

Residential Inverter Heat Pump R32

HAORI Series

Indoor Units

RAS-25N4KVRG-ND

RAS-35N4KVRG-ND

Outdoor Units

RAS-25J2AVSG-ND1

RAS-35J2AVSG-ND1

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1. Line up

Outdoor Unit	Indoor Unit	Model Name		Capacity Rank
		CDU	FCU	
		RAS-25J2AVSG-ND1	RAS-25N4KVRG-ND	10k
		RAS-35J2AVSG-ND1	RAS-35N4KVRG-ND	13k

Accessories

Appearance	Model Name	Remark
	WH-UA01UE	Remote controller : Power Select, Off Timer , Heating setting 5 - 30°C, Swing, Fix, Hi Power, Eco, Fireplace, Self Cleaning, Quiet FCU, Silence CDU, Manual defrost, Self Diagnosis, Heating only compatibility, HADA Care Flow (packed with indoor unit)
	RB-RXS33-E	Remote controller : Power Select, Comfort Sleep, On-Off Timer, 8°C, Weekly Timer, Swing, Fix, Hi Power, Eco, Fireplace, Self Cleaning, Quiet FCU, Silence CDU, Manual defrost, Self Diagnosis, Heating only compatibility, HADA Care Flow, Pure, and wired connection (optional remote controller)
	Toshiba Home AC Controller Application	Adapter built-in Application : temperature monitoring, Power Select , On-Off Timer , 8°C, Swing, fix, Hi Power, Eco, Fireplace, Quiet FCU, Pure, Silence CDU, Error code, Weekly schedule, all ACs and group control, Energy monitoring, Smart speaker Google assistant and Alexa Amazon compatible.

2. Specifications

System	Size		10k	13k
	Indoor		RAS-25N4KVRG-ND	RAS-35N4KVRG-ND
	Outdoor		RAS-25J2AVSG-ND1	RAS-35J2AVSG-ND1
Power supply (V/Ph/Hz)			220 - 240 / 1 / 50	
Cooling	Capacity	(kW)	2.8	3.5
	Power Consumption	(kW)	0.63	0.87
	EER		4.44	4.02
	PdesignC	(kW)	2.80	3.50
	SEER		7.70	7.30
	Indoor Noise (H/L/Q)	(dB)	42/25/19	44/25/19
	Outdoor Noise	(dB)	46	48
	Indoor Air Flow	m³/hr	690	730.0
Heating	Capacity	(kW)	3.2	4.2
	Power Consumption	(kW)	0.65	0.95
	COP		4.92	4.42
	PdesignH (Tbiv -10°C)	(kW)	2.70	3.60
	SCOP		5.10	5.10
	Indoor Noise (H/L/Q)	(dB)	45/25/19	46/25/19
	Outdoor Noise	(dB)	48	49
	Indoor Air Flow	m³/hr	820	840.0
FCU	Dimensions	H x W x D (mm)	300 x 987 x 210	
		Net Weight (kg)	11	11
CDU	Dimensions	H x W x D (mm)	550 x 780 x 290	
		Net Weight (kg)	38	38
Pipe	Chargeless	(m)	15	15
	Maximum Length	(m)	20	20
	Maximum Height	(m)	12	12
	Refrigerant		R32	
	Refrigerant amount	(kg)	0.76	0.76
Energy Label		Cooling / Heating	A++ / A+++	A++ / A+++
Useble Range Temperature		Cooling (°C)	Indoor: 21 ~ 32 °C , Outdoor: (-15) ~ 46 °C	
		Heating (°C)	Indoor: 0 ~ 28 °C , Outdoor: (-25) ~ 24 °C	

For performance when each indoor unit is combined with other unit, refer to the separate table.

* The specifications may be subject to change without notice for purpose of improvement.

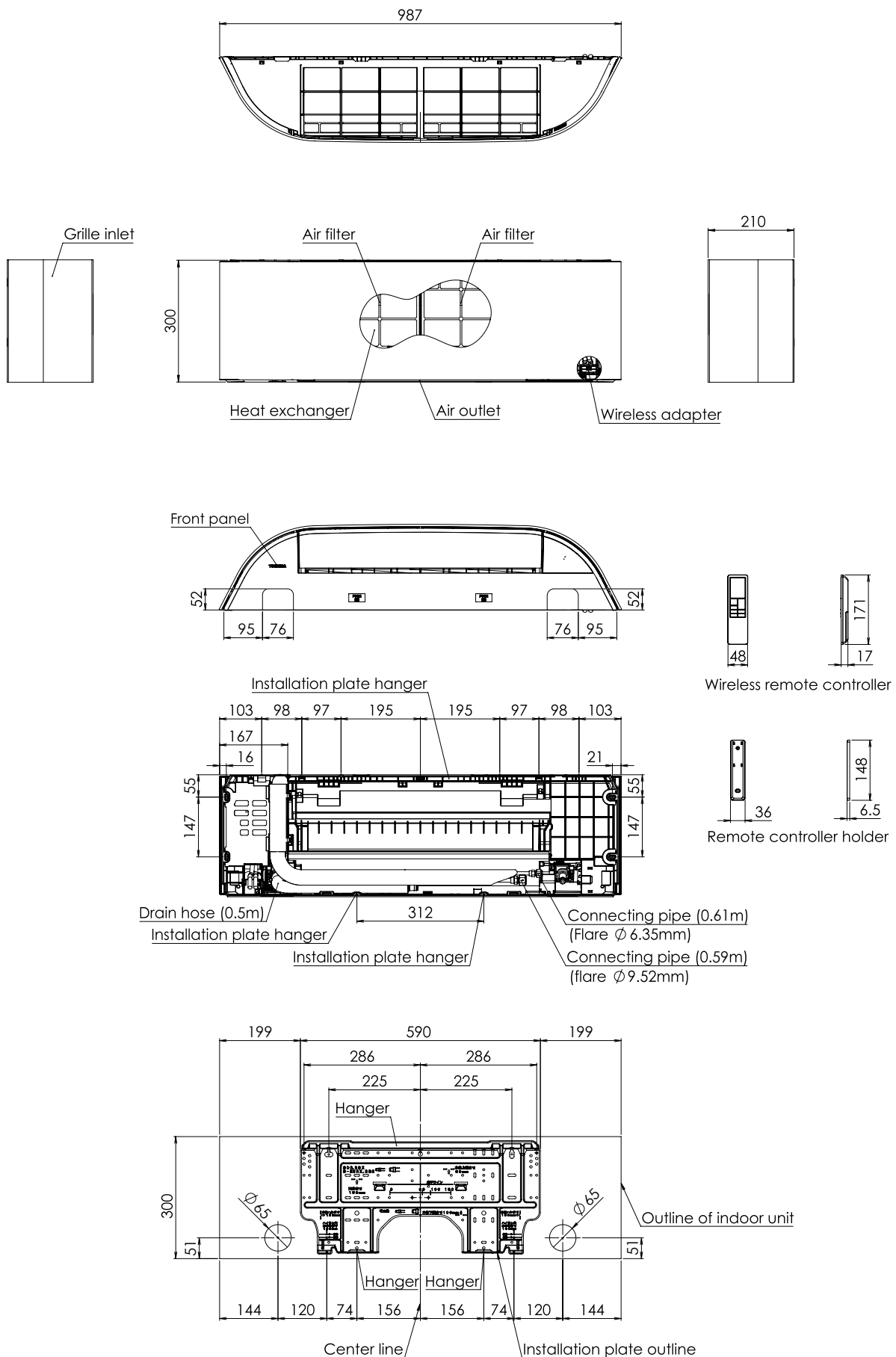
Cooling : Capacity test condition, inside : 27 °C (Db) / 19 °C (Wb), outside : 35 °C (Db) / 24 °C (Wb)

Heating : Capacity test condition, inside : 20 °C (Db), outside : 7 °C (Db) / 6°C (Wb)

Piping length : 5 m per Indoor Unit.

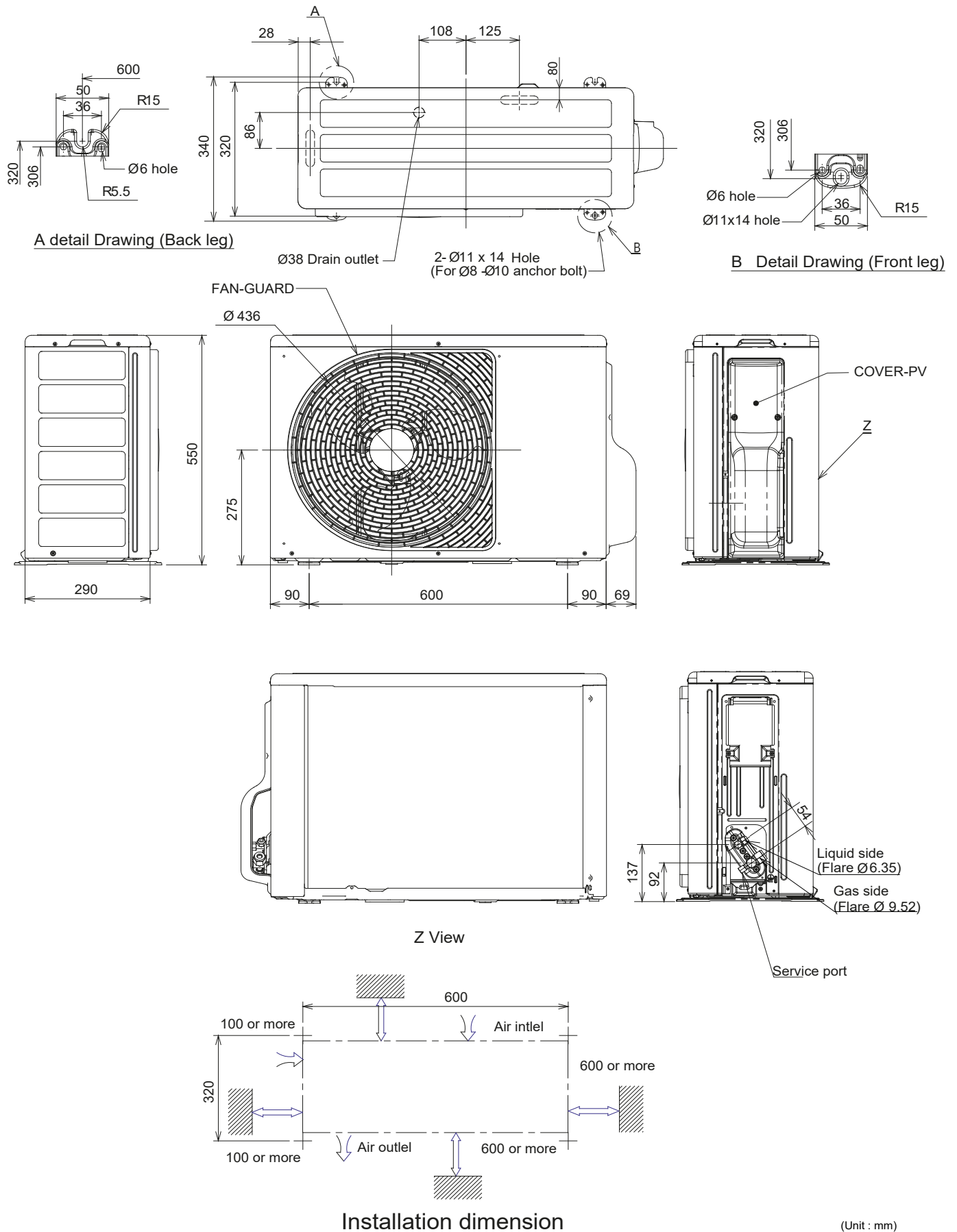
3. Dimension

Indoor Unit : RAS-25N4KVRG-ND / RAS-35N4KVRG-ND



(Unit : mm)

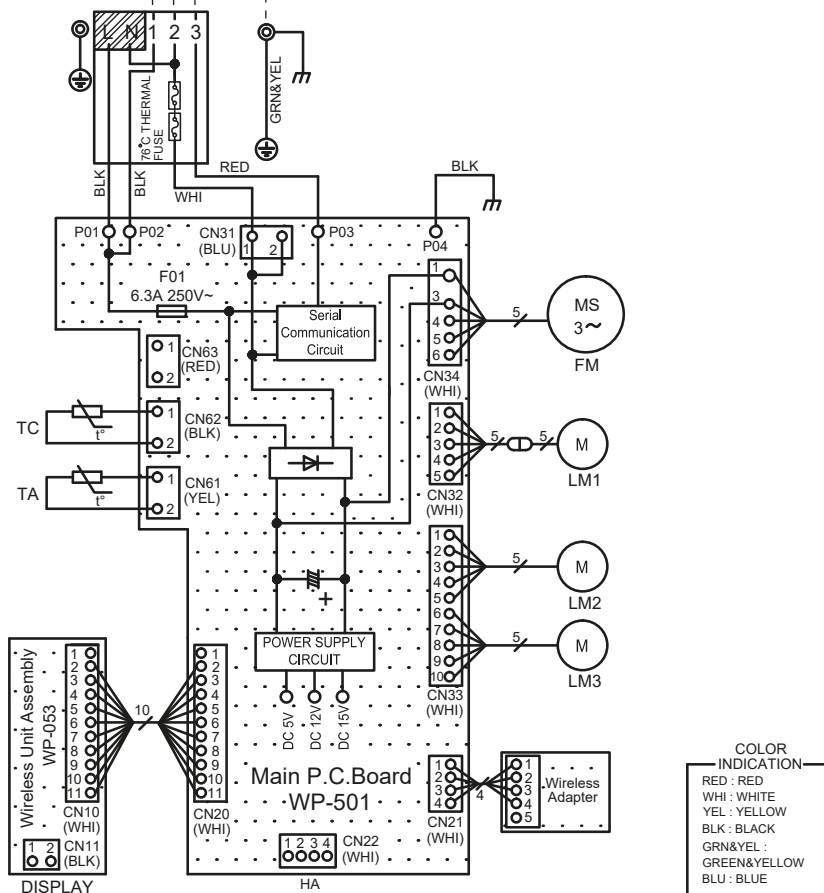
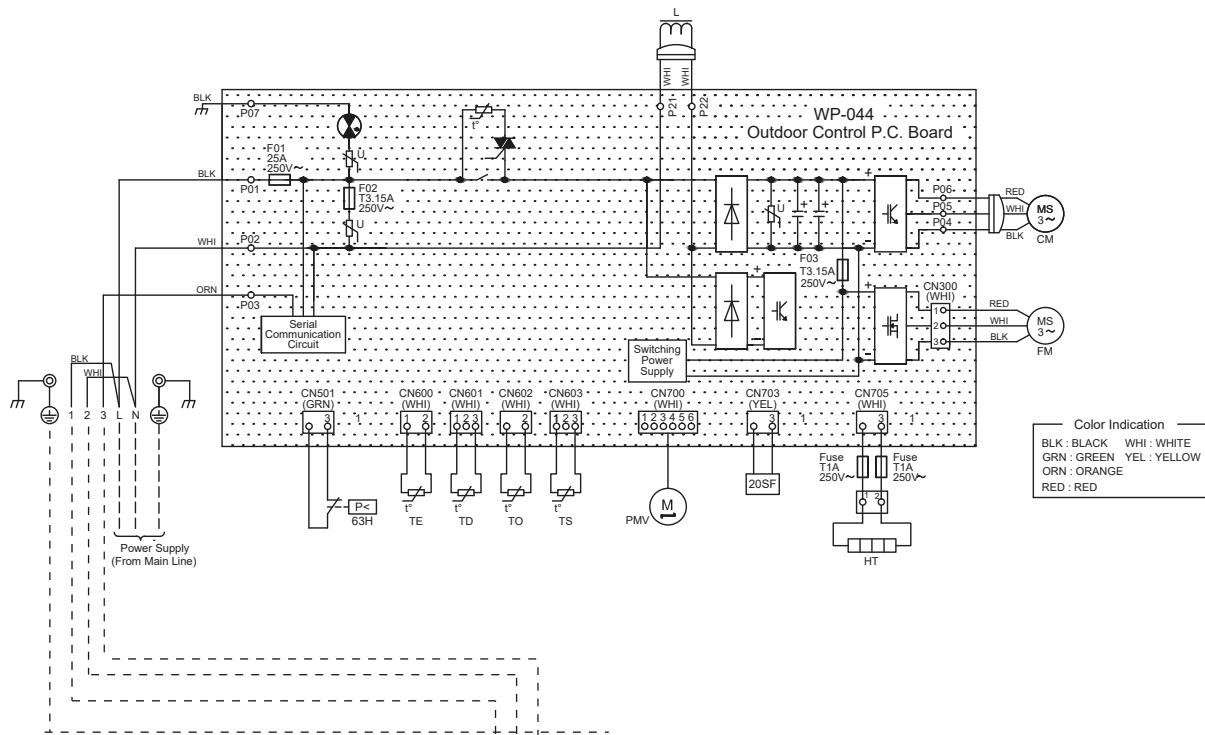
Outdoor Unit : RAS-25J2AVSG-ND1 / RAS-35J2AVSG-ND1



(Unit : mm)

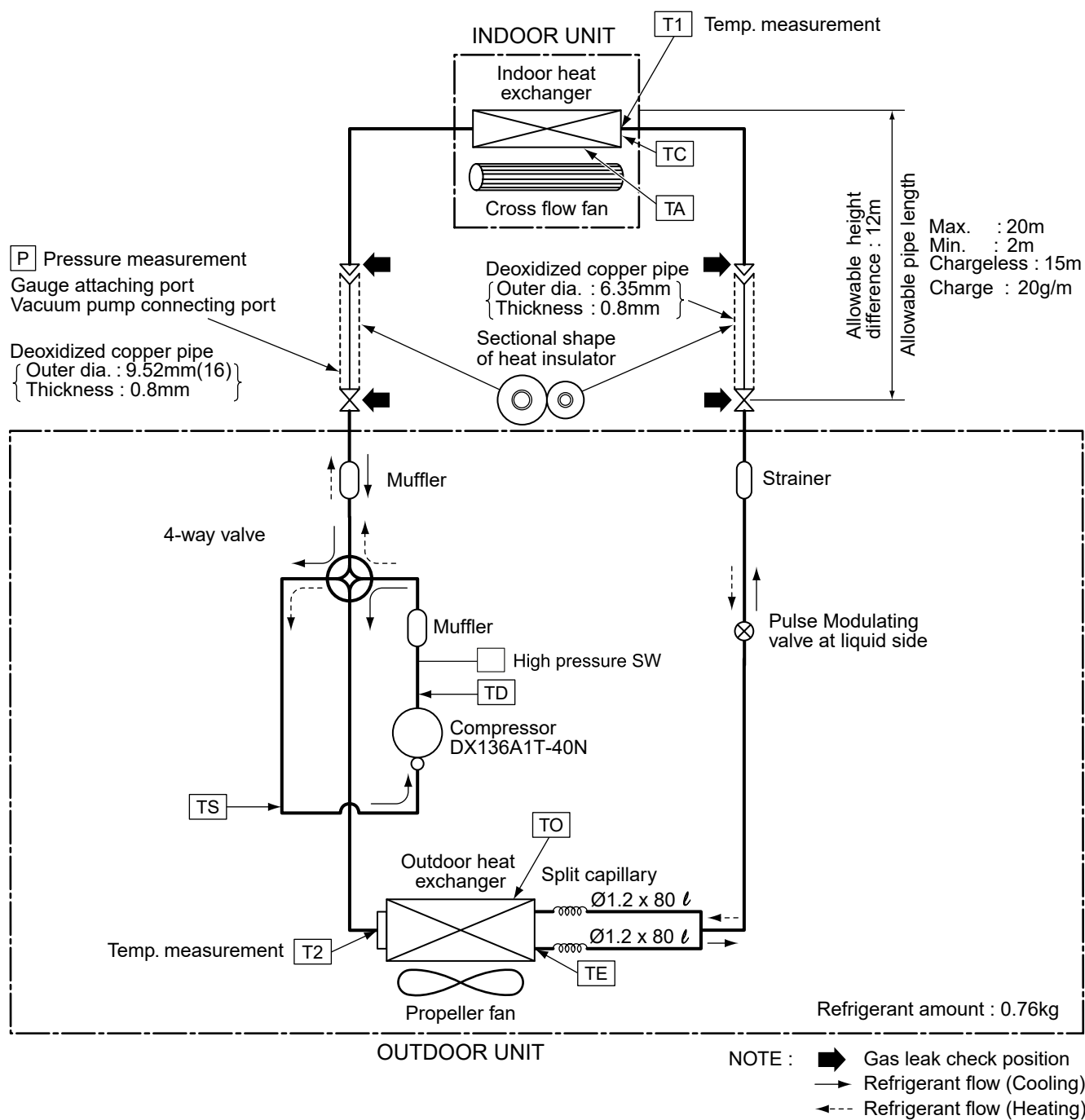
4. Wiring diagrams

RAS-25N4KVRG-ND ; RAS-25J2AVSG-ND1
RAS-35N4KVRG-ND ; RAS-35J2AVSG-ND1



5. Refrigerant cycle diagrams

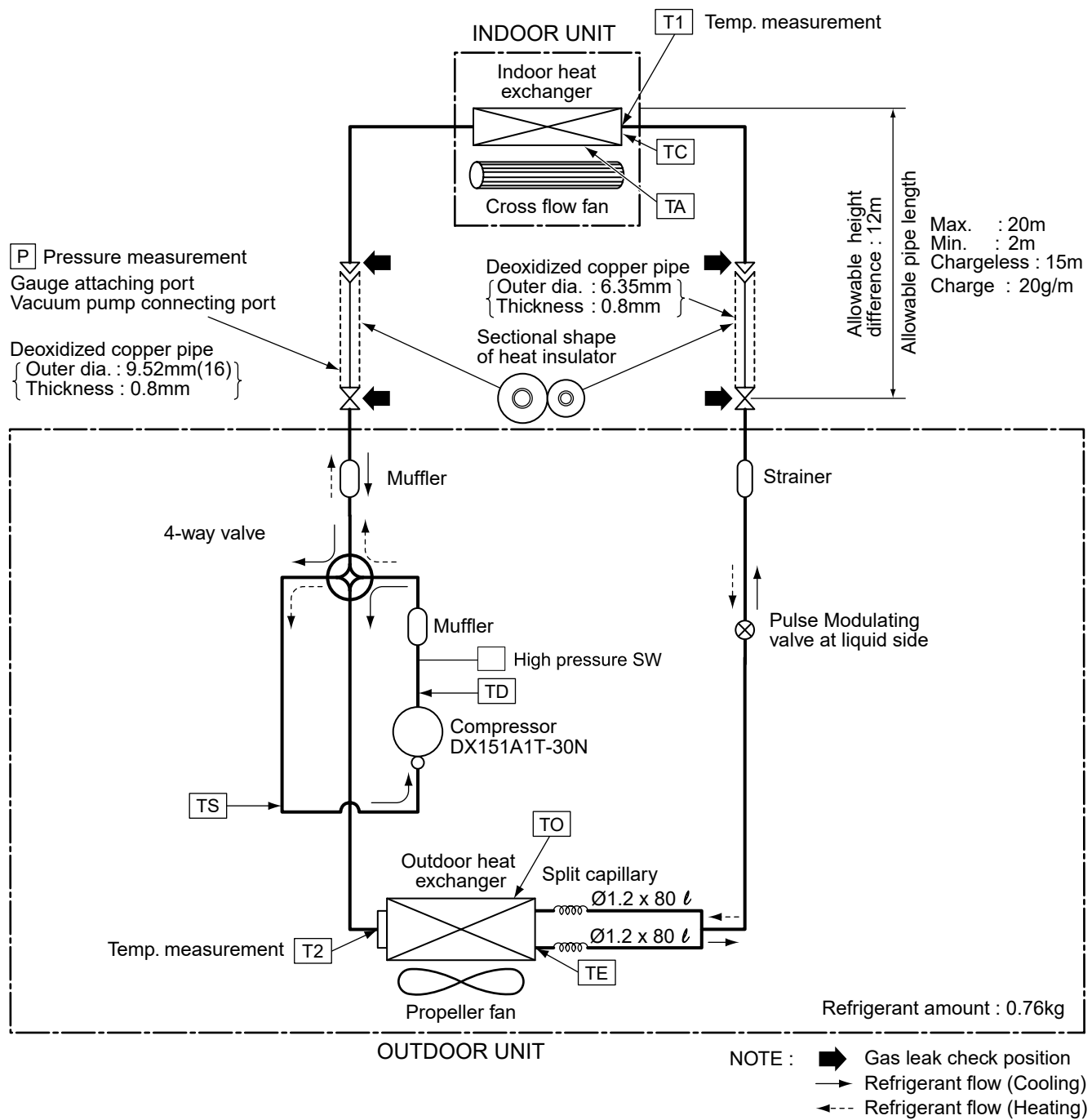
RAS-25N4KVRG-ND ; RAS-25J2AVSG-ND1



NOTE :

- The maximum pipe length of this air conditioner is 15 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

RAS-35N4KVRG-ND ; RAS-35J2AVSG-ND1

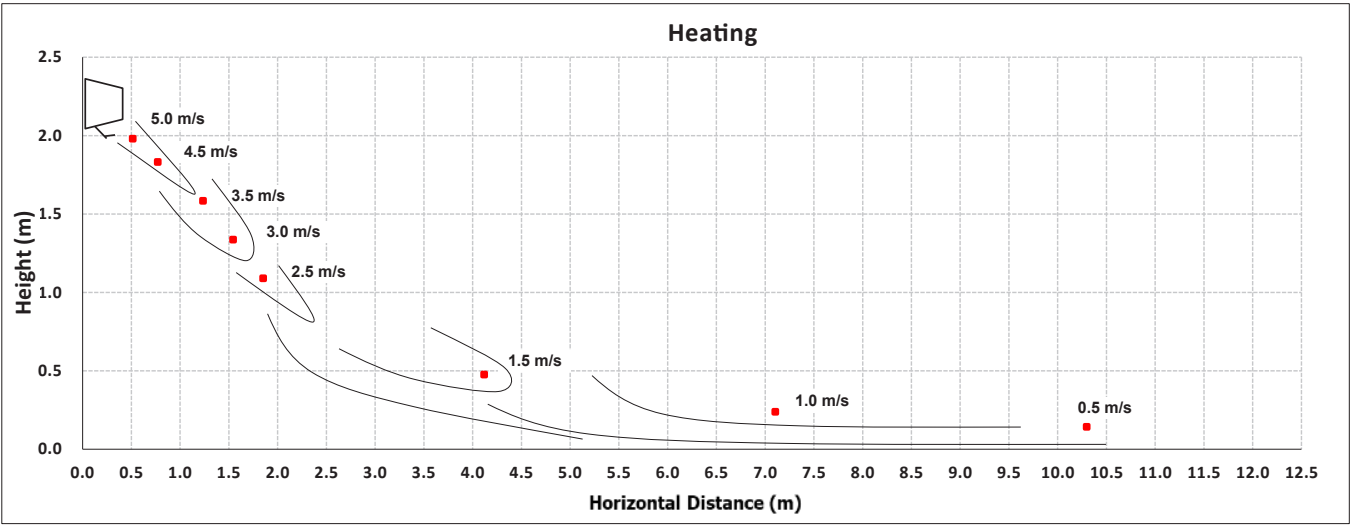
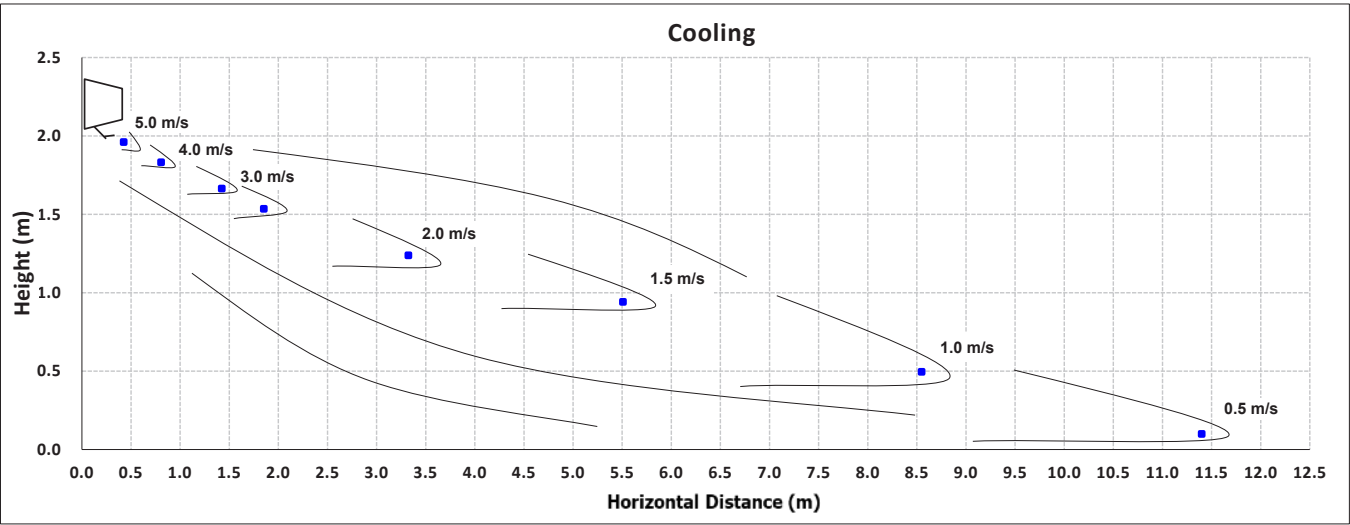


NOTE :

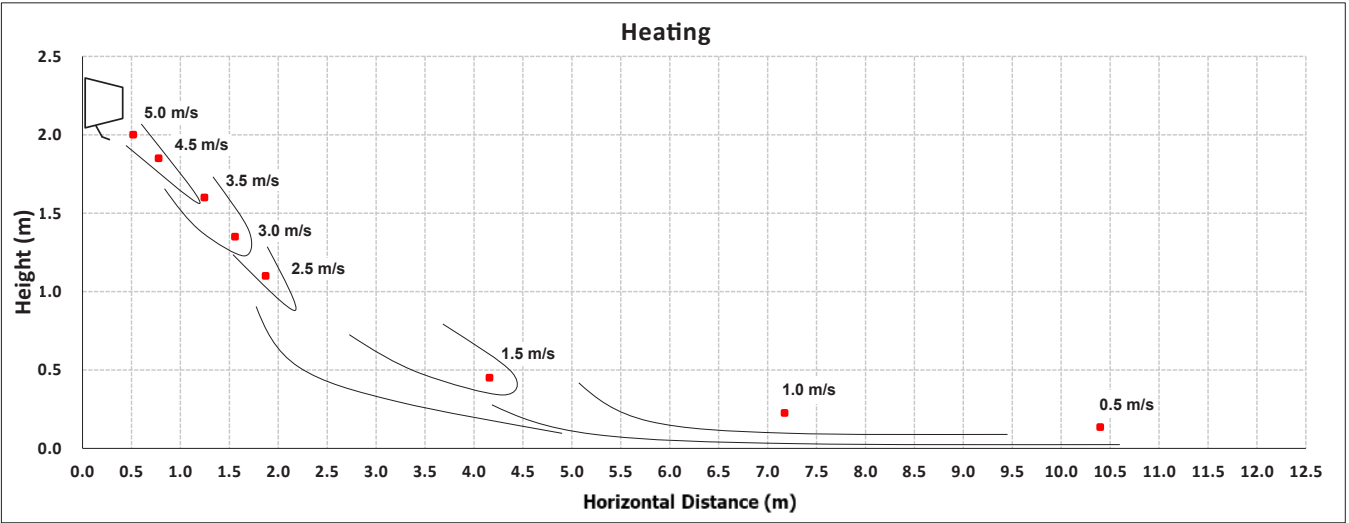
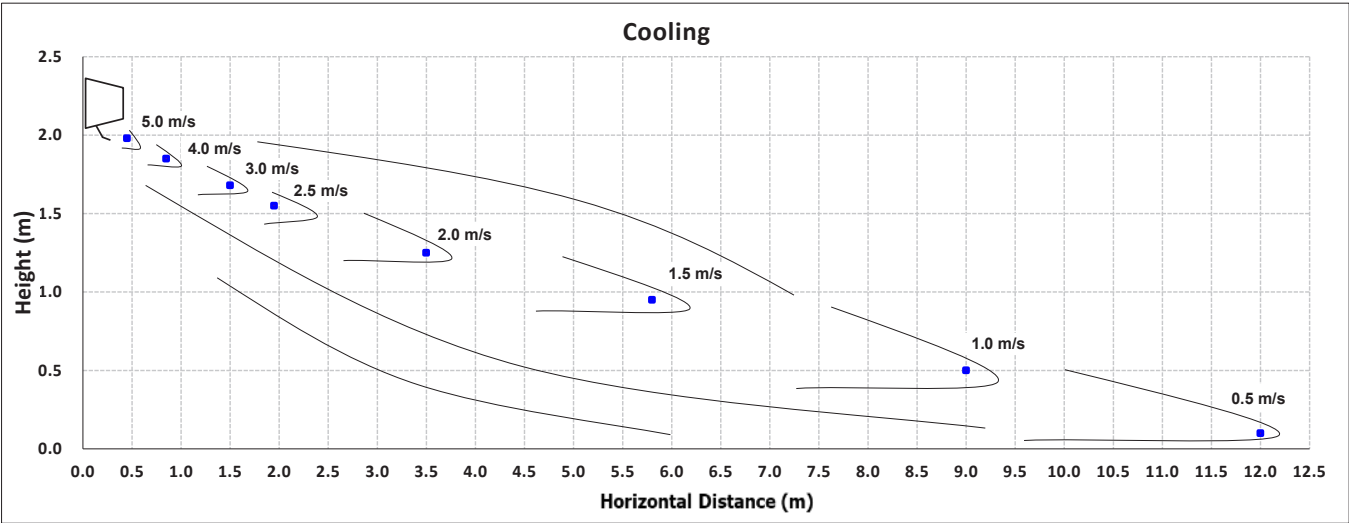
- The maximum pipe length of this air conditioner is 15 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

6. Air Speed Distribution

RAS-25N4KVRG-ND



RAS-35N4KVRG-ND

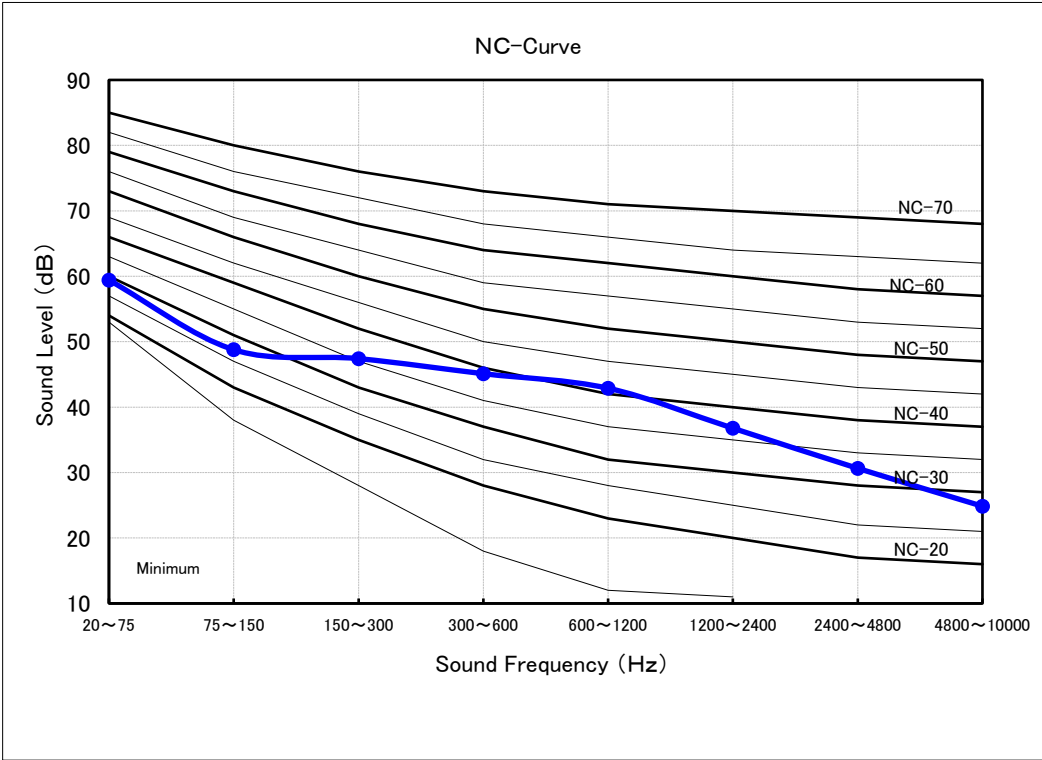


7. Sound Characteristics (NC Curve)

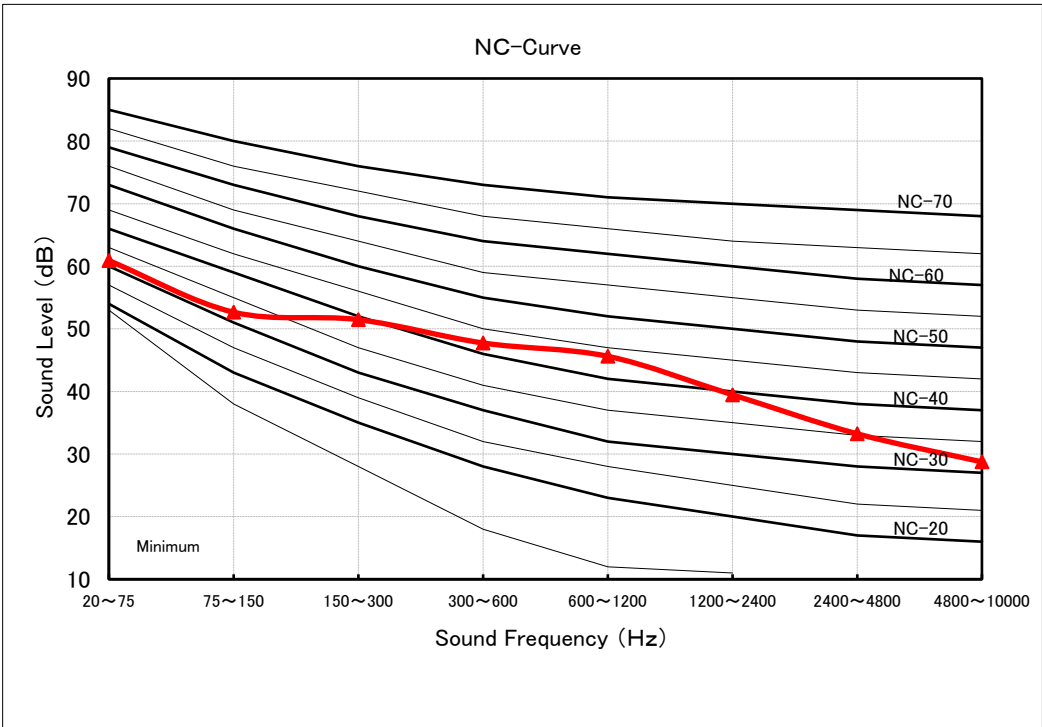
Outdoor Unit : RAS-25J2AVSG-ND1 (Rated Conditions)

Measured point	Specification (dB)	
	Cooling	Heating
Horizontal 1.0 m	46	48

Cooling



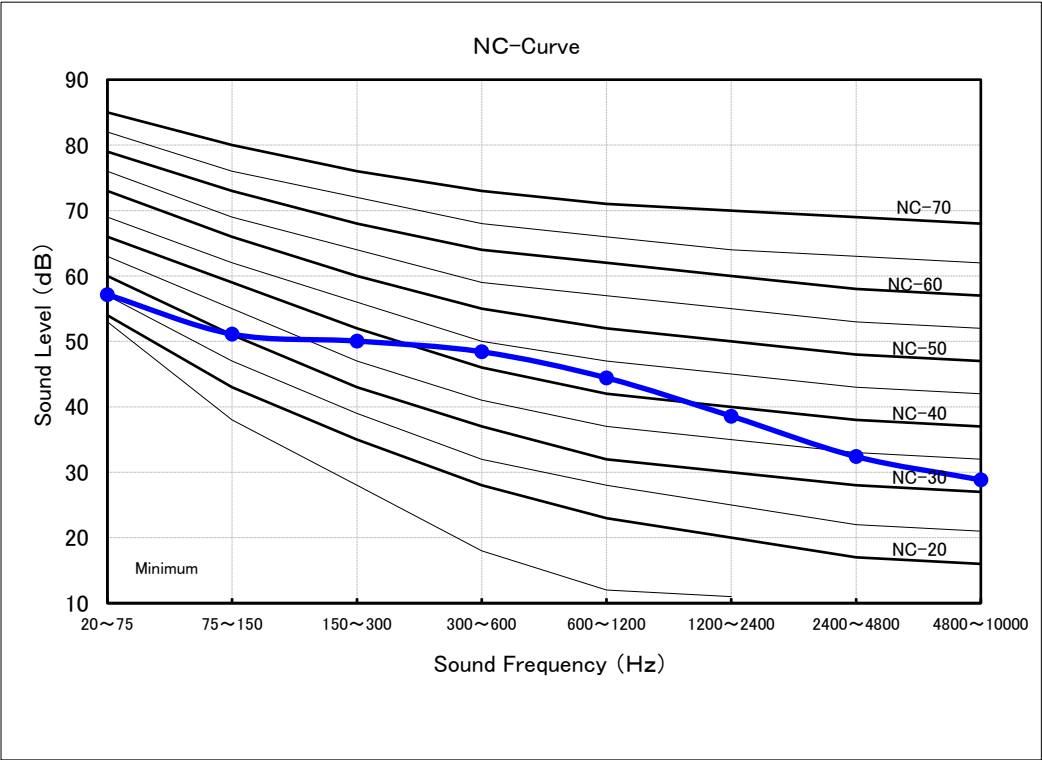
Heating



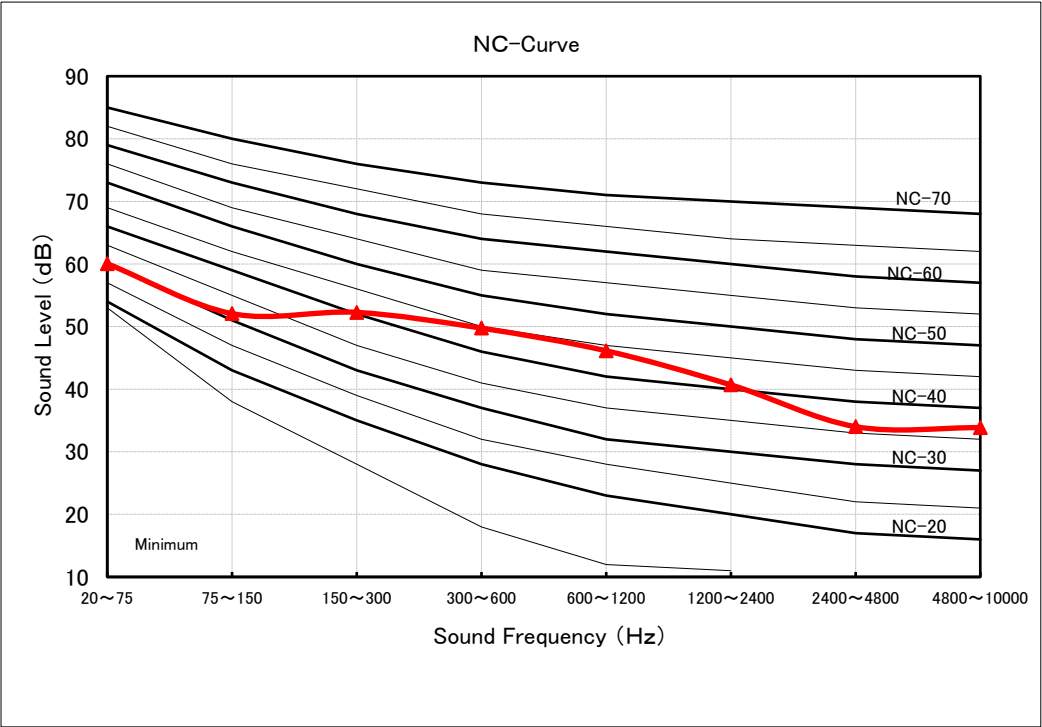
Outdoor Unit : RAS-35J2AVSG-ND1 (Rated Conditions)

Measured point	Specification (dB)	
	Cooling	Heating
Horizontal 1.0 m	48	49

Cooling



Heating



8. Capacity Table

Product models : RAS-25N4KVRG-ND / RAS-25J2AVSG-ND1

Specification of product at standard condition

Standard Condition	Indoor	27°C (DB) / 19°C (WB)	Total Cooling Capacity (TC)		2.80	kW
	Outdoor	35°C (DB) / 24°C (WB)	Sensible Heat Capacity (SHC)		2.23	kW

Outdoor air temperature DB (°C)	Indoor air temperature													
	20.0°C (DB) 14.0°C (WB)		23.0°C (DB) 16.0°C (WB)		26.0°C (DB) 18.0°C (WB)		27.0°C (DB) 19.0°C (WB)		28.0°C (DB) 20.0°C (WB)		30.0°C (DB) 22.0°C (WB)		32.0°C (DB) 24.0°C (WB)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	2.74	2.35	3.03	2.51	3.24	2.66	3.34	2.66	3.43	2.66	3.64	2.63	3.80	2.58
21	2.71	2.33	3.00	2.48	3.21	2.64	3.30	2.63	3.40	2.63	3.60	2.60	3.76	2.55
22	2.68	2.30	2.96	2.45	3.17	2.61	3.27	2.60	3.36	2.60	3.56	2.58	3.72	2.52
23	2.65	2.28	2.93	2.43	3.14	2.58	3.23	2.57	3.32	2.57	3.52	2.55	3.68	2.50
24	2.62	2.25	2.90	2.40	3.10	2.55	3.20	2.54	3.29	2.54	3.48	2.52	3.64	2.47
25	2.60	2.22	2.87	2.37	3.07	2.52	3.16	2.52	3.25	2.51	3.44	2.49	3.60	2.44
26	2.57	2.20	2.83	2.34	3.03	2.49	3.12	2.49	3.21	2.49	3.40	2.46	3.56	2.41
27	2.54	2.17	2.80	2.32	3.00	2.46	3.09	2.46	3.18	2.46	3.36	2.43	3.52	2.39
28	2.51	2.15	2.77	2.29	2.96	2.43	3.05	2.43	3.14	2.43	3.32	2.41	3.48	2.36
29	2.48	2.12	2.74	2.26	2.93	2.41	3.02	2.40	3.10	2.40	3.28	2.38	3.44	2.33
30	2.45	2.10	2.70	2.24	2.89	2.38	2.98	2.37	3.06	2.37	3.25	2.35	3.39	2.30
31	2.42	2.07	2.67	2.21	2.86	2.35	2.94	2.34	3.03	2.34	3.21	2.32	3.35	2.27
32	2.39	2.05	2.64	2.18	2.82	2.32	2.91	2.32	2.99	2.31	3.17	2.29	3.31	2.25
33	2.36	2.02	2.61	2.16	2.79	2.29	2.87	2.29	2.95	2.29	3.13	2.26	3.27	2.22
34	2.33	2.00	2.57	2.13	2.75	2.26	2.84	2.26	2.92	2.26	3.09	2.24	3.23	2.19
35	2.30	1.97	2.54	2.10	2.72	2.23	2.80	2.23	2.88	2.23	3.05	2.21	3.19	2.16
36	2.27	1.95	2.51	2.07	2.69	2.21	2.76	2.20	2.84	2.20	3.01	2.18	3.15	2.14
37	2.24	1.92	2.47	2.05	2.65	2.18	2.73	2.17	2.81	2.17	2.97	2.15	3.11	2.11
38	2.21	1.90	2.44	2.02	2.62	2.15	2.69	2.14	2.77	2.14	2.93	2.12	3.07	2.08
39	2.18	1.87	2.41	1.99	2.58	2.12	2.66	2.12	2.73	2.11	2.89	2.09	3.03	2.05
40	2.15	1.85	2.38	1.97	2.55	2.09	2.62	2.09	2.70	2.09	2.85	2.07	2.99	2.03
41	2.12	1.82	2.34	1.94	2.51	2.06	2.58	2.06	2.66	2.06	2.82	2.04	2.94	2.00
42	2.09	1.79	2.31	1.91	2.48	2.03	2.55	2.03	2.62	2.03	2.78	2.01	2.90	1.97
43	2.06	1.77	2.28	1.89	2.44	2.00	2.51	2.00	2.58	2.00	2.74	1.98	2.86	1.94
44	2.03	1.74	2.25	1.86	2.41	1.98	2.48	1.97	2.55	1.97	2.70	1.95	2.82	1.91
45	2.00	1.72	2.21	1.83	2.37	1.95	2.44	1.94	2.51	1.94	2.66	1.92	2.78	1.89
46	1.98	1.69	2.18	1.80	2.34	1.92	2.40	1.92	2.47	1.91	2.62	1.90	2.74	1.86

Product models : RAS-35N4KVRG-ND / RAS-35J2AVSG-ND1

Specification of product at standard condition

Standard Condition	Indoor	27°C (DB) / 19°C (WB)		Total Cooling Capacity (TC)		3.50	kW
	Outdoor	35°C (DB) / 24°C (WB)		Sensible Heat Capacity (SHC)		2.70	kW

Outdoor air temperature DB (°C)	Indoor air temperature													
	20.0°C (DB) 14.0°C (WB)		23.0°C (DB) 16.0°C (WB)		26.0°C (DB) 18.0°C (WB)		27.0°C (DB) 19.0°C (WB)		28.0°C (DB) 20.0°C (WB)		30.0°C (DB) 22.0°C (WB)		32.0°C (DB) 24.0°C (WB)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	3.43	2.85	3.79	3.04	4.05	3.23	4.17	3.22	4.29	3.21	4.55	3.18	4.76	3.11
21	3.39	2.82	3.75	3.01	4.01	3.19	4.13	3.19	4.25	3.18	4.50	3.14	4.70	3.07
22	3.35	2.79	3.70	2.97	3.97	3.16	4.08	3.15	4.20	3.15	4.45	3.11	4.65	3.04
23	3.32	2.76	3.66	2.94	3.92	3.12	4.04	3.12	4.15	3.11	4.40	3.07	4.60	3.01
24	3.28	2.73	3.62	2.91	3.88	3.09	3.99	3.08	4.11	3.08	4.35	3.04	4.55	2.97
25	3.24	2.70	3.58	2.87	3.84	3.06	3.95	3.05	4.06	3.04	4.30	3.01	4.50	2.94
26	3.21	2.67	3.54	2.84	3.79	3.02	3.90	3.01	4.02	3.01	4.25	2.97	4.45	2.91
27	3.17	2.64	3.50	2.81	3.75	2.99	3.86	2.98	3.97	2.97	4.20	2.94	4.40	2.87
28	3.13	2.61	3.46	2.78	3.71	2.95	3.81	2.94	3.92	2.94	4.16	2.90	4.35	2.84
29	3.10	2.58	3.42	2.74	3.66	2.92	3.77	2.91	3.88	2.90	4.11	2.87	4.29	2.81
30	3.06	2.55	3.38	2.71	3.62	2.88	3.72	2.87	3.83	2.87	4.06	2.83	4.24	2.77
31	3.02	2.52	3.34	2.68	3.57	2.85	3.68	2.84	3.78	2.83	4.01	2.80	4.19	2.74
32	2.99	2.48	3.30	2.65	3.53	2.81	3.63	2.80	3.74	2.80	3.96	2.77	4.14	2.71
33	2.95	2.45	3.26	2.61	3.49	2.78	3.59	2.77	3.69	2.76	3.91	2.73	4.09	2.67
34	2.91	2.42	3.22	2.58	3.44	2.74	3.54	2.73	3.65	2.73	3.86	2.70	4.04	2.64
35	2.87	2.39	3.17	2.55	3.40	2.71	3.50	2.70	3.60	2.70	3.81	2.66	3.99	2.61
36	2.84	2.36	3.13	2.51	3.36	2.67	3.46	2.67	3.55	2.66	3.76	2.63	3.94	2.57
37	2.80	2.33	3.09	2.48	3.31	2.64	3.41	2.63	3.51	2.63	3.71	2.60	3.89	2.54
38	2.76	2.30	3.05	2.45	3.27	2.60	3.37	2.60	3.46	2.59	3.67	2.56	3.83	2.50
39	2.73	2.27	3.01	2.42	3.23	2.57	3.32	2.56	3.42	2.56	3.62	2.53	3.78	2.47
40	2.69	2.24	2.97	2.38	3.18	2.53	3.28	2.53	3.37	2.52	3.57	2.49	3.73	2.44
41	2.65	2.21	2.93	2.35	3.14	2.50	3.23	2.49	3.32	2.49	3.52	2.46	3.68	2.40
42	2.62	2.18	2.89	2.32	3.09	2.46	3.19	2.46	3.28	2.45	3.47	2.42	3.63	2.37
43	2.58	2.15	2.85	2.29	3.05	2.43	3.14	2.42	3.23	2.42	3.42	2.39	3.58	2.34
44	2.54	2.12	2.81	2.25	3.01	2.40	3.10	2.39	3.18	2.38	3.37	2.36	3.53	2.30
45	2.51	2.09	2.77	2.22	2.96	2.36	3.05	2.35	3.14	2.35	3.32	2.32	3.48	2.27
46	2.47	2.05	2.73	2.19	2.92	2.33	3.01	2.32	3.09	2.31	3.27	2.29	3.42	2.24

9. Part Load Performance

Indoor : RAS-25N4KVRG-ND
Outdoor : RAS-25J2AVSG-ND1

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 1100	220	1000	200
RATING	W 2800	630	3200	650
MAXIMUM	W 3500	870	7200	2400

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100 (Max)		90		80 (Rated)		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	4174	683	3756	561	3339	495	2922	411	2504	344	2087	278	1670	212	1312	173	1312	173
21	4129	695	3716	571	3303	504	2890	418	2477	351	2064	283	1652	216	1298	176	1298	176
22	4084	708	3676	581	3267	513	2859	426	2450	357	2042	288	1634	220	1284	179	1284	179
23	4039	720	3635	592	3231	522	2827	433	2423	363	2020	293	1616	224	1269	182	1269	182
24	3994	733	3595	602	3195	531	2796	441	2396	370	1997	299	1598	227	1255	185	1255	185
25	3949	745	3554	612	3159	540	2764	448	2370	376	1975	304	1580	231	1241	188	1241	188
26	3904	758	3514	622	3123	549	2733	456	2343	382	1952	309	1562	235	1227	192	1227	192
27	3859	770	3473	632	3087	558	2702	463	2316	389	1930	314	1544	239	1213	195	1213	195
28	3814	783	3433	643	3052	567	2670	471	2289	395	1907	319	1526	243	1199	198	1199	198
29	3770	795	3393	653	3016	576	2639	478	2262	401	1885	324	1508	247	1185	201	1185	201
30	3725	808	3352	663	2980	585	2607	486	2235	407	1862	329	1490	251	1171	204	1171	204
31	3680	820	3312	673	2944	594	2576	493	2208	414	1840	334	1472	255	1156	207	1156	207
32	3635	833	3271	684	2908	603	2544	501	2181	420	1817	339	1454	258	1142	211	1142	211
33	3590	845	3231	694	2872	612	2513	508	2154	426	1795	344	1436	262	1128	214	1128	214
34	3545	858	3190	704	2836	621	2481	516	2127	433	1772	349	1418	266	1114	217	1114	217
35	3500	870	3150	714	2800	630	2450	523	2100	439	1750	354	1400	270	1100	220	1100	220
36	3455	882	3110	725	2764	639	2419	531	2073	445	1728	359	1382	274	1086	223	1086	223
37	3410	895	3069	735	2728	648	2387	538	2046	451	1705	365	1364	278	1072	226	1072	226
38	3365	907	3029	745	2692	657	2356	546	2019	458	1683	370	1346	282	1058	229	1058	229
39	3320	920	2988	755	2656	666	2324	553	1992	464	1660	375	1328	285	1044	233	1044	233
40	2818	706	2536	580	2620	675	2293	561	1965	470	1638	380	1310	289	1029	236	1029	236
41	2761	706	2485	580	2584	684	2261	568	1936	477	1615	385	1292	293	1015	239	1015	239
42	2705	706	2434	580	2548	693	2230	576	1911	483	1593	390	1274	297	1001	242	1001	242
43	2601	706	2341	580	2513	702	2198	583	1884	489	1570	395	1256	301	987	245	987	245
44	2532	706	2278	580	2477	711	2167	591	1857	495	1548	400	1238	305	973	248	973	248
45	2292	657	2063	539	2441	720	2136	598	1831	502	1525	405	1220	309	959	252	959	252
46	2231	657	2008	539	2405	729	2104	606	1804	508	1503	410	1202	313	945	255	945	255

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																					
	100 (Max)		90		80		70		60		50		44 (Rate)		30		20		10		9	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-25	2892	1656	2603	911	2314	810	2024	708	1735	607	1221	471	1085	418	733	281	488	162	339	129	339	129
-24	3052	1683	2747	926	2442	823	2137	720	1831	616	1265	475	1125	422	759	284	506	163	352	130	352	130
-23	3212	1710	2891	941	2570	836	2249	731	1927	626	1310	479	1164	425	786	286	524	164	364	131	364	131
-22	3373	1737	3035	956	2698	849	2361	743	2024	636	1354	483	1204	429	813	288	542	166	376	132	376	132
-21	3533	1764	3180	971	2826	863	2473	754	2120	646	1399	487	1243	432	839	291	559	167	389	133	389	133
-20	3693	1791	3324	986	2955	876	2585	766	2216	656	1443	491	1283	436	866	293	577	168	401	134	401	134
-19	3853	1818	3468	1001	3083	889	2697	777	2312	666	1488	495	1322	440	893	296	595	170	413	135	413	135
-18	4014	1845	3612	1015	3211	902	2810	789	2408	676	1532	500	1362	444	919	299	613	172	426	137	426	137
-17	4174	1872	3757	1030	3339	915	2922	801	2504	686	1576	505	1401	448	946	302	631	173	438	138	438	138
-16	4290	1900	3861	1046	3432	929	3003	812	2574	696	1621	509	1440	452	972	304	648	175	450	139	450	139
-15	3102	1714	3796	984	3375	875	2953	765	2531	655	2109	545	1875	484	1265	326	844	187	441	147	441	147
-14	3234	1742	3856	997	3428	886	2999	774	2571	663	2142	552	1904	490	1285	330	857	190	460	150	460	150
-13	3367	1769	3916	1009	3481	896	3046	784	2611	671	2176	559	1934	496	1305	334	870	192	479	152	479	152
-12	3500	1797	3976	1021	3535	907	3093	794	2651	680	2209	566	1963	503	1325	338	884	194	498	155	498	155
-11	3633	1824	4036	1034	3588	918	3139	803	2691	688	2242	573	1993	509	1345	342	897	197	517	157	517	157
-10	3766	1851	4096	1046	3641	929	3186	813	2731	696	2276	579	2023	515	1365	346	910	199	536	159	536	159
-9	3877	1869	4146	1056	3685	938	3225	821	2764	703	2303	585	2047	520	1382	350	921	201	551	161	551	161
-8	3988	1886	4196	1066	3730	948	3264	829	2797	710	2331	591	2072	525	1399	353	932	203	567	162	567	162
-7	4098	1903	4246	1077	3774	957	3302	837	2831	717	2359	596	2097	530	1415	356	944	205	583	164	583	164
-6	4209	1920	4296	1087	3819	966	3341	845	2864	723	2387	602	2121	535	1432	360	955	207	599	165	599	165
-5	4320	1937	4346	1097	3863	975	3380	853	2897	730	2414	608	2146	540	1449	363	966	209	614	167	614	167
-4	4431	1954	4396	1107	3907	984	3419	860	2931	737	2442	614	2171	545	1465	367	977	211	630	168	630	168
-3	4542	1971	4446	1118	3952	993	3458	868	2964	744	2470	619	2195	550	1482	370	988	213	646	170	646	170
-2	4652	1989	4496	1128	3996	1002	3497	876	2997	751	2498	625	2220	555	1499	373	999	215	662	171	662	171
-1	4763	2006	4546	1138	4041	1011	3536	884	3031	757	2525	631	2245	560	1515	377	1010	217	677	173	677	173
0	4874	2023	4596	1148	4085	1020	3574	892	3064	764	2553	636	2269	565	1532	380	1021	219	693	174	693	174
1	4985	2040	4646	1159	4130	1030	3613	900	3097	771	2581	642	2294	570	1549	384	1032	220	709	176	709	176
2	5095	2057	4696	1169	4174	1039	3652	908	3130	778	2609	648	2319	575	1565	387	1043	222	725	177	725	177
3	5169	2079	4773	1185	4242	1053	3712	921	3182	788	2651	656	2357	583	1591	392	1061	225	799	183	799	183
4	5243	2102	4849	1200	4311	1067	3772	933	3233	799	2694	665	2395	591	1616	397	1078	228	874	188	874	188
5	5317	2124	4926	1216	4379	1081	3832	945	3284	809	2737	674	2433	598	1642	403	1095	231	948	194	948	194
6	7014	2363	6313	1300	5611	1155	4910	1010	4209	865	3507	720	3117	640	2104	431	1403	247	974	197	974	197
7	7200	2400	6480	1321	5760	1174	5040	1026	4320	879	3600	732	3200	650	2160	437	1440	251	1000	200	1000	200
8	7386	2437	6647	1341	5909	1192	5170	1042	4431	893	3693	743	3282	660	2216	444	1477	255	1026	203	1026	203
9	7572	2474	6814	1362	6057	1210	5300	1058	4543	906	3786	754	3365	670	2271	451	1514	259	1052	206	1052	206
10	7757	2511	6982	1382	6206	1228	5430	1074	4654	920	3879	766	3447	680	2327	458	1551	263	1077	209	1077	209
11	7943	2549	7149	1403	6355	1246	5560	1090	4766	934	3972	777	3530	690	2383	464	1589	267	1103	212	1103	212
12	8129	2586	7316	1423	6503	1264	5690	1106	4877	947	4065	788	3613	700	2439	471	1626	271	1129	215	1129	215
13	8315	2623	7483	1444	6652	1283	5820	1122	4989	961	4157	800	3695	710	2494	478	1663	275	1155	219	1155	219
14	8501	2660	7651	1464	6801	1301	5950	1138	5100	974	4250	811	3778	720	2550	485	1700	279	1181	222	1181	222
15	8686	2697	7818	1485	6949	1319	6081	1154	5212	988	4343	822	3860	730	2606	491	1737	282	1206	225	1206	225
16	8872	2734	7985	1505	7098	1337	6211	1169	5323	1002	4436	834	3943	741	2662	498	1774	286	1232	228	1232	228
17	9058	2772	8152	1525	7246	1355	6341	1185	5435	1015	4529	845	4025	751	2717	505	1812	290	1258	231	1258	231
18	9244	2809	8319	1546	7395	1374	6471	1201	5546	1029	4622	856	4108	761	2773	512	1849	294	1284	234	1284	234
19	9430	2846	8487	1566	7544	1392	6601	1217	5658	1042	4715	868	4191	771	2829	519	1886	298	1310	237	1310	237
20	9615	2883	8654	1587	7692	1410	6731	1233	5769	1056	4808	879	4273	781	2885	525	1923	302	1335	240	1335	240
21	9801	2920	8821	1607	7841	1428	6861	1249	5881	1070	4901	890	4356	791	2940	532	1960	306	1361	243	1361	243
22	9987	2957	8988	1628	7990	1446	6991	1265	5992	1083	4994	902	4438	801	2996	539	1997	310	1387	246	1387	246
23	10173	2995	9156	1648	8138	1464	7121	1281	6104	1097	5086	913	4521	811	3052	546	2035	314	1413	250	1413	250
24	10348	3028	9323	1669	8287	1483	7251	1297	6215	1110	5179	924	4603	821	3108	552	2072	317	1439	253	1439	253

Indoor : RAS-35N4KVRG-ND
Outdoor : RAS-35J2AVSG-ND1

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	1200	260	1000	200
RATING	W	3500	870	4200	950
MAXIMUM	W	4500	1370	7600	2500

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																	
	100 (Max)		90		80		78 (Rate)		60		50		40		30		20	
	Q		Q		Q		Q		Q		Q		Q		Q		Q	
	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	5366	1075	4830	797	4293	704	4174	683	3220	496	2683	402	2147	309	1610	230	1431	204
21	5309	1095	4778	812	4247	717	4129	695	3185	505	2654	410	2123	314	1593	234	1416	208
22	5251	1115	4726	827	4201	729	4084	708	3150	514	2625	417	2100	320	1575	238	1400	212
23	5193	1134	4674	841	4154	742	4039	720	3116	523	2597	424	2077	326	1558	242	1385	215
24	5135	1154	4622	856	4108	755	3994	733	3081	532	2569	432	2054	331	1541	247	1369	219
25	5078	1174	4570	870	4062	768	3949	745	3047	541	2539	439	2031	337	1523	251	1354	223
26	5020	1193	4518	885	4016	781	3904	758	3012	550	2510	446	2008	343	1506	255	1339	226
27	4962	1213	4466	899	3970	794	3859	770	2977	559	2481	454	1985	348	1489	259	1323	230
28	4904	1233	4414	914	3923	807	3815	783	2943	569	2452	461	1962	354	1471	263	1308	234
29	4847	1252	4362	929	3877	819	3770	795	2908	578	2423	469	1939	359	1454	268	1292	238
30	4789	1272	4310	943	3831	832	3725	808	2873	587	2394	476	1916	365	1437	272	1277	241
31	4731	1291	4258	958	3785	845	3680	820	2839	596	2366	483	1892	371	1419	276	1262	245
32	4673	1311	4206	972	3739	858	3635	833	2804	605	2337	491	1869	376	1402	280	1246	249
33	4616	1331	4154	987	3692	871	3590	845	2769	614	2308	498	1846	382	1385	284	1231	253
34	4558	1350	4102	1001	3646	884	3545	858	2735	623	2279	505	1823	388	1367	289	1215	256
35	4500	1370	4050	1016	3600	897	3500	870	2700	632	2250	513	1800	393	1350	293	1200	260
36	4442	1390	3998	1030	3554	909	3455	882	2665	641	2221	520	1777	399	1333	297	1185	264
37	4385	1409	3946	1045	3508	922	3410	895	2631	650	2192	527	1754	405	1315	301	1169	267
38	4327	1429	3894	1060	3461	935	3365	907	2596	659	2163	535	1731	410	1298	305	1154	271
39	4269	1449	3842	1074	3415	948	3320	920	2561	668	2135	542	1708	416	1281	310	1138	275
40	3624	1112	3261	824	3369	961	3276	932	2527	677	2106	549	1685	421	1263	314	1123	279
41	3550	1112	3195	824	3323	974	3231	945	2492	686	2077	557	1661	427	1246	318	1108	282
42	3478	1112	3130	824	3277	986	3186	957	2457	695	2048	564	1638	433	1229	322	1092	286
43	3345	1112	3010	824	3230	999	3141	970	2423	704	2019	571	1615	438	1211	326	1077	290
44	3255	1112	2929	824	3184	1012	3096	982	2388	713	1990	579	1592	444	1194	330	1061	294
45	2947	1034	2653	767	3138	1025	3051	995	2354	723	1961	586	1569	450	1177	335	1046	297
46	2868	1034	2581	767	3092	1038	3006	1007	2319	732	1932	593	1546	455	1159	339	1031	301

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																					
	100 (Max)		90		80		70		60		55 (Rate)		40		30		20		10		9	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-25	3053	1725	2747	1082	2442	959	2137	837	1832	714	1425	611	1031	436	773	322	516	183	339	129	339	129
-24	3222	1753	2900	1100	2577	975	2255	850	1933	725	1476	616	1069	440	801	324	534	185	352	130	352	130
-23	3391	1781	3052	1118	2713	991	2374	864	2035	737	1528	622	1106	444	830	327	553	187	364	131	364	131
-22	3560	1809	3204	1135	2848	1006	2492	878	2136	749	1580	627	1144	447	858	330	572	188	376	132	376	132
-21	3729	1837	3356	1153	2983	1022	2610	891	2238	760	1632	632	1181	451	886	333	591	190	389	133	389	133
-20	3898	1866	3509	1171	3119	1038	2729	905	2339	772	1684	637	1219	455	914	335	609	191	401	134	401	134
-19	4067	1894	3661	1188	3254	1053	2847	918	2440	783	1735	643	1256	459	942	338	628	193	413	135	413	135
-18	4237	1922	3813	1206	3389	1069	2966	932	2542	795	1787	649	1294	463	970	342	647	195	426	137	426	137
-17	4406	1950	3965	1224	3525	1085	3084	946	2643	807	1839	655	1331	468	998	345	666	197	438	138	438	138
-16	4528	1979	4075	1242	3623	1101	3170	960	2717	819	1891	661	1369	472	1026	348	684	198	450	139	450	139
-15	3274	1786	3605	1136	3204	1007	2804	878	2403	749	1213	688	1602	491	1202	362	801	206	441	147	441	147
-14	3414	1814	3695	1148	3284	1018	2874	888	2463	757	2269	695	1642	496	1232	366	821	209	460	150	460	150
-13	3554	1843	3785	1161	3364	1029	2944	897	2523	766	2324	703	1682	502	1262	370	841	211	479	152	479	152
-12	3695	1871	3875	1174	3445	1040	3014	907	2583	774	2379	711	1722	507	1292	374	861	213	498	155	498	155
-11	3835	1900	3965	1186	3525	1052	3084	917	2643	782	2435	718	1762	513	1322	378	881	216	517	157	517	157
-10	3975	1929	4055	1199	3605	1063	3154	927	2704	791	2490	726	1802	518	1352	382	901	218	536	159	536	159
-9	4092	1946	4130	1215	3671	1077	3213	939	2754	801	2536	736	1836	525	1377	387	918	221	551	161	551	161
-8	4209	1964	4206	1231	3738	1091	3271	951	2804	811	2582	745	1869	532	1402	392	935	224	567	162	567	162
-7	4326	1982	4281	1246	3805	1105	3329	963	2854	822	2628	755	1903	539	1427	397	951	226	583	164	583	164
-6	4443	2000	4356	1262	3872	1119	3388	975	2904	832	2674	764	1936	546	1452	402	968	229	599	165	599	165
-5	4560	2018	4431	1278	3939	1133	3446	988	2954	843	2721	774	1969	552	1477	407	985	232	614	167	614	167
-4	4677	2036	4506	1294	4005	1147	3505	1000	3004	853	2767	783	2003	559	1502	412	1001	235	630	168	630	168
-3	4794	2054	4581	1309	4072	1161	3563	1012	3054	863	2813	793	2036	566	1527	417	1018	238	646	170	646	170
-2	4911	2071	4656	1325	4139	1175	3621	1024	3104	874	2859	802	2069	573	1552	422	1035	241	662	171	662	171
-1	5028	2089	4731	1341	4206	1189	3680	1036	3154	884	2905	812	2103	580	1577	427	1051	244	677	173	677	173
0	5145	2107	4806	1357	4272	1203	3738	1049	3204	895	2951	822	2136	586	1602	432	1068	247	693	174	693	174
1	5262	2125	4881	1372	4339	1217	3797	1061	3254	905	2997	831	2170	593	1627	437	1085	249	709	176	709	176
2	5378	2143	4957	1388	4406	1231	3855	1073	3304	915	3043	841	2203	600	1652	442	1101	252	725	177	725	177
3	5456	2166	5038	1407	4478	1247	3918	1087	3358	928	3093	852	2239	608	1679	448	1119	256	799	183	799	183
4	5534	2189	5119	1426	4550	1264	3981	1102	3413	940	3143	863	2275	616	1706	454	1138	259	874	188	874	188
5	5612	2212	5200	1444	4622	1280	4045	1116	3467	952	3193	875	2311	624	1733	460	1156	262	948	194	948	194
6	5690	2235	5281	1463	4694	1297	4107	1130	3521	964	3243	886	2347	632	1760	466	1174	266	1023	199	1023	199
7	5760	2500	6840	1569	6080	1391	5320	1213	4560	1034	4200	950	3040	678	2280	500	1520	285	1000	200	1000	200
8	7796	2539	7017	1593	6237	1412	5457	1231	4678	1050	4308	965	3118	689	2339	508	1559	290	1026	203	1026	203
9	7992	2577	7193	1617	6394	1434	5595	1250	4795	1066	4417	979	3197	699	2398	515	1598	294	1052	206	1052	206
10	8188	2616	7370	1642	6551	1455	5732	1269	4913	1082	4525	994	3275	710	2457	523	1638	298	1077	209	1077	209
11	8385	2655	7546	1666	6708	1477	5869	1288	5031	1098	4633	1009	3354	720	2515	531	1677	303	1103	212	1103	212
12	8581	2694	7723	1690	6865	1498	6006	1306	5146	1114	4742	1023	3432	731	2574	539	1716	307	1129	215	1129	215
13	8777	2732	7899	1714	7021	1520	6144	1325	5266	1130	4850	1038	3511	741	2633	546	1755	312	1155	219	1155	219
14	8973	2771	8076	1739	7178	1541	6281	1344	5384	1146	4958	1053	3589	752	2692	554	1795	316	1181	222	1181	222
15	9169	2810	8252	1763	7335	1563	6418	1363	5501	1163	5067	1068	3668	762	2751	562	1834	320	1206	225	1206	225
16	9365	2848	8429	1787	7492	1584	6556	1381	5619	1179	5175	1082	3746	773	2810	570	1873	325	1232	228	1232	228
17	9561	2887	8605	1812	7649	1606	6693	1400	5737	1195	5284	1097	3825	783	2868	577	1912	329	1258	231	1258	231
18	9757	2926	8782	1836	7806	1627	6830	1419	5854	1211	5392	1112	3903	794	2927	585	1951	334	1284	234	1284	234
19	9954	2965	8958	1860	7963	1649	6967	1438	5972	1227	5500	1126	3981	804	2986	593	1991	338	1310	237	1310	237
20	10150	3003	9135	1885	8120	1671	7105	1457	6090	1243	5609	1141	4060	815	3045	601	2030	342	1335	240	1335	240
21	10346	3042	9311	1909	8277	1692	7242	1475	6207	1259	5717	1156	4138	825	3104	608	2069	347	1361	243	1361	243
22	10542	3081	9488	1933	8434	1714	7379	1494	6325	1275	5825	1171	4217	836	3163	616	2108	351	1387	246	1387	246
23	10738	3119	9664	1957	8590	1735	7517	1513	6443	1291	5934	1185	4295	846	3221	624	2148	356	1413	250	1413	250
24	10923	3154	9841	1982	8747	1757	7654	1532	6561	1307	6042	1200	4374	857	3280	632	2187	360	1439	253	1439	253

10. Performance Characteristic

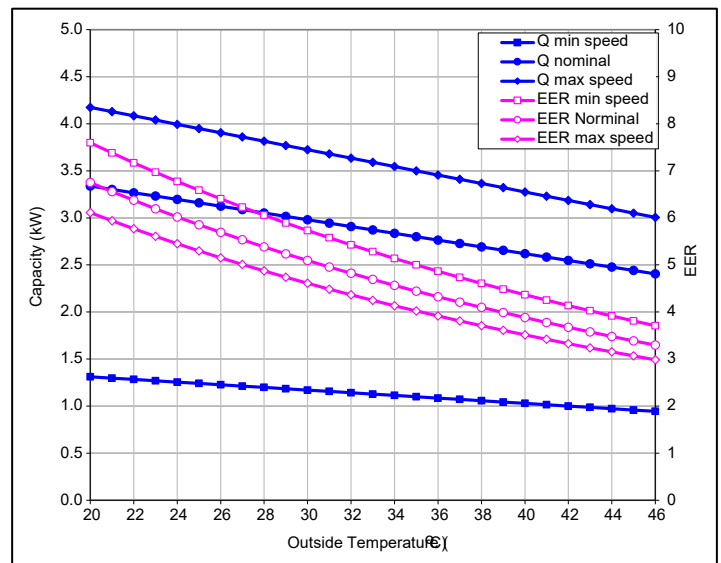
Model : RAS-25N4KVRG-ND ; RAS-25J2AVSG-ND1

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB	Min	1.10	0.22	5.00
	Rated	2.80	0.63	4.44
	Max	3.50	0.87	4.02
Heating JIS In: 20 °C DB/15°C WB Out: 7°C DB/6°C WB	Min	1.00	0.20	5.00
	Rated	3.20	0.65	4.92
	Max	7.20	2.40	3.00
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2°C DB/1°C WB	Max	4.70	1.90	2.47
	Max	4.10	1.70	2.41
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10°C DB	Max	3.80	1.60	2.38
	Max	3.20	1.45	2.21
Heating Low Temp. In: 20 °C DB/15°C WB Out: -20°C DB	Max	2.60	1.30	2.00

Cooling performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)
20	1.31	0.17	7.60	3.34	0.49	6.75	4.17	0.68	6.11
21	1.30	0.18	7.38	3.30	0.50	6.56	4.13	0.70	5.94
22	1.28	0.18	7.17	3.27	0.51	6.37	4.08	0.71	5.77
23	1.27	0.18	6.97	3.23	0.52	6.19	4.04	0.72	5.61
24	1.26	0.19	6.77	3.20	0.53	6.02	3.99	0.73	5.45
25	1.24	0.19	6.59	3.16	0.54	5.85	3.95	0.75	5.30
26	1.23	0.19	6.40	3.12	0.55	5.69	3.90	0.76	5.15
27	1.21	0.19	6.23	3.09	0.56	5.54	3.86	0.77	5.01
28	1.20	0.20	6.06	3.05	0.57	5.38	3.81	0.78	4.87
29	1.18	0.20	5.89	3.02	0.58	5.24	3.77	0.80	4.74
30	1.17	0.20	5.73	2.98	0.58	5.09	3.72	0.81	4.61
31	1.16	0.21	5.58	2.94	0.59	4.96	3.68	0.82	4.49
32	1.14	0.21	5.43	2.91	0.60	4.82	3.63	0.83	4.37
33	1.13	0.21	5.28	2.87	0.61	4.69	3.59	0.85	4.25
34	1.11	0.22	5.14	2.84	0.62	4.57	3.54	0.86	4.13
35	1.10	0.22	5.00	2.80	0.63	4.44	3.50	0.87	4.02
36	1.09	0.22	4.87	2.76	0.64	4.33	3.46	0.88	3.92
37	1.07	0.23	4.74	2.73	0.65	4.21	3.41	0.89	3.81
38	1.06	0.23	4.61	2.69	0.66	4.10	3.37	0.91	3.71
39	1.04	0.23	4.49	2.66	0.67	3.99	3.32	0.92	3.61
40	1.03	0.24	4.37	2.62	0.68	3.88	3.28	0.93	3.51
41	1.02	0.24	4.25	2.58	0.68	3.78	3.23	0.94	3.42
42	1.00	0.24	4.14	2.55	0.69	3.68	3.19	0.96	3.33
43	0.99	0.25	4.03	2.51	0.70	3.58	3.14	0.97	3.24
44	0.97	0.25	3.92	2.48	0.71	3.48	3.10	0.98	3.15
45	0.96	0.25	3.81	2.44	0.72	3.39	3.05	0.99	3.07
46	0.94	0.25	3.71	2.40	0.73	3.30	3.01	1.01	2.98



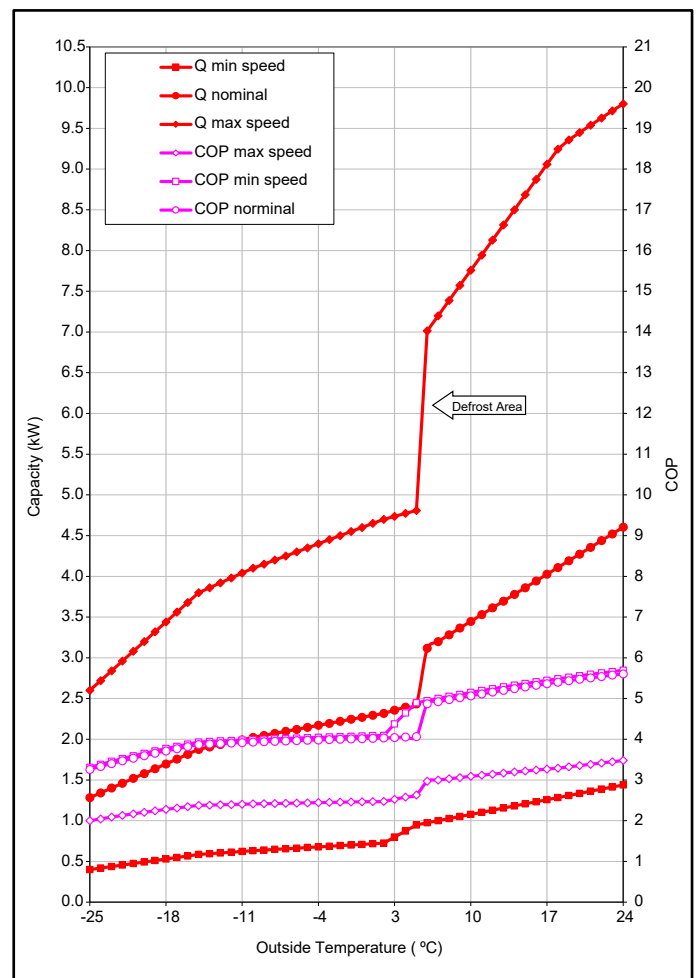
Model : RAS-25N4KVRG-ND ; RAS-25J2AVSG-ND1

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35 °C DB/24°C WB	Min	1.10	0.22	5.00
	Rated	2.80	0.63	4.44
	Max	3.50	0.87	4.02
Heating JIS In: 20 °C DB/15°C WB Out: 7 °C DB/6°C WB	Min	1.00	0.20	5.00
	Rated	3.20	0.65	4.92
	Max	7.20	2.40	3.00
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2 °C DB/1°C WB	Max	4.70	1.90	2.47
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10 °C DB	Max	4.10	1.70	2.41
Heating Low Temp. In: 20 °C DB/15°C WB Out: -15 °C DB	Max	3.80	1.60	2.38
Heating Low Temp. In: 20 °C DB/15°C WB Out: -20 °C DB	Max	3.20	1.45	2.21
Heating Low Temp. In: 20 °C DB/15°C WB Out: -25 °C DB	Max	2.60	1.30	2.00

Heating performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)
-25	0.40	0.12	3.31	1.28	0.39	3.26	2.60	1.30	2.00
-24	0.42	0.12	3.38	1.34	0.40	3.33	2.72	1.33	2.05
-23	0.44	0.13	3.46	1.40	0.41	3.40	2.84	1.36	2.09
-22	0.46	0.13	3.52	1.46	0.42	3.47	2.96	1.39	2.13
-21	0.47	0.13	3.59	1.52	0.43	3.53	3.08	1.42	2.17
-20	0.49	0.14	3.65	1.58	0.44	3.60	3.20	1.45	2.21
-19	0.51	0.14	3.71	1.64	0.45	3.66	3.32	1.48	2.24
-18	0.53	0.14	3.77	1.70	0.46	3.71	3.44	1.51	2.28
-17	0.55	0.14	3.83	1.76	0.47	3.77	3.56	1.54	2.31
-16	0.57	0.15	3.88	1.82	0.48	3.82	3.68	1.57	2.34
-15	0.59	0.15	3.93	1.87	0.48	3.87	3.80	1.60	2.38
-14	0.60	0.15	3.94	1.90	0.49	3.88	3.86	1.62	2.38
-13	0.60	0.15	3.96	1.93	0.50	3.90	3.92	1.64	2.39
-12	0.61	0.15	3.97	1.96	0.50	3.91	3.98	1.66	2.40
-11	0.62	0.16	3.98	1.99	0.51	3.92	4.04	1.68	2.40
-10	0.63	0.16	3.99	2.02	0.51	3.93	4.10	1.70	2.41
-9	0.64	0.16	4.00	2.05	0.52	3.94	4.15	1.72	2.42
-8	0.65	0.16	4.01	2.07	0.52	3.95	4.20	1.73	2.42
-7	0.66	0.16	4.02	2.10	0.53	3.96	4.25	1.75	2.43
-6	0.66	0.16	4.03	2.12	0.53	3.97	4.30	1.77	2.43
-5	0.67	0.17	4.04	2.15	0.54	3.98	4.35	1.78	2.44
-4	0.68	0.17	4.05	2.17	0.54	3.98	4.40	1.80	2.44
-3	0.69	0.17	4.05	2.20	0.55	3.99	4.45	1.82	2.45
-2	0.69	0.17	4.06	2.22	0.56	4.00	4.50	1.83	2.45
-1	0.70	0.17	4.07	2.24	0.56	4.01	4.55	1.85	2.46
0	0.71	0.17	4.08	2.27	0.57	4.02	4.60	1.87	2.46
1	0.72	0.18	4.09	2.29	0.57	4.02	4.65	1.88	2.47
2	0.72	0.18	4.09	2.32	0.58	4.03	4.70	1.90	2.47
3	0.80	0.18	4.38	2.36	0.58	4.04	4.74	1.88	2.53
4	0.87	0.19	4.64	2.39	0.59	4.05	4.77	1.85	2.58
5	0.95	0.19	4.89	2.43	0.60	4.07	4.81	1.83	2.63
6	0.97	0.20	4.95	3.12	0.64	4.87	7.01	2.36	2.97
7	1.00	0.20	5.00	3.20	0.65	4.92	7.20	2.40	3.00
8	1.03	0.20	5.05	3.28	0.66	4.97	7.39	2.44	3.03
9	1.05	0.21	5.10	3.37	0.67	5.02	7.57	2.47	3.06
10	1.08	0.21	5.15	3.45	0.68	5.07	7.76	2.51	3.09
11	1.10	0.21	5.19	3.53	0.69	5.11	7.94	2.55	3.12
12	1.13	0.22	5.24	3.61	0.70	5.16	8.13	2.59	3.14
13	1.15	0.22	5.28	3.70	0.71	5.20	8.31	2.62	3.17
14	1.18	0.22	5.33	3.78	0.72	5.24	8.50	2.66	3.20
15	1.21	0.22	5.37	3.86	0.73	5.28	8.69	2.70	3.22
16	1.23	0.23	5.41	3.94	0.74	5.32	8.87	2.73	3.24
17	1.26	0.23	5.45	4.03	0.75	5.36	9.06	2.77	3.27
18	1.28	0.23	5.49	4.11	0.76	5.40	9.24	2.81	3.29
19	1.31	0.24	5.52	4.19	0.77	5.44	9.36	2.82	3.32
20	1.34	0.24	5.56	4.27	0.78	5.47	9.45	2.82	3.35
21	1.36	0.24	5.59	4.36	0.79	5.51	9.54	2.82	3.39
22	1.39	0.25	5.63	4.44	0.80	5.54	9.63	2.82	3.42
23	1.41	0.25	5.66	4.52	0.81	5.57	9.71	2.82	3.45
24	1.44	0.25	5.69	4.60	0.82	5.61	9.80	2.82	3.48



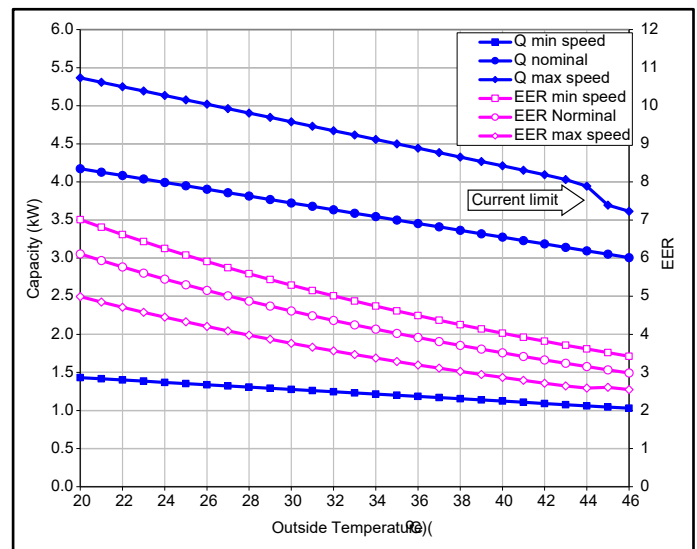
Model : RAS-35N4KVRG-ND ; RAS-35J2AVSG-ND1

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35 °C DB/24°C WB	Min	1.20	0.26	4.62
	Rated	3.50	0.87	4.02
	Max	4.50	1.37	3.28
Heating JIS In: 20 °C DB/15°C WB Out: 7 °C DB/6°C WB	Min	1.00	0.20	5.00
	Rated	4.20	0.95	4.42
	Max	7.60	2.50	3.04
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2 °C DB/1°C WB		Max	5.50	2.20
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10 °C DB		Max	4.50	1.90
Heating Low Temp. In: 20 °C DB/15°C WB Out: -15 °C DB		Max	4.00	1.80
Heating Low Temp. In: 20 °C DB/15°C WB Out: -20 °C DB		Max	3.30	1.60
Heating Low Temp. In: 20 °C DB/15°C WB Out: -25 °C DB		Max	2.70	1.50

Cooling performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)	Capacity (kW)	Power (kW)	EER (-)
20	1.43	0.20	7.01	4.17	0.68	6.11	5.37	1.08	4.99
21	1.42	0.21	6.81	4.13	0.70	5.94	5.31	1.10	4.85
22	1.40	0.21	6.62	4.08	0.71	5.77	5.25	1.11	4.71
23	1.38	0.22	6.43	4.04	0.72	5.61	5.19	1.13	4.58
24	1.37	0.22	6.25	3.99	0.73	5.45	5.14	1.15	4.45
25	1.35	0.22	6.08	3.95	0.75	5.30	5.08	1.17	4.33
26	1.34	0.23	5.91	3.90	0.76	5.15	5.02	1.19	4.21
27	1.32	0.23	5.75	3.86	0.77	5.01	4.96	1.21	4.09
28	1.31	0.23	5.59	3.81	0.78	4.87	4.90	1.23	3.98
29	1.29	0.24	5.44	3.77	0.80	4.74	4.85	1.25	3.87
30	1.28	0.24	5.29	3.72	0.81	4.61	4.79	1.27	3.77
31	1.26	0.25	5.15	3.68	0.82	4.49	4.73	1.29	3.66
32	1.25	0.25	5.01	3.63	0.83	4.37	4.67	1.31	3.56
33	1.23	0.25	4.87	3.59	0.85	4.25	4.62	1.33	3.47
34	1.22	0.26	4.74	3.54	0.86	4.13	4.56	1.35	3.38
35	1.20	0.26	4.62	3.50	0.87	4.02	4.50	1.37	3.28
36	1.18	0.26	4.49	3.46	0.88	3.92	4.44	1.39	3.20
37	1.17	0.27	4.37	3.41	0.89	3.81	4.38	1.41	3.11
38	1.15	0.27	4.25	3.37	0.91	3.71	4.33	1.43	3.03
39	1.14	0.27	4.14	3.32	0.92	3.61	4.27	1.45	2.95
40	1.12	0.28	4.03	3.28	0.93	3.51	4.21	1.47	2.87
41	1.11	0.28	3.92	3.23	0.94	3.42	4.15	1.49	2.79
42	1.09	0.29	3.82	3.19	0.96	3.33	4.10	1.51	2.72
43	1.08	0.29	3.72	3.14	0.97	3.24	4.03	1.52	2.65
44	1.06	0.29	3.62	3.10	0.98	3.15	3.94	1.52	2.59
45	1.05	0.30	3.52	3.05	0.99	3.07	3.70	1.42	2.61
46	1.03	0.30	3.42	3.01	1.01	2.98	3.62	1.42	2.55



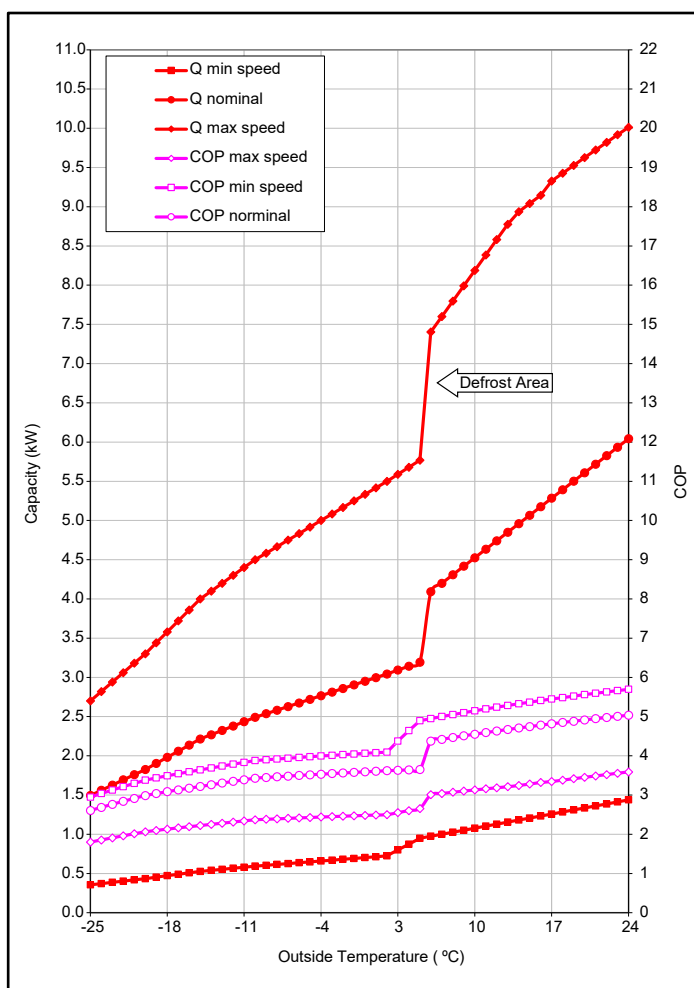
Model : RAS-35N4KVRG-ND ; RAS-35J2AVSG-ND1

Product specification :

Condition		Capacity (kW)	Power (kW)	EER/COP
Cooling JIS In: 27 °C DB/19°C WB Out: 35°C DB/24°C WB	Min	1.20	0.26	4.62
	Rated	3.50	0.87	4.02
	Max	4.50	1.37	3.28
Heating JIS In: 20 °C DB/15°C WB Out: 7 °C DB/6°C WB	Min	1.00	0.20	5.00
	Rated	4.20	0.95	4.42
	Max	7.60	2.50	3.04
Heating Low Temp. In: 20 °C DB/15°C WB Out: 2 °C DB/1°C WB	Max	5.50	2.20	2.50
Heating Low Temp. In: 20 °C DB/15°C WB Out: -10°C DB	Max	4.50	1.90	2.37
Heating Low Temp. In: 20 °C DB/15°C WB Out: -15°C DB	Max	4.00	1.80	2.22
Heating Low Temp. In: 20 °C DB/15°C WB Out: -20°C DB	Max	3.30	1.60	2.06
Heating Low Temp. In: 20 °C DB/15°C WB Out: -25°C DB	Max	2.70	1.50	1.80

Heating performance characteristic :

Outside Temp (°C)	Min capacity			Nominal capacity			Max capacity		
	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)	Capacity (kW)	Power (kW)	COP (-)
-25	0.36	0.12	2.95	1.49	0.57	2.61	2.70	1.50	1.80
-24	0.37	0.12	3.04	1.56	0.58	2.69	2.82	1.52	1.86
-23	0.39	0.12	3.13	1.63	0.59	2.76	2.94	1.54	1.91
-22	0.40	0.13	3.21	1.69	0.60	2.84	3.06	1.56	1.96
-21	0.42	0.13	3.30	1.76	0.60	2.91	3.18	1.58	2.01
-20	0.43	0.13	3.38	1.83	0.61	2.99	3.30	1.60	2.06
-19	0.45	0.13	3.44	1.90	0.63	3.04	3.44	1.64	2.10
-18	0.47	0.14	3.49	1.98	0.64	3.09	3.58	1.68	2.13
-17	0.49	0.14	3.54	2.06	0.66	3.13	3.72	1.72	2.16
-16	0.51	0.14	3.59	2.14	0.67	3.18	3.86	1.76	2.19
-15	0.53	0.14	3.64	2.21	0.69	3.22	4.00	1.80	2.22
-14	0.54	0.15	3.69	2.27	0.70	3.26	4.10	1.82	2.25
-13	0.55	0.15	3.74	2.32	0.70	3.31	4.20	1.84	2.28
-12	0.57	0.15	3.79	2.38	0.71	3.35	4.30	1.86	2.31
-11	0.58	0.15	3.83	2.43	0.72	3.39	4.40	1.88	2.34
-10	0.59	0.15	3.88	2.49	0.73	3.43	4.50	1.90	2.37
-9	0.60	0.15	3.90	2.54	0.74	3.45	4.58	1.93	2.38
-8	0.61	0.16	3.92	2.58	0.75	3.47	4.67	1.95	2.39
-7	0.63	0.16	3.94	2.63	0.75	3.48	4.75	1.98	2.41
-6	0.64	0.16	3.96	2.67	0.76	3.50	4.83	2.00	2.42
-5	0.65	0.16	3.98	2.72	0.77	3.52	4.92	2.03	2.43
-4	0.66	0.16	3.99	2.77	0.78	3.53	5.00	2.05	2.44
-3	0.67	0.17	4.01	2.81	0.79	3.55	5.08	2.08	2.45
-2	0.68	0.17	4.03	2.86	0.80	3.56	5.17	2.10	2.46
-1	0.69	0.17	4.05	2.91	0.81	3.58	5.25	2.13	2.47
0	0.70	0.17	4.06	2.95	0.82	3.59	5.33	2.15	2.48
1	0.71	0.17	4.08	3.00	0.83	3.61	5.42	2.18	2.49
2	0.72	0.18	4.09	3.04	0.84	3.62	5.50	2.20	2.50
3	0.80	0.18	4.38	3.09	0.85	3.63	5.59	2.19	2.55
4	0.87	0.19	4.64	3.14	0.86	3.64	5.68	2.18	2.60
5	0.95	0.19	4.89	3.19	0.87	3.65	5.77	2.17	2.66
6	0.97	0.20	4.95	4.09	0.94	4.37	7.40	2.46	3.01
7	1.00	0.20	5.00	4.20	0.95	4.42	7.60	2.50	3.04
8	1.03	0.20	5.05	4.31	0.96	4.47	7.80	2.54	3.07
9	1.05	0.21	5.10	4.42	0.98	4.51	7.99	2.58	3.10
10	1.08	0.21	5.15	4.53	0.99	4.55	8.19	2.62	3.13
11	1.10	0.21	5.19	4.63	1.01	4.59	8.38	2.65	3.16
12	1.13	0.22	5.24	4.74	1.02	4.63	8.58	2.69	3.19
13	1.15	0.22	5.28	4.85	1.04	4.67	8.78	2.73	3.21
14	1.18	0.22	5.33	4.96	1.05	4.71	8.94	2.76	3.24
15	1.21	0.22	5.37	5.07	1.07	4.75	9.04	2.76	3.28
16	1.23	0.23	5.41	5.18	1.08	4.78	9.14	2.76	3.32
17	1.26	0.23	5.45	5.28	1.10	4.82	9.33	2.79	3.34
18	1.28	0.23	5.49	5.39	1.11	4.85	9.43	2.79	3.38
19	1.31	0.24	5.52	5.50	1.13	4.88	9.53	2.79	3.42
20	1.34	0.24	5.56	5.61	1.14	4.91	9.63	2.79	3.45
21	1.36	0.24	5.59	5.72	1.16	4.95	9.72	2.79	3.49
22	1.39	0.25	5.63	5.83	1.17	4.98	9.82	2.79	3.52
23	1.41	0.25	5.66	5.93	1.19	5.01	9.92	2.79	3.56
24	1.44	0.25	5.69	6.04	1.20	5.04	10.01	2.79	3.59



TOSHIBA CARRIER (THAILAND) CO.,LTD.

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