

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.

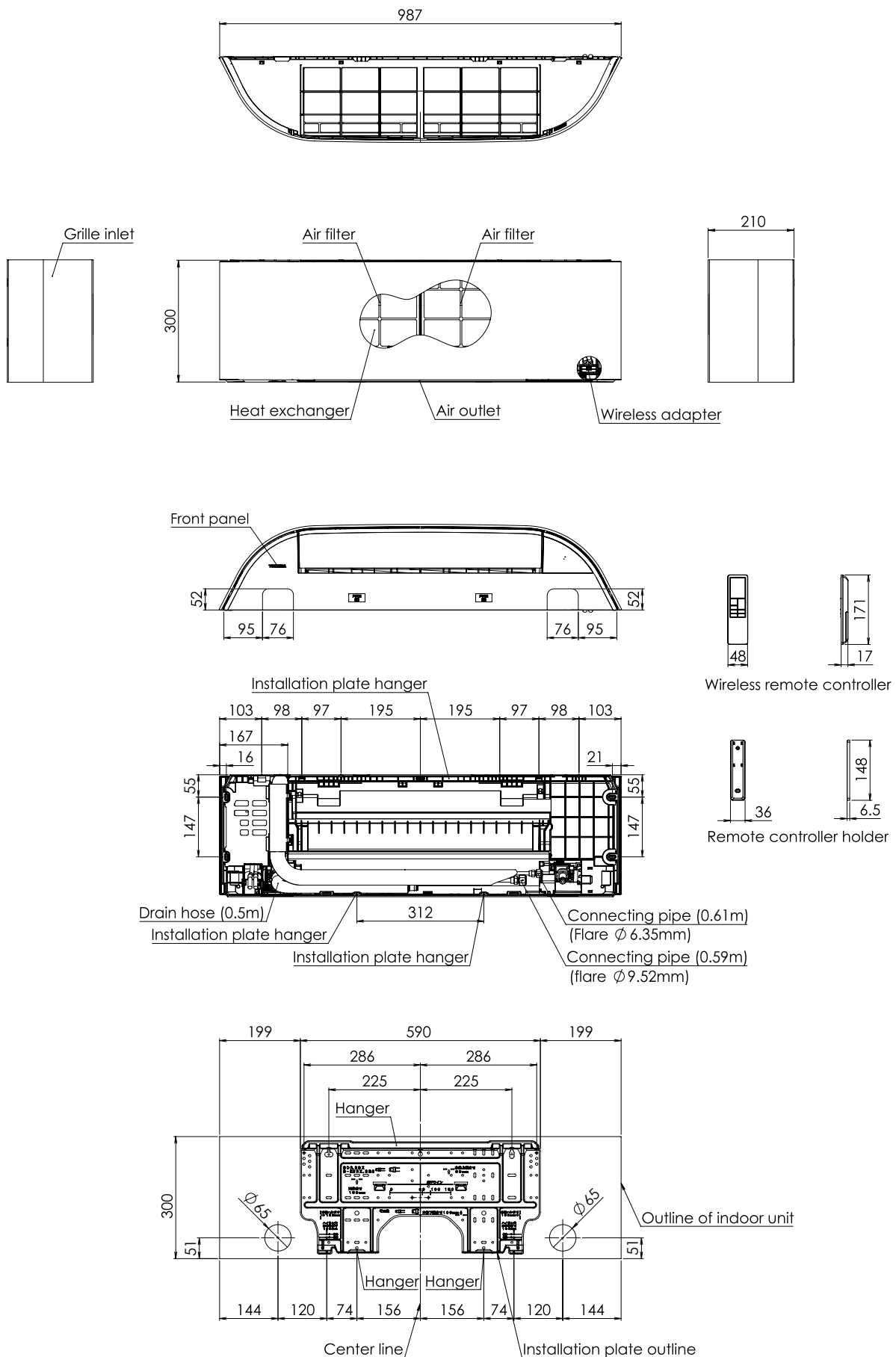
Cooling : Capacity test condition, inside : 27 °C (Db) / 19 °C (Wb), outside : 35 °C (Db) / 24 °C (Wb)

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

Piping length : 5 m per Indoor Unit.

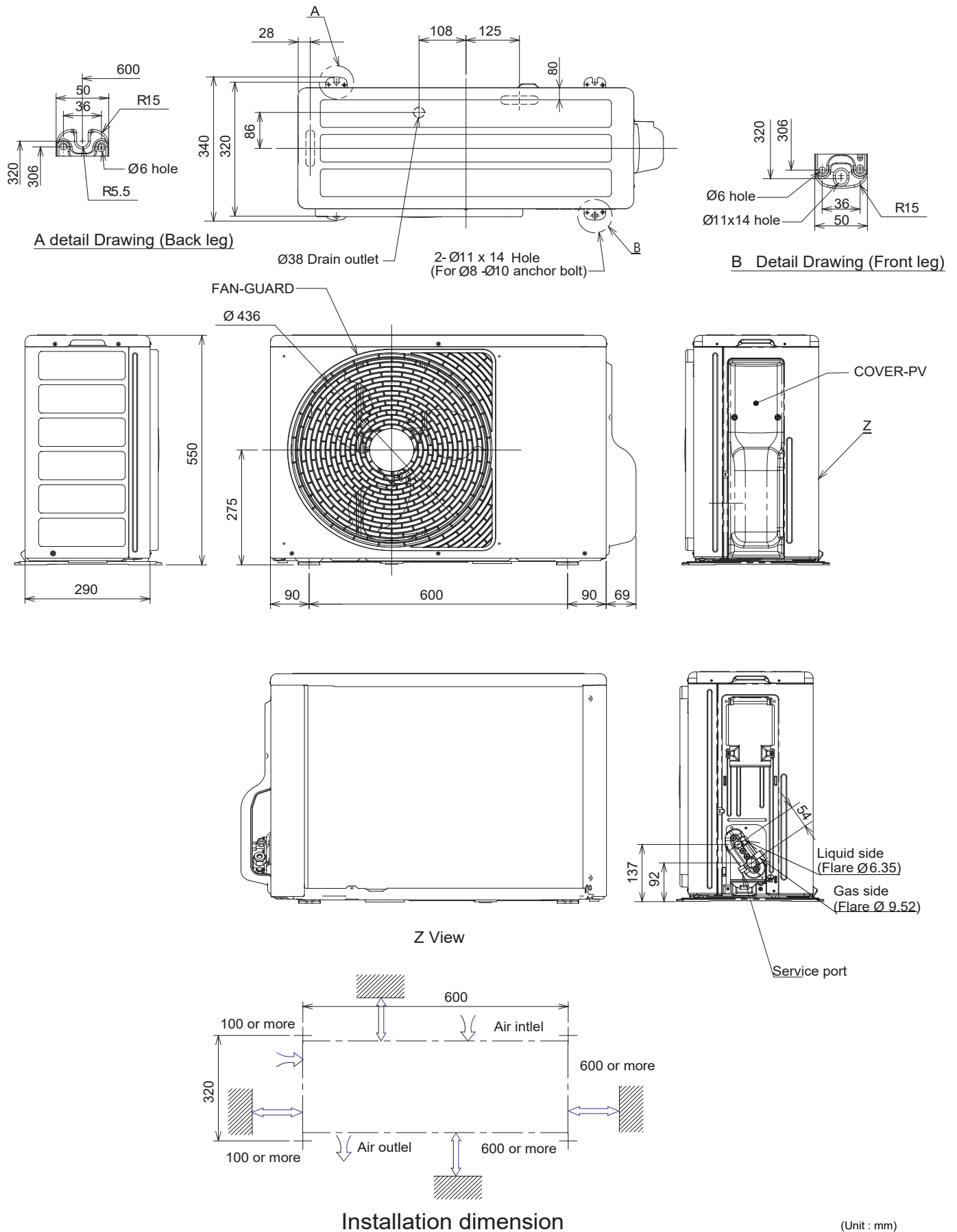
3. Dimension

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



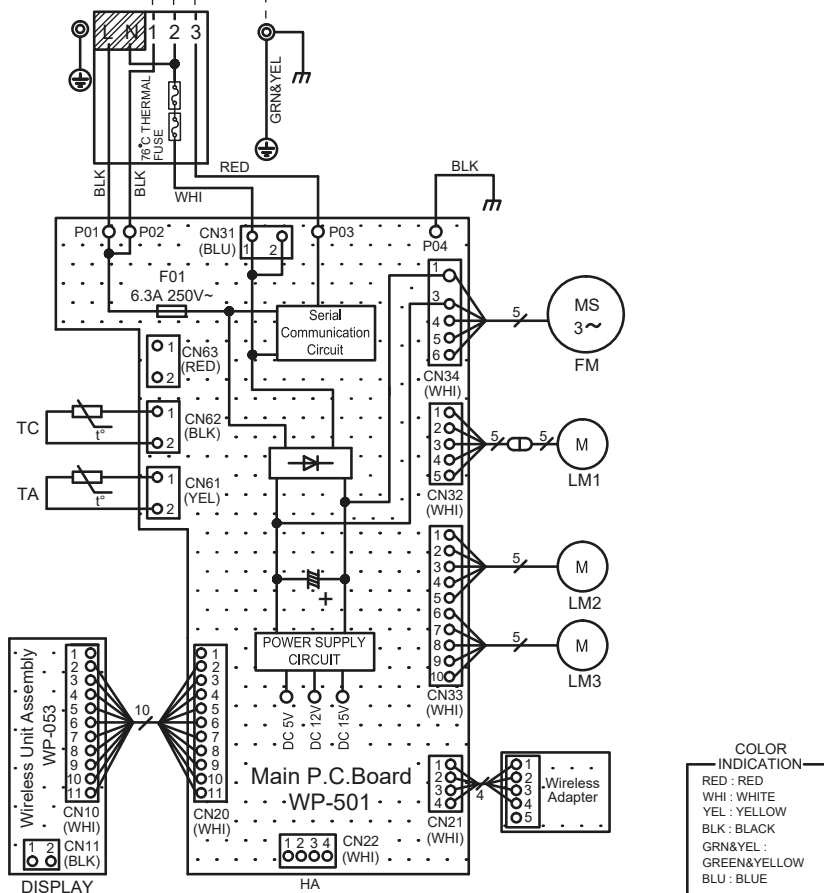
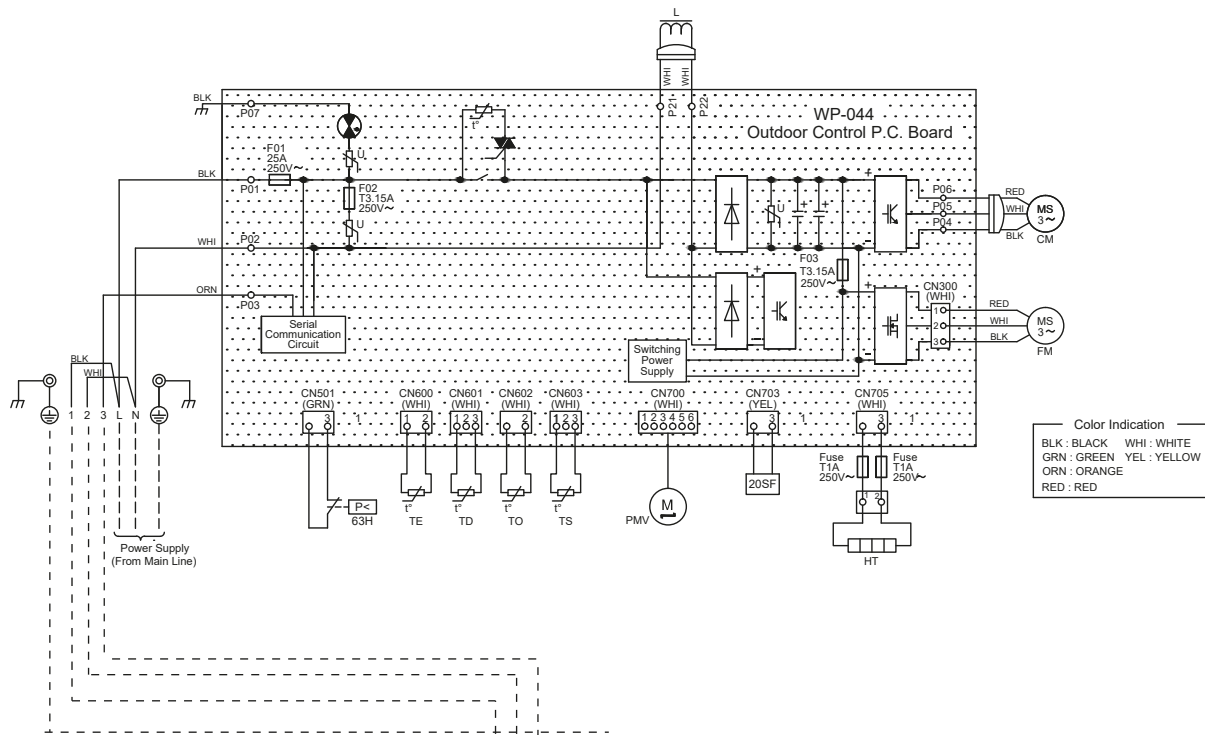
(Unit : mm)

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



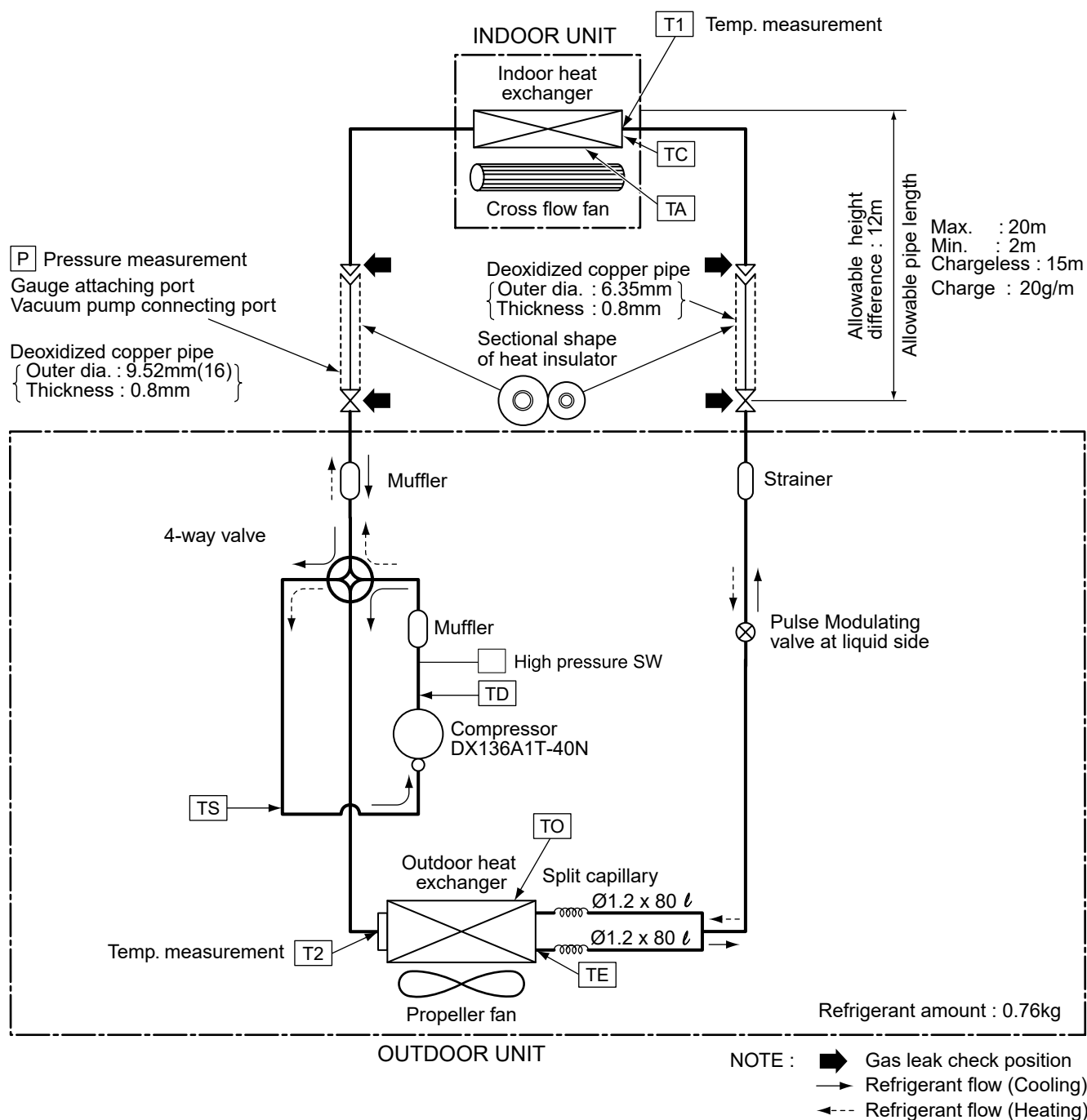
4. Wiring diagrams

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



5. Refrigerant cycle diagrams

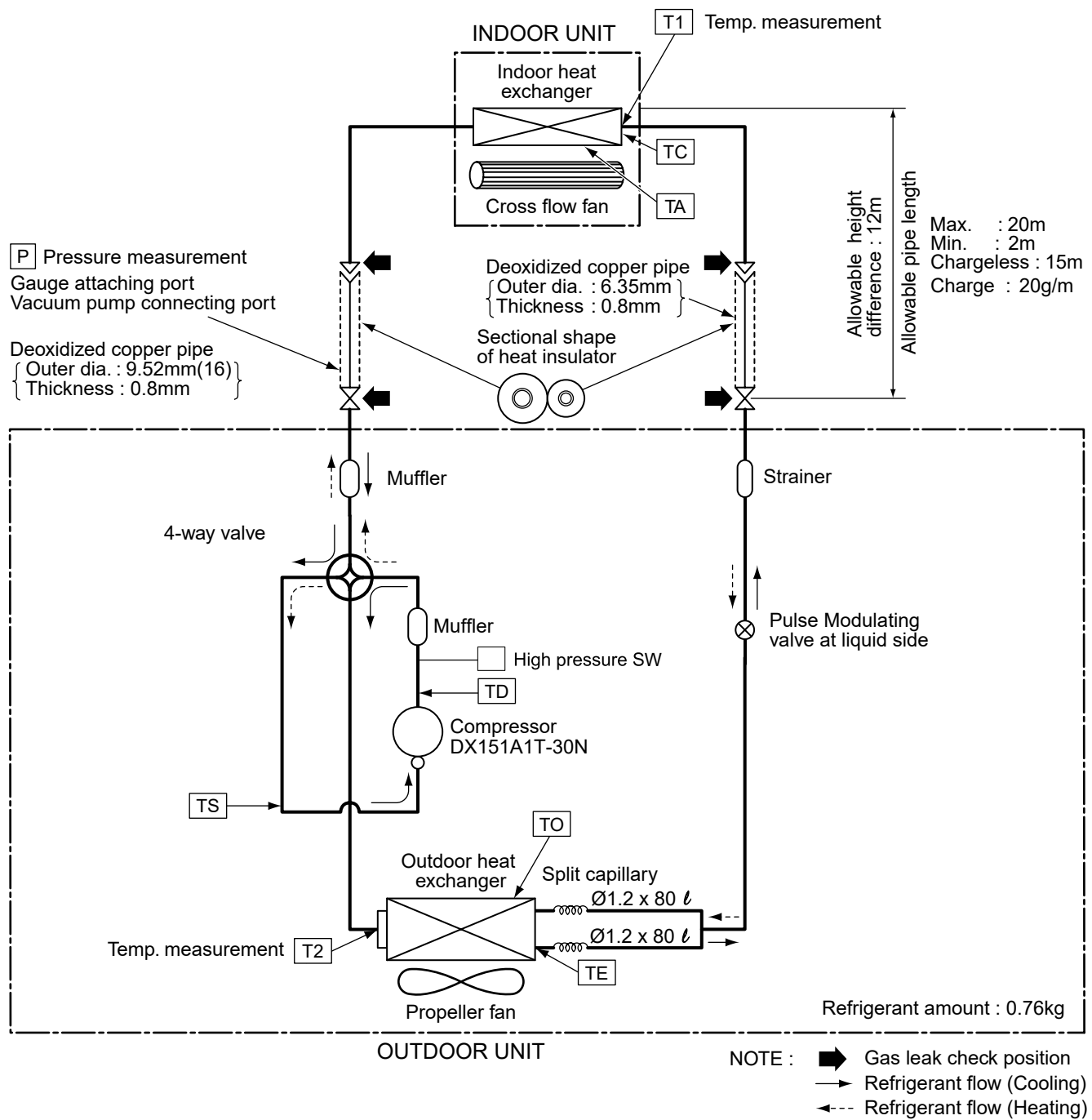
RAS-25N4KVRG-ND ; RAS-25J2AVSG-ND1



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

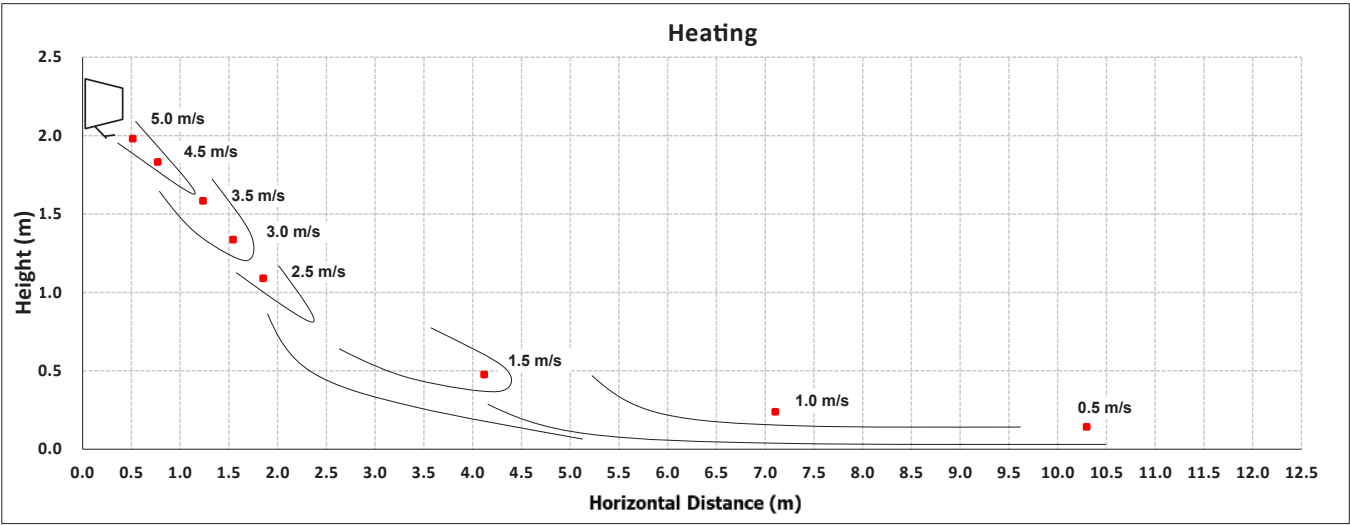
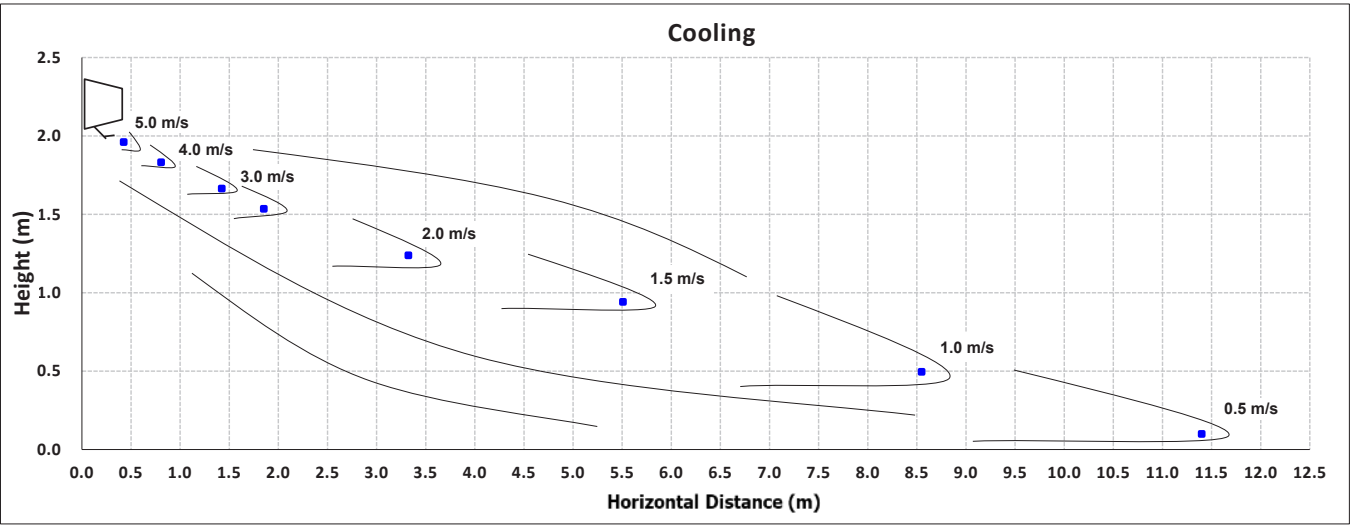


NOTE :

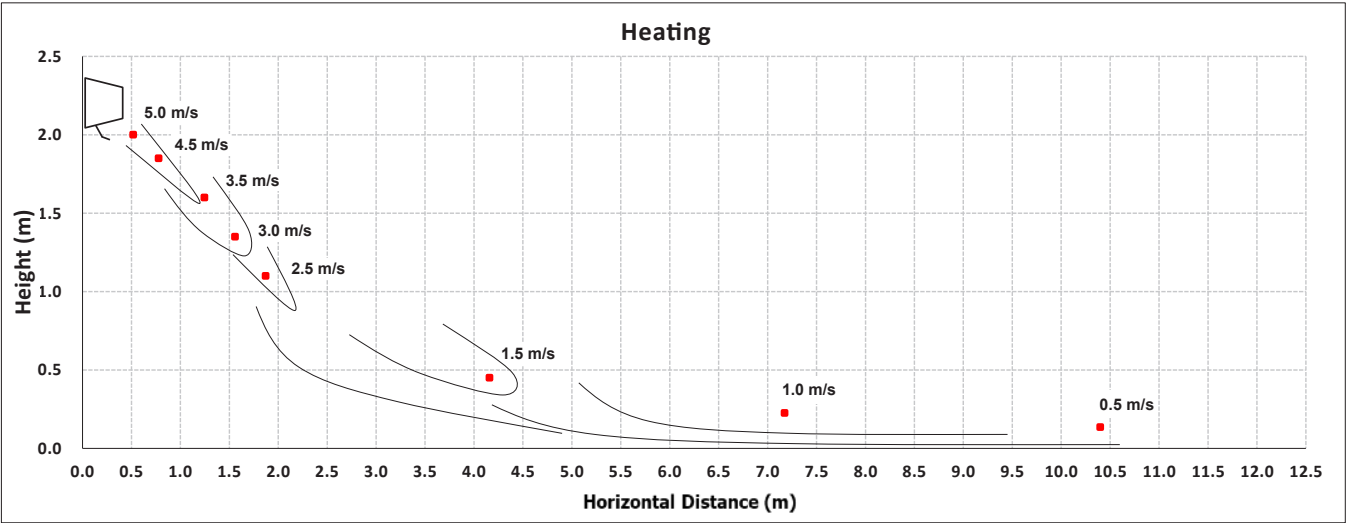
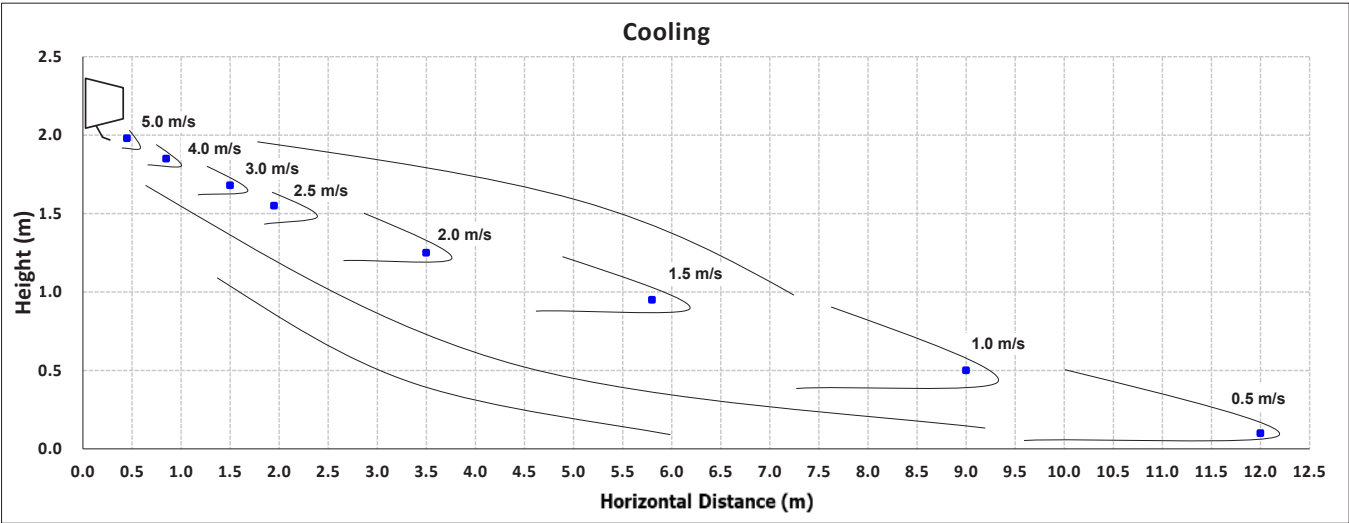
- The maximum pipe length of this air conditioner is 15 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 100g)

6. Air Speed Distribution

RAS-25N4KVRG-ND



RAS-35N4KVRG-ND

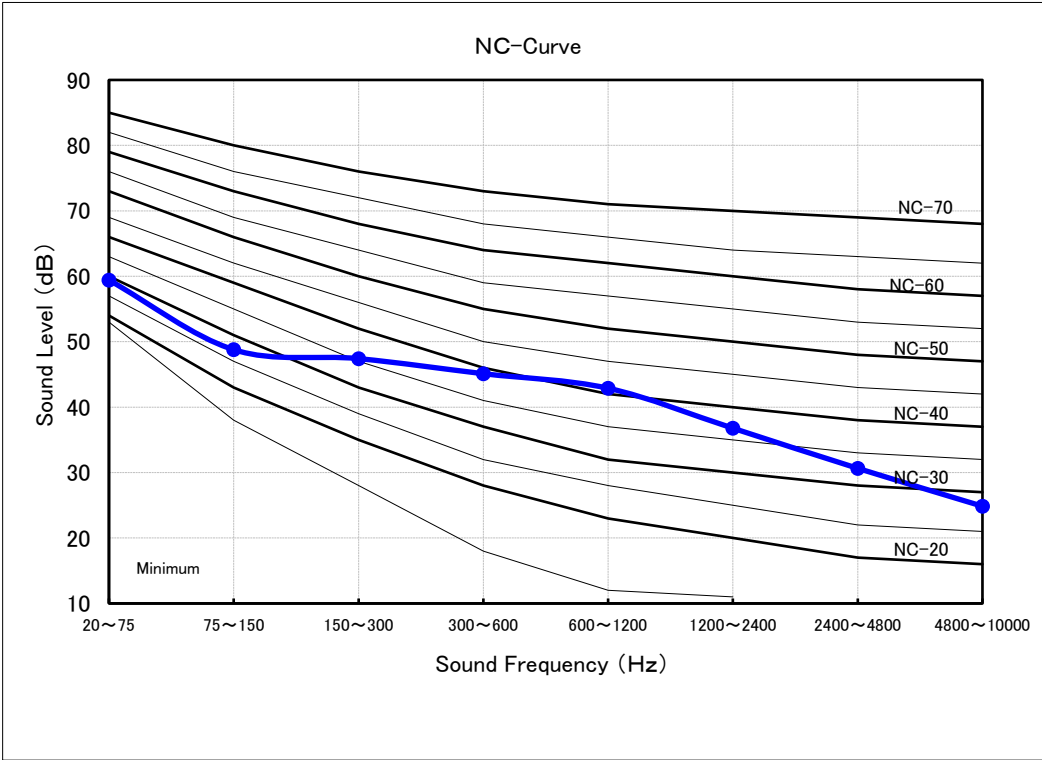


7. Sound Characteristics (NC Curve)

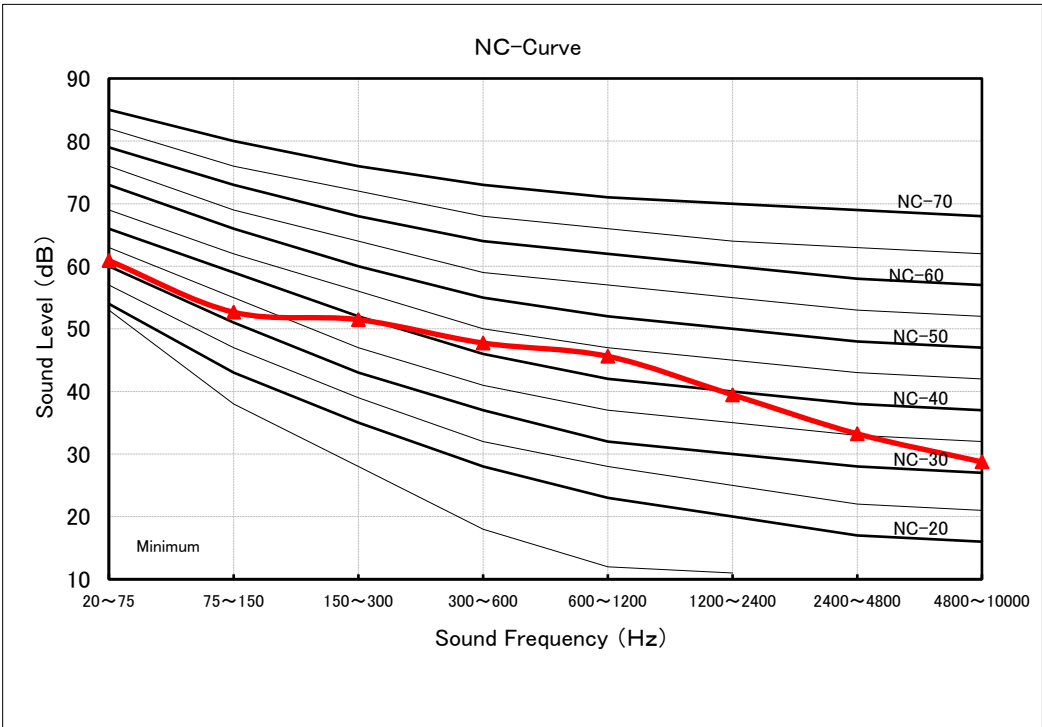
Outdoor Unit : RAS-25J2AVSG-ND1 (Rated Conditions)

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

Cooling



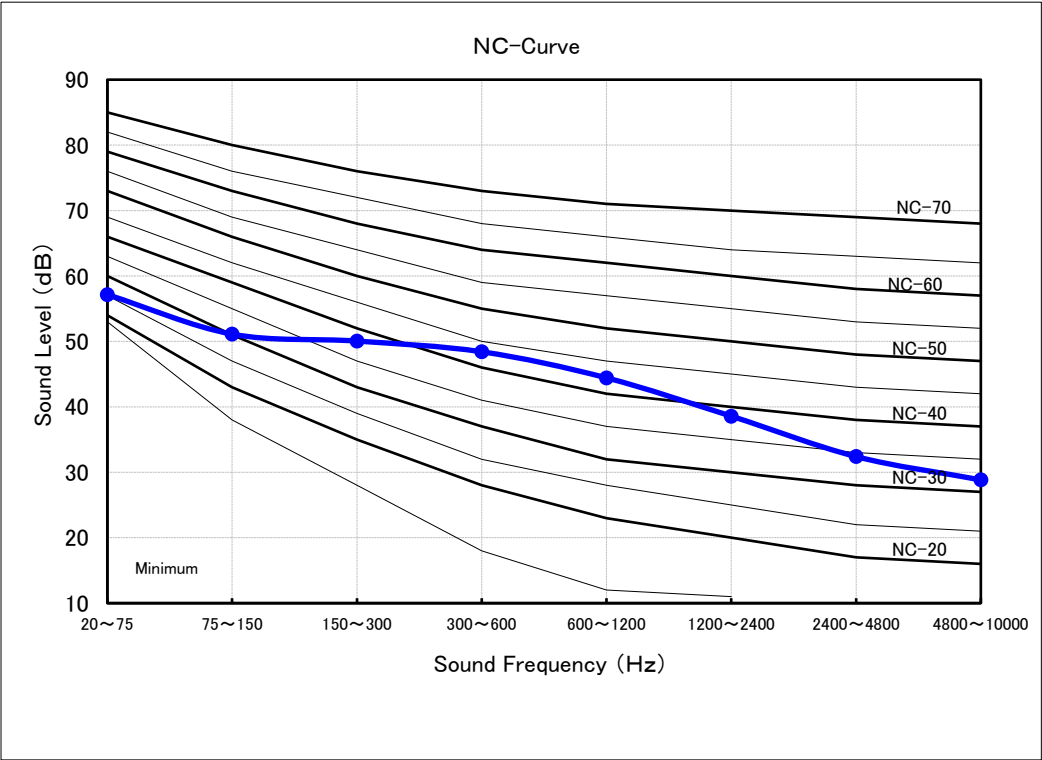
Heating



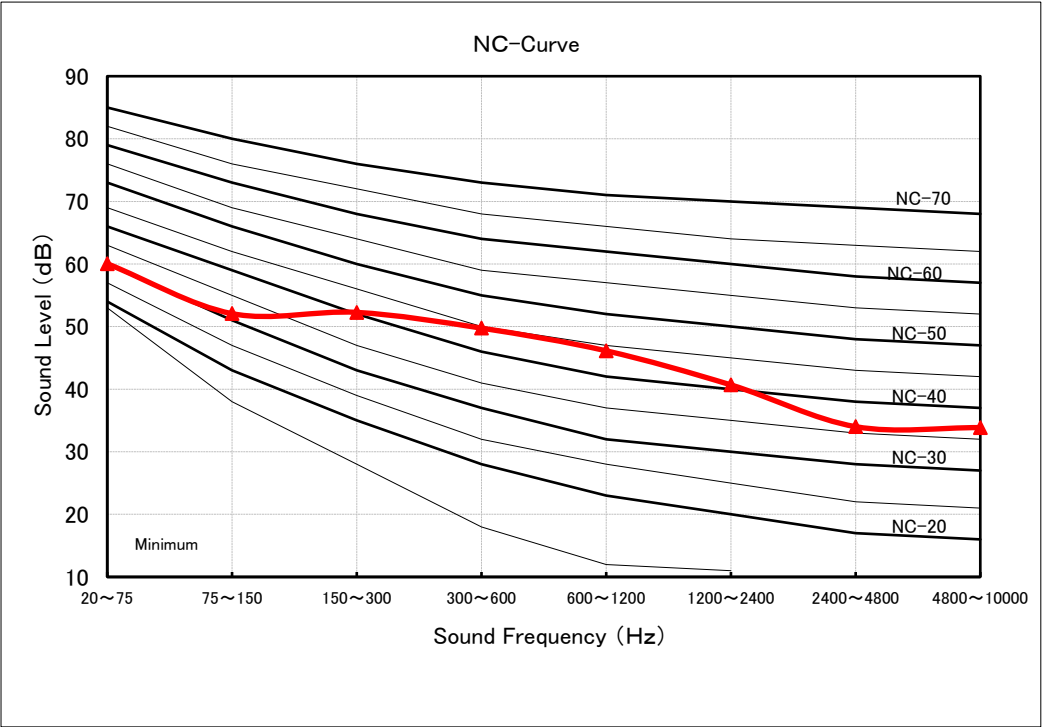
Outdoor Unit : RAS-35J2AVSG-ND1 (Rated Conditions)

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		10	
	Q	P	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	1312	173
21	4129	695	3716	571	3303	504	2890	418	2477	351	2064	283	1652	216	1298	176	1298	176	1298	176
22	4084	708	3676	581	3267	513	2859	426	2450	357	2042	288	1634	220	1284	179	1284	179	1284	179
23	4039	720	3635	592	3231	522	2827	433	2423	363	2020	293	1616	224	1269	182	1269	182	1269	182
24	3994	733	3595	602	3195	531	2796	441	2396	370	1997	299	1598	227	1255	185	1255	185	1255	185
25	3949	745	3554	612	3159	540	2764	448	2370	376	1975	304	1580	231	1241	188	1241	188	1241	188
26	3904	758	3514	622	3123	549	2733	456	2343	382	1952	309	1562	235	1227	192	1227	192	1227	192
27	3859	770	3473	632	3087	558	2702	463	2316	389	1930	314	1544	239	1213	195	1213	195	1213	195
28	3814	783	3433	643	3052	567	2670	471	2289	395	1907	319	1526	243	1199	198	1199	198	1199	198
29	3770	795	3393	653	3016	576	2639	478	2262	401	1885	324	1508	247	1185	201	1185	201	1185	201
30	3725	808	3352	663	2980	585	2607	486	2235	407	1862	329	1490	251	1171	204	1171	204	1171	204
31	3680	820	3312	673	2944	594	2576	493	2208	414	1840	334	1472	255	1156	207	1156	207	1156	207
32	3635	833	3271	684	2908	603	2544	501	2181	420	1817	339	1454	258	1142	211	1142	211	1142	211
33	3590	845	3231	694	2872	612	2513	508	2154	426	1795	344	1436	262	1128	214	1128	214	1128	214
34	3545	858	3190	704	2836	621	2481	516	2127	433	1772	349	1418	266	1114	217	1114	217	1114	217
35	3500	870	3150	714	2800	630	2450	523	2100	439	1750	354	1400	270	1100	220	1100	220	1100	220
36	3455	882	3110	725	2764	639	2419	531	2073	445	1728	359	1382	274	1086	223	1086	223	1086	223
37	3410	895	3069	735	2728	648	2387	538	2046	451	1705	365	1364	278	1072	226	1072	226	1072	226
38	3365	907	3029	745	2692	657	2356	546	2019	458	1683	370	1346	282	1058	229	1058	229	1058	229
39	3320	920	2988	755	2656	666	2324	553	1992	464	1660	375	1328	285	1044	233	1044	233	1044	233
40	2818	706	2536	580	2620	675	2293	561	1965	470	1638	380	1310	289	1029	236	1029	236	1029	236
41	2761	706	2485	580	2584	684	2261	568	1938	477	1615	385	1292	293	1015	239	1015	239	1015	239
42	2705	706	2434	580	2548	693	2230	576	1911	483	1593	390	1274	297	1001	242	1001	242	1001	242
43	2601	706	2341	580	2513	702	2198	583	1884	489	1570	395	1256	301	987	245	987	245	987	245
44	2532	706	2278	580	2477	711	2167	591	1857	495	1548	400	1238	305	973	248	973	248	973	248
45	2292	657	2063	539	2441	720	2136	598	1831	502	1525	405	1220	309	959	252	959	252	959	252
46	2231	657	2008	539	2405	729	2104	606	1804	508	1503	410	1202	313	945	255	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	739	183	739	183
4	5243	2102	4849	1200	4311	1067	3772	933	3233	799	2694	665	2395	591	1616	397	1078	228	754	188	754	188
5	5317	2124	4926	1216	4379	1081	3832	945	3284	809	2737	674	2433	598	1642	403	1095	231	769	194	769	194
6	5401	2146	5003	1231	4447	1095	3883	957	3335	819	2779	683	2471	606	1668	409	1111	234	784	199	784	199
7	5485	2168	5080	1246	4519	1109	3934	969	3386	829	2820	692	2509	614	1694	415	1127	237	799	204	799	204
8	5569	2190	5157	1261	4591	1123	3985	981	3437	839	2861	701	2547	621	1720	421	1143	240	814	209	814	209
9	5653	2212	5234	1276	4663	1137	4036	993	3488	849	2902	710	2585	628	1746	427	1159	243	829	214	829	214
10	5737	2234	5311	1291	4735	1151	4087	1005	3539	859	2943	719	2623	635	1772	433	1175	246	844	219	844	219
11	5821	2256	5388	1306	4807	1165	4138	1017	3590	869	2984	728	2661	642	1798	439	1191	249	859	224	859	224
12	5905	2278	5465	1321	4879	1179	4189	1029	3641	879	3025	737	2700	649	1824	445	1207	252	874	229	874	229
13	5989	2300	5542	1336	4951	1193	4240	1041	3692	889	3066	746	2738	656	1850	451	1223	255	889	234	889	234
14	6073	2322	5619	1351	5023	1207	4291	1053	3743	899	3107	755	2776	663	1876	457	1239	258	904	239	904	239
15	6157	2344	5696	1366	5095	1221	4342	1065	3794	909	3148	764	2814	670	1902	463	1255	261	919	244	919	244
16	6241	2366	5773	1381	5167	1235	4393	1077	3845	919	3189	773	2852	677	1928	469	1271	264	934	249	934	249
17	6325	2388	5850	1396	5239	1249	4444	1089	3896	929	3230	782	2890	684	1954	475	1287	267	949	254	949	254
18	6409	2410	5927	1411	5311	1263	4495	1101	3947	939	3271	791	2928	691	1980	481	1303	270	964	259	964	259
19	6493	2432	6004	1426	5383	1277	4546	1113	3998	949	3312	800	2966	698	2006	487	1319	273	979	264	979	264
20	6577	2454	6081	1441	5455	1291	4597	1125	4049	959	3353	809	3004	705	2032	493	1335	276	994	269	994	269
21	6661	2476	6158	1456	5527	1305	4648	1137	4100	969	3394	818	3042	712	2058	499	1351	279	1009	274	1009	274
22	6745	2498	6235	1471	5599	1319	4699	1149	4151	979	3435	827	3080	719	2084	505	1367	282	1024	279	1024	279
23	6829	2520	6312	1486	5671	1333	4750	1161	4202	989	3476	836	3118	726	2110	511	1383	285	1039	284	1039	284
24	6913	2542	6389	1501	5743	1347	4801	1173	4253	999	3517	845	3156	733	2136	517	1399	288	1054	289	1054	289

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	739	183	739	183
4	5534	2189	5119	1426	4550	1264	3981	1102	3413	940	3143	863	2275	616	1706	454	1138	259	754	188	754	188
5	5612	2212	5200	1444	4622	1280	4045	1116	3467	952	3193	875	2311	624	1733	460	1156	262	768	194	768	194
6	5690	2235	5281	1463	4694	1297	4107	1130	3521	964	3243	886	2347	632	1760	466	1174	266	782	199	782	199
7	5768	2258	5362	1482	4766	1314	4169	1144	3575	976	3293	897	2383	640	1787	472	1192	270	800	200	800	200
8	5846	2281	5443	1501	4838	1331	4231	1158	3629	988	3343	908	2419	648	1814	478	1210	274	816	205	816	205
9	5924	2304	5524	1520	4910	1348	4293	1172	3683	1000	3393	919	2455	656	1841	484	1228	278	832	210	832	210
10	6002	2327	5605	1539	4983	1365	4355	1186	3737	1012	3443	930	2491	664	1868	490	1246	282	848	215	848	215
11	6080	2350	5686	1558	5056	1382	4417	1200	3791	1024	3493	941	2527	672	1895	496	1264	286	864	220	864	220
12	6158	2373	5767	1577	5129	1399	4479	1218	3845	1036	3543	952	2563	680	1922	502	1282	290	880	225	880	225
13	6236	2396	5848	1596	5202	1416	4541	1236	3897	1048	3593	963	2599	688	1949	508	1300	294	896	230	896	230
14	6314	2419	5929	1615	5275	1433	4603	1254	3949	1060	3643	974	2635	696	1976	514	1318	298	912	235	912	235
15	6392	2442	6010	1634	5348	1450	4665	1272	4001	1072	3693	985	2671	704	2003	520	1336	302	928	240	928	240
16	6470	2465	6091	1653	5421	1467	4727	1290	4053	1084	3743	996	2707	712	2030	526	1354	306	944	245	944	245
17	6548	2488	6172	1672	5494	1484	4789	1308	4105	1096	3793	1007	2743	720	2057	532	1372	310	960	250	960	250
18	6626	2511	6253	1691	5567	1501	4851	1326	4157	1108	3843	1018	2779	728	2084	538	1390	314	976	255	976	255
19	6704	2534	6334	1710	5640	1518	4913	1344	4209	1120	3893	1029	2815	736	2111	544	1408	318	992	260	992	260
20	6782	2557	6415	1729	5713	1535	4975	1362	4261	1132	3943	1040	2851	744	2138	550	1426	322	1008	265	1008	265
21	6860	2580	6496	1748	5786	1552	5037	1380	4313	1144	3993	1051	2887	752	2165	556	1444	326	1024	270	1024	270
22	6938	2603	6577	1767	5859	1569	5099	1398	4365	1156	4043	1062	2923	760	2192	562	1462	330	1040	275	1040	275
23	7016	2626	6658	1786	5932	1586	5161	1416	4417	1168	4093	1073	2959	768	2219	568	1480	334	1056	280	1056	280
24	7094	2649	6739	1805	6005	1603	5223	1434	4469	1180	4143	1084	2995	776	2246	574	1498	338	1072	285	1072	285

10. Performance Characteristic

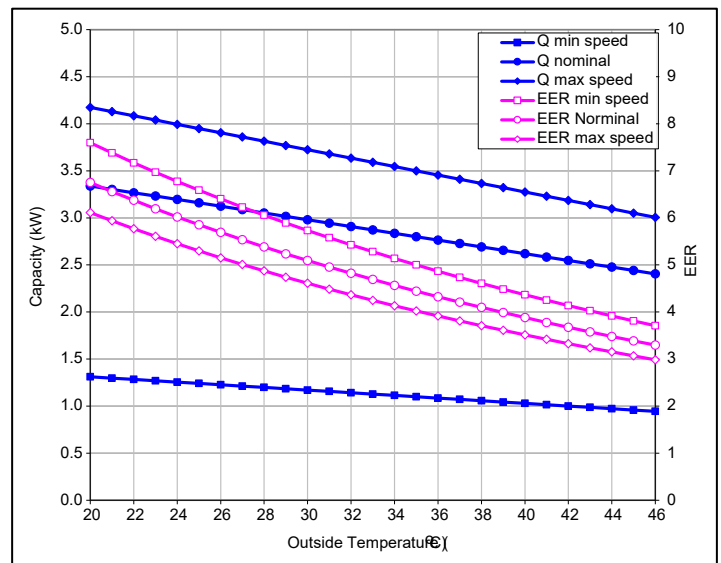
Model : RAS-25N4KVRG-ND ; RAS-25J2AVSG-ND1

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
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

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



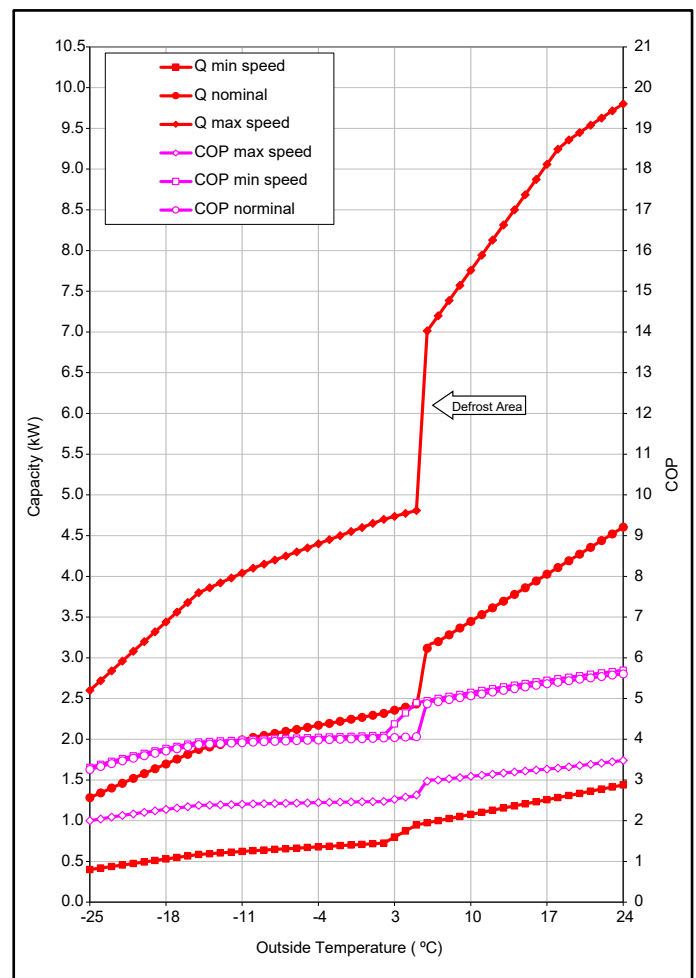
Model : RAS-25N4KVRG-ND ; RAS-25J2AVSG-ND1

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



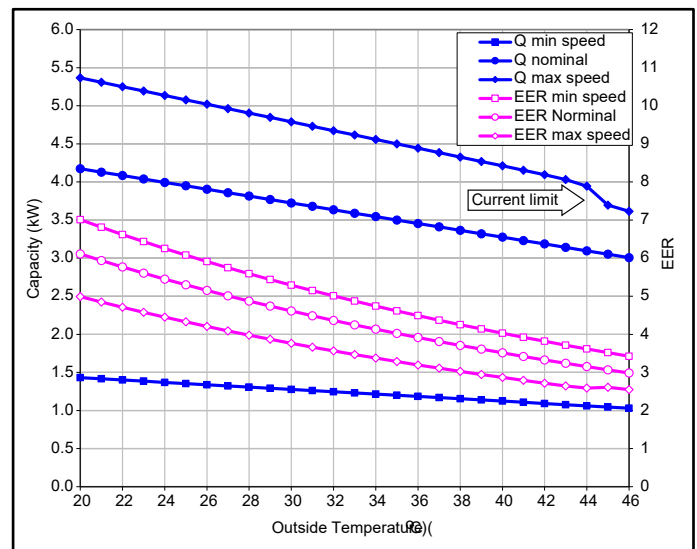
Model : RAS-35N4KVRG-ND ; RAS-35J2AVSG-ND1

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



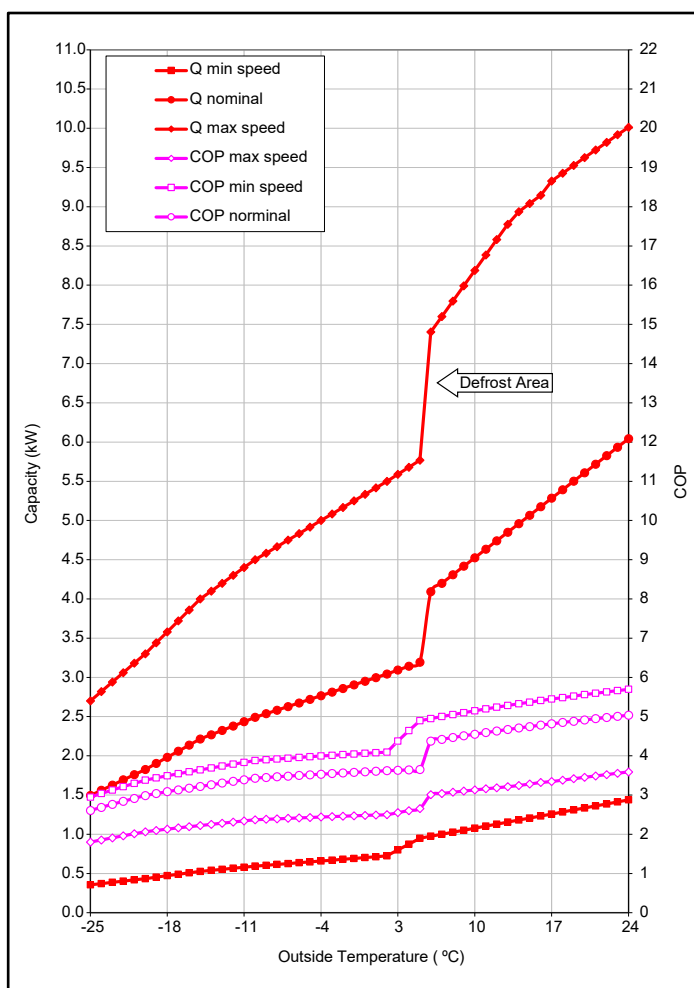
Model : RAS-35N4KVRG-ND ; RAS-35J2AVSG-ND1

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



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