

3 CAPACITIES TABLE

3.1. CAPACITY CHARACTERISTIC CURVES

The following charts show the characteristics of outdoor unit capacity, which corresponds with the operating ambient temperature of outdoor unit.

Condition:

① Pipe length / height difference : 5m / 0m

③ Capacity loss due to white frost and defrost operation is not included.

② Indoor fan speed at High mode

3.1.1 RAK-XJ25RHAE/RAC-XJ25WHAE

COOLING [50Hz, 230V]

INDOOR		OUTDOOR TEMPERATURE (°CDW)																				
EWB °C	EDB °C	-10			21			27			32			35			40			43		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12.0	18	1948	1736	269	2302	2416	333	2131	2230	392	2050	2158	443	1975	2063	462	1850	1944	495	1775	1849	515
14.0	20	1948	1736	269	2473	2416	333	2302	2253	397	2200	2158	447	2125	2086	467	1975	1944	500	1900	1873	524
16.0	22	1948	1847	273	2645	2416	337	2449	2253	402	2350	2158	452	2275	2086	476	2125	1944	510	2050	1873	529
18.0	25	2089	1981	277	2816	2625	342	2596	2439	406	2500	2347	457	2400	2252	476	2250	2110	515	2150	2015	534
19.0	27	2159	2048	281	2914	2764	346	2694	2555	411	2600	2466	462	2500	2371	481	2350	2229	515	2250	2134	534
22.0	30	2394	2026	281	3233	2741	346	2988	2532	411	2875	2442	467	2775	2347	486	2500	2276	534	2325	2229	563
24.0	32	2558	2026	286	3453	2741	351	3184	2532	416	3075	2442	467	2950	2347	491	2600	2324	548	2375	2300	582

HEATING [50Hz, 230V]

INDOOR		OUTDOOR TEMPERATURE (°CDW)																						
EDB °C	-15	-10			-7			-5			0			7			10			15				
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI		
16	3232		1216	3482		1316	3640		1368	3589		1248	3451		962	3237		538	3385		595	3659		688
18	3216		1223	3466		1323	3620		1379	3566		1262	3426		977	3218		566	3368		624	3630		720
20	3200		1230	3450		1330	3600		1390	3543		1276	3400		992	3200		593	3350		653	3600		753
22	3184		1237	3434		1337	3580		1401	3520		1290	3374		1006	3182		620	3332		682	3570		786
24	3168		1244	3418		1344	3560		1412	3496		1304	3349		1021	3163		648	3315		711	3541		818

EWB : Evaporator Wet Bulb temperature (°C)
 EDB : Evaporator Dry Bulb temperature (°C)
 (°CDB) : Outdoor Unit Inlet Air Dry Temperature (°C)

TC : Total Capacity (W)
 SHC : Sensible Heating Capacity (W)
 PI : Power Input

3.1.2 RAK-XJ35RHAE/RAC-XJ35WHAE

COOLING [50Hz, 230V]

INDOOR		OUTDOOR TEMPERATURE (°CDW)																				
EWB	EDB	-10			21			27			32			35			40			43		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12.0	18	1856	1413	310	2650	2376	463	2453	2193	546	2870	2581	749	2765	2467	781	2590	2326	838	2485	2212	871
14.0	20	1856	1413	310	2848	2376	463	2650	2216	553	3080	2581	757	2975	2496	790	2765	2326	847	2660	2240	887
16.0	22	1856	1504	314	3045	2376	470	2819	2216	559	3290	2581	765	3185	2496	806	2975	2326	863	2870	2240	895
18.0	25	1990	1613	319	3242	2582	476	2989	2399	565	3500	2808	773	3360	2694	806	3150	2524	871	3010	2411	904
19.0	27	2057	1667	324	3355	2719	482	3101	2513	572	3640	2949	781	3500	2836	814	3290	2666	871	3150	2552	904
22.0	30	2281	1649	324	3722	2696	482	3440	2490	572	4025	2921	790	3885	2808	822	3500	2723	904	3255	2666	952
24.0	32	2437	1649	329	3975	2696	488	3665	2490	578	4305	2921	790	4130	2808	830	3640	2779	928	3325	2751	985

HEATING [50Hz, 230V]

INDOOR		OUTDOOR TEMPERATURE (°CDW)																														
EDB		-15			-10			-7			-5			0			7			10			15									
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI										
16	4040			1431	4415			1418	4651			1400	4572			1302	4364			1074	4046			725	4269			713	4674			691
18	4020			1440	4395			1428	4625			1415	4543			1321	4332			1095	4023			763	4247			753	4637			736
20	4000			1450	4375			1438	4600			1430	4514			1340	4300			1115	4000			800	4225			793	4600			780
22	3980			1460	4355			1447	4575			1445	4485			1359	4268			1135	3977			837	4203			832	4563			824
24	3960			1469	4335			1457	4550			1460	4456			1378	4236			1156	3954			875	4181			872	4526			869

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 (°CDB) : Outdoor Unit Inlet Air Dry Temperature (°C)

TC : Total Capacity (W)
 SHC : Sensible Heating Capacity (W)
 PI : Power Input

3.1.3 RAK-XJ50RHAE/RAC-XJ50WHAE

COOLING [50Hz, 230V]

INDOOR		OUTDOOR TEMPERATURE (°CDW)																				
EWB	EDB	10			21			27			32			35			40			43		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12.0	18	3773	2585	773	3601	2905	774	3333	2681	912	4100	3317	1315	3950	3171	1372	3700	2989	1472	3550	2843	1529
14.0	20	3773	2585	773	3869	2905	774	3601	2709	923	4400	3317	1329	4250	3208	1386	3950	2989	1486	3800	2880	1558
16.0	22	3773	2750	785	4138	2905	784	3831	2709	934	4700	3317	1343	4550	3208	1415	4250	2989	1515	4100	2880	1572
18.0	25	4045	2949	797	4406	3156	794	4061	2933	944	5000	3609	1358	4800	3463	1415	4500	3244	1529	4300	3098	1586
19.0	27	4182	3049	809	4559	3324	804	4214	3072	955	5200	3791	1372	5000	3645	1429	4700	3426	1529	4500	3281	1586
22.0	30	4636	3015	809	5057	3296	804	4674	3044	955	5750	3754	1386	5550	3609	1443	5000	3499	1586	4650	3426	1672
24.0	32	4955	3015	822	5402	3296	815	4981	3044	966	6150	3754	1386	5900	3609	1458	5200	3572	1629	4750	3536	1729

HEATING [50Hz, 230V]

INDOOR		OUTDOOR TEMPERATURE (°CDW)																														
EDB		-15			-10			-7			-5			0			7			10			15									
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI										
16	5442			2181	5630			2212	5727			2249	5744			2156	5807			1898	5933			1585	6049			1611	6193			1658
18	5471			2166	5659			2197	5763			2225	5787			2126	5854			1865	5967			1524	6081			1546	6246			1586
20	5500			2150	5688			2181	5800			2200	5829			2095	5900			1832	6000			1463	6113			1482	6300			1513
22	5529			2134	5717			2166	5837			2175	5871			2064	5946			1798	6033			1402	6144			1417	6354			1440
24	5558			2119	5746			2150	5873			2151	5913			2033	5993			1765	6067			1341	6176			1352	6407			1368

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