	1	26.14	Install cover II	1
16	Inlet pipe, eva	1	26.15	Install cover I	1
17	Outlet pipe, eva	1	27	Remoter	1
18	Wire crossing board	1	29	E-control Assy	1
19	Fan	1	29.1	Control Box	1
20	Fan Motor	1	29.2	Rubber, wire crossing	1
21	Fan Motor Underlay	1	29.3	PCB Ass'y	1
22	Base Pan Ass'y	1	29.4	Transformer	1
23	Fixing board, water pan	4	29.6	Capacitor	1
24	Sealing board, pipe out I	1	29.7	Base, wire fixing	1
24.1	Sealing board, pipe out II	1	29.8	Cover, wire fixing	1
25	Rubber, wire c	2	30	Control Box Cover	1
26	Panel Ass'y	1			

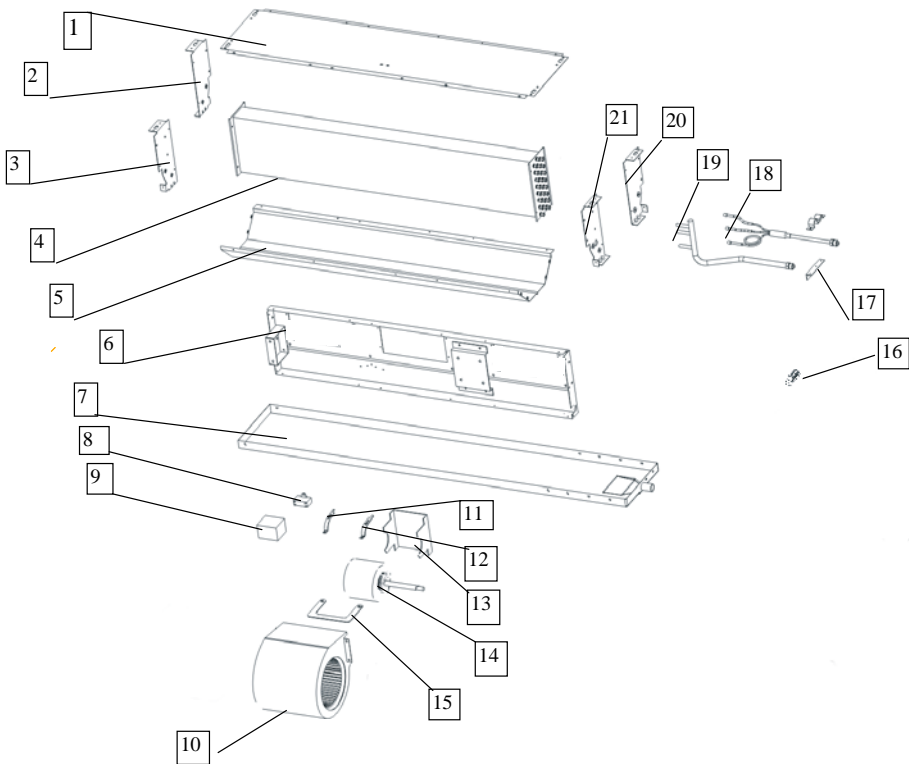
MKA-600、MKA-750、MKA-850、MKA-950、MKA-1200、MKA-1500



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Water Receiver, Ass'y	1	26	Rubber washer, pump	1
2	Pipe Temperature Sensor Ass'y	1	27	holder, pump	1
3	E-Parts Box Cover1	1	28	Water trying board	1
4	Capacity	1	29	Panel Ass'y	4
5	E-Parts Box Ass'y	1	30	Cover, installing	1
6	E-Parts Box Cover2	1	31	Swing motor	4
7	Transformer	1	32	Fan guide	1
8	PCB Ass'y	1	33	Filter	2
9	Evaporator ass'y	1	34	Switch, air inlet grille	1
10	Fixing board, Evaporator	1	35	Switch cover, air inlet grille	1

11	Clamp, fan	1		36	Air inlet grille	4
12	Fan ass'y	1		37	Hanger for panel, ass'y	1
13	Fan Motor	1		38	Control box	1
14	Gasket, motor	4		39	LED holder	1
	Gasket, motor	4		40	Control board	1
15	Evaporator Base ass'y	1		41	Cover, control box	1
16	Base Pan ass'y	1		42	Panel	1
	Wire clamp board	1		43	Back board, Air out 1	1
17	Sealing board, pipe out	1		44	Back board, Air out 2	1
18	Remoter	1		45	Back board, Air out 3	1
19	Eva out pipe, ass'y	1		46	Back board, Air out 4	4
20	Drain Pump ass'y	1		47	Foam, air out 1	4
21	Water switch	1			Foam, air out 2	1
22	Clamp, water pipe	1		48	Fixing hanger, Evaporator	2
23	Water pipe	1		49	Fixing hanger, Evaporator	1
24	Extend water pipe	1		50	Eva in pipe, ass'y	
25	Separate board, pump	1				

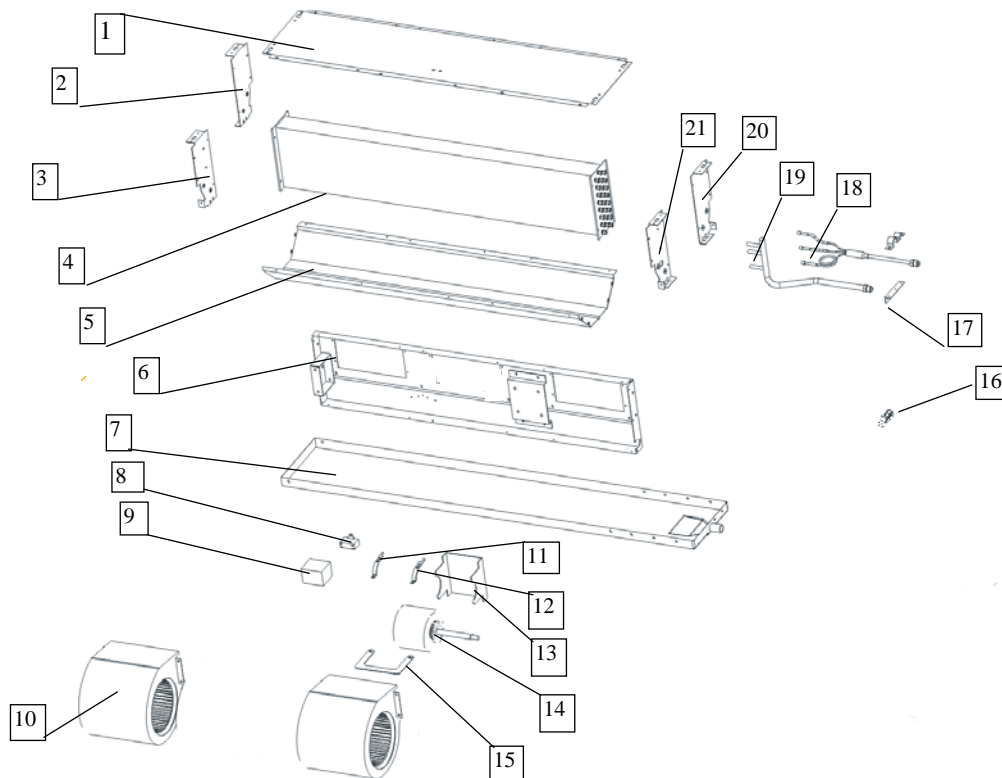
**MKT-300, MKT-400**



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Cover	1	12	Left fixing clamp for motor	1
2	Rear-right clapboard	1	13	Holder for fan motor	1
3	Front-right clapboard	1	14	Fan motor	1
4	Evaporator	1	15	Strengthen board for motor	1
5	Guiding board for water draining	1	16	Wire joint,4p	1
6	Middle beam	1	17	Pipe installing board	1
7	Water collector	1	18	Input pipe	1
8	Capacitor	1	19	Output pipe	1
9	Capacitor box	1	20	Rear-left clapboard	1
10	Fan ass'y	1	21	Front-left clapboard	1
11	Right fixing clamp for motor	1			

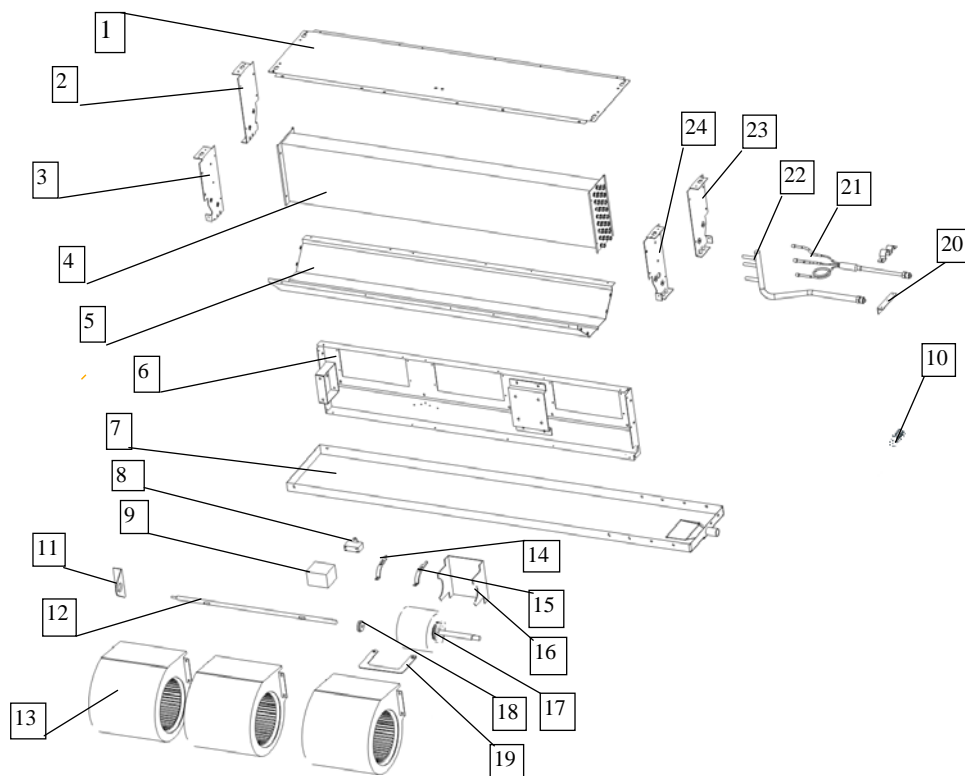


## MKT-450 MKT-500, MKT-600



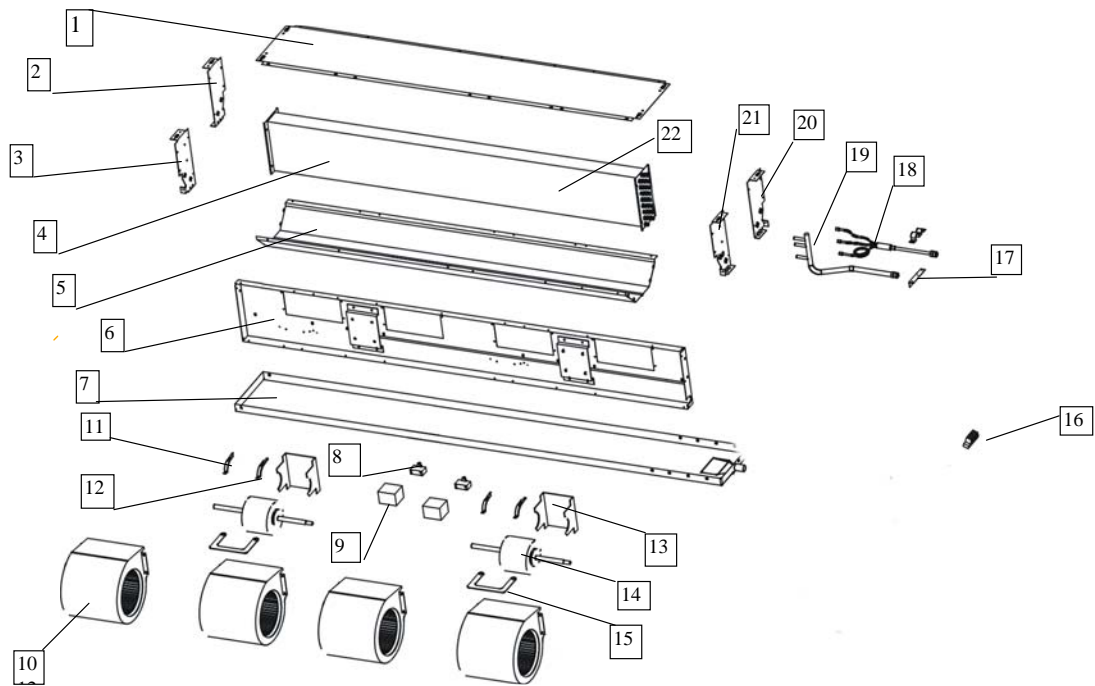
No.	Part Name	quantity	No.	Part Name	quantity
1	Cover	1	12	Left fixing clamp for motor	1
2	Rear-right clapboard	1	13	Holder for fan motor	1
3	Front-right clapboard	1	14	Fan motor	1
4	Evaporator	1	15	Strengthen board for motor	1
5	Guiding board for water draining	1	16	Wire joint,4p	1
6	Middle beam	1	17	Pipe installing board	1
7	Water collector	1	18	Input pipe	1
8	Capacitor	1	19	Output pipe	1
9	Capacitor box	1	20	Rear-left clapboard	1
10	Fan ass'y	2	21	Front-left clapboard	1
11	Right fixing clamp for motor	1			

## MKT-750 MKT-850, MKT-950



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Cover	1	13	Fan assy	1
2	Rear-right clapboard	1	14	Right fixing clamp for motor	1
3	Front-right clapboard	1	15	Left fixing clamp for motor	1
4	Evaporator	1	16	Holder for fan motor	1
5	Guiding board for water draining	1	17	Fan motor	1
6	Middle beam	1	18	coupling	1
7	Water collector	1	19	Strengthen board for motor	1
8	Capacitor	1	20	Pipe installing board	1
9	Capacitor box	1	21	Input pipe	1
10	Wire joint,4p	3	22	Output pipe	1
11	Bearing seat	1	23	Rear-left clapboard	
12	Axis	1	24	Front-left clapboard	

## MKT-1200, MKT-1500



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Cover	1	12	Left fixing clamp for motor	2
2	Rear-right clapboard	1	13	Holder for fan motor	2
3	Front-right clapboard	1	14	Fan motor	2
4	Evaporator1	1	15	Strengthen board for motor	2
5	Guiding board for water draining	1	16	Wire joint,4p	1
6	Middle beam	1	17	Pipe installing board	1
7	Water collector	1	18	Input pipe	1
8	Capacitor	2	19	Output pipe	1
9	Capacitor box	2	20	Rear-left clapboard	1
10	Fan assy	4	21	Front-left clapboard	1
11	Right fixing clamp for motor	2	22	Evaporator II	