

Digital Inverter R32

Light Commercial System

Outdoor Units

RAV-GM302ATP-E
RAV-GM402ATP-E
RAV-GM562ATP-E / TR

Indoor Units

4-way cassette type

RAV-HM561UTP-E / TR

Compact slim duct type

RAV-HM301SDTY-E

RAV-HM401SDTY-E

RAV-HM561SDTY-E / TR

Compact 4-way cassette type

RAV-HM301MUT-E

RAV-HM401MUT-E

RAV-HM561MUT-E / TR

Standard ducted type

RAV-HM561BTP-E / TR

Under Ceiling type

RAV-HM401CTP-E

RAV-HM561CTP-E / TR

High wall type

RAV-HM301KRTP-E

RAV-HM401KRTP-E

RAV-HM561KRTP-E / TR

Floor standing type

RAV-HM561FT-E / TR

1-way cassette type

RAV-HM301U1TP-E / TR

RAV-HM401U1TP-E / TR

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1. Line up

Outdoor unit

Model name	RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E / TR
Appearance	 1.0, 1.5, and 2.0 HP		

Indoor unit

Capacity Type		(kW equivalent)	30	40	56
(HP equivalent)			(1.0)	(1.5)	(2.0)
4-way cassette type		RAV-HM**1UTP-E	-	-	56
		RAV-HM**1UTP-TR	-	-	56
Compact 4-way cassette type		RAV-HM**1MUT-E	30	40	56
		RAV-HM**1MUT-TR	-	-	56
Standard ducted type		RAV-HM**1BTP-E	-	-	56
		RAV-HM**1BTP-TR	-	-	56
High wall type		RAV-HM**1KRTP-E	30	40	56
		RAV-HM**1KRTP-TR	-	-	56
Under ceiling type		RAV-HM**1CTP-E	-	40	56
		RAV-HM**1CTP-TR	-	-	56
Floor standing type		RAV-HM**1FT-E	-	-	56
		RAV-HM**1FT-TR	-	-	56
1-way cassette type		RAV-HM**U1TP-E	30	40	-
		RAV-HM**U1TP-TR	30	40	-

Capacity Type (kW equivalent)			30	40	56
(HP equivalent)			(1.0)	(1.5)	(2.0)
Compact slim duct type		RAV-HM**1SDTY-E	30	40	56
		RAV-HM**1SDTY-TR	-	-	56

2. Indoor Units

2-1. 4-way Cassette Type

2-1-1. Specifications

2-1-2. Dimension

2-1-3. Wiring Diagrams

2-1-4. Sensible Capacity Table

2-1-5. Part Load Performance

2-1-6. Air Throw Distance Chart

2-1-7. Sound Characteristic (NC Curve)

Accessories

2-1-1. Specifications

4-way Cassette Type

Model	Indoor unit		RAV-HM561UTP-E / TR
	Outdoor unit		RAV-GM562ATP-E / TR
Cooling Capacity (kW)			5.0
Heating Capacity (kW)			5.3
Power Supply			1 phase 230V (220-240V) 50Hz
Electrical Characteristics	Cooling	Running current (A)	7.31 - 6.70
		Power consumption (kW)	1.560
		Power factor (%)	97
		EER	3.21
		SEER	6.84
		Energy star rating	A++
	Heating	Running current (A)	6.37 - 5.84
		Power consumption (kW)	1.360
		Power factor (%)	97
		COP	3.90
		SCOP	4.60
		Energy star rating	A++
Maximum current (A)		15.5	
Appearance	Main unit		Zinc hot dipping steel plate
	Ceiling panel (Sold separately)		RBC-U33P-E, RBC-U32PGP-E, RBC-U41PG-E
Outer dimension	Main unit	Height (mm)	256
		Width (mm)	840
		Depth (mm)	840
	Ceiling panel (Sold separately)	Height (mm)	30
		Width (mm)	950
		Depth	950
Total weight	Main unit (kg)		20
Heat exchanger			Finned tube
Fan unit	Fan		Turbo fan
	Standard air flow	H/M/L (mm³/min)	17.5/14.5/13.0
	Motor (W)		60
Air filter			Standard filter attached
Controller (packed with indoor unit)			-
Controller (sold separately)			RBC-ASCU11-E, RBC-AMT32E, RBC-AS21E2, RBC-AMS41E, RBC-AMS51E
Sound pressure level		H/M/L (dB·A)	32/29/28
Sound power level		H/M/L (dB·A)	47/44/43
Connecting pipe		Gas side (mm)	12.7
		Liquid side (mm)	6.4
		Drain port (mm)	VP25

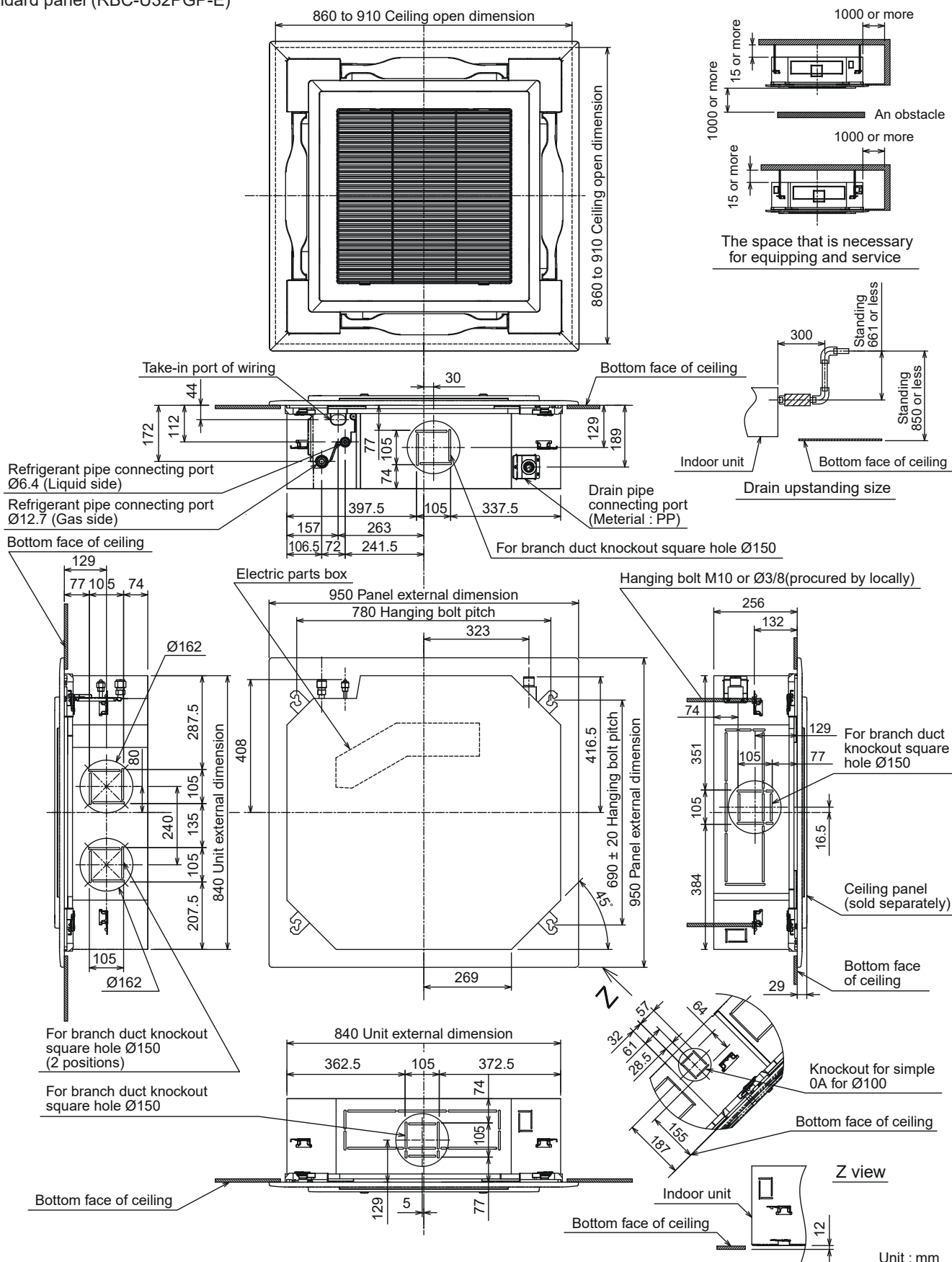
Note : Rated conditions Cooling : Indoor air temperature 27 °C DB / 19 °C WB, Outdoor air temperature 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor air temperature 7 °C DB / 6 °C WB

2-1-2. Dimension

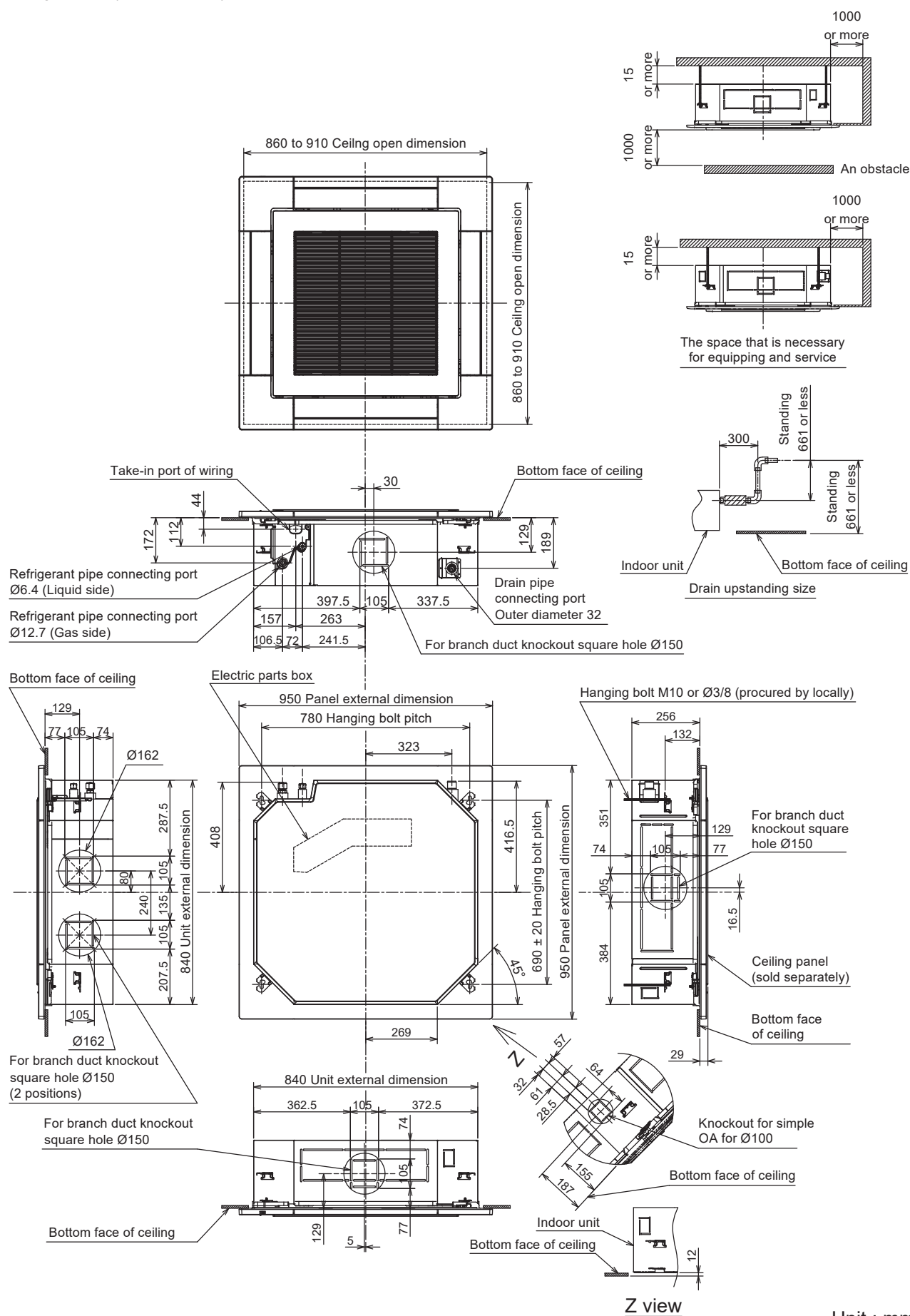
RAV-HM561UTP-E / TR

Standard panel (RBC-U32PGP-E)



RAV-HM561UTP-E / TR

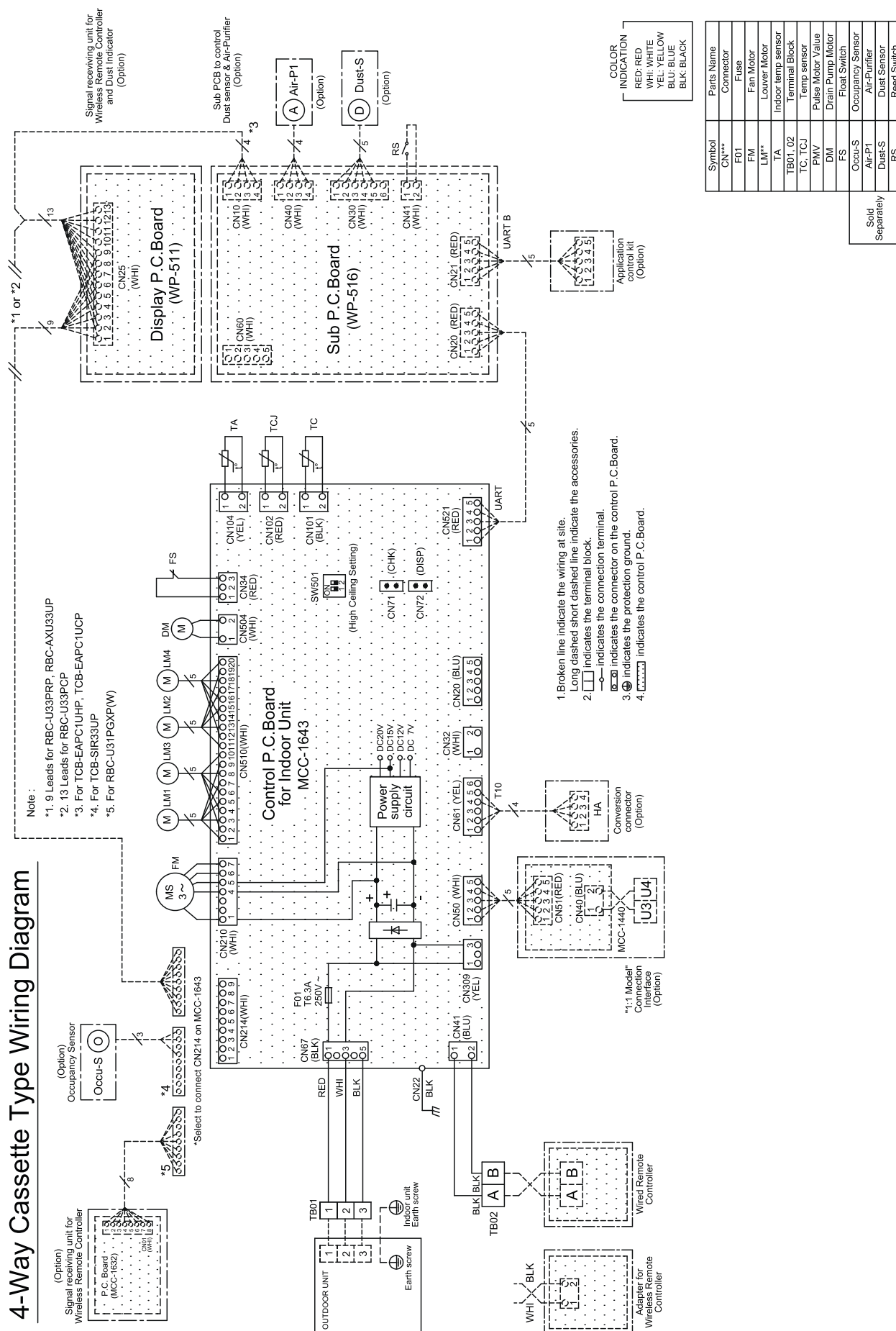
Smart design panel (RBC-U33P-E)



2-1-3. Wiring Diagrams

RAV-HM561UTP-E / TR

4-Way Cassette Type Wiring Diagram



2-1-4. Sensible Capacity Table

Product models : RAV-HM561UTP-E / TR ; RAV-GM562ATP-E / TR

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00	kW
Sensible Heat Capacity (SHC)	3.80	kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.45	5.61	4.55	5.99	4.74	6.13	4.84	6.42	5.04	6.60	5.02	6.79	5.01	7.19	4.94	7.52	4.83
12.0	5.32	4.37	5.50	4.46	5.87	4.65	6.01	4.74	6.29	4.94	6.48	4.92	6.66	4.91	7.05	4.85	7.38	4.74
14.0	5.21	4.28	5.40	4.37	5.76	4.55	5.89	4.65	6.17	4.84	6.35	4.82	6.53	4.81	6.91	4.75	7.23	4.64
16.0	5.11	4.19	5.29	4.29	5.64	4.46	5.78	4.56	6.04	4.74	6.22	4.73	6.40	4.72	6.77	4.66	7.09	4.55
18.0	5.00	4.11	5.18	4.20	5.52	4.37	5.66	4.46	5.92	4.64	6.09	4.63	6.27	4.62	6.63	4.56	6.94	4.45
20.0	4.90	4.02	5.07	4.11	5.41	4.28	5.54	4.37	5.79	4.55	5.96	4.53	6.13	4.52	6.49	4.46	6.79	4.36
21.0	4.84	3.98	5.01	4.07	5.35	4.23	5.48	4.32	5.73	4.50	5.90	4.48	6.07	4.47	6.43	4.42	6.72	4.31
23.0	4.74	3.89	4.90	3.98	5.23	4.14	5.36	4.23	5.60	4.40	5.77	4.39	5.94	4.38	6.29	4.32	6.57	4.22
25.0	4.63	3.80	4.80	3.89	5.12	4.05	5.24	4.13	5.48	4.30	5.64	4.29	5.80	4.28	6.15	4.22	6.43	4.13
27.0	4.53	3.72	4.69	3.80	5.00	3.96	5.12	4.04	5.36	4.20	5.51	4.19	5.67	4.18	6.01	4.13	6.28	4.03
29.0	4.42	3.63	4.58	3.71	4.88	3.86	5.00	3.95	5.23	4.11	5.39	4.09	5.54	4.08	5.87	4.03	6.14	3.94
31.0	4.32	3.54	4.47	3.62	4.77	3.77	4.88	3.85	5.11	4.01	5.26	4.00	5.41	3.99	5.73	3.93	5.99	3.84
33.0	4.21	3.46	4.36	3.53	4.65	3.68	4.76	3.76	4.98	3.91	5.13	3.90	5.28	3.89	5.59	3.84	5.84	3.75
35.0	4.11	3.37	4.25	3.45	4.54	3.59	4.64	3.66	4.86	3.81	5.00	3.80	5.14	3.79	5.45	3.74	5.70	3.66
37.0	4.00	3.28	4.14	3.36	4.42	3.50	4.52	3.57	4.73	3.71	4.87	3.70	5.01	3.69	5.31	3.65	5.55	3.56
39.0	3.90	3.20	4.03	3.27	4.30	3.40	4.40	3.48	4.61	3.62	4.74	3.60	4.88	3.60	5.17	3.55	5.40	3.47
40.0	3.45	2.83	3.57	2.89	3.81	3.01	3.90	3.07	4.08	3.20	4.20	3.19	4.32	3.18	4.57	3.14	4.78	3.07
42.0	3.27	2.68	3.38	2.74	3.61	2.85	3.69	2.91	3.86	3.03	3.98	3.02	4.09	3.02	4.33	2.98	4.53	2.91
43.0	3.18	2.61	3.29	2.67	3.51	2.78	3.59	2.83	3.76	2.95	3.87	2.94	3.98	2.93	4.21	2.90	4.41	2.83
45.0	2.47	2.03	2.56	2.07	2.73	2.16	2.80	2.21	2.92	2.30	3.01	2.29	3.10	2.28	3.28	2.25	3.43	2.20
46.0	2.38	1.96	2.47	2.00	2.63	2.08	2.69	2.13	2.82	2.21	2.90	2.21	2.98	2.20	3.16	2.17	3.31	2.12

2-1-5. Part Load Performance

Combination

Indoor units : RAV-HM561UTP-E / TR

Outdoor unit : RAV-GM562ATP-E / TR

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	1500	260	1500	260
RATING	W	5000	1560	5300	1360
MAXIMUM	W	5600	1860	6300	2080

Cooling

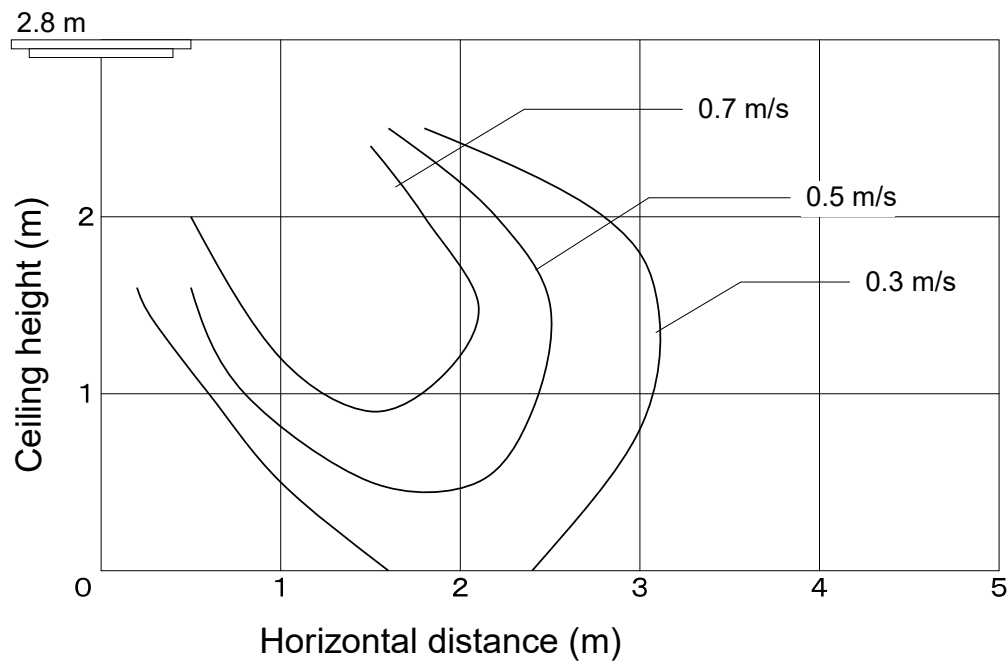
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	5963	1225	5366	1079	4770	933	4174	787	3578	641	2981	496	2385	350	1789	204	1789	204	1789	204
21	5898	1247	5309	1099	4719	950	4129	802	3539	653	2949	505	2359	356	1770	208	1770	208	1770	208
22	5834	1269	5251	1118	4667	967	4084	816	3501	665	2917	514	2334	363	1750	212	1750	212	1750	212
23	5770	1292	5193	1138	4616	984	4039	830	3462	677	2885	523	2308	369	1731	215	1731	215	1731	215
24	5706	1314	5135	1158	4565	1001	3994	845	3424	688	2853	532	2282	375	1712	219	1712	219	1712	219
25	5642	1336	5078	1177	4513	1018	3949	859	3385	700	2821	541	2257	382	1693	223	1693	223	1693	223
26	5578	1359	5020	1197	4462	1035	3904	873	3347	712	2789	550	2231	388	1673	226	1673	226	1673	226
27	5513	1381	4962	1217	4411	1052	3859	888	3308	723	2757	559	2205	395	1654	230	1654	230	1654	230
28	5449	1403	4904	1236	4359	1069	3814	902	3270	735	2725	568	2180	401	1635	234	1635	234	1635	234
29	5385	1426	4847	1256	4308	1086	3770	917	3231	747	2693	577	2154	407	1616	238	1616	238	1616	238
30	5321	1448	4789	1276	4257	1103	3725	931	3193	759	2660	586	2128	414	1596	241	1596	241	1596	241
31	5257	1471	4731	1295	4205	1120	3680	945	3154	770	2628	595	2103	420	1577	245	1577	245	1577	245
32	5193	1493	4673	1315	4154	1137	3635	960	3116	782	2596	604	2077	427	1558	249	1558	249	1558	249
33	5128	1515	4616	1335	4103	1154	3590	974	3077	794	2564	613	2051	433	1539	253	1539	253	1539	253
34	5064	1538	4558	1355	4051	1172	3545	988	3039	805	2532	622	2026	439	1519	256	1519	256	1519	256
35	5000	1560	4500	1374	4000	1189	3500	1003	3000	817	2500	631	2000	446	1500	260	1500	260	1500	260
36	4936	1582	4442	1394	3949	1206	3455	1017	2962	829	2468	640	1974	452	1481	264	1481	264	1481	264
37	4872	1605	4385	1414	3897	1223	3410	1032	2923	841	2436	650	1949	458	1462	267	1462	267	1462	267
38	4808	1627	4327	1433	3846	1240	3365	1046	2885	852	2404	659	1923	465	1442	271	1442	271	1442	271
39	4743	1649	4269	1453	3795	1257	3320	1060	2846	864	2372	668	1897	471	1423	275	1423	275	1423	275
40	4195	1430	3776	1260	3356	1089	2937	919	2517	749	2098	579	1678	409	1259	238	1259	238	1259	238
41	4086	1430	3678	1260	3269	1089	2860	919	2452	749	2043	579	1634	409	1226	238	1226	238	1226	238
42	3977	1430	3580	1260	3182	1089	2784	919	2386	749	1989	579	1591	409	1193	238	1193	238	1193	238
43	3868	1430	3482	1260	3095	1089	2708	919	2321	749	1934	579	1547	409	1161	238	1161	238	1161	238
44	3760	1430	3384	1260	3008	1089	2632	919	2256	749	1880	579	1504	409	1128	238	1128	238	1128	238
45	3010	1110	2709	978	2408	845	2107	713	1806	581	1505	449	1204	317	903	185	903	185	903	185
46	2902	1110	2611	978	2321	845	2031	713	1741	581	1451	449	1161	317	870	185	870	185	870	185

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	2736	501	2462	445	2189	388	1915	332	1642	275	1368	219	1094	162	821	105	774	96	774	96
-14	2794	539	2515	478	2235	417	1956	357	1676	296	1397	235	1118	174	838	113	791	103	791	103
-13	2852	577	2567	512	2282	447	1996	382	1711	316	1426	251	1141	186	856	121	807	110	807	110
-12	2910	614	2619	545	2328	476	2037	406	1746	337	1455	268	1164	199	873	129	824	117	824	117
-11	2968	652	2671	578	2375	505	2078	431	1781	358	1484	284	1187	211	890	137	840	125	840	125
-10	3026	690	2724	612	2421	534	2118	456	1816	378	1513	301	1211	223	908	145	856	132	856	132
-9	3084	727	2776	645	2467	563	2159	481	1851	399	1542	317	1234	235	925	153	873	139	873	139
-8	3142	765	2828	678	2514	592	2200	506	1885	420	1571	333	1257	247	943	161	889	146	889	146
-7	3200	802	2880	712	2560	621	2240	531	1920	440	1600	350	1280	259	960	169	906	153	906	153
-6	3272	847	2944	751	2617	656	2290	560	1963	465	1636	369	1309	274	981	178	926	162	926	162
-5	3343	892	3008	791	2674	690	2340	590	2006	489	1671	389	1337	288	1003	188	946	170	946	170
-4	3414	936	3072	830	2731	725	2390	619	2048	514	1707	408	1366	302	1024	197	966	179	966	179
-3	3485	981	3136	870	2788	759	2439	649	2091	538	1742	428	1394	317	1045	206	986	187	986	187
-2	3556	1025	3200	910	2845	794	2489	678	2134	563	1778	447	1422	331	1067	216	1006	196	1006	196
-1	3627	1070	3264	949	2902	828	2539	708	2176	587	1814	466	1451	346	1088	225	1027	205	1027	205
0	3698	1114	3329	989	2959	863	2589	737	2219	612	1849	486	1479	360	1110	234	1047	213	1047	213
1	3769	1159	3393	1028	3016	897	2639	767	2262	636	1885	505	1508	375	1131	244	1067	222	1067	222
2	3841	1204	3457	1068	3072	932	2688	796	2304	660	1920	525	1536	389	1152	253	1087	230	1087	230
3	3903	1220	3513	1082	3123	945	2732	807	2342	669	1952	532	1561	394	1171	257	1105	233	1105	233
4	3966	1236	3570	1096	3173	957	2776	818	2380	678	1983	539	1587	399	1190	260	1123	236	1123	236
5	4029	1252	3626	1111	3223	970	2821	828	2418	687	2015	546	1612	405	1209	263	1140	239	1140	239
6	5163	1339	4647	1188	4131	1037	3614	886	3098	735	2582	584	2065	433	1549	282	1461	256	1461	256
7	5300	1360	4770	1207	4240	1053	3710	900	3180	746	2650	593	2120	439	1590	286	1500	260	1500	260
8	5437	1381	4893	1225	4349	1069	3806	914	3262	758	2718	602	2175	446	1631	290	1539	264	1539	264
9	5574	1402	5016	1244	4459	1086	3901	928	3344	769	2787	611	2229	453	1672	295	1577	268	1577	268
10	5710	1423	5139	1263	4568	1102	3997	942	3426	781	2855	620	2284	460	1713	299	1616	272	1616	272
11	5847	1444	5262	1281	4678	1118	4093	955	3508	793	2924	630	2339	467	1754	304	1655	276	1655	276
12	5984	1465	5385	1300	4787	1135	4189	969	3590	804	2992	639	2394	473	1795	308	1694	280	1694	280
13	6121	1486	5509	1319	4897	1151	4284	983	3672	816	3060	648	2448	480	1836	313	1732	284	1732	284
14	6257	1507	5632	1337	5006	1167	4380	997	3754	827	3129	657	2503	487	1877	317	1771	288	1771	288
15	6394	1528	5755	1356	5115	1184	4476	1011	3837	839	3197	666	2558	494	1918	321	1810	292	1810	292
16	6531	1550	5878	1375	5225	1200	4572	1025	3919	850	3265	676	2612	501	1959	326	1848	296	1848	296
17	6668	1571	6001	1393	5334	1216	4667	1039	4001	862	3334	685	2667	508	2000	330	1887	300	1887	300
18	6805	1592	6124	1412	5444	1233	4763	1053	4083	873	3402	694	2722	514	2041	335	1926	304	1926	304
19	6941	1613	6247	1431	5553	1249	4859	1067	4165	885	3471	703	2777	521	2082	339	1965	308	1965	308
20	7078	1634	6370	1449	5662	1265	4955	1081	4247	897	3539	712	2831	528	2123	344	2003	312	2003	312
21	7215	1655	6493	1468	5772	1281	5050	1095	4329	908	3607	721	2886	535	2164	348	2042	316	2042	316
22	7352	1676	6616	1487	5881	1298	5146	1109	4411	920	3676	731	2941	542	2205	352	2081	320	2081	320
23	7488	1697	6740	1505	5991	1314	5242	1123	4493	931	3744	740	2995	548	2247	357	2119	324	2119	324
24	7625	1718	6863	1524	6100	1330	5338	1137	4575	943	3813	749	3050	555	2288	361	2158	328	2158	328

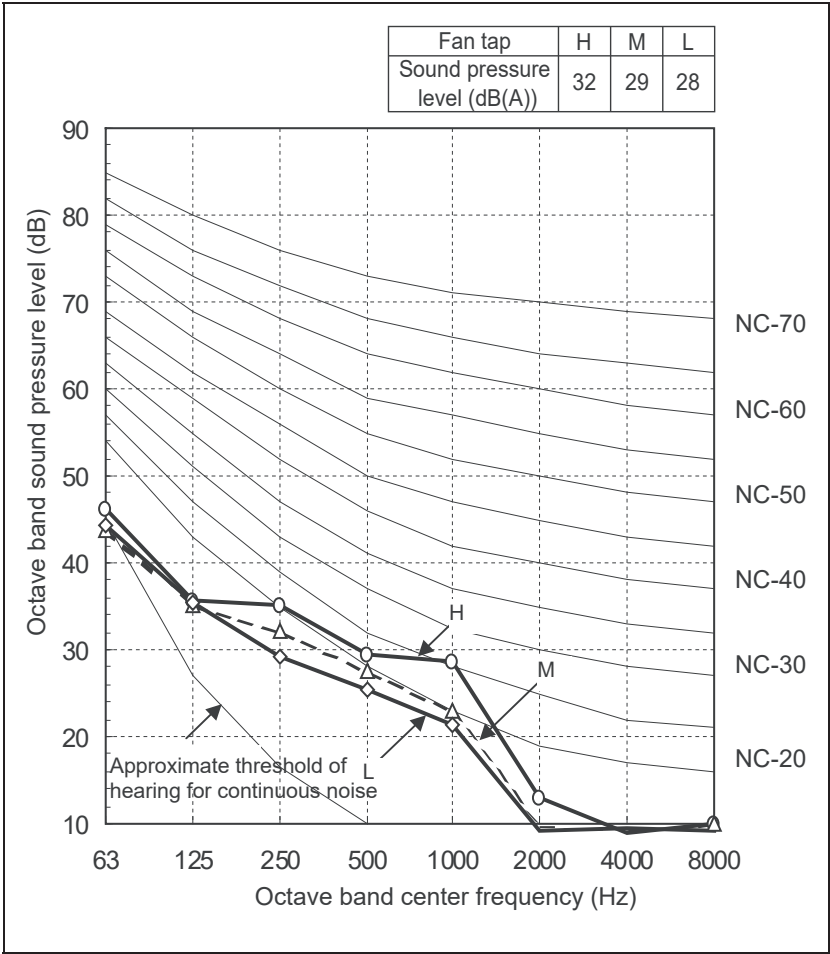
2-1-6. Air Throw Distance Chart

RAV-HM561UTP-E / TR



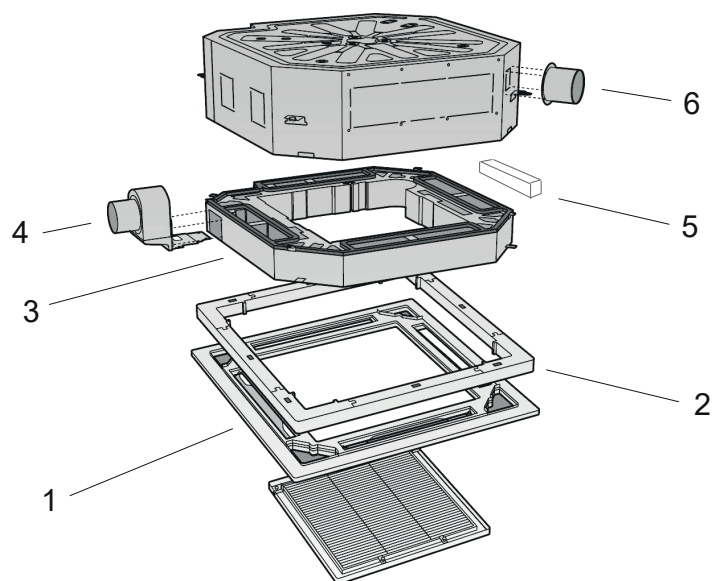
2-1-7. Sound characteristics (NC curve)

RAV-HM561UTP-E / TR



2-1-8. Accessories

Optional parts for 4-Way Cassette type



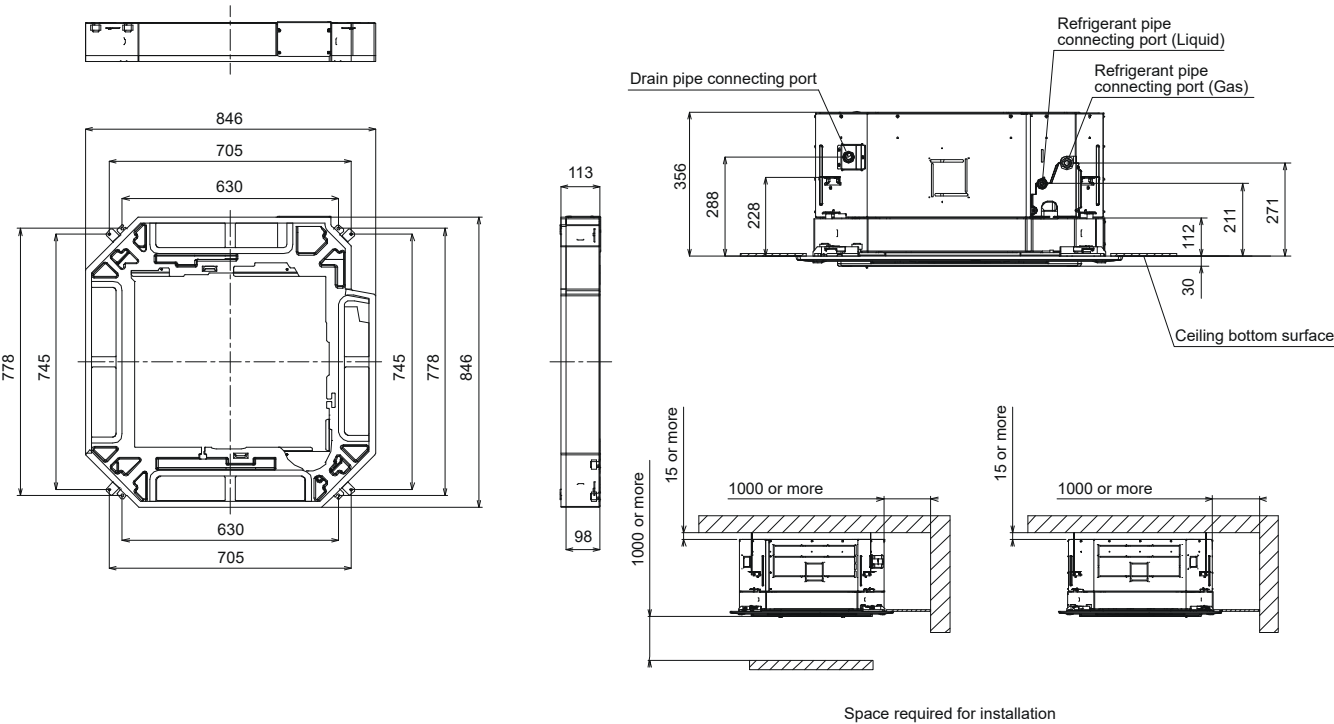
Optional parts list

No	Type	Model name	Qty/unit	Notes
1	Ceiling Panel	RBC-U32PGP-E	1	White (2.5GY9.0/0.5)
2	Spacer for height adjustment	TCB-SP1602UE	1	50 mm
3	Fresh-air chamber	TCB-GFC1602UE	1	Use with TCB-GB1602UE
4	Fresh-air inlet box	TCB-GB1602UE	1	Connection=Dia.100 mm Fresh-air intake ratio : up to 110 m ³ /h and 5% of rated air volume.
5	Air-discharge direction kit	TCB-BC1602UE	1	6-direction patterns
6	Auxiliary fresh air flange	TCB-FF101URE2	1	Connection=Dia.100 mm Fresh air intake ratio : Up to 30 m ³ /h and 2% of rated air volume.

Appendix

1. Fresh-air chamber (TCB-GFC1602UE)

Unit : mm



2. Fresh-air inlet box (TCB-GB1602UE)

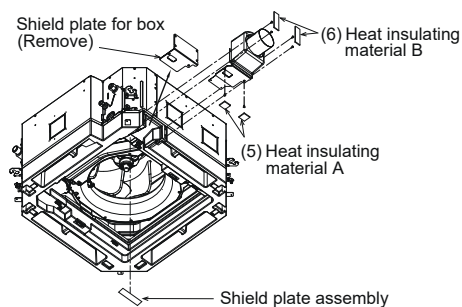
Accessories

(The following parts are included.)

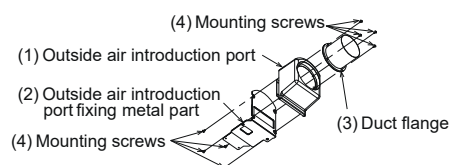
No.	Name	Qty	Remark
(1)	Outside air introduction port	1	
(2)	Outside air introduction port fixing metal part	1	
(3)	Duct flange 100 mm	1	
(4)	Mounting screws 4 × 10 mm	16	
(5)	Heat insulating material A	2	
(6)	Heat insulating material B	2	
(7)	Wind shield	1	
(8)	Installation manual	1	
(9)	Wire	1	

Installation

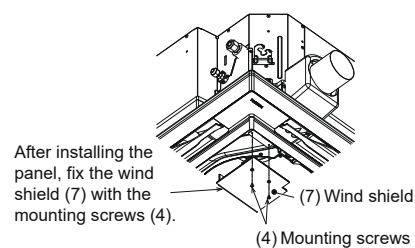
(Fig. 1)



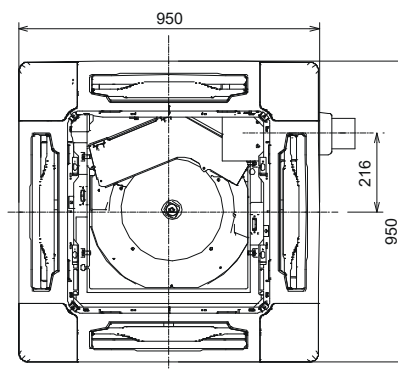
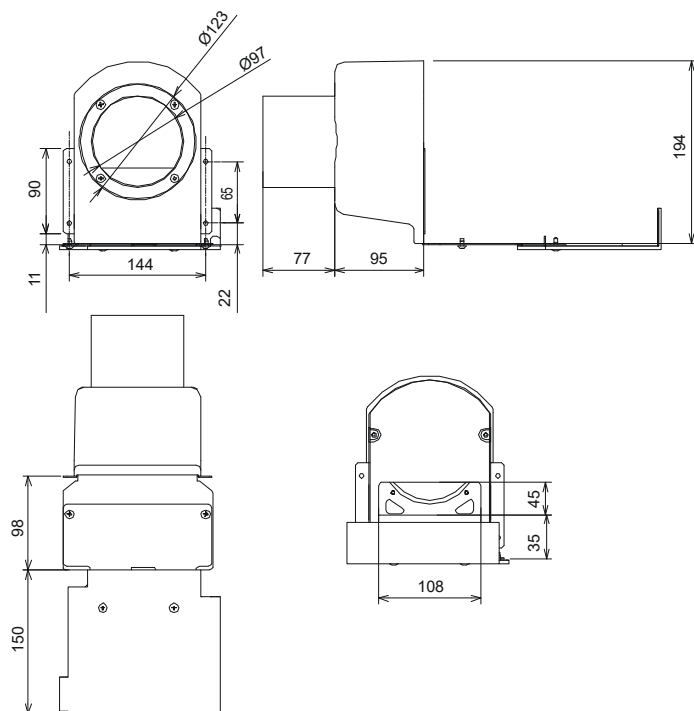
(Fig. 2)



(Fig. 3)



Dimension



Unit: mm

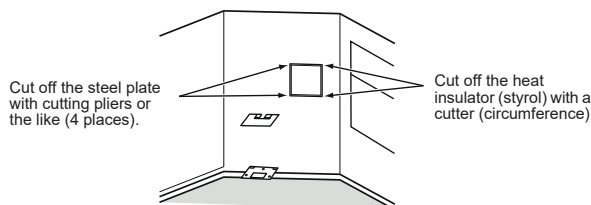
NOTE

This inlet box shall be used with the fresh-air chamber.

3. Auxiliary fresh air flange (TCB-FF101URE2)

Installation

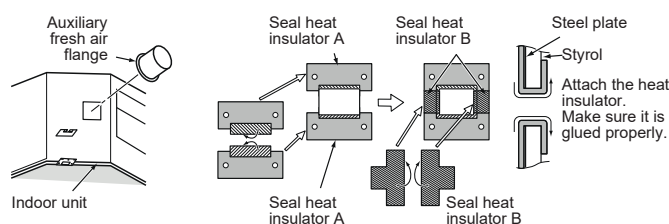
1. Using the knockout of the indoor unit main body, as a marker, cut off the flange with the heat insulator (styrol) with cutting pliers or cutter.



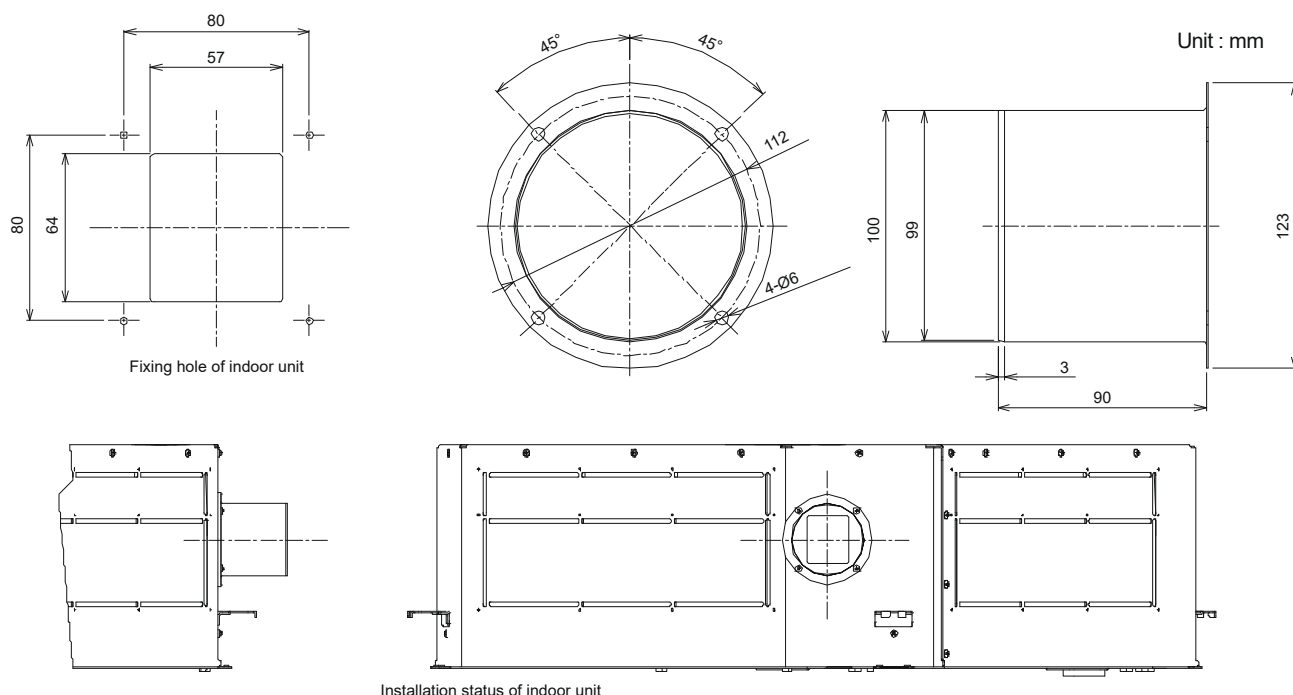
NOTE

When cutting off the styrol inside, be careful not to insert the cutter blade deeper than 30 mm. (Damage to the drain pan inside can cause water leakage.)
Wear safety globes to carry out these works. Do not attempt with bare hands.

2. A gap between the styrol and steel plate may cause a trouble such as condensation. Be sure to attach the attached heat insulator A first with it aligned to the screw hole, and then attach B, according to the right figure.
3. Install the auxiliary fresh air flange to the indoor unit main body with attached 4 fixing screws.



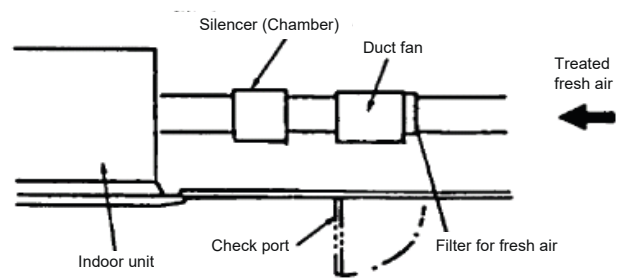
Dimension



Duct fan

In order to take fresh air, provide the duct fan separately.

1. Install the filter for fresh air
2. Provide the check port beneath the duct fan for maintenance.
3. Provide the silencer to prevent the effect of noise.



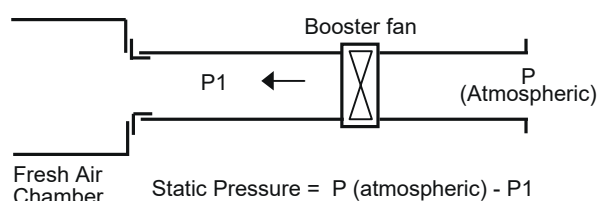
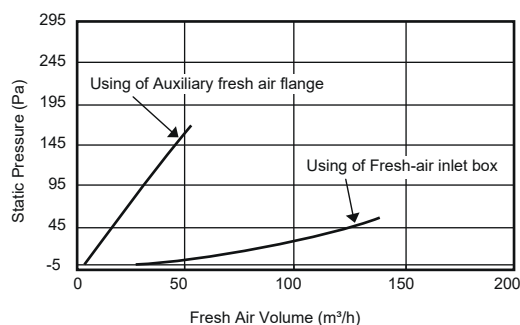
4. Fresh Air Intake

Usage

Fresh air is taken by using Fresh-air chamber and Fresh-air inlet box. And also is subsidiarily taken by using Auxiliary fresh air flange through the knock-out hole of the indoor unit body.

Caution

1. Be sure to provide air return.
2. The fresh air shall be treated by heat reclaim ventilator or the like.
3. Recommended treated air temperature is 12 °C to 30 °C.
4. Be sure to decide the fresh air volume so that mixed suction air with fresh air keep operating temperature.
Provide an air filter in fresh air way to prevent sucking dust.
5. Be sure to insulate the fresh air duct.
In order to accelerate starting up in heating mode, implement pre-heating operation by cutting off Fresh Air Intake.
6. The operating sound might increase when fresh air intake.



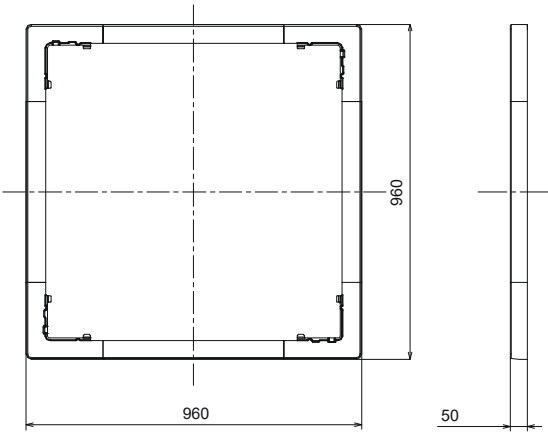
Characteristics between air volume of branching duct and static pressure

Following fresh air intake ratio is available by using the booster fan.

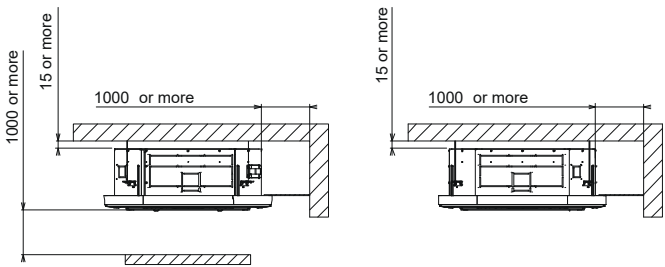
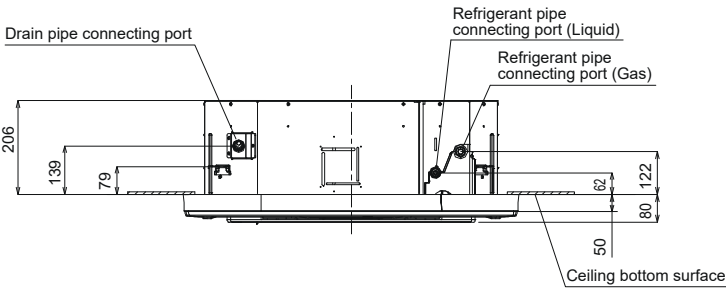
1. Fresh-air inlet box with Fresh-air chamber.
By using duct fan (local procurement), it is available to inlet up to 110 m³/h and 5% of rated air volume.
2. Auxiliary fresh air flange through the knock-out hole of the indoor unit body.
By using duct fan (local procurement), it is available to inlet up to 30 m³/h and 2% of rated air volume.

5. Spacer for height adjustment (TCB-SP1602UE)

Unit : mm

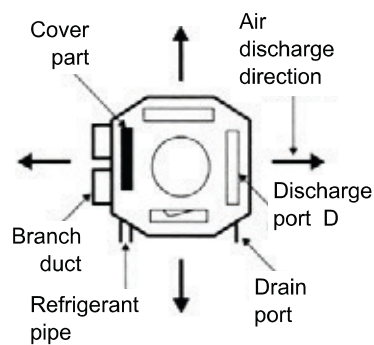


Material : Styrene foam
Color : Moon white



Space required for installation

6. Air discharge direction kit (TCB-BC1602UE)



Limited models only				
3-way air flow				
	Available for all models	Available for all models	Available only for 56 to 80 type	Available only for 110 to 160 type
2-way air flow				
	Available for all models	Available for all models	Available for all models	

2-2. Compact 4-way Cassette Type

2-2-1. Specifications

2-2-2. Dimension

2-2-3. Wiring Diagrams

2-2-4. Sensible Capacity Table

2-2-5. Part Load Performance

2-2-6. Air throw Distance Chart

2-2-7. Sound Characteristics (NC Curve)

2-2-1. Specifications

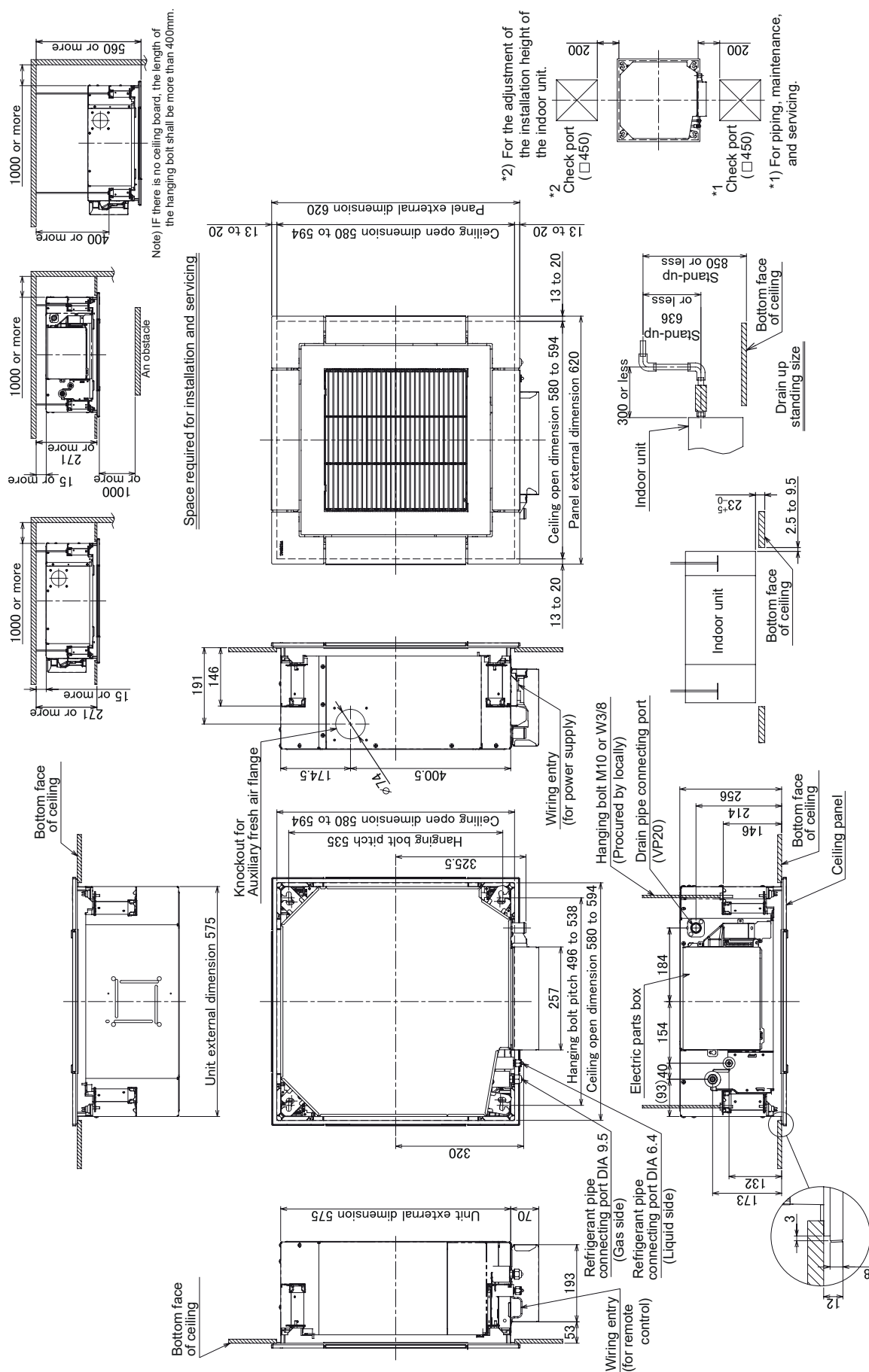
Compact 4-way cassette type

Model		Indoor unit		RAV-HM301MUT-E	RAV-HM401MUT-E	RAV-HM561MUT-E / TR
		Outdoor unit		RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E / TR
Cooling capacity (kW)				2.5 < 0.9-3.0 >	3.6 < 0.9-4.0 >	5.0 < 1.5 - 5.6 >
Heating capacity (kW)				3.4 < 0.8-4.5 >	4.0 < 0.8-5.0 >	5.3 < 1.5 - 6.3 >
Power supply				1 phase 220V-240V/50Hz, 1phase 220V/60Hz		
Electrical characteristics	Cooling	Running current (A)		2.98-2.73	4.40-4.03	7.93-7.27
		Power consumption (kW)		0.59	0.90	1.64
		Power factor (%)		90	93	94
		EER		4.24	4.00	3.05
		SEER		5.94	5.76	5.69
	Heating	Running current (A)		3.75-3.44	4.64-4.26	7.12 - 6.53
		Power consumption (kW)		0.76	0.95	1.47
		Power factor (%)		92	93	93
		COP		4.47	4.21	3.61
		SCOP		4.70	4.44	4.37
Maximum current (A)		7.9	9.2	15.5		
Indoor unit						
Appearance		Main unit		Zinc hot dipping steel plate *Heat-insulating material attaced to only upper plate		
		Ceiling panel (Sold separately)	Model	RBC-UM21PG(W)-E		
			Panel color	Gran White (Mansell 5PB9/1)		
Outer dimension		Main unit	Height (mm)	256	256	256
			Width (mm)	575	575	575
			Depth (mm)	575	575	575
		Ceiling panel (Sold separately)	Height (mm)	12	12	12
			Width (mm)	620	620	620
			Depth (mm)	620	620	620
Total weight		Main unit (kg)		15.0	15.0	15.0
		Ceiling panel (Sold separately) (kg)		3.0	3.0	3.0
Fan unit		Fan		Turbo fan		
		Standard air flow	H/M/L (m3/h)	640/520/440	660/552/468	798/672/546
		Motor (W)		60		
Air filter				Standard filter (Long life filter)		
Sound pressure level			H/M/L (dB)	38/36/30	41/36/32	44/39/35
Sound power level			H/M/L (dB)	53/51/45	56/51/47	59/54/50
Connecting pipe		Drain port		VP20		

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB / 19 °C WB, Outdoor air temperature 35 °C DB

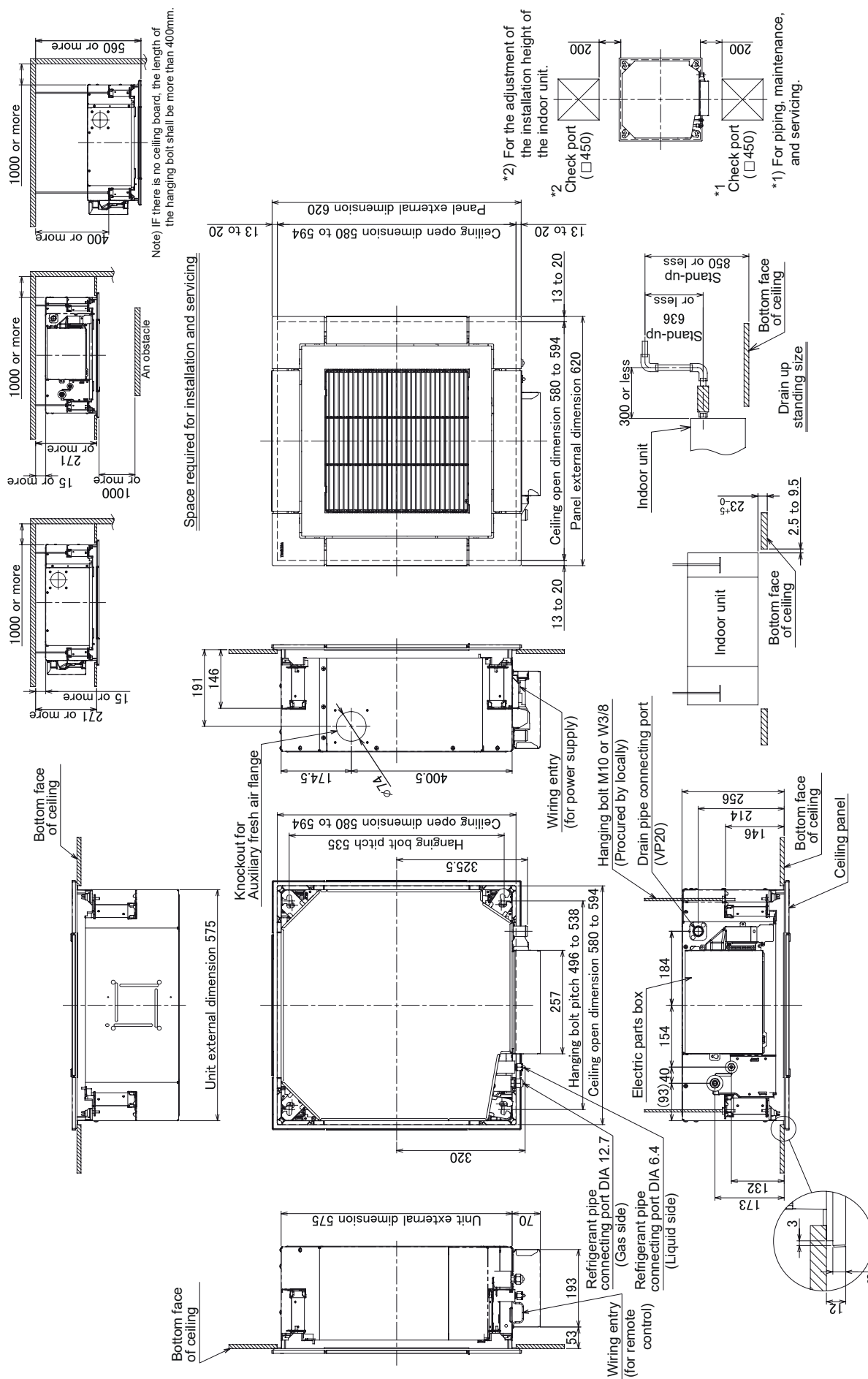
Heating : Indoor air temperature 20 °C DB, Outdoor air temperature 7 °C DB / 6 °C WB

2-2-2. Dimension

RAV-HM301MUT-E

(Unit: mm)

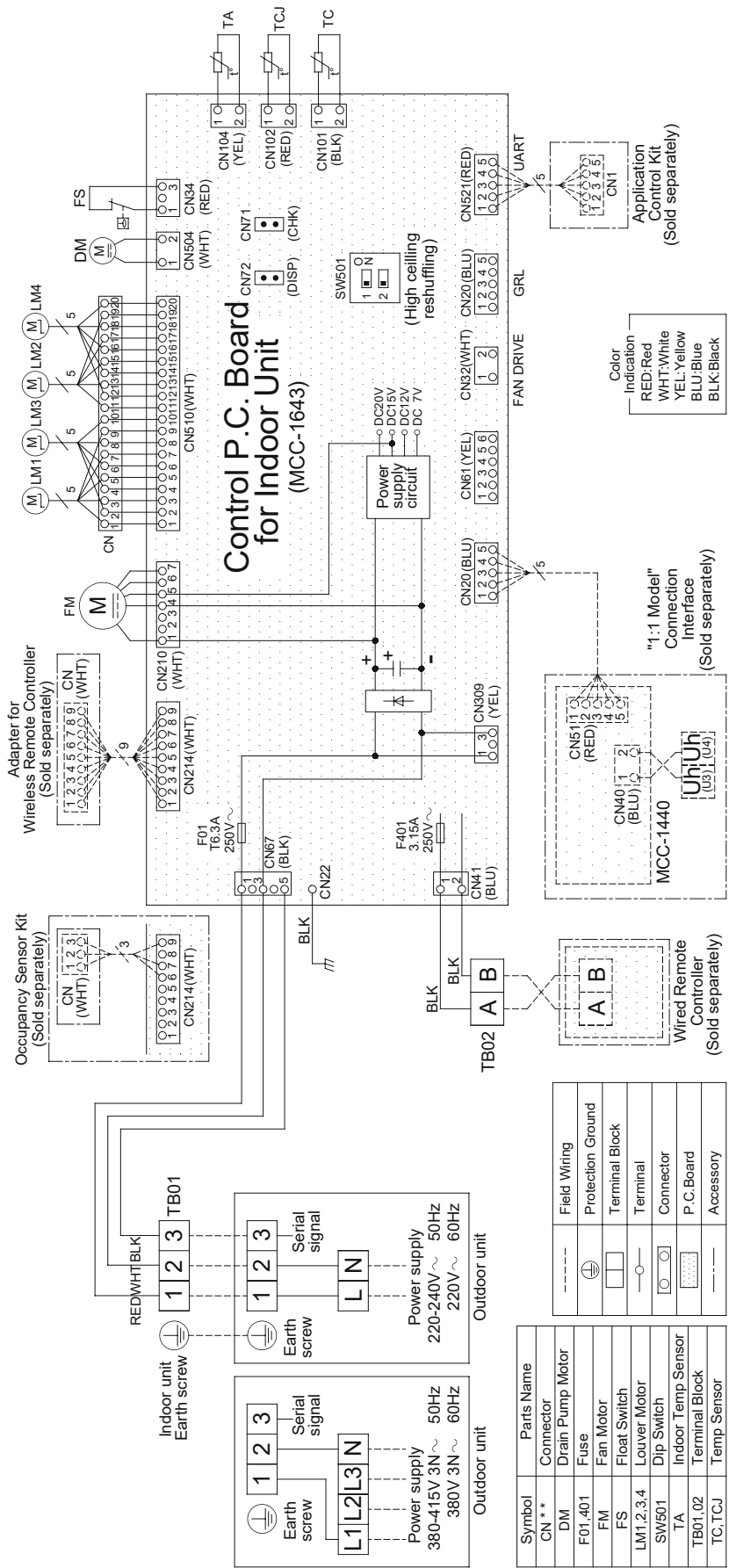
RAV-HM*_1MUT-E (*40 / 56)

RAV-HM561MUT-TR

(Unit: mm)

2-2-3. Wiring Diagrams

RAV-HM*_1MUT-E (*30 / 40)
RAV-HM561MUT-E / TR



2-2-4. Sensible Capacity Table

Product models : RAV-HM301MUT-E ; RAV-GM302ATP-E

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	2.50 kW
Sensible Heat Capacity (SHC)	1.95 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	2.71	2.28	2.81	2.33	3.00	2.43	3.07	2.48	3.21	2.58	3.30	2.58	3.40	2.57	3.60	2.54	3.76	2.49
12.0	2.66	2.24	2.75	2.29	2.94	2.38	3.01	2.43	3.15	2.53	3.24	2.53	3.33	2.52	3.53	2.49	3.69	2.44
14.0	2.61	2.19	2.70	2.24	2.88	2.33	2.95	2.38	3.08	2.48	3.17	2.48	3.26	2.47	3.46	2.44	3.62	2.39
16.0	2.55	2.15	2.64	2.20	2.82	2.29	2.89	2.34	3.02	2.43	3.11	2.43	3.20	2.42	3.39	2.40	3.54	2.34
18.0	2.50	2.10	2.59	2.15	2.76	2.24	2.83	2.29	2.96	2.38	3.05	2.38	3.13	2.37	3.32	2.35	3.47	2.30
20.0	2.45	2.06	2.53	2.11	2.70	2.19	2.77	2.24	2.90	2.33	2.98	2.33	3.07	2.32	3.25	2.30	3.40	2.25
21.0	2.42	2.04	2.51	2.08	2.68	2.17	2.74	2.22	2.86	2.31	2.95	2.30	3.03	2.30	3.21	2.27	3.36	2.22
23.0	2.37	1.99	2.45	2.04	2.62	2.12	2.68	2.17	2.80	2.26	2.89	2.25	2.97	2.25	3.14	2.22	3.29	2.18
25.0	2.32	1.95	2.40	1.99	2.56	2.08	2.62	2.12	2.74	2.21	2.82	2.20	2.90	2.20	3.07	2.17	3.21	2.13
27.0	2.26	1.90	2.34	1.95	2.50	2.03	2.56	2.07	2.68	2.16	2.76	2.15	2.84	2.15	3.00	2.12	3.14	2.08
29.0	2.21	1.86	2.29	1.90	2.44	1.98	2.50	2.02	2.62	2.11	2.69	2.10	2.77	2.10	2.93	2.07	3.07	2.03
31.0	2.16	1.82	2.23	1.86	2.38	1.93	2.44	1.97	2.55	2.06	2.63	2.05	2.70	2.05	2.86	2.02	2.99	1.98
33.0	2.11	1.77	2.18	1.81	2.33	1.89	2.38	1.93	2.49	2.01	2.56	2.00	2.64	2.00	2.79	1.98	2.92	1.93
35.0	2.05	1.73	2.12	1.77	2.27	1.84	2.32	1.88	2.43	1.95	2.50	1.95	2.57	1.95	2.72	1.93	2.85	1.89
37.0	2.00	1.68	2.07	1.72	2.21	1.79	2.26	1.83	2.37	1.90	2.44	1.90	2.51	1.90	2.65	1.88	2.78	1.84
39.0	1.95	1.64	2.02	1.67	2.15	1.74	2.20	1.78	2.30	1.85	2.37	1.85	2.44	1.85	2.58	1.83	2.70	1.79
40.0	1.92	1.62	1.99	1.65	2.12	1.72	2.17	1.76	2.27	1.83	2.34	1.82	2.41	1.82	2.55	1.80	2.67	1.76
42.0	1.87	1.57	1.93	1.61	2.06	1.67	2.11	1.71	2.21	1.78	2.28	1.77	2.34	1.77	2.48	1.75	2.59	1.72
43.0	1.84	1.55	1.91	1.58	2.03	1.65	2.08	1.69	2.18	1.75	2.24	1.75	2.31	1.75	2.44	1.73	2.56	1.69
45.0	1.79	1.51	1.85	1.54	1.98	1.60	2.02	1.64	2.12	1.70	2.18	1.70	2.24	1.70	2.37	1.68	2.48	1.64
46.0	1.76	1.48	1.82	1.52	1.95	1.58	1.99	1.61	2.09	1.68	2.15	1.67	2.21	1.67	2.34	1.65	2.45	1.62

Product models : RAV-HM401MUT-E ; RAV-GM402ATP-E

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	3.60 kW
Sensible Heat Capacity (SHC)	2.80 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	3.91	3.28	4.04	3.35	4.31	3.49	4.42	3.56	4.62	3.71	4.76	3.70	4.89	3.69	5.18	3.65	5.42	3.57
12.0	3.83	3.21	3.96	3.28	4.23	3.42	4.33	3.49	4.53	3.64	4.66	3.63	4.80	3.62	5.08	3.58	5.31	3.50
14.0	3.75	3.15	3.88	3.22	4.15	3.35	4.24	3.42	4.44	3.56	4.57	3.55	4.70	3.55	4.98	3.51	5.21	3.43
16.0	3.68	3.08	3.81	3.15	4.06	3.29	4.16	3.35	4.35	3.49	4.48	3.48	4.61	3.48	4.88	3.44	5.10	3.37
18.0	3.60	3.02	3.73	3.09	3.98	3.22	4.07	3.29	4.26	3.42	4.39	3.41	4.51	3.41	4.78	3.37	5.00	3.30
20.0	3.53	2.96	3.65	3.02	3.89	3.15	3.99	3.22	4.17	3.35	4.29	3.34	4.42	3.33	4.68	3.30	4.89	3.23
21.0	3.49	2.93	3.61	2.99	3.85	3.12	3.94	3.18	4.13	3.31	4.25	3.30	4.37	3.30	4.63	3.26	4.84	3.19
23.0	3.41	2.86	3.53	2.93	3.77	3.05	3.86	3.11	4.04	3.24	4.15	3.23	4.27	3.23	4.53	3.19	4.73	3.12
25.0	3.34	2.80	3.45	2.86	3.68	2.98	3.77	3.04	3.95	3.17	4.06	3.16	4.18	3.15	4.42	3.12	4.63	3.05
27.0	3.26	2.73	3.37	2.80	3.60	2.91	3.69	2.97	3.86	3.10	3.97	3.09	4.08	3.08	4.32	3.05	4.52	2.98
29.0	3.18	2.67	3.30	2.73	3.52	2.84	3.60	2.90	3.77	3.02	3.88	3.02	3.99	3.01	4.22	2.98	4.42	2.91
31.0	3.11	2.61	3.22	2.67	3.43	2.78	3.51	2.84	3.68	2.95	3.78	2.94	3.89	2.94	4.12	2.91	4.31	2.84
33.0	3.03	2.54	3.14	2.60	3.35	2.71	3.43	2.77	3.59	2.88	3.69	2.87	3.80	2.87	4.02	2.84	4.21	2.78
35.0	2.96	2.48	3.06	2.54	3.27	2.64	3.34	2.70	3.50	2.81	3.60	2.80	3.70	2.80	3.92	2.76	4.10	2.71
37.0	2.88	2.42	2.98	2.47	3.18	2.57	3.26	2.63	3.41	2.74	3.51	2.73	3.61	2.72	3.82	2.69	4.00	2.64
39.0	2.81	2.35	2.90	2.41	3.10	2.51	3.17	2.56	3.32	2.66	3.42	2.66	3.51	2.65	3.72	2.62	3.89	2.57
40.0	2.77	2.32	2.86	2.37	3.06	2.47	3.13	2.52	3.27	2.63	3.37	2.62	3.47	2.62	3.67	2.59	3.84	2.53
42.0	2.69	2.26	2.79	2.31	2.97	2.40	3.04	2.45	3.18	2.56	3.28	2.55	3.37	2.54	3.57	2.52	3.73	2.46
43.0	2.65	2.23	2.75	2.28	2.93	2.37	3.00	2.42	3.14	2.52	3.23	2.51	3.32	2.51	3.52	2.48	3.68	2.43
45.0	2.58	2.16	2.67	2.21	2.85	2.30	2.91	2.35	3.05	2.45	3.14	2.44	3.23	2.44	3.42	2.41	3.58	2.36
46.0	2.54	2.13	2.63	2.18	2.80	2.27	2.87	2.32	3.00	2.41	3.09	2.40	3.18	2.40	3.37	2.37	3.52	2.32

Product models : RAV-HM561MUT-E / TR ; RAV-GM562ATP-E / TR**Standard Condition**

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	3.70 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.34	5.61	4.44	5.99	4.62	6.13	4.72	6.42	4.91	6.60	4.89	6.79	4.87	7.19	4.80	7.52	4.68
12.0	5.32	4.26	5.50	4.35	5.87	4.53	6.01	4.62	6.29	4.81	6.48	4.79	6.66	4.78	7.05	4.71	7.38	4.59
14.0	5.21	4.18	5.40	4.27	5.76	4.44	5.89	4.53	6.17	4.72	6.35	4.70	6.53	4.68	6.91	4.61	7.23	4.50
16.0	5.11	4.09	5.29	4.18	5.64	4.35	5.78	4.44	6.04	4.62	6.22	4.60	6.40	4.59	6.77	4.52	7.09	4.41
18.0	5.00	4.01	5.18	4.09	5.52	4.26	5.66	4.35	5.92	4.53	6.09	4.51	6.27	4.49	6.63	4.43	6.94	4.32
20.0	4.90	3.92	5.07	4.01	5.41	4.17	5.54	4.26	5.79	4.43	5.96	4.41	6.13	4.40	6.49	4.33	6.79	4.22
21.0	4.84	3.88	5.01	3.96	5.35	4.13	5.48	4.21	5.73	4.38	5.90	4.36	6.07	4.35	6.43	4.29	6.72	4.18
23.0	4.74	3.80	4.90	3.88	5.23	4.04	5.36	4.12	5.60	4.29	5.77	4.27	5.94	4.26	6.29	4.19	6.57	4.09
25.0	4.63	3.71	4.80	3.79	5.12	3.95	5.24	4.03	5.48	4.19	5.64	4.17	5.80	4.16	6.15	4.10	6.43	4.00
27.0	4.53	3.63	4.69	3.71	5.00	3.86	5.12	3.94	5.36	4.10	5.51	4.08	5.67	4.07	6.01	4.01	6.28	3.91
29.0	4.42	3.54	4.58	3.62	4.88	3.77	5.00	3.85	5.23	4.00	5.39	3.98	5.54	3.97	5.87	3.91	6.14	3.82
31.0	4.32	3.46	4.47	3.53	4.77	3.68	4.88	3.75	5.11	3.91	5.26	3.89	5.41	3.88	5.73	3.82	5.99	3.72
33.0	4.21	3.37	4.36	3.45	4.65	3.59	4.76	3.66	4.98	3.81	5.13	3.79	5.28	3.78	5.59	3.73	5.84	3.63
35.0	4.11	3.29	4.25	3.36	4.54	3.50	4.64	3.57	4.86	3.72	5.00	3.70	5.14	3.69	5.45	3.63	5.70	3.54
37.0	4.00	3.20	4.14	3.27	4.42	3.41	4.52	3.48	4.73	3.62	4.87	3.61	5.01	3.59	5.31	3.54	5.55	3.45
39.0	3.90	3.12	4.03	3.19	4.30	3.32	4.40	3.39	4.61	3.52	4.74	3.51	4.88	3.50	5.17	3.45	5.40	3.36
40.0	3.01	2.41	3.11	2.46	3.32	2.56	3.40	2.62	3.56	2.72	3.66	2.71	3.77	2.70	3.99	2.66	4.18	2.60
42.0	2.80	2.24	2.90	2.29	3.09	2.38	3.16	2.43	3.31	2.53	3.41	2.52	3.51	2.51	3.71	2.48	3.88	2.41
43.0	2.69	2.16	2.79	2.20	2.98	2.29	3.05	2.34	3.19	2.44	3.28	2.43	3.37	2.42	3.57	2.38	3.74	2.32
45.0	1.79	1.43	1.85	1.46	1.98	1.52	2.02	1.55	2.12	1.62	2.18	1.61	2.24	1.61	2.37	1.58	2.48	1.54
46.0	1.68	1.35	1.74	1.38	1.86	1.43	1.90	1.46	1.99	1.52	2.05	1.52	2.11	1.51	2.23	1.49	2.33	1.45

2-2-5. Part Load Performance

Indoor units : RAV-HM301MUT-E
Outdoor unit : RAV-GM302ATP-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 900	180	800	170
RATING	W 2500	590	3400	760
MAXIMUM	W 3000	820	4500	1400

Cooling		Parts Load (%)																			
Outdoor Temperature DB (°C)	100		90		80		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	2981	463	2683	413	2385	363	2087	312	1789	262	1491	212	1193	161	1073	141	1073	141	1073	141	
21	2949	472	2654	420	2359	369	2064	318	1770	267	1475	216	1180	164	1062	144	1062	144	1062	144	
22	2917	480	2625	428	2334	376	2042	324	1750	272	1459	219	1167	167	1050	146	1050	146	1050	146	
23	2885	489	2597	435	2308	382	2020	329	1731	276	1443	223	1154	170	1039	149	1039	149	1039	149	
24	2853	497	2568	443	2282	389	1997	335	1712	281	1426	227	1141	173	1027	152	1027	152	1027	152	
25	2821	505	2539	451	2257	396	1975	341	1693	286	1410	231	1128	176	1016	154	1016	154	1016	154	
26	2789	514	2510	458	2231	402	1952	346	1673	291	1394	235	1116	179	1004	157	1004	157	1004	157	
27	2757	522	2481	466	2205	409	1930	352	1654	295	1378	239	1103	182	992	159	992	159	992	159	
28	2725	531	2452	473	2180	416	1907	358	1635	300	1362	243	1090	185	981	162	981	162	981	162	
29	2693	539	2423	481	2154	422	1885	364	1616	305	1346	246	1077	188	969	165	969	165	969	165	
30	2660	548	2394	488	2128	429	1862	369	1596	310	1330	250	1064	191	958	167	958	167	958	167	
31	2628	556	2366	496	2103	435	1840	375	1577	315	1314	254	1051	194	946	170	946	170	946	170	
32	2596	565	2337	503	2077	442	1817	381	1558	319	1298	258	1039	197	935	172	935	172	935	172	
33	2564	573	2308	511	2051	449	1795	386	1539	324	1282	262	1026	200	923	175	923	175	923	175	
34	2532	582	2279	518	2026	455	1772	392	1519	329	1266	266	1013	203	912	177	912	177	912	177	
35	2500	590	2250	526	2000	462	1750	398	1500	334	1250	270	1000	206	900	180	900	180	900	180	
36	2468	598	2221	533	1974	468	1728	404	1481	339	1234	274	987	209	888	183	888	183	888	183	
37	2436	607	2192	541	1949	475	1705	409	1462	343	1218	277	974	212	877	185	877	185	877	185	
38	2404	615	2163	549	1923	482	1683	415	1442	348	1202	281	962	214	865	188	865	188	865	188	
39	2372	624	2135	556	1897	488	1660	421	1423	353	1186	285	949	217	854	190	854	190	854	190	
40	2340	632	2106	564	1872	495	1638	426	1404	358	1170	289	936	220	842	193	842	193	842	193	
41	2308	641	2077	571	1846	502	1615	432	1385	362	1154	293	923	223	831	195	831	195	831	195	
42	2275	649	2048	579	1820	508	1593	438	1365	367	1138	297	910	226	819	198	819	198	819	198	
43	2243	658	2019	586	1795	515	1570	443	1346	372	1122	301	897	229	808	201	808	201	808	201	
44	2211	666	1990	594	1769	521	1548	449	1327	377	1106	304	885	232	796	203	796	203	796	203	
45	2179	675	1961	601	1743	528	1525	455	1308	382	1090	308	872	235	785	206	785	206	785	206	
46	2147	683	1932	609	1718	535	1503	461	1288	386	1074	312	859	238	773	208	773	208	773	208	

Heating		Parts Load (%)																			
Outdoor Temperature DB (°C)	100		90		80		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	
-15	1675	454	1508	408	1340	362	1173	316	1005	270	838	224	670	178	503	132	394	102	394	102	
-14	1725	489	1552	439	1380	389	1207	340	1035	290	862	241	690	191	517	141	406	109	406	109	
-13	1774	523	1597	470	1419	416	1242	363	1064	310	887	257	710	204	532	151	417	117	417	117	
-12	1823	557	1641	500	1459	444	1276	387	1094	331	912	274	729	218	547	161	429	125	429	125	
-11	1872	591	1685	531	1498	471	1311	411	1123	351	936	291	749	231	562	171	441	132	441	132	
-10	1922	625	1730	561	1537	498	1345	435	1153	371	961	308	769	244	577	181	452	140	452	140	
-9	1971	659	1774	592	1577	525	1380	458	1183	391	986	324	788	258	591	191	464	147	464	147	
-8	2020	693	1818	623	1616	552	1414	482	1212	412	1010	341	808	271	606	201	475	155	475	155	
-7	2070	727	1863	653	1656	579	1449	506	1242	432	1035	358	828	284	621	210	487	163	487	163	
-6	2113	721	1902	648	1691	575	1479	501	1268	428	1057	355	845	282	634	209	497	161	497	161	
-5	2157	715	1941	642	1726	570	1510	497	1294	425	1079	352	863	279	647	207	508	160	508	160	
-4	2201	709	1981	637	1761	565	1541	493	1321	421	1100	349	880	277	660	205	518	159	518	159	
-3	2245	703	2020	632	1796	560	1571	489	1347	417	1122	346	898	275	673	203	528	157	528	157	
-2	2289	697	2060	626	1831	555	1602	485	1373	414	1144	343	915	272	687	202	538	156	538	156	
-1	2332	691	2099	621	1866	550	1633	480	1399	410	1166	340	933	270	700	200	549	155	549	155	
0	2376	685	2139	615	1901	546	1663	476	1426	407	1188	337	950	268	713	198	559	153	559	153	
1	2420	679	2178	610	1936	541	1694	472	1452	403	1210	334	968	265	726	196	569	152	569	152	
2	2464	673	2217	604	1971	536	1725	468	1478	399	1232	331	986	263	739	195	580	150	580	150	
3	2504	682	2254	612	2003	543	1753	474	1502	405	1252	336	1002	266	751	197	589	152	589	152	
4	2544	691	2290	621	2036	550	1781	480	1527	410	1272	340	1018	270	763	200	599	154	599	154	
5	2585	700	2326	629	2068	558	1809	487	1551	416	1292	345	1034	274	775	202	608	157	608	157	
6	3312	748	2981	672	2650	596	2319	520	1987	444	1656	368	1325	292	994	217	779	167	779	167	
7	3400	760	3060	683	2720	606	2380	529	2040	451	1700	374	1360	297	1020	220	800	170	800	170	
8	3488	772	3139	693	2790	615	2441	537	2093	458	1744	380	1395	302	1046	223	821	173	821	173	
9	3575	784	3218	704	2860	624	2503	545	2145	465	1788	386	1430	306	1073	227	841	175	841	175	
10	3663	795	3297	715	2931	634	2564	553	2198	472	1832	392	1465	311	1099	230	862	178	862	178	
11	3751	807	3376	725	3001	643	2626	561	2251	479	1875	397	1500	315	1125	234	883	181	883	181	
12	3839	819	3455	736	3071	653	2687	569	2303	486	1919	403	1535	320	1152	237	903	183	903	183	
13	3926	831	3534	746	3141	662	2749	578	2356	493	1963	409	1571	325	1178	240	924	186	924	186	
14	4014	842	3613	757	3211	671	2810	586	2409	500	2007	415	1606	329	1204	244	945	188	945	188	
15	4102	854	3692	767	3282	681	2871	594	2461	507	2051	421	1641	334	1231	247	965	191	965	191	
16	4190	866	3771	778	3352	690	2933	602	2514	514	2095	426	1676	338	1257	251	986	194	986	194	
17	4277	878	3850	789	3422	699	2994	610	2566	521	2139	432	1711	343	1283	254	1006	196	1006	196	
18	4365	889	3929	799	3492	709	3056	619	2619	528	2183	438	1746	348	1310	257	1027	199	1027	199	
19	4453	901	4008	810	3562	718	3117	627	2672	535	2226	444	1781	352	1336	261	1048	202	1048	202	
20	4541	913	4087	820	3633	728	3178	635	2724	542	2270	450	1816	357	1362	264	1068	204	1068	204	
21	4628	925	4166	831	3703	737	3240	643	2777	549	2314	455	1851	361	1389	268	1089	207	1089	207	
22	4716	937	4245	841	3773	746	3301	651	2830	556	2358	461	1886	366	1415	271	1110	209	1110	209	
23	4804	948	4323	852	3843	756	3363	659	2882	563	2402	467	1922	371	1441	274	1130	212	1130	212	
24	4892	960	4402	863	3913	765	3424	668	2935	570	2446	473	1957	375	1467	278	1151	215	1151	215	

Indoor units : RAV-HM401MUT-E

Outdoor unit : RAV-GM402ATP-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	900	180	800	140
RATING	W	3600	900	4000	950
MAXIMUM	W	4000	2000	5000	1700

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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	4293	707	3864	631	3434	556	3005	480	2576	405	2147	330	1717	254	1288	179	1073	141	1073	141
21	4247	719	3822	643	3397	566	2973	489	2548	412	2123	336	1699	259	1274	182	1062	144	1062	144
22	4201	732	3781	654	3360	576	2940	498	2520	420	2100	342	1680	264	1260	186	1050	146	1050	146
23	4154	745	3739	666	3324	586	2908	507	2493	427	2077	348	1662	268	1246	189	1039	149	1039	149
24	4108	758	3697	677	3287	596	2876	516	2465	435	2054	354	1643	273	1232	192	1027	152	1027	152
25	4062	771	3656	689	3250	607	2843	524	2437	442	2031	360	1625	278	1219	195	1016	154	1016	154
26	4016	784	3614	700	3213	617	2811	533	2409	449	2008	366	1606	282	1205	199	1004	157	1004	157
27	3970	797	3573	712	3176	627	2779	542	2382	457	1985	372	1588	287	1191	202	992	159	992	159
28	3923	810	3531	723	3139	637	2746	551	2354	464	1962	378	1569	291	1177	205	981	162	981	162
29	3877	823	3489	735	3102	647	2714	559	2326	472	1939	384	1551	296	1163	208	969	165	969	165
30	3831	836	3448	746	3065	657	2682	568	2299	479	1916	390	1532	301	1149	212	958	167	958	167
31	3785	848	3406	758	3028	667	2649	577	2271	486	1892	396	1514	305	1135	215	946	170	946	170
32	3739	861	3365	769	2991	678	2617	586	2243	494	1869	402	1495	310	1122	218	935	172	935	172
33	3692	874	3323	781	2954	688	2585	594	2215	501	1846	408	1477	315	1108	221	923	175	923	175
34	3646	887	3282	792	2917	698	2552	603	2188	509	1823	414	1458	319	1094	225	912	177	912	177
35	3600	900	3240	804	2880	708	2520	612	2160	516	1800	420	1440	324	1080	228	900	180	900	180
36	3554	913	3198	816	2843	718	2488	621	2132	523	1777	426	1422	329	1066	231	888	183	888	183
37	3508	926	3157	827	2806	728	2455	630	2105	531	1754	432	1403	333	1052	235	877	185	877	185
38	3461	939	3115	839	2769	738	2423	638	2077	538	1731	438	1385	338	1038	238	865	188	865	188
39	3415	952	3074	850	2732	749	2391	647	2049	546	1708	444	1366	343	1025	241	854	190	854	190
40	3369	965	3032	862	2695	759	2358	656	2021	553	1685	450	1348	347	1011	244	842	193	842	193
41	3323	977	2991	873	2658	769	2326	665	1994	560	1661	456	1329	352	997	248	831	195	831	195
42	3277	990	2949	885	2621	779	2294	673	1966	568	1638	462	1311	357	983	251	819	198	819	198
43	3230	1003	2907	896	2584	789	2261	682	1938	575	1615	468	1292	361	969	254	808	201	808	201
44	3184	1016	2866	908	2547	799	2229	691	1911	583	1592	474	1274	366	955	257	796	203	796	203
45	3138	1029	2824	919	2510	809	2197	700	1883	590	1569	480	1255	370	941	261	785	206	785	206
46	3092	1042	2783	931	2473	820	2164	708	1855	597	1546	486	1237	375	928	264	773	208	773	208

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	2070	457	1863	408	1656	360	1449	311	1242	262	1035	213	828	165	621	116	414	67	414	67
-14	2122	491	1910	439	1698	386	1486	334	1273	282	1061	229	849	177	637	125	424	72	424	72
-13	2174	525	1957	469	1739	413	1522	357	1304	301	1087	245	870	189	652	133	435	77	435	77
-12	2226	560	2003	500	1781	440	1558	381	1335	321	1113	261	890	202	668	142	445	82	445	82
-11	2277	594	2050	531	1822	467	1594	404	1366	341	1139	277	911	214	683	151	455	88	455	88
-10	2329	628	2096	561	1863	494	1630	427	1398	360	1165	293	932	226	699	160	466	93	466	93
-9	2381	663	2143	592	1905	521	1667	451	1429	380	1190	309	952	239	714	168	476	98	476	98
-8	2433	697	2189	623	1946	548	1703	474	1460	400	1216	325	973	251	730	177	487	103	487	103
-7	2484	731	2236	653	1988	575	1739	497	1491	419	1242	341	994	264	745	186	497	108	497	108
-6	2530	743	2277	664	2024	585	1771	506	1518	426	1265	347	1012	268	759	189	506	110	506	110
-5	2576	755	2319	675	2061	594	1804	514	1546	433	1288	353	1031	272	773	192	515	111	515	111
-4	2622	768	2360	686	2098	604	1836	522	1573	440	1311	359	1049	277	787	195	524	113	524	113
-3	2669	780	2402	697	2135	614	1868	530	1601	447	1334	364	1067	281	801	198	534	115	534	115
-2	2715	792	2443	708	2172	623	1900	539	1629	454	1357	370	1086	286	814	201	543	117	543	117
-1	2761	804	2484	718	2208	633	1932	547	1656	461	1380	376	1104	290	828	204	552	119	552	119
0	2807	816	2526	729	2245	642	1965	555	1684	468	1403	381	1123	294	842	207	561	120	561	120
1	2853	829	2567	740	2282	652	1997	564	1712	475	1426	387	1141	299	856	210	571	122	571	122
2	2899	841	2609	751	2319	662	2029	572	1739	482	1449	393	1159	303	870	213	580	124	580	124
3	2946	852	2651	761	2357	670	2062	580	1768	489	1473	398	1178	307	884	216	589	126	589	126
4	2994	863	2694	771	2395	679	2095	587	1796	495	1497	403	1197	311	898	219	599	127	599	127
5	3041	875	2737	781	2433	688	2129	595	1825	502	1520	409	1216	315	912	222	608	129	608	129
6	3087	886	2779	791	2471	697	2162	603	1853	509	1543	415	1235	319	926	225	617	131	617	131
7	4000	950	3600	849	3200	748	2800	646	2400	545	2000	444	1600	343	1200	241	800	140	800	140
8	4103	965	3693	862	3283	759	2872	656	2462	553	2052	451	1641	348	1231	245	821	142	821	142
9	4206	979	3786	875	3365	771	2945	666	2524	562	2103	457	1683	353	1262	249	841	144	841	144
10	4310	994	3879	888	3448	782	3017	676	2586	570	2155	464	1724	358	1293	252	862	147	862	147
11	4413	1009	3972	901	3530	794	3089	686	2648	579	2206	471	1765	364	1324	256	883	149	883	149
12	4516	1024	4065	914	3613	805	3161	696	2710	587	2258	478	1806	369	1355	260	903	151	903	151
13	4619	1038	4157	928	3695	817	3234	706	2772	596	2310	485	1848	374	1386	264	924	153	924	153
14	4723	1053	4250	941	3778	829	3306	716	2834	604	2361	492	1889	380	1417	267	945	155	945	155
15	4826	1068	4343	954	3861	840	3378	726	2895	613	2413	499	1930	385	1448	271	965	157	965	157
16	4929	1082	4436	967	3943	852	3450	736	2957	621	2465	506	1972	390	1479	275	986	160	986	160
17	5032	1097	4529	980	4026	863	3523	746	3019	629	2516	512	2013	396	1510	279	1006	162	1006	162
18	5135	1112	4622	993	4108	875	3595	756	3081	638	2568	519	2054	401	1541	282	1027	164	1027	164
19	5239	1127	4715	1006	4191	886	3667	766	3143	646	2619	526	2095	406	1572	286	1048	166	1048	166
20	5342	1141	4808	1020	4274	898	3739	776	3205	655	2671	533	2137	411	1603	290	1068	168	1068	168
21	5445	1156	4901	1033	4356	910	3812	786	3267	663	2723	540	2178	417	1634	294	1089	170	1089	170
22	5548	1171	4994	1046	4439	921	3884	796	3329	672	2774	547	2219	422	1665	297	1110	173	1110	173
23	5652	1185	5086	1059	4521	933	3956	806	3391	680	2826	554	2261	427	1695	301	1130	175	1130	175
24	5755	1200	5179	1072	4604	944	4028	816	3453	688	2877	561	2302	433	1726	305	1151	177	1151	177

Indoor units : RAV-HM561MUT-E / TR

Outdoor unit : RAV-GM562ATP-E / TR

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	1500	300	1500	300
RATING	W	5000	1640	5300	1470
MAXIMUM	W	5600	1860	6300	2400

Cooling

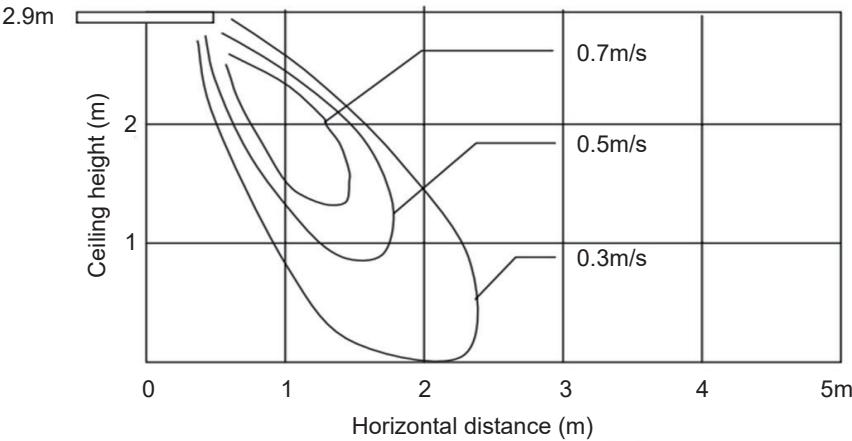
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	5963	1287	5366	1137	4770	987	4174	837	3578	686	2981	536	2385	386	1789	236	1789	236	1789	236
21	5898	1311	5309	1158	4719	1005	4129	852	3539	699	2949	546	2359	393	1770	240	1770	240	1770	240
22	5834	1334	5251	1179	4667	1023	4084	867	3501	711	2917	556	2334	400	1750	244	1750	244	1750	244
23	5770	1358	5193	1199	4616	1041	4039	882	3462	724	2885	565	2308	407	1731	248	1731	248	1731	248
24	5706	1381	5135	1220	4565	1059	3994	898	3424	736	2853	575	2282	414	1712	253	1712	253	1712	253
25	5642	1405	5078	1241	4513	1077	3949	913	3385	749	2821	585	2257	421	1693	257	1693	257	1693	257
26	5578	1428	5020	1262	4462	1095	3904	928	3347	762	2789	595	2231	428	1673	261	1673	261	1673	261
27	5513	1452	4962	1282	4411	1113	3859	944	3308	774	2757	605	2205	435	1654	266	1654	266	1654	266
28	5449	1475	4904	1303	4359	1131	3814	959	3270	787	2725	614	2180	442	1635	270	1635	270	1635	270
29	5385	1499	4847	1324	4308	1149	3770	974	3231	799	2693	624	2154	449	1616	274	1616	274	1616	274
30	5321	1522	4789	1345	4257	1167	3725	989	3193	812	2660	634	2128	456	1596	279	1596	279	1596	279
31	5257	1546	4731	1366	4205	1185	3680	1005	3154	824	2628	644	2103	463	1577	283	1577	283	1577	283
32	5193	1569	4673	1386	4154	1203	3635	1020	3116	837	2596	653	2077	470	1558	287	1558	287	1558	287
33	5128	1593	4616	1407	4103	1221	3590	1035	3077	849	2564	663	2051	477	1539	291	1539	291	1539	291
34	5064	1616	4558	1428	4051	1239	3545	1050	3039	862	2532	673	2026	484	1519	296	1519	296	1519	296
35	5000	1640	4500	1449	4000	1257	3500	1066	3000	874	2500	683	2000	491	1500	300	1500	300	1500	300
36	4936	1664	4442	1469	3949	1275	3455	1081	2962	887	2468	693	1974	498	1481	304	1481	304	1481	304
37	4872	1687	4385	1490	3897	1293	3410	1096	2923	899	2436	702	1949	506	1462	309	1462	309	1462	309
38	4808	1711	4327	1511	3846	1311	3365	1112	2885	912	2404	712	1923	513	1442	313	1442	313	1442	313
39	4743	1734	4269	1532	3795	1329	3320	1127	2846	924	2372	722	1897	520	1423	317	1423	317	1423	317
40	4679	1757	4211	1553	3744	1347	3275	1142	2807	937	2340	732	1871	527	1404	321	1404	321	1404	321
41	4615	1780	4153	1574	3693	1365	3230	1157	2768	949	2308	742	1845	534	1385	325	1385	325	1385	325
42	4551	1803	4095	1595	3642	1383	3185	1172	2729	962	2276	752	1819	541	1366	329	1366	329	1366	329
43	4487	1826	4037	1616	3591	1401	3140	1187	2690	975	2244	762	1793	548	1347	333	1347	333	1347	333
44	4423	1849	3979	1637	3540	1419	3095	1202	2651	988	2212	772	1767	555	1328	337	1328	337	1328	337
45	4359	1872	3921	1658	3489	1437	3050	1217	2612	1001	2180	782	1741	562	1309	341	1309	341	1309	341
46	4295	1895	3863	1679	3438	1455	3005	1232	2573	1014	2148	792	1715	569	1290	345	1290	345	1290	345

Heating

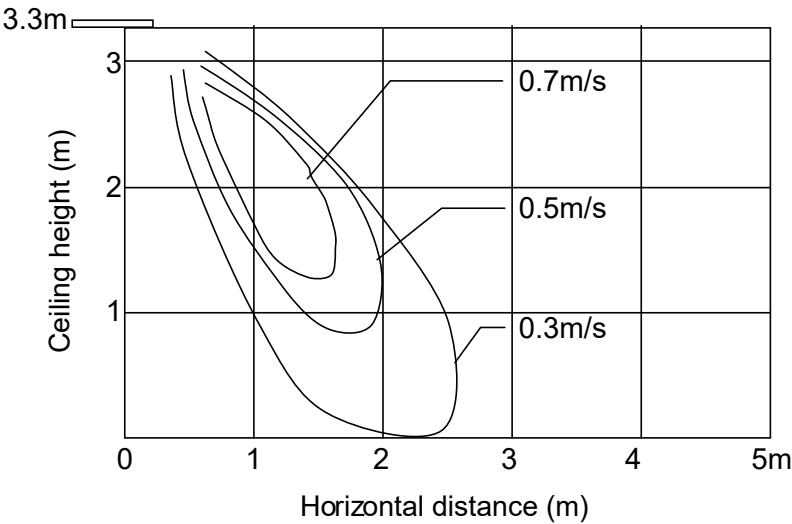
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	2736	542	2462	482	2189	422	1915	362	1642	301	1368	241	1094	181	821	121	774	111	774	111
-14	2794	583	2515	518	2235	453	1956	389	1676	324	1397	259	1118	195	838	130	791	119	791	119
-13	2852	623	2567	554	2282	485	1996	416	1711	347	1426	277	1141	208	856	139	807	127	807	127
-12	2910	664	2619	590	2328	517	2037	443	1746	369	1455	295	1164	222	873	148	824	136	824	136
-11	2968	705	2671	626	2375	548	2078	470	1781	392	1484	314	1187	235	890	157	840	144	840	144
-10	3026	745	2724	663	2421	580	2118	497	1816	414	1513	332	1211	249	908	166	856	152	856	152
-9	3084	786	2776	699	2467	611	2159	524	1851	437	1542	350	1234	262	925	175	873	160	873	160
-8	3142	827	2828	735	2514	643	2200	551	1885	460	1571	368	1257	276	943	184	889	169	889	169
-7	3200	867	2880	771	2560	675	2240	578	1920	482	1600	386	1280	290	960	193	906	177	906	177
-6	3272	915	2944	814	2617	712	2290	611	1963	509	1636	407	1309	306	981	204	926	187	926	187
-5	3343	964	3008	857	2674	750	2340	643	2006	536	1671	429	1337	322	1003	215	946	197	946	197
-4	3414	1012	3072	899	2731	787	2390	675	2048	563	1707	450	1366	338	1024	226	966	206	966	206
-3	3485	1060	3136	942	2788	825	2439	707	2091	589	1742	472	1394	354	1045	236	986	216	986	216
-2	3556	1108	3200	985	2845	862	2489	739	2134	616	1778	493	1422	370	1067	247	1006	226	1006	226
-1	3627	1156	3264	1028	2902	900	2539	771	2176	643	1814	515	1451	386	1088	258	1027	236	1027	236
0	3698	1205	3329	1071	2959	937	2589	803	2219	670	1849	536	1479	402	1110	269	1047	246	1047	246
1	3769	1253	3393	1114	3016	975	2639	836	2262	696	1885	557	1508	418	1131	279	1067	256	1067	256
2	3841	1301	3457	1156	3072	1012	2688	868	2304	723	1920	579	1536	434	1152	290	1087	265	1087	265
3	3903	1318	3513	1172	3123	1026	2732	879	2342	733	1952	587	1561	440	1171	294	1105	269	1105	269
4	3966	1336	3570	1188	3173	1039	2776	891	2380	743	1983	594	1587	446	1190	298	1123	273	1123	273
5	4029	1353	3626	1203	3223	1053	2821	903	2418	752	2015	602	1612	452	1209	302	1140	276	1140	276
6	5163	1447	4647	1287	4131	1126	3614	965	3098	805	2582	644	2065	483	1549	323	1461	295	1461	295
7	5300	1470	4770	1307	4240	1144	3710	980	3180	817	2650	654	2120	491	1590	328	1500	300	1500	300
8	5437	1493	4893	1327	4349	1161	3806	996	3262	830	2718	664	2175	498	1631	333	1539	305	1539	305
9	5574	1516	5016	1347	4459	1179	3901	1011	3344	843	2787	674	2229	506	1672	338	1577	309	1577	309
10	5710	1538	5139	1368	4568	1197	3997	1026	3426	855	2855	684	2284	514	1713	343	1616	314	1616	314
11	5847	1561	5262	1388	4678	1214	4093	1041	3508	868	2924	695	2339	521	1754	348	1655	319	1655	319
12	5984	1584	5385	1408	4787	1232	4189	1056	3590	881	2992	705	2394	529	1795	353	1694	323	1694	323
13	6121	1607	5509	1428	4897	1250	4284	1072	3672	893	3060	715	2448	537	1836	358	1732	328	1732	328
14	6257	1629	5632	1448	5006	1268	4380	1087	3754	906	3129	725	2503	544	1877	363	1771	333	1771	333
15	6394	1652	5755	1469	5115	1285	4476	1102	3837	918	3197	735	2558	552	1918	368	1810	337	1810	337
16	6531	1675	5878	1489	5225	1303	4572	1117	3919	931	3265	745	2612	559	1959	373	1848	342	1848	342
17	6668	1698	6001	1509	5334	1321	4667	1132	4001	944	3334	755	2667	567	2000	378	1887	346	1887	346
18	6805	1720	6124	1529	5444	1338	4763	1147	4083	956	3402	765	2722	575	2041	384	1926	351	1926	351
19	6941	1743	6247	1550	5553	1356	4859	1163	4165	969	3471	776	2777	582	2082	389	1965	356	1965	356
20	7078	1766	6370	1570	5662	1374	4955	1178	4247	982	3539	786	2831	590	2123	394	2003	360	2003	360
21	7215	1789	6493	1590	5772	1392	5050	1193	4329	994	3607	796	2886	597	2164	399	2042	365	2042	365
22	7352	1811	6616	1610	5881	1409	5146	1208	4411	1007	3676	806	2941	605	2205	404	2081	370	2081	370
23	7488	1834	6740	1631	5991	1427	5242	1223	4493	1020	3744	816	2995	613	2247	409	2119	374	2119	374
24	7625	1857	6863	1651	6100	1445	5338	1239	4575	1032	3813	826	3050	620	2288	414	2158	379	2158	379

2-2-6. Air Throw Distance Chart

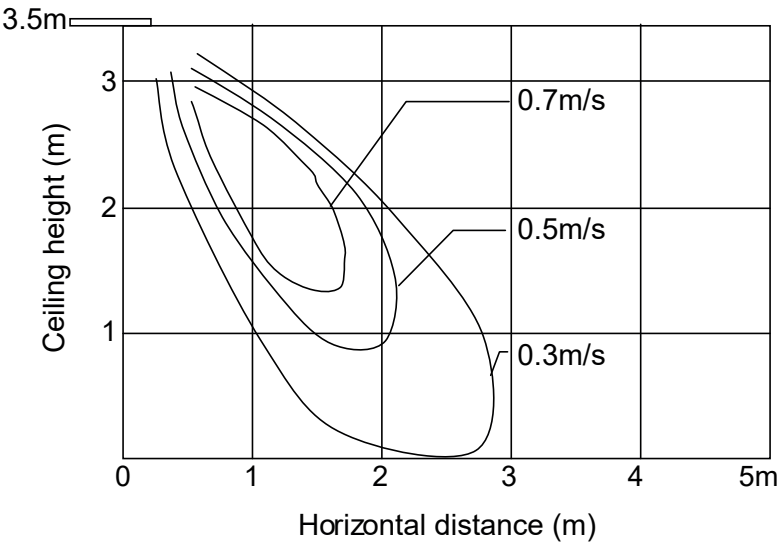
RAV-HM*__1MUT-E (*30 / 40)



RAV-HM561MUT-E / TR



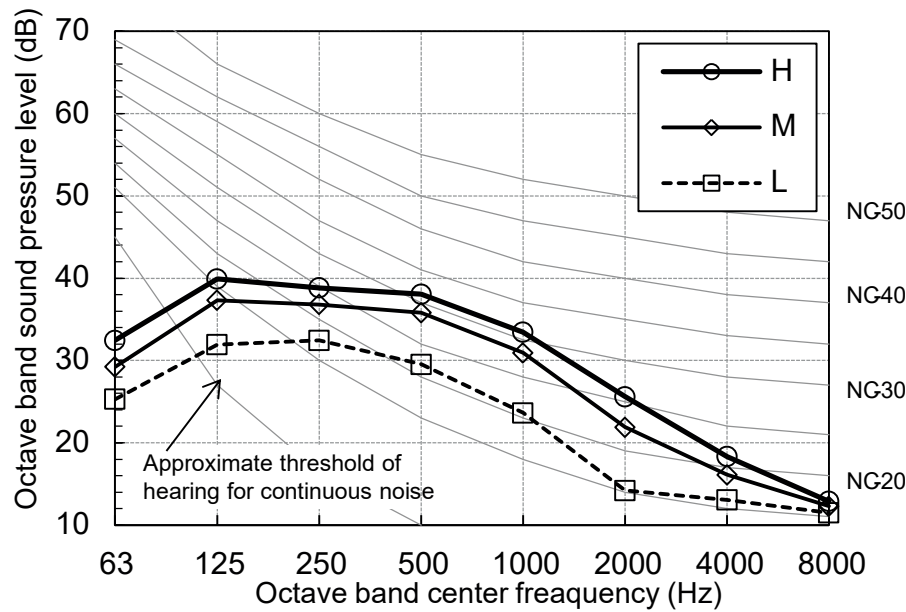
(High ceiling mode)



2-2-7. Sound Characteristics (NC curve)

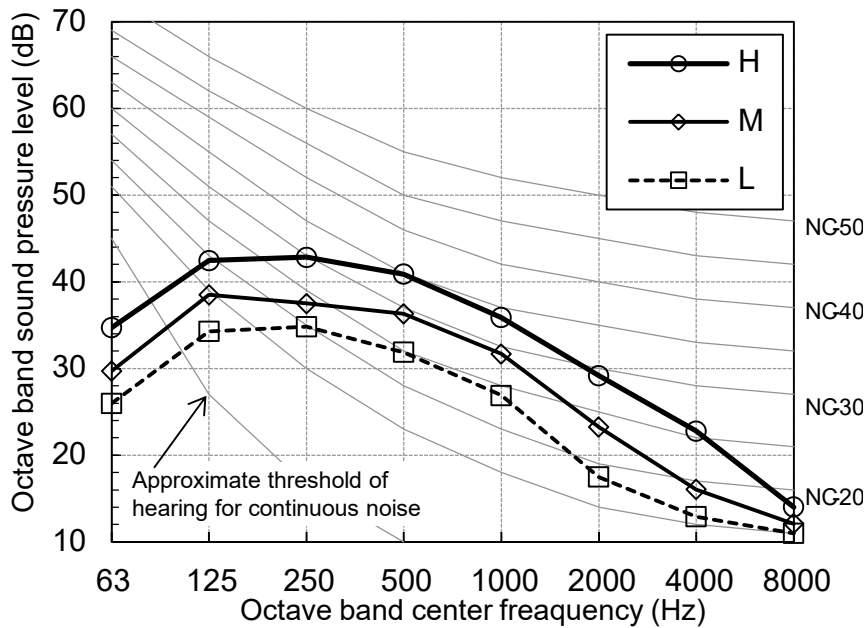
RAV-HM301MUT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	38	36	30



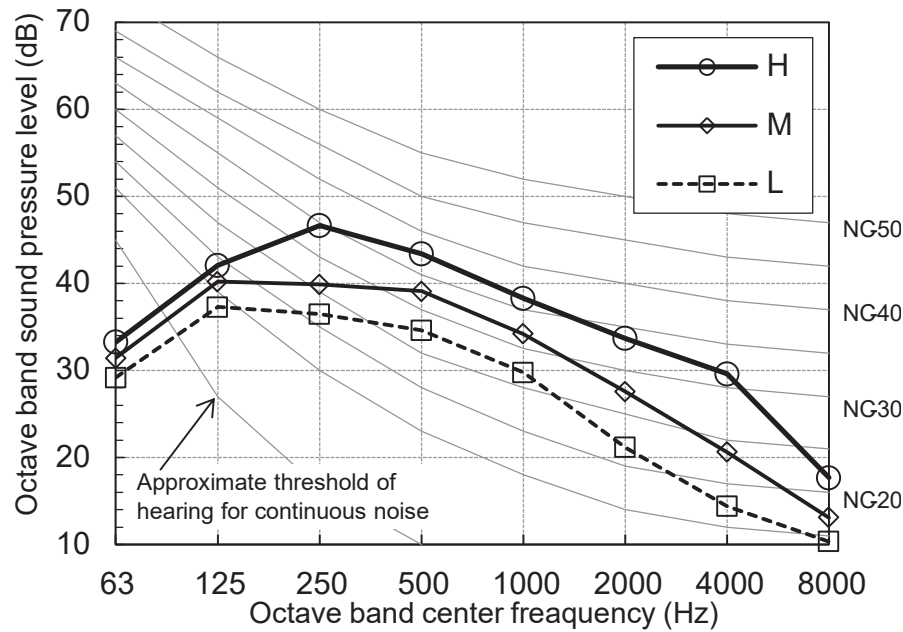
RAV-HM401MUT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	41	36	32

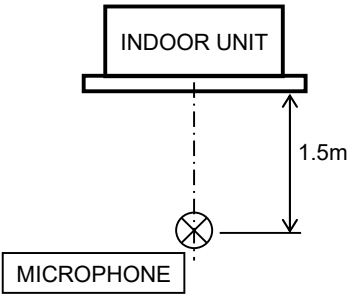


RAV-HM561MUT-E / TR

Fan tap	H	M	L
Sound pressure level (dB(A))	44	39	35



Remark



2-3. Standard Ducted Type

2-3-1. Specifications

2-3-2. Dimension

2-3-3. Wiring Diagrams

2-3-4. Sensible Capacity Table

2-3-5. Part Load Performance

2-3-6. Fan Static Characteristic

2-3-7. Sound Characteristics (NC Curve)

Accessories

2-3-1. Specifications

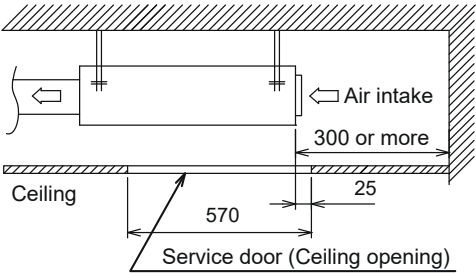
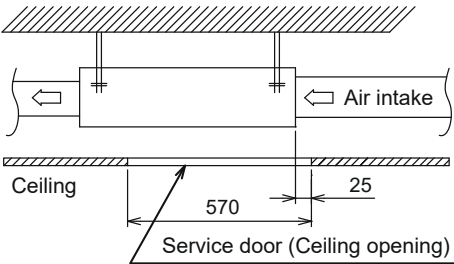
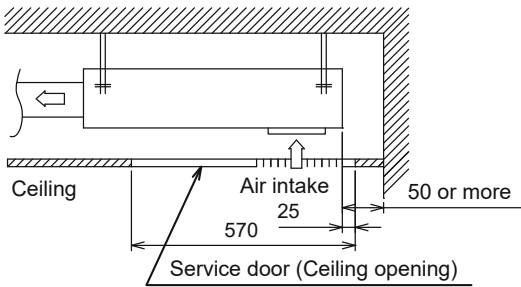
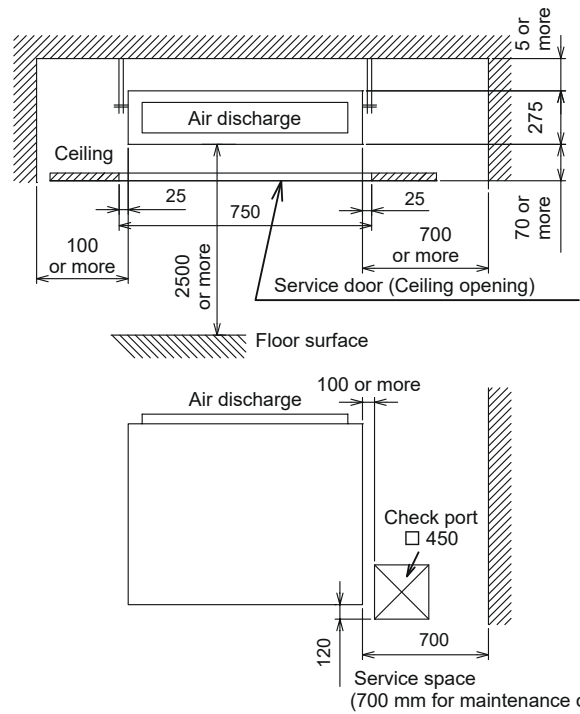
Standard ducted type

Model		Indoor unit		RAV-HM561BTP-E / TR	
		Outdoor unit		RAV-GM562ATP-E / TR	
Cooling Capacity				(kW)	5.0
Heating Capacity				(kW)	5.3
Power Supply				1 phase 220V-240V, 50Hz	
Electrical Characteristics	Cooling	Running current	(A)	8.58 - 7.86	
		Power consumption	(kW)	1.830	
		Power factor	(%)	97	
		EER		2.73	
		SEER		5.80	
		Energy star rating		A+	
	Heating	Running current	(A)	7.59 - 6.96	
		Power consumption	(kW)	1.620	
		Power factor	(%)	97	
		COP		3.27	
		SCOP		4.08	
		Energy star rating		A+	
		Maximum current	(A)	15.5	
Appearance	Main unit			Zinc hot dipping steel plate	
	Spigot flange (Sold separately)			TCB-SF56C6BPE	
Outer dimension	Main unit	Height	(mm)	275	
		Width	(mm)	700	
		Depth	(mm)	750	
	Spigot flange (Sold separately)	Height	(mm)	263	
		Width	(mm)	684	
		Depth	(mm)	174	
Total weight	Main unit		(kg)	23	
	Spigot flange (Sold separately)		(kg)	2.5	
Heat exchanger				Finned tube	
Fan unit	Fan			Centrifugal fan (multi blade)	
	Standard air flow	H/M/L	(m³/min)	13.3/10.5/8.0	
	Motor			(W)	150
Air filter				Standard filter attached (long life filter)	
Controller (packed with indoor unit)				-	
Controller (sold separately)				RBC-ASCU11-E, RBC-AMT32E, RBC-AS21E2, RBC-AMS41E, RBC-AMS51E	
Sound pressure level		H/M/L	(dB·A)	33/29/25	
Sound power level		H/M/L	(dB·A)	48/44/40	
Connecting pipe		Gas side	(mm)	12.7	
		Liquid side	(mm)	6.4	
		Drain port	(mm)	VP25	

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB / 19 °C WB, Outdoor air temperature 35 °C DB

Heating : Indoor air temperature 20 °C DB, Outdoor air temperature 7 °C DB / 6 °C WB

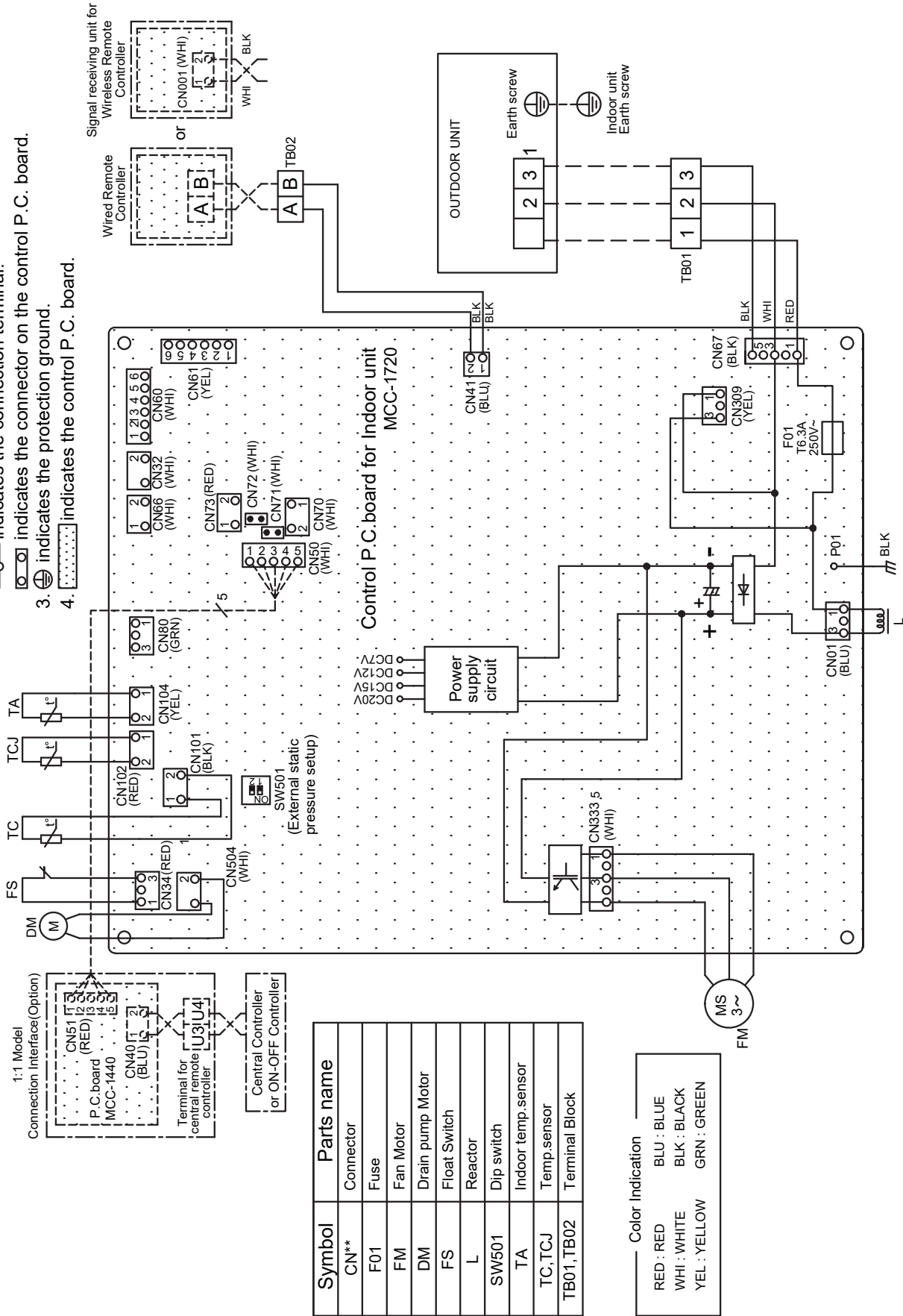
RAV-HM561BTP-E / TR



2-3-3. Wiring diagrams

RAV-HM561BTP-E / TR

- 1. Broken line indicate the wiring at site.
- Long dashed short dashed line indicate the accessories.
- 2. indicates the terminal block.
- indicates the connection terminal.
- indicates the connector on the control P.C. board.
- 3. indicates the protection ground.
- 4. indicates the control P.C. board.



2-3-4. Sensible Capacity Table

Product models : RAV-HM561BTP-E / TR ; RAV-GM562ATP-E / TR

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	3.90 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.56	5.61	4.66	5.99	4.86	6.13	4.96	6.42	5.16	6.60	5.15	6.79	5.14	7.19	5.09	7.52	4.98
12.0	5.32	4.47	5.50	4.57	5.87	4.76	6.01	4.86	6.29	5.06	6.48	5.05	6.66	5.04	7.05	4.99	7.38	4.88
14.0	5.21	4.38	5.40	4.48	5.76	4.67	5.89	4.77	6.17	4.96	6.35	4.95	6.53	4.94	6.91	4.89	7.23	4.79
16.0	5.11	4.30	5.29	4.39	5.64	4.58	5.78	4.67	6.04	4.86	6.22	4.85	6.40	4.84	6.77	4.79	7.09	4.69
18.0	5.00	4.21	5.18	4.30	5.52	4.48	5.66	4.58	5.92	4.76	6.09	4.75	6.27	4.74	6.63	4.69	6.94	4.59
20.0	4.90	4.12	5.07	4.21	5.41	4.39	5.54	4.48	5.79	4.66	5.96	4.65	6.13	4.64	6.49	4.59	6.79	4.50
21.0	4.84	4.07	5.01	4.17	5.35	4.34	5.48	4.43	5.73	4.61	5.90	4.60	6.07	4.59	6.43	4.54	6.72	4.45
23.0	4.74	3.98	4.90	4.07	5.23	4.24	5.36	4.33	5.60	4.51	5.77	4.50	5.94	4.49	6.29	4.44	6.57	4.35
25.0	4.63	3.90	4.80	3.98	5.12	4.15	5.24	4.24	5.48	4.41	5.64	4.40	5.80	4.39	6.15	4.35	6.43	4.25
27.0	4.53	3.81	4.69	3.89	5.00	4.06	5.12	4.14	5.36	4.31	5.51	4.30	5.67	4.29	6.01	4.25	6.28	4.16
29.0	4.42	3.72	4.58	3.80	4.88	3.96	5.00	4.05	5.23	4.21	5.39	4.20	5.54	4.19	5.87	4.15	6.14	4.06
31.0	4.32	3.63	4.47	3.71	4.77	3.87	4.88	3.95	5.11	4.11	5.26	4.10	5.41	4.09	5.73	4.05	5.99	3.96
33.0	4.21	3.54	4.36	3.62	4.65	3.77	4.76	3.85	4.98	4.01	5.13	4.00	5.28	3.99	5.59	3.95	5.84	3.87
35.0	4.11	3.45	4.25	3.53	4.54	3.68	4.64	3.76	4.86	3.91	5.00	3.90	5.14	3.89	5.45	3.85	5.70	3.77
37.0	4.00	3.36	4.14	3.44	4.42	3.58	4.52	3.66	4.73	3.81	4.87	3.80	5.01	3.79	5.31	3.75	5.55	3.67
39.0	3.90	3.28	4.03	3.35	4.30	3.49	4.40	3.56	4.61	3.71	4.74	3.70	4.88	3.69	5.17	3.65	5.40	3.58
40.0	2.65	2.23	2.75	2.28	2.93	2.38	3.00	2.43	3.14	2.53	3.23	2.52	3.32	2.52	3.52	2.49	3.68	2.44
42.0	2.43	2.04	2.51	2.09	2.68	2.18	2.75	2.22	2.87	2.31	2.96	2.31	3.04	2.30	3.22	2.28	3.37	2.23
43.0	2.32	1.95	2.40	1.99	2.56	2.08	2.62	2.12	2.74	2.21	2.82	2.20	2.90	2.20	3.07	2.17	3.22	2.13
45.0	1.38	1.16	1.43	1.19	1.52	1.23	1.56	1.26	1.63	1.31	1.68	1.31	1.73	1.31	1.83	1.29	1.91	1.27
46.0	1.27	1.07	1.31	1.09	1.40	1.13	1.43	1.16	1.50	1.21	1.54	1.20	1.59	1.20	1.68	1.19	1.76	1.16

2-3-5. Part load performance

Indoor units : RAV-HM561BTP-E / TR

Outdoor unit : RAV-GM562ATP-E / TR

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	1500	310	1500	310
RATING	W	5000	1830	5300	1620
MAXIMUM	W	5600	2050	6300	2470

Cooling

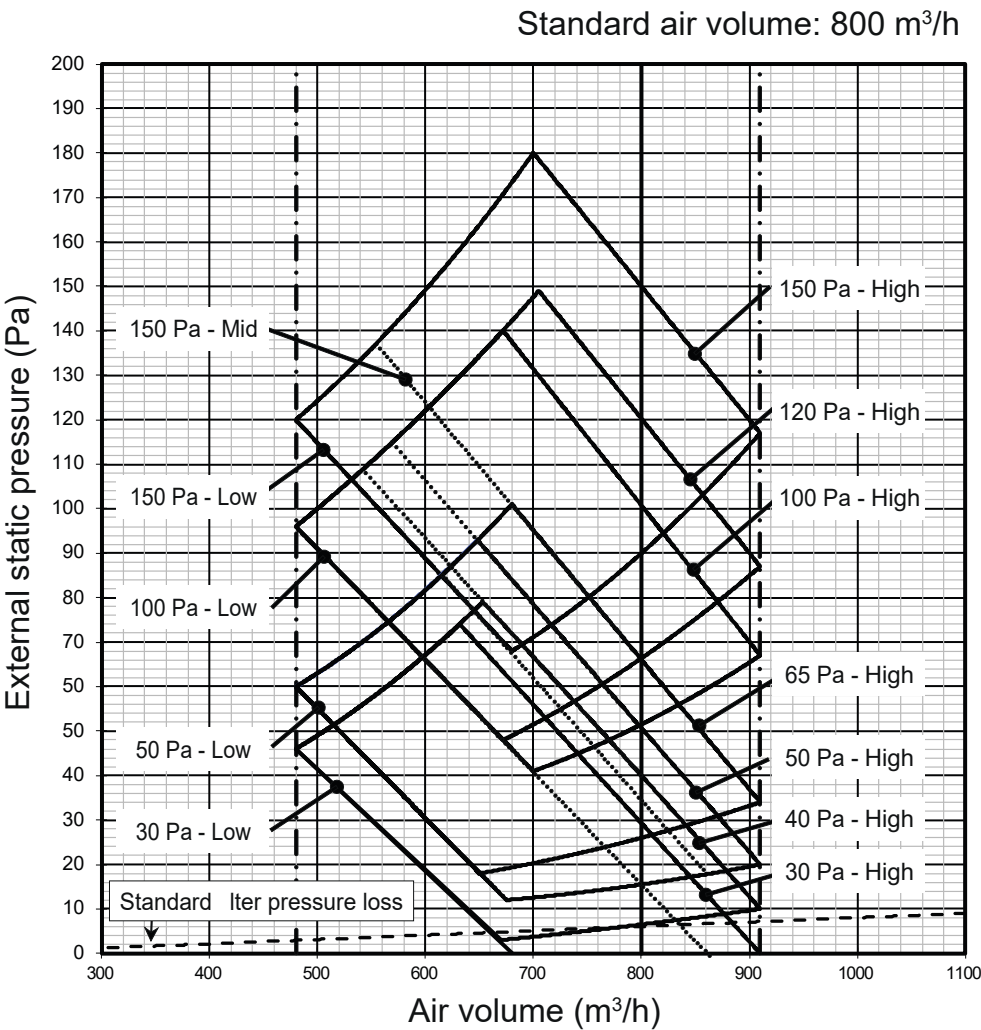
Outdoor Temperature DB (°C)	Parts Load (%)																	
	100		90		80		70		60		50		40		30		20	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	5963	1437	5366	1266	4770	1096	4174	925	3578	755	2981	584	2385	414	1789	243	1789	243
21	5898	1463	5309	1289	4719	1116	4129	942	3539	769	2949	595	2359	421	1770	248	1770	248
22	5834	1489	5251	1312	4667	1136	4084	959	3501	782	2917	606	2334	429	1750	252	1750	252
23	5770	1515	5193	1335	4616	1156	4039	976	3462	796	2885	616	2308	436	1731	257	1731	257
24	5706	1541	5135	1359	4565	1176	3994	993	3424	810	2853	627	2282	444	1712	261	1712	261
25	5642	1568	5078	1382	4513	1196	3949	1010	3385	824	2821	638	2257	452	1693	266	1693	266
26	5578	1594	5020	1405	4462	1216	3904	1027	3347	837	2789	648	2231	459	1673	270	1673	270
27	5513	1620	4962	1428	4411	1236	3859	1043	3308	851	2757	659	2205	467	1654	274	1654	274
28	5449	1646	4904	1451	4359	1256	3814	1060	3270	865	2725	670	2180	474	1635	279	1635	279
29	5385	1673	4847	1474	4308	1276	3770	1077	3231	879	2693	680	2154	482	1616	283	1616	283
30	5321	1699	4789	1497	4257	1296	3725	1094	3193	893	2660	691	2128	489	1596	288	1596	288
31	5257	1725	4731	1520	4205	1316	3680	1111	3154	906	2628	702	2103	497	1577	292	1577	292
32	5193	1751	4673	1544	4154	1336	3635	1128	3116	920	2596	712	2077	504	1558	297	1558	297
33	5128	1778	4616	1567	4103	1356	3590	1145	3077	934	2564	723	2051	512	1539	301	1539	301
34	5064	1804	4558	1590	4051	1376	3545	1162	3039	948	2532	734	2026	520	1519	306	1519	306
35	5000	1830	4500	1613	4000	1396	3500	1179	3000	961	2500	744	2000	527	1500	310	1500	310
36	4936	1856	4442	1636	3949	1416	3455	1195	2962	975	2468	755	1974	535	1481	314	1481	314
37	4872	1882	4385	1659	3897	1436	3410	1212	2923	989	2436	766	1949	542	1462	319	1462	319
38	4808	1909	4327	1682	3846	1456	3365	1229	2885	1003	2404	776	1923	550	1442	323	1442	323
39	4743	1935	4269	1705	3795	1476	3320	1246	2846	1017	2372	787	1897	557	1423	328	1423	328
40	4679	1961	4211	1728	3744	1496	3275	1263	2807	1031	2340	798	1871	564	1404	333	1404	333
41	4615	1987	4153	1751	3693	1516	3230	1280	2768	1045	2308	809	1845	571	1385	337	1385	337
42	4551	2013	4095	1774	3642	1536	3185	1297	2729	1059	2276	820	1819	578	1366	342	1366	342
43	4487	2039	4037	1797	3591	1556	3140	1314	2690	1073	2244	831	1793	585	1347	347	1347	347
44	4423	2065	3979	1820	3540	1576	3095	1331	2651	1087	2212	842	1767	592	1328	352	1328	352
45	4359	2091	3921	1843	3489	1596	3050	1348	2612	1101	2180	853	1741	599	1309	357	1309	357
46	4295	2117	3863	1866	3438	1616	3005	1365	2573	1115	2148	864	1715	606	1290	362	1290	362

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	2736	597	2462	530	2189	463	1915	395	1642	328	1368	260	1094	193	821	126	774	114	774	114
-14	2794	642	2515	570	2235	497	1956	425	1676	352	1397	280	1118	208	838	135	791	123	791	123
-13	2852	687	2567	609	2282	532	1996	455	1711	377	1426	300	1141	222	856	145	807	131	807	131
-12	2910	732	2619	649	2328	567	2037	484	1746	402	1455	319	1164	237	873	154	824	140	824	140
-11	2968	777	2671	689	2375	601	2078	514	1781	426	1484	339	1187	251	890	163	840	149	840	149
-10	3026	821	2724	729	2421	636	2118	543	1816	451	1513	358	1211	266	908	173	856	157	856	157
-9	3084	866	2776	768	2467	671	2159	573	1851	475	1542	378	1234	280	925	182	873	166	873	166
-8	3142	911	2828	808	2514	705	2200	603	1885	500	1571	397	1257	295	943	192	889	174	889	174
-7	3200	956	2880	848	2560	740	2240	632	1920	525	1600	417	1280	309	960	201	906	183	906	183
-6	3272	1009	2944	895	2617	781	2290	668	1963	554	1636	440	1309	326	981	212	926	193	926	193
-5	3343	1062	3008	942	2674	822	2340	703	2006	583	1671	463	1337	343	1003	224	946	203	946	203
-4	3414	1115	3072	989	2731	864	2390	738	2048	612	1707	486	1366	360	1024	235	966	213	966	213
-3	3485	1168	3136	1036	2788	905	2439	773	2091	641	1742	509	1394	378	1045	246	986	224	986	224
-2	3556	1221	3200	1084	2845	946	2489	808	2134	670	1778	533	1422	395	1067	257	1006	234	1006	234
-1	3627	1274	3264	1131	2902	987	2539	843	2176	699	1814	556	1451	412	1088	268	1027	244	1027	244
0	3698	1327	3329	1178	2959	1028	2589	878	2219	729	1849	579	1479	429	1110	279	1047	254	1047	254
1	3769	1381	3393	1225	3016	1069	2639	913	2262	758	1885	602	1508	446	1131	291	1067	264	1067	264
2	3841	1434	3457	1272	3072	1110	2688	949	2304	787	1920	625	1536	463	1152	302	1087	274	1087	274
3	3903	1453	3513	1289	3123	1125	2732	961	2342	797	1952	634	1561	470	1171	306	1105	278	1105	278
4	3966	1472	3570	1306	3173	1140	2776	974	2380	808	1983	642	1587	476	1190	310	1123	282	1123	282
5	4029	1491	3626	1323	3223	1155	2821	987	2418	819	2015	650	1612	482	1209	314	1140	285	1140	285
6	5163	1595	4647	1415	4131	1235	3614	1055	3098	875	2582	696	2065	516	1549	336	1461	305	1461	305
7	5300	1620	4770	1437	4240	1255	3710	1072	3180	889	2650	706	2120	524	1590	341	1500	310	1500	310
8	5437	1645	4893	1460	4349	1274	3806	1088	3262	903	2718	717	2175	532	1631	346	1539	315	1539	315
9	5574	1670	5016	1482	4459	1293	3901	1105	3344	917	2787	728	2229	540	1672	352	1577	320	1577	320
10	5710	1695	5139	1504	4568	1313	3997	1122	3426	930	2855	739	2284	548	1713	357	1616	324	1616	324
11	5847	1720	5262	1526	4678	1332	4093	1138	3508	944	2924	750	2339	556	1754	362	1655	329	1655	329
12	5984	1745	5385	1549	4787	1352	4189	1155	3590	958	2992	761	2394	564	1795	367	1694	334	1694	334
13	6121	1771	5509	1571	4897	1371	4284	1171	3672	972	3060	772	2448	572	1836	373	1732	339	1732	339
14	6257	1796	5632	1593	5006	1391	4380	1188	3754	986	3129	783	2503	581	1877	378	1771	344	1771	344
15	6394	1821	5755	1615	5115	1410	4476	1205	3837	999	3197	794	2558	589	1918	383	1810	348	1810	348
16	6531	1846	5878	1638	5225	1429	4572	1221	3919	1013	3265	805	2612	597	1959	389	1848	353	1848	353
17	6668	1871	6001	1660	5334	1449	4667	1238	4001	1027	3334	816	2667	605	2000	394	1887	358	1887	358
18	6805	1896	6124	1682	5444	1468	4763	1254	4083	1041	3402	827	2722	613	2041	399	1926	363	1926	363
19	6941	1921	6247	1704	5553	1488	4859	1271	4165	1054	3471	838	2777	621	2082	404	1965	368	1965	368
20	7078	1946	6370	1727	5662	1507	4955	1288	4247	1068	3539	849	2831	629	2123	410	2003	372	2003	372
21	7215	1971	6493	1749	5772	1527	5050	1304	4329	1082	3607	860	2886	637	2164	415	2042	377	2042	377
22	7352	1996	6616	1771	5881	1546	5146	1321	4411	1096	3676	871	2941	645	2205	420	2081	382	2081	382
23	7488	2021	6740	1793	5991	1565	5242	1337	4493	1109	3744	881	2995	653	2247	426	2119	387	2119	387
24	7625	2046	6863	1816	6100	1585	5338	1354	4575	1123	3813	892	3050	662	2288	431	2158	392	2158	392

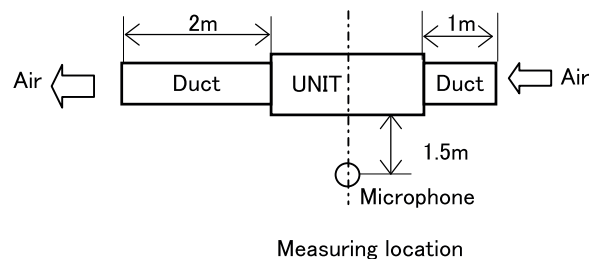
2-3-6. Fan static characteristic

RAV-HM561BTP-E / TR



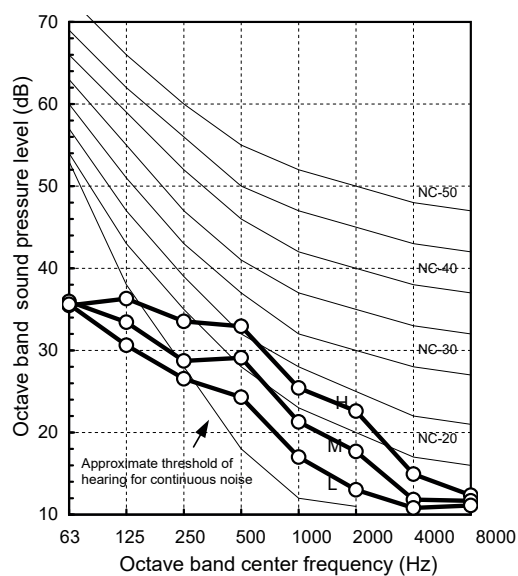
2-3-7. Sound Characteristics (NC curve)

RAV-HM561BTP-E / TR



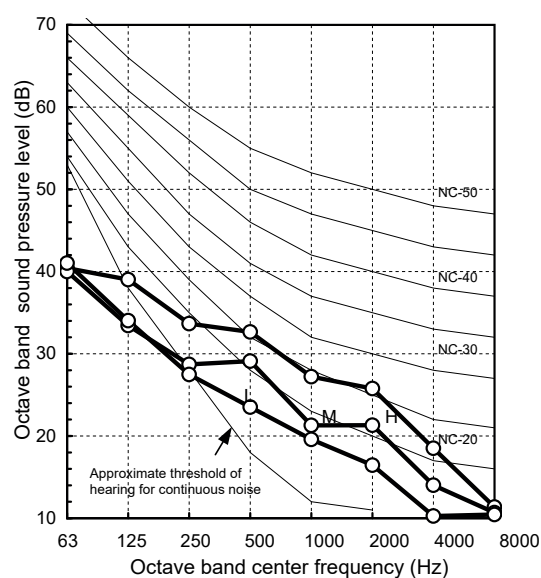
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	33	29	25



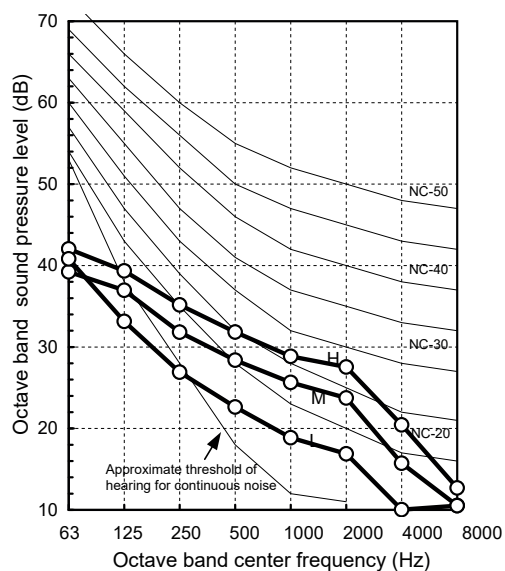
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	34	30	26



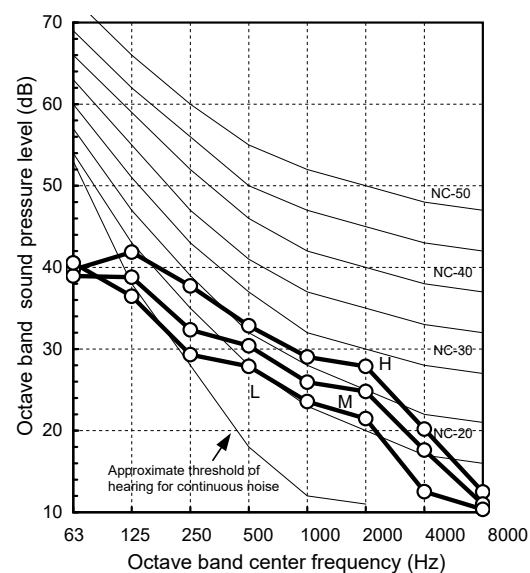
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	35	31	26



External static pressure 65Pa

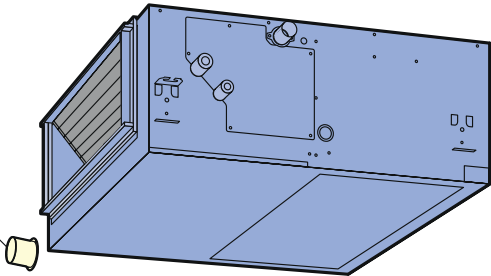
FAN tap	H	M	L
Sound pressure level (dB(A))	36	32	29



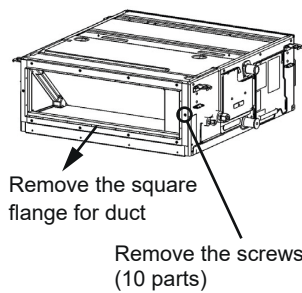
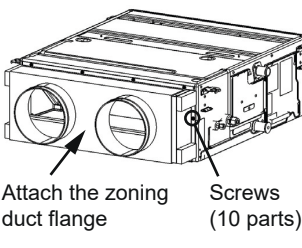
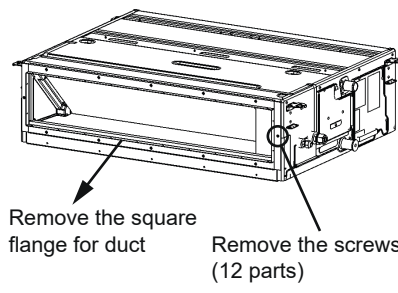
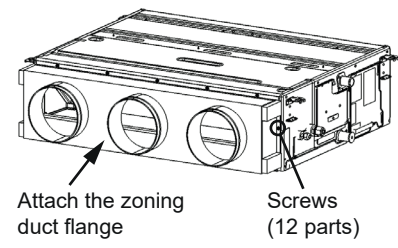
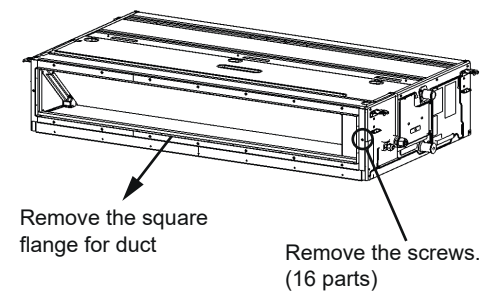
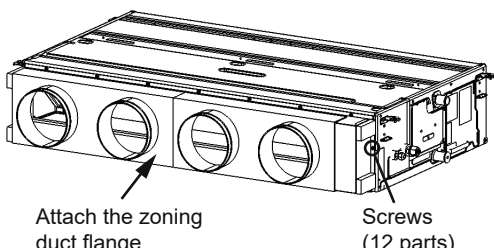
Accessories

Option Parts	Model Name	Applicable FCU
Auxiliary fresh air flange	TCB-FF151US-E	For Duct type

Auxiliary fresh air flange
TCB-FF151US-E



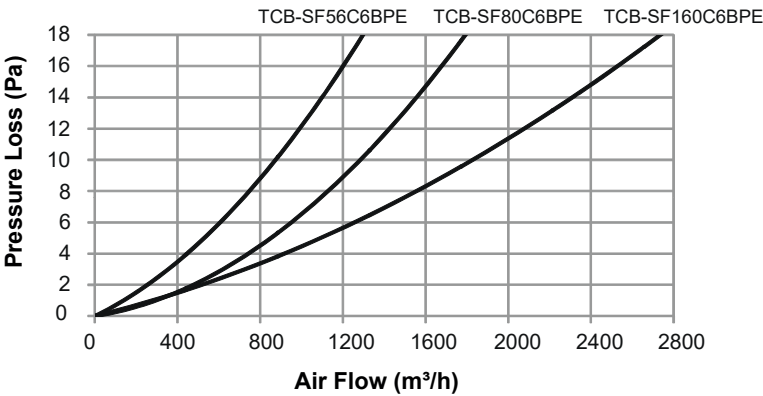
Appendix

Zoning duct flange TCB-SF56C6BPE	Zoning duct flange TCB-SF80C6BPE	Zoning duct flange TCB-SF160C6BPE
 Remove the square flange for duct Remove the screws. (10 parts)  Attach the zoning duct flange Screws (10 parts)	 Remove the square flange for duct Remove the screws. (12 parts)  Attach the zoning duct flange Screws (12 parts)	 Remove the square flange for duct Remove the screws. (16 parts)  Attach the zoning duct flange Screws (12 parts)

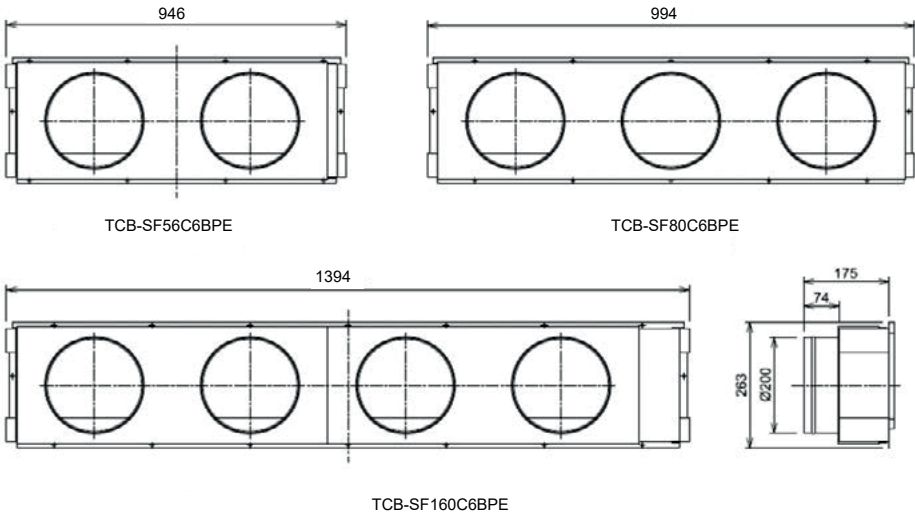
Remove screws on square flange for duct of indoor unit and attach the zoning duct flange with the screw.

External pressure loss characteristic

When you use these “Zoning duct flange” with Concealed Duct Type and High Static Pressure type, pressure-loss characteristics depends on Air Flow.



External dimension



Auxiliary fresh air flange

Arrange a flexible duct (locally procured).

It is necessary to install auxiliary fresh air flange.

INSTALLATION PROCEDURE

- 1 Using the knockout of the indoor unit, as a marker, cut off the steel plate with cutting pliers or cutter.
- 2 Install the auxiliary fresh air flange to the indoor unit with attached 4 fixing screws.

CAUTION

The fresh air shall be conditioned by heat reclaim ventilator or similar.

Emsure the fresh air volume is determined so that mixed suction air and fresh air maintain the operating temperature.

Recommended conditioned air temperature is 12°C to 30°C.

however, make a fresh air volume within 10% of standard.

Provide an air filter in fresh air duct. (Fresh air doesn't pass through the filter of indoor unit.)

Besure to insulate fresh air duct.

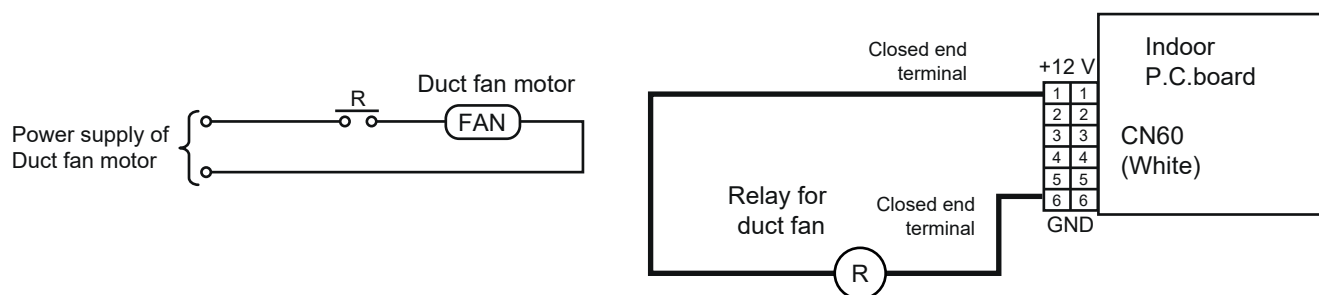
Please wire for inter-lock with fan of indoor unit by using CN60.

Inter - lock circuit

1. Connect the driving relay of the duct fan (DC 12 V) between 1 and 6 on the indoor P.C.board.

Part indicated with a bold line is the connecting circuit.

After installation, implement a test run to check that the duct fan of the indoor unit start / stop simultaneously.
(Implement the test run following to the installation manual of the indoor unit.)



2-4. Under Ceiling Type

2-4-1. Specifications

2-4-2. Dimension

2-4-3. Wiring Diagrams

2-4-4. Sensible Capacity Table

2-4-5. Part Load Performance

2-4-6. Air Throw Distance Chart

2-4-7. Sound Characteristics (NC Curve)

2-4-1. Specifications

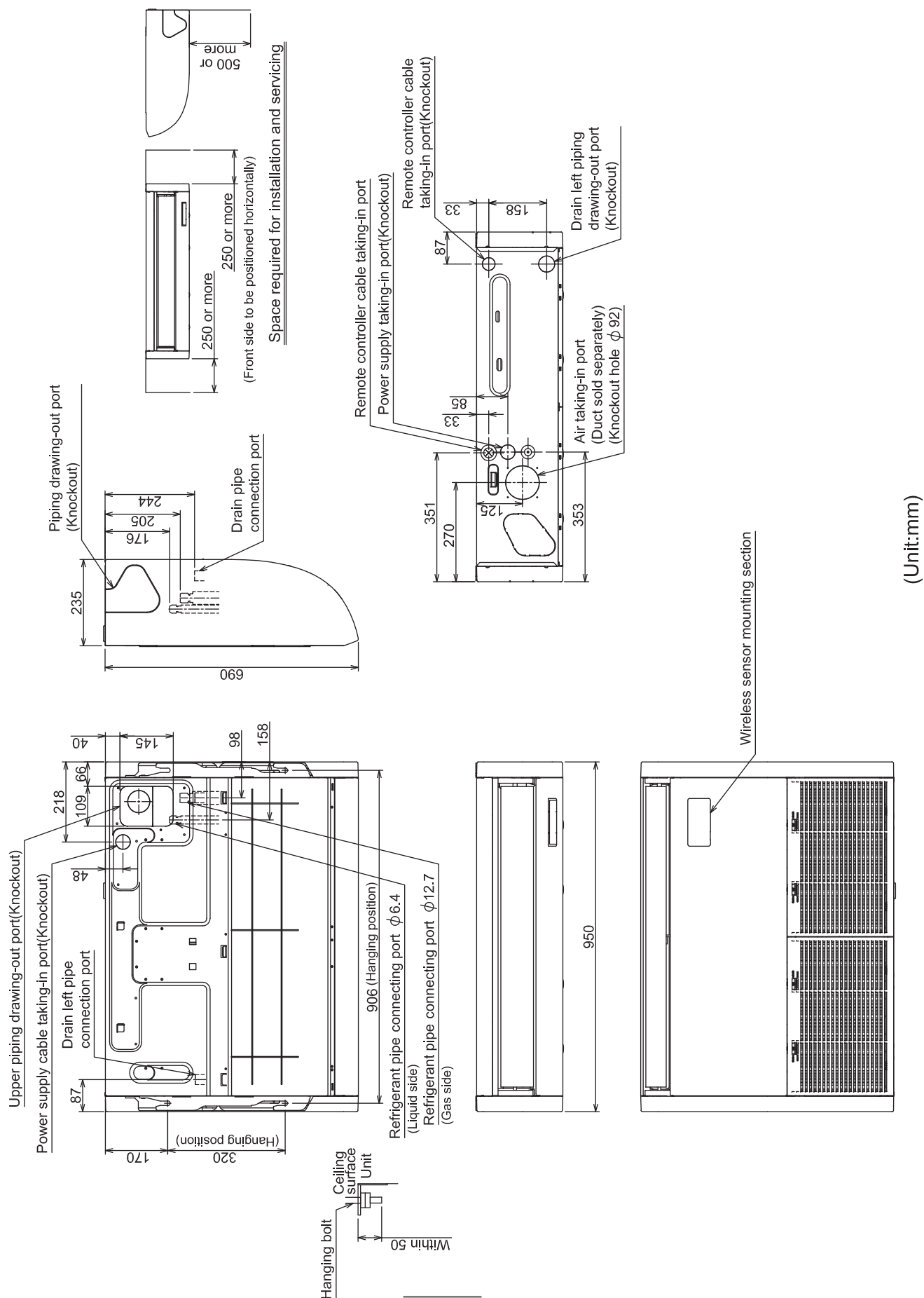
Under ceiling type

Model	Indoor unit		RAV-HM	RAV-HM401CTP-E	RAV-HM561CTP-E / TR
	Outdoor unit			RAV-GM402ATP-E	RAV-GM562ATP-E / TR
Cooling Capacity			(kW)	3.6	5.0
Heating Capacity			(kW)	4.0	5.3
Power Supply				1 phase 220V-240V, 50Hz	
Electrical Characteristics	Cooling	Running current	(A)	4.10 - 3.75	7.54 - 6.92
		Power consumption	(kW)	0.830	1.610
		Power factor	(%)	92	97
		EER		4.34	3.11
		SEER		7.20	6.00
		Energy star rating		A++	A+
	Heating	Running current	(A)	3.82 - 3.50	6.37 - 5.87
		Power consumption	(kW)	0.780	1.360
		Power factor	(%)	93	97
		COP		5.13	3.90
		SCOP		5.10	4.32
		Energy star rating		A+++	A+
Maximum current		(A)	9.2	15.5	
Appearance	Main unit		Zinc hot dipping steel plate		
Outer dimension	Main unit	Height	(mm)	235	235
		Width	(mm)	950	950
		Depth	(mm)	690	690
Total weight	Main unit		(kg)	23	23
Heat exchanger			Finned tube		
Fan unit	Fan		Centrifugal fan (multi blade)		
	Standard air flow	H/M/L	(m³/min)	15.0/12.0/9.0	15.0/12.0/9.0
	Motor		(W)	94	94
Air filter			Standard filter attached (long life filter)		
Controller (packed with indoor unit)			-		
Controller (sold separately)			RBC-ASCU11-E, RBC-AMT32E, RBC-AS21E2, RBC-AMS41E, RBC-AMS51E		
Sound pressure level		H/M/L	(dB-A)	37/35/28	37/35/28
Sound power level		H/M/L	(dB-A)	52/50/43	52/50/43
Connecting pipe	Gas side		(mm)	12.7	12.7
	Liquid side		(mm)	6.4	6.4
	Drain port		(mm)	VP20	

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB / 19 °C WB, Outdoor air temperature 35 °C DB

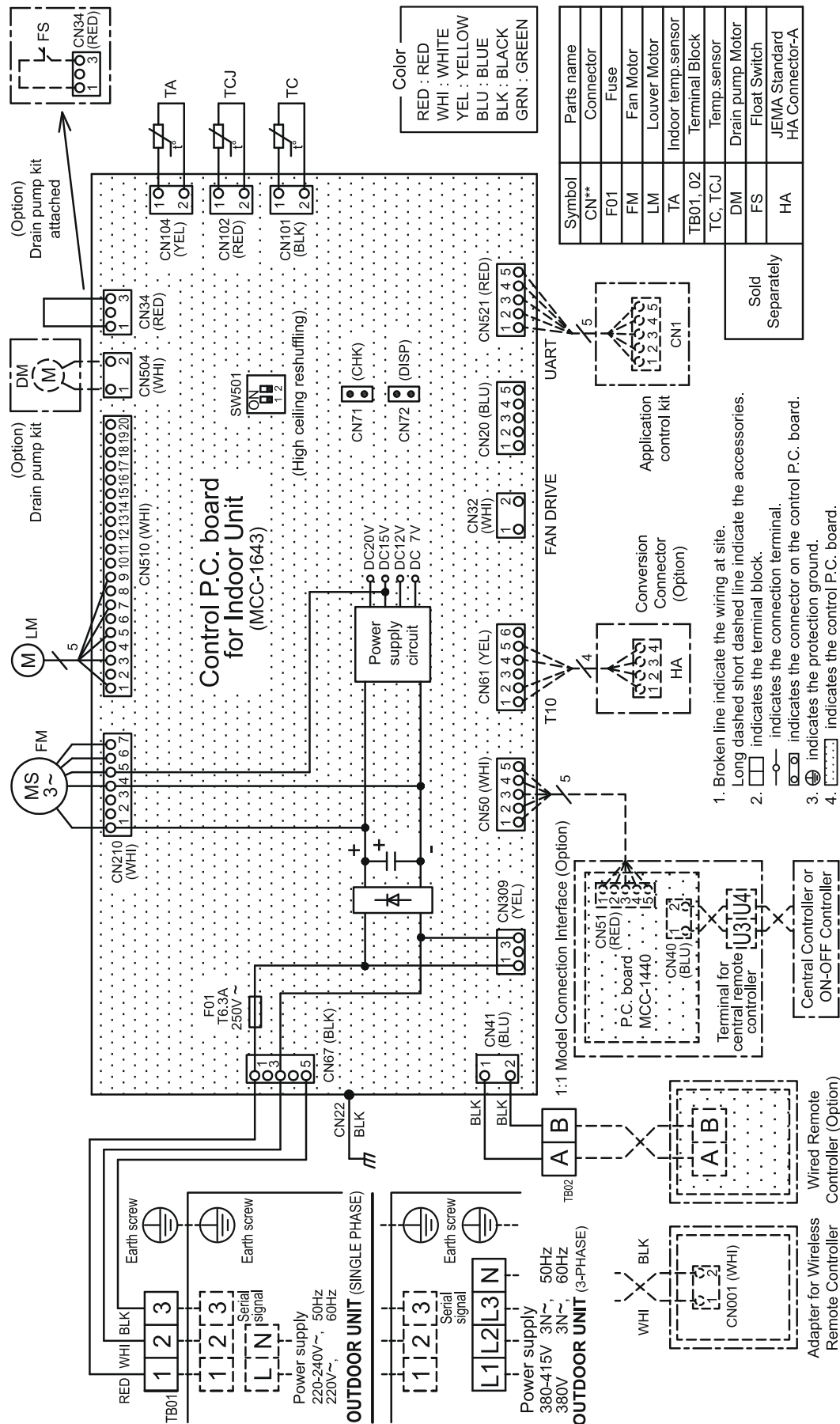
Heating : Indoor air temperature 20 °C DB, Outdoor air temperature 7 °C DB / 6 °C WB

2-4-2. Dimension

RAV-HM401CTP-E**RAV-HM561CTP-E / TR**

2-4-3. Wiring diagrams

RAV-HM561CTP-E / TR



2-4-4. Sensible Capacity Table

Product models : RAV-HM401CTP-E ; RAV-GM402ATP-E

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	3.60 kW
Sensible Heat Capacity (SHC)	2.90 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	3.91	3.38	4.04	3.46	4.31	3.61	4.42	3.68	4.62	3.84	4.76	3.83	4.89	3.83	5.18	3.80	5.42	3.72
12.0	3.83	3.32	3.96	3.39	4.23	3.54	4.33	3.61	4.53	3.76	4.66	3.76	4.80	3.75	5.08	3.72	5.31	3.65
14.0	3.75	3.25	3.88	3.33	4.15	3.47	4.24	3.54	4.44	3.69	4.57	3.68	4.70	3.68	4.98	3.65	5.21	3.58
16.0	3.68	3.19	3.81	3.26	4.06	3.40	4.16	3.47	4.35	3.61	4.48	3.61	4.61	3.61	4.88	3.57	5.10	3.51
18.0	3.60	3.12	3.73	3.19	3.98	3.33	4.07	3.40	4.26	3.54	4.39	3.53	4.51	3.53	4.78	3.50	5.00	3.43
20.0	3.53	3.06	3.65	3.13	3.89	3.26	3.99	3.33	4.17	3.46	4.29	3.46	4.42	3.46	4.68	3.43	4.89	3.36
21.0	3.49	3.02	3.61	3.09	3.85	3.22	3.94	3.29	4.13	3.43	4.25	3.42	4.37	3.42	4.63	3.39	4.84	3.33
23.0	3.41	2.96	3.53	3.02	3.77	3.15	3.86	3.22	4.04	3.35	4.15	3.35	4.27	3.35	4.53	3.32	4.73	3.25
25.0	3.34	2.89	3.45	2.96	3.68	3.08	3.77	3.15	3.95	3.28	4.06	3.27	4.18	3.27	4.42	3.24	4.63	3.18
27.0	3.26	2.82	3.37	2.89	3.60	3.01	3.69	3.08	3.86	3.20	3.97	3.20	4.08	3.20	4.32	3.17	4.52	3.11
29.0	3.18	2.76	3.30	2.82	3.52	2.94	3.60	3.00	3.77	3.13	3.88	3.12	3.99	3.12	4.22	3.09	4.42	3.04
31.0	3.11	2.69	3.22	2.76	3.43	2.87	3.51	2.93	3.68	3.05	3.78	3.05	3.89	3.05	4.12	3.02	4.31	2.96
33.0	3.03	2.63	3.14	2.69	3.35	2.80	3.43	2.86	3.59	2.98	3.69	2.97	3.80	2.97	4.02	2.95	4.21	2.89
35.0	2.96	2.56	3.06	2.62	3.27	2.73	3.34	2.79	3.50	2.90	3.60	2.90	3.70	2.90	3.92	2.87	4.10	2.82
37.0	2.88	2.50	2.98	2.55	3.18	2.66	3.26	2.72	3.41	2.83	3.51	2.83	3.61	2.82	3.82	2.80	4.00	2.75
39.0	2.81	2.43	2.90	2.49	3.10	2.59	3.17	2.65	3.32	2.76	3.42	2.75	3.51	2.75	3.72	2.73	3.89	2.67
40.0	2.77	2.40	2.86	2.45	3.06	2.56	3.13	2.61	3.27	2.72	3.37	2.71	3.47	2.71	3.67	2.69	3.84	2.64
42.0	2.69	2.33	2.79	2.39	2.97	2.49	3.04	2.54	3.18	2.64	3.28	2.64	3.37	2.64	3.57	2.62	3.73	2.57
43.0	2.65	2.30	2.75	2.35	2.93	2.45	3.00	2.50	3.14	2.61	3.23	2.60	3.32	2.60	3.52	2.58	3.68	2.53
45.0	2.58	2.23	2.67	2.28	2.85	2.38	2.91	2.43	3.05	2.53	3.14	2.53	3.23	2.53	3.42	2.50	3.58	2.46
46.0	2.54	2.20	2.63	2.25	2.80	2.35	2.87	2.40	3.00	2.49	3.09	2.49	3.18	2.49	3.37	2.47	3.52	2.42

Product models : RAV-HM561CTP-E / TR ; RAV-GM562ATP-E / TR

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	3.80 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.45	5.61	4.55	5.99	4.74	6.13	4.84	6.42	5.04	6.60	5.02	6.79	5.01	7.19	4.94	7.52	4.83
12.0	5.32	4.37	5.50	4.46	5.87	4.65	6.01	4.74	6.29	4.94	6.48	4.92	6.66	4.91	7.05	4.85	7.38	4.74
14.0	5.21	4.28	5.40	4.37	5.76	4.55	5.89	4.65	6.17	4.84	6.35	4.82	6.53	4.81	6.91	4.75	7.23	4.64
16.0	5.11	4.19	5.29	4.29	5.64	4.46	5.78	4.56	6.04	4.74	6.22	4.73	6.40	4.72	6.77	4.66	7.09	4.55
18.0	5.00	4.11	5.18	4.20	5.52	4.37	5.66	4.46	5.92	4.64	6.09	4.63	6.27	4.62	6.63	4.56	6.94	4.45
20.0	4.90	4.02	5.07	4.11	5.41	4.28	5.54	4.37	5.79	4.55	5.96	4.53	6.13	4.52	6.49	4.46	6.79	4.36
21.0	4.84	3.98	5.01	4.07	5.35	4.23	5.48	4.32	5.73	4.50	5.90	4.48	6.07	4.47	6.43	4.42	6.72	4.31
23.0	4.74	3.89	4.90	3.98	5.23	4.14	5.36	4.23	5.60	4.40	5.77	4.39	5.94	4.38	6.29	4.32	6.57	4.22
25.0	4.63	3.80	4.80	3.89	5.12	4.05	5.24	4.13	5.48	4.30	5.64	4.29	5.80	4.28	6.15	4.22	6.43	4.13
27.0	4.53	3.72	4.69	3.80	5.00	3.96	5.12	4.04	5.36	4.20	5.51	4.19	5.67	4.18	6.01	4.13	6.28	4.03
29.0	4.42	3.63	4.58	3.71	4.88	3.86	5.00	3.95	5.23	4.11	5.39	4.09	5.54	4.08	5.87	4.03	6.14	3.94
31.0	4.32	3.54	4.47	3.62	4.77	3.77	4.88	3.85	5.11	4.01	5.26	4.00	5.41	3.99	5.73	3.93	5.99	3.84
33.0	4.21	3.46	4.36	3.53	4.65	3.68	4.76	3.76	4.98	3.91	5.13	3.90	5.28	3.89	5.59	3.84	5.84	3.75
35.0	4.11	3.37	4.25	3.45	4.54	3.59	4.64	3.66	4.86	3.81	5.00	3.80	5.14	3.79	5.45	3.74	5.70	3.66
37.0	4.00	3.28	4.14	3.36	4.42	3.50	4.52	3.57	4.73	3.71	4.87	3.70	5.01	3.69	5.31	3.65	5.55	3.56
39.0	3.90	3.20	4.03	3.27	4.30	3.40	4.40	3.48	4.61	3.62	4.74	3.60	4.88	3.60	5.17	3.55	5.40	3.47
40.0	3.41	2.80	3.53	2.87	3.77	2.98	3.86	3.05	4.04	3.17	4.16	3.16	4.28	3.15	4.53	3.11	4.74	3.04
42.0	3.24	2.66	3.36	2.72	3.58	2.83	3.67	2.89	3.83	3.01	3.95	3.00	4.06	2.99	4.30	2.96	4.50	2.89
43.0	3.16	2.59	3.27	2.65	3.49	2.76	3.57	2.82	3.73	2.93	3.84	2.92	3.95	2.91	4.19	2.88	4.38	2.81
45.0	2.52	2.07	2.61	2.11	2.78	2.20	2.85	2.25	2.98	2.34	3.07	2.33	3.16	2.33	3.34	2.30	3.50	2.24
46.0	2.43	2.00	2.52	2.04	2.69	2.13	2.75	2.17	2.88	2.26	2.96	2.25	3.05	2.25	3.23	2.22	3.38	2.17

2-4-5. Part load performance

Indoor units : RAV-HM401CTP-E

Outdoor unit : RAV-GM402ATP-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	900	180	800	140
RATING	W	3600	830	4000	780
MAXIMUM	W	4000	2000	5000	1700

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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	4293	652	3864	584	3434	515	3005	447	2576	379	2147	311	1717	243	1288	175	1073	141	1073	141
21	4247	663	3822	594	3397	525	2973	456	2548	386	2123	317	1699	248	1274	179	1062	144	1062	144
22	4201	675	3781	605	3360	534	2940	464	2520	393	2100	323	1680	252	1260	182	1050	146	1050	146
23	4154	687	3739	615	3324	544	2908	472	2493	400	2077	328	1662	257	1246	185	1039	149	1039	149
24	4108	699	3697	626	3287	553	2876	480	2465	407	2054	334	1643	261	1232	188	1027	152	1027	152
25	4062	711	3656	637	3250	563	2843	488	2437	414	2031	340	1625	266	1219	191	1016	154	1016	154
26	4016	723	3614	647	3213	572	2811	496	2409	421	2008	345	1606	270	1205	195	1004	157	1004	157
27	3970	735	3573	658	3176	581	2779	505	2382	428	1985	351	1588	274	1191	198	992	159	992	159
28	3923	747	3531	669	3139	591	2746	513	2354	435	1962	357	1569	279	1177	201	981	162	981	162
29	3877	759	3489	679	3102	600	2714	521	2326	442	1939	363	1551	283	1163	204	969	165	969	165
30	3831	771	3448	690	3065	610	2682	529	2299	449	1916	368	1532	288	1149	207	958	167	958	167
31	3785	782	3406	701	3028	619	2649	537	2271	456	1892	374	1514	292	1135	211	946	170	946	170
32	3739	794	3365	711	2991	628	2617	545	2243	463	1869	380	1495	297	1122	214	935	172	935	172
33	3692	806	3323	722	2954	638	2585	554	2215	469	1846	385	1477	301	1108	217	923	175	923	175
34	3646	818	3282	733	2917	647	2552	562	2188	476	1823	391	1458	306	1094	220	912	177	912	177
35	3600	830	3240	743	2880	657	2520	570	2160	483	1800	397	1440	310	1080	223	900	180	900	180
36	3554	842	3198	754	2843	666	2488	578	2132	490	1777	402	1422	314	1066	227	888	183	888	183
37	3508	854	3157	765	2806	675	2455	586	2105	497	1754	408	1403	319	1052	230	877	185	877	185
38	3461	866	3115	775	2769	685	2423	595	2077	504	1731	414	1385	323	1038	233	865	188	865	188
39	3415	878	3074	786	2732	694	2391	603	2049	511	1708	419	1366	328	1025	236	854	190	854	190
40	3369	889	3032	797	2695	704	2358	611	2021	518	1685	425	1348	332	1011	239	842	193	842	193
41	3323	901	2991	807	2658	713	2326	619	1994	525	1661	431	1329	337	997	243	831	195	831	195
42	3277	913	2949	818	2621	723	2294	627	1966	532	1638	436	1311	341	983	246	819	198	819	198
43	3230	925	2907	829	2584	732	2261	635	1938	539	1615	442	1292	346	969	249	808	201	808	201
44	3184	937	2866	839	2547	741	2229	644	1911	546	1592	448	1274	350	955	252	796	203	796	203
45	3138	949	2824	850	2510	751	2197	652	1883	553	1569	454	1255	354	941	255	785	206	785	206
46	3092	961	2783	861	2473	760	2164	660	1855	560	1546	459	1237	359	928	259	773	208	773	208

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	2070	375	1863	337	1656	298	1449	260	1242	221	1035	183	828	144	621	106	414	67	414	67
-14	2122	403	1910	362	1698	321	1486	279	1273	238	1061	196	849	155	637	114	424	72	424	72
-13	2174	431	1957	387	1739	343	1522	299	1304	254	1087	210	870	166	652	122	435	77	435	77
-12	2226	460	2003	412	1781	365	1558	318	1335	271	1113	224	890	177	668	130	445	82	445	82
-11	2277	488	2050	438	1822	388	1594	338	1366	288	1139	238	911	188	683	138	455	88	455	88
-10	2329	516	2096	463	1863	410	1630	357	1398	304	1165	251	932	198	699	145	466	93	466	93
-9	2381	544	2143	488	1905	432	1667	377	1429	321	1190	265	952	209	714	153	476	98	476	98
-8	2433	572	2189	513	1946	455	1703	396	1460	337	1216	279	973	220	730	161	487	103	487	103
-7	2484	600	2236	539	1988	477	1739	416	1491	354	1242	292	994	231	745	169	497	108	497	108
-6	2530	610	2277	548	2024	485	1771	422	1518	360	1265	297	1012	235	759	172	506	110	506	110
-5	2576	620	2319	557	2061	493	1804	429	1546	366	1288	302	1031	239	773	175	515	111	515	111
-4	2622	630	2360	566	2098	501	1836	436	1573	372	1311	307	1049	242	787	178	524	113	524	113
-3	2669	640	2402	575	2135	509	1868	443	1601	378	1334	312	1067	246	801	181	534	115	534	115
-2	2715	650	2443	584	2172	517	1900	450	1629	383	1357	317	1086	250	814	183	543	117	543	117
-1	2761	660	2484	593	2208	525	1932	457	1656	389	1380	322	1104	254	828	186	552	119	552	119
0	2807	670	2526	602	2245	533	1965	464	1684	395	1403	327	1123	258	842	189	561	120	561	120
1	2853	680	2567	610	2282	541	1997	471	1712	401	1426	331	1141	262	856	192	571	122	571	122
2	2899	690	2609	619	2319	549	2029	478	1739	407	1449	336	1159	265	870	195	580	124	580	124
3	2946	700	2651	628	2357	556	2062	484	1768	413	1473	341	1178	269	884	197	589	126	589	126
4	2994	709	2694	636	2395	563	2095	491	1796	418	1497	345	1197	273	898	200	599	127	599	127
5	3041	718	2737	644	2433	571	2129	497	1825	424	1520	350	1216	276	912	203	608	129	608	129
6	3087	728	2779	652	2471	579	2162	504	1854	431	1543	354	1235	280	926	206	617	131	617	131
7	4000	780	3600	700	3200	620	2800	540	2400	460	2000	380	1600	300	1200	220	800	140	800	140
8	4103	792	3693	711	3283	630	2872	548	2462	467	2052	386	1641	305	1231	223	821	142	821	142
9	4206	804	3786	722	3365	639	2945	557	2524	474	2103	392	1683	309	1262	227	841	144	841	144
10	4310	816	3879	733	3448	649	3017	565	2586	481	2155	398	1724	314	1293	230	862	147	862	147
11	4413	828	3972	743	3530	658	3089	573	2648	488	2206	404	1765	319	1324	234	883	149	883	149
12	4516	840	4065	754	3613	668	3161	582	2710	496	2258	409	1806	323	1355	237	903	151	903	151
13	4619	852	4157	765	3695	678	3234	590	2772	503	2310	415	1848	328	1386	240	924	153	924	153
14	4723	865	4250	776	3778	687	3306	599	2834	510	2361	421	1889	333	1417	244	945	155	945	155
15	4826	877	4343	787	3861	697	3378	607	2895	517	2413	427	1930	337	1448	247	965	157	965	157
16	4929	889	4436	798	3943	706	3450	615	2957	524	2465	433	1972	342	1479	251	986	160	986	160
17	5032	901	4529	808	4026	716	3523	624	3019	531	2516	439	2013	346	1510	254	1006	162	1006	162
18	5135	913	4622	819	4108	726	3595	632	3081	538	2568	445	2054	351	1541	257	1027	164	1027	164
19	5239	925	4715	830	4191	735	3667	640	3143	545	2619	451	2095	356	1572	261	1048	166	1048	166
20	5342	937	4808	841	4274	745	3739	649	3205	553	2671	456	2137	360	1603	264	1068	168	1068	168
21	5445	949	4901	852	4356	754	3812	657	3267	560	2723	462	2178	365	1634	268	1089	170	1089	170
22	5548	961	4994	863	4439	764	3884	665	3329	567	2774	468	2219	370	1665	271	1110	173	1110	173
23	5652	973	5086	873	4521	774	3956	674	3391	574	2826	474	2261	374	1695	275	1130	175	1130	175
24	5755	985	5179	884	4604	783	4028	682	3453	581	2877	480	2302	379	1726	278	1151	177	1151	177

Indoor units : RAV-HM561CTP-E / TR

Outdoor unit : RAV-GM562ATP-E / TR

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	1500	290	1500	290
RATING	W	5000	1610	5300	1360
MAXIMUM	W	5600	1950	6300	2400

Cooling

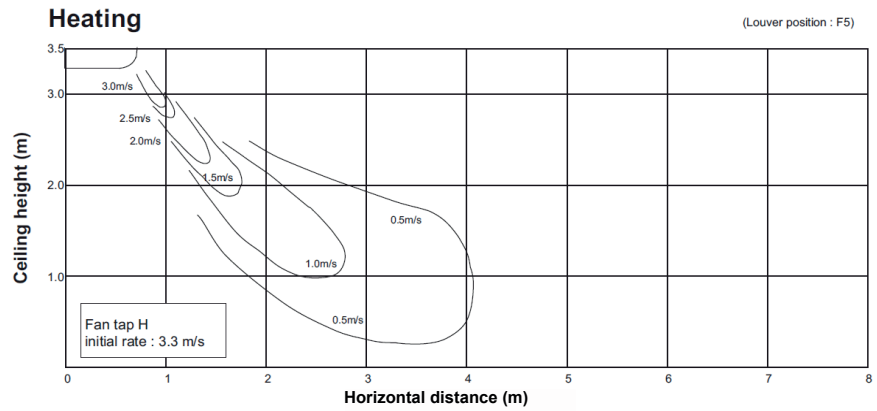
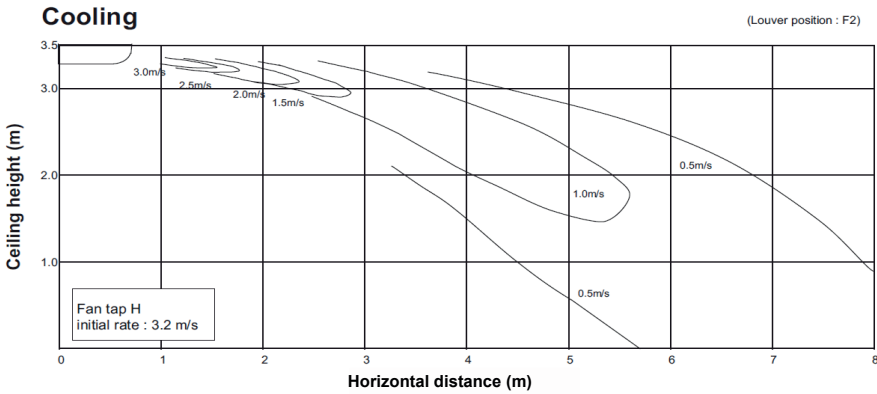
Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	5963	1264	5366	1116	4770	968	4174	820	3578	672	2981	524	2385	376	1789	228
21	5898	1287	5309	1136	4719	985	4129	835	3539	684	2949	533	2359	383	1770	232
22	5834	1310	5251	1157	4667	1003	4084	850	3501	696	2917	543	2334	389	1750	236
23	5770	1333	5193	1177	4616	1021	4039	865	3462	709	2885	552	2308	396	1731	240
24	5706	1356	5135	1197	4565	1038	3994	880	3424	721	2853	562	2282	403	1712	244
25	5642	1379	5078	1218	4513	1056	3949	895	3385	733	2821	572	2257	410	1693	248
26	5578	1402	5020	1238	4462	1074	3904	910	3347	745	2789	581	2231	417	1673	253
27	5513	1425	4962	1258	4411	1091	3859	925	3308	758	2757	591	2205	424	1654	257
28	5449	1448	4904	1279	4360	1109	3814	940	3270	770	2725	600	2180	431	1635	261
29	5385	1472	4847	1299	4308	1127	3770	954	3231	782	2693	610	2154	437	1616	265
30	5321	1495	4789	1320	4257	1145	3725	969	3193	794	2660	619	2128	444	1596	269
31	5257	1518	4731	1340	4205	1162	3680	984	3154	807	2628	629	2103	451	1577	273
32	5193	1541	4673	1360	4154	1180	3635	999	3116	819	2596	638	2077	458	1558	278
33	5128	1564	4616	1381	4103	1198	3590	1014	3077	831	2564	648	2051	465	1539	282
34	5064	1587	4558	1401	4051	1215	3545	1029	3039	843	2532	658	2026	472	1519	286
35	5000	1610	4500	1421	4000	1233	3500	1044	3000	856	2500	667	2000	479	1500	290
36	4936	1633	4442	1442	3949	1251	3455	1059	2962	868	2468	677	1974	485	1481	294
37	4872	1656	4385	1462	3897	1268	3410	1074	2923	880	2436	686	1949	492	1462	298
38	4808	1679	4327	1483	3846	1286	3365	1089	2885	893	2404	696	1923	499	1442	302
39	4743	1702	4269	1503	3795	1304	3320	1104	2846	905	2372	705	1897	506	1423	307
40	4158	1430	3742	1262	3326	1095	2910	927	2495	760	2079	592	1663	425	1247	258
41	4053	1430	3647	1262	3242	1095	2837	927	2432	760	2026	592	1621	425	1216	258
42	3948	1430	3553	1262	3158	1095	2763	927	2369	760	1974	592	1579	425	1184	258
43	3843	1430	3459	1262	3074	1095	2690	927	2306	760	1921	592	1537	425	1153	258
44	3738	1430	3364	1262	2990	1095	2617	927	2243	760	1869	592	1495	425	1121	258
45	3068	1110	2761	980	2455	850	2148	720	1841	590	1534	460	1227	330	920	200
46	2963	1110	2667	980	2371	850	2074	720	1778	590	1482	460	1185	330	889	200

Heating

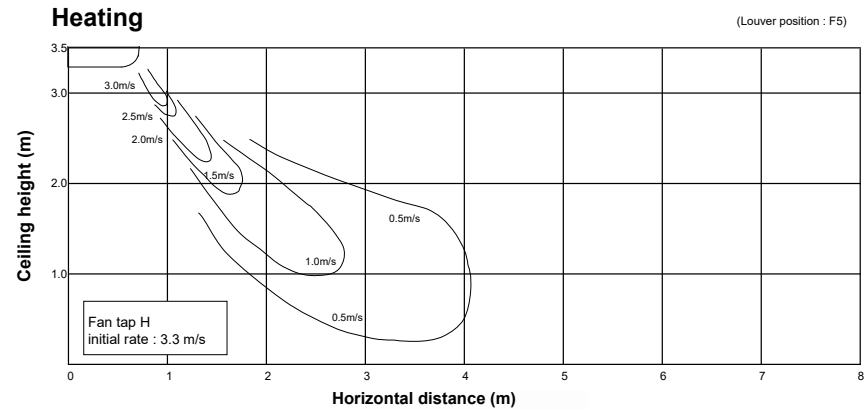
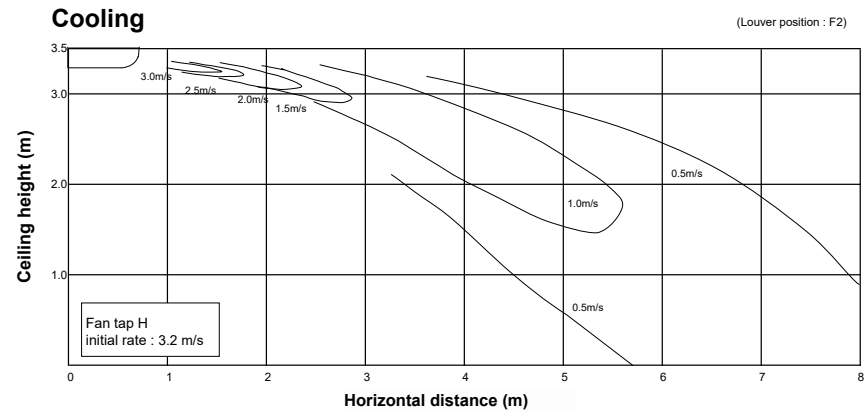
Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	2736	501	2462	446	2189	391	1915	336	1642	281	1368	226	1094	171	821	116
-14	2794	539	2515	480	2235	421	1956	362	1676	302	1397	243	1118	184	838	125
-13	2852	577	2567	513	2282	450	1996	387	1711	324	1426	260	1141	197	856	134
-12	2910	614	2619	547	2328	479	2037	412	1746	345	1455	277	1164	210	873	142
-11	2968	652	2671	580	2375	509	2078	437	1781	366	1484	294	1187	223	890	151
-10	3026	690	2724	614	2421	538	2118	463	1816	387	1513	311	1211	236	908	160
-9	3084	727	2776	647	2467	568	2159	488	1851	408	1542	328	1234	248	925	169
-8	3142	765	2828	681	2514	597	2200	513	1885	429	1571	345	1257	261	943	177
-7	3200	802	2880	714	2560	626	2240	538	1920	450	1600	362	1280	274	960	186
-6	3272	847	2944	754	2617	661	2290	568	1963	475	1636	382	1309	289	981	196
-5	3343	892	3008	794	2674	696	2340	598	2006	500	1671	402	1337	305	1003	207
-4	3414	936	3072	833	2731	731	2390	628	2048	525	1707	422	1366	320	1024	217
-3	3485	981	3136	873	2788	765	2439	658	2091	550	1742	443	1394	335	1045	227
-2	3556	1025	3200	913	2845	800	2489	688	2134	575	1778	463	1422	350	1067	238
-1	3627	1070	3264	952	2902	835	2539	718	2176	600	1814	483	1451	365	1088	248
0	3698	1114	3329	992	2959	870	2589	748	2219	625	1849	503	1479	381	1110	258
1	3769	1159	3393	1032	3016	905	2639	777	2262	650	1885	523	1508	396	1131	269
2	3841	1204	3457	1071	3072	939	2688	807	2304	675	1920	543	1536	411	1152	279
3	3903	1220	3513	1086	3123	952	2732	818	2342	684	1952	551	1561	417	1171	283
4	3966	1236	3570	1100	3173	965	2776	829	2380	693	1983	558	1587	422	1190	287
5	4029	1252	3626	1115	3223	977	2821	840	2418	703	2015	565	1612	428	1209	290
6	4092	1269	3682	1130	3273	990	2865	851	2456	713	2047	572	1638	433	1228	293
7	5300	1360	4770	1211	4240	1062	3710	912	3180	763	2650	614	2120	465	1590	315
8	5437	1381	4893	1230	4349	1078	3806	926	3262	775	2718	623	2175	472	1631	320
9	5574	1402	5016	1248	4459	1094	3901	941	3344	787	2787	633	2229	479	1672	325
10	5710	1423	5139	1267	4568	1111	3997	955	3426	798	2855	642	2284	486	1713	330
11	5847	1444	5262	1286	4678	1127	4093	969	3508	810	2924	652	2339	493	1754	335
12	5984	1465	5385	1304	4787	1144	4189	983	3590	822	2992	661	2394	501	1795	340
13	6121	1486	5509	1323	4897	1160	4284	997	3672	834	3060	671	2448	508	1836	345
14	6257	1507	5632	1342	5006	1177	4380	1011	3754	846	3129	680	2503	515	1877	350
15	6394	1528	5755	1361	5115	1193	4476	1025	3837	858	3197	690	2558	522	1918	354
16	6531	1550	5878	1379	5225	1209	4572	1039	3919	869	3265	699	2612	529	1959	359
17	6668	1571	6001	1398	5334	1226	4667	1054	4001	881	3334	709	2667	537	2000	364
18	6805	1592	6124	1417	5444	1242	4763	1068	4083	893	3402	718	2722	544	2041	369
19	6941	1613	6247	1436	5553	1259	4859	1082	4165	905	3471	728	2777	551	2082	374
20	7078	1634	6370	1454	5662	1275	4955	1096	4247	917	3539	737	2831	558	2123	379
21	7215	1655	6493	1473	5772	1292	5050	1110	4329	928	3607	747	2886	565	2164	384
22	7352	1676	6616	1492	5881	1308	5146	1124	4411	940	3676	756	2941	572	2205	389
23	7488	1697	6740	1511	5991	1325	5242	1138	4493	952	3744	766	2995	580	2247	393
24	7625	1718	6863	1529	6100	1341	5338	1152	4575	964	3813	775	3050	587	2288	398

2-4-6. Air Throw Distance Chart

RAV-HM401CTP-E

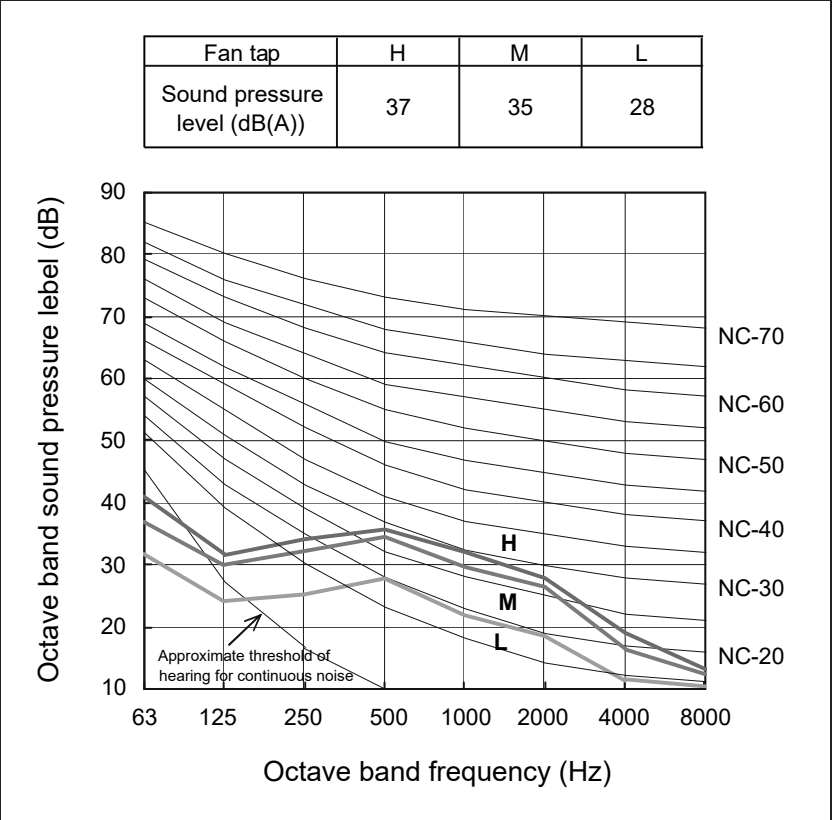


RAV-HM561CTP-E / TR

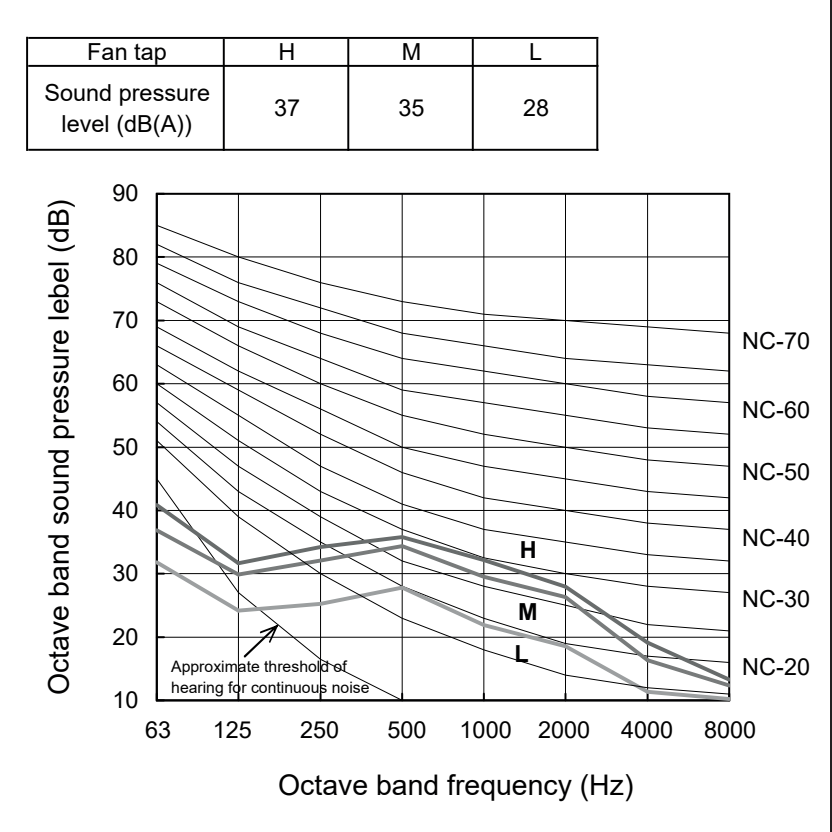


2-4-7. Sound Characteristics (NC curve)

RAV-HM401CTP-E



RAV-HM561CTP-E / TR



2-5. High Wall Type

2-5-1. Specifications

2-5-2. Dimension

2-5-3. Wiring Diagrams

2-5-4. Sensible Capacity Table

2-5-5. Part Load Performance

2-5-6. Air Throw Distance Chart

2-5-7. Sound Characteristics (NC Curve)

2-5-1. Specifications

High wall type

Model	Indoor unit		RAV-HM301KRTP-E	RAV-HM401KRTP-E	RAV-HM561KRTP-E / TR
	Outdoor unit		RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E / TR
Cooling capacity (kW)			2.5	3.6	5.0
Heating capacity (kW)			3.4	4.0	5.3
Power supply			1 phase 230V (220-240V) 50 Hz		
Electrical Characteristic	Cooling	Running current (A)	3.07 - 2.83	5.60 - 5.10	7.78 - 7.13
		Power consumption (kW)	0.61	1.13	1.66
		Power factor (%)	90	92	97
		EER	4.10	3.19	3.01
		SEER	7.00	6.70	6.69
		Energy efficiency class	A++	A++	A++
	Heating	Running current (A)	4.17 - 3.80	5.50 - 5.00	7.26 - 6.66
		Power consumption (kW)	0.85	1.12	1.55
		Power factor (%)	93	93	97
		COP	4.00	3.57	3.42
		SCOP	4.10	4.22	4.00
		Energy efficiency class	A+	A+	A+
Maximum Current (A)		7.90	9.20	15.50	
Appearance	Main unit		Moon white		
Outer dimension	Main unit	Height (mm)	293	293	320
		Widht (mm)	798	798	1050
		Depht (mm)	230	230	250
Total weight	Main unit (kg)		10	10	14
Heat exchanger			Finned tube		
Fan unit	Fan		Cross flow fan		
	Standard air flow	H/M/L (m³/min)	11.1 / 9.0 / 7.5	11.7 / 9.7 / 7.5	16.0 / 13.8 / 11.3
	Motor (W)		30	30	30
Air filter			Standard filter attached		
Controller (packed with indoor unit)			WH-TA08NE		
Controller (sold separately)			RBC-ASCU11-E, RBC-AMT32E, RBC-AS21E2, RBC-AMS41E, RBC-AMS55E		
Sound pressure level		H/M/L (dB A)	40 / 34 / 29	41 / 36 / 30	42 / 39 / 35
Sound power level		H/M/L (dB A)	55 / 49 / 44	56 / 51 / 45	57 / 54 / 50
Connecting pipe		Gas side (mm)	9.50	12.40	12.70
		Liquid side (mm)	6.40	6.40	6.40
		Drain port (mm)	VP16		

*1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

*2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

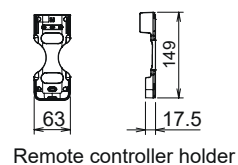
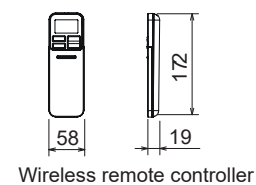
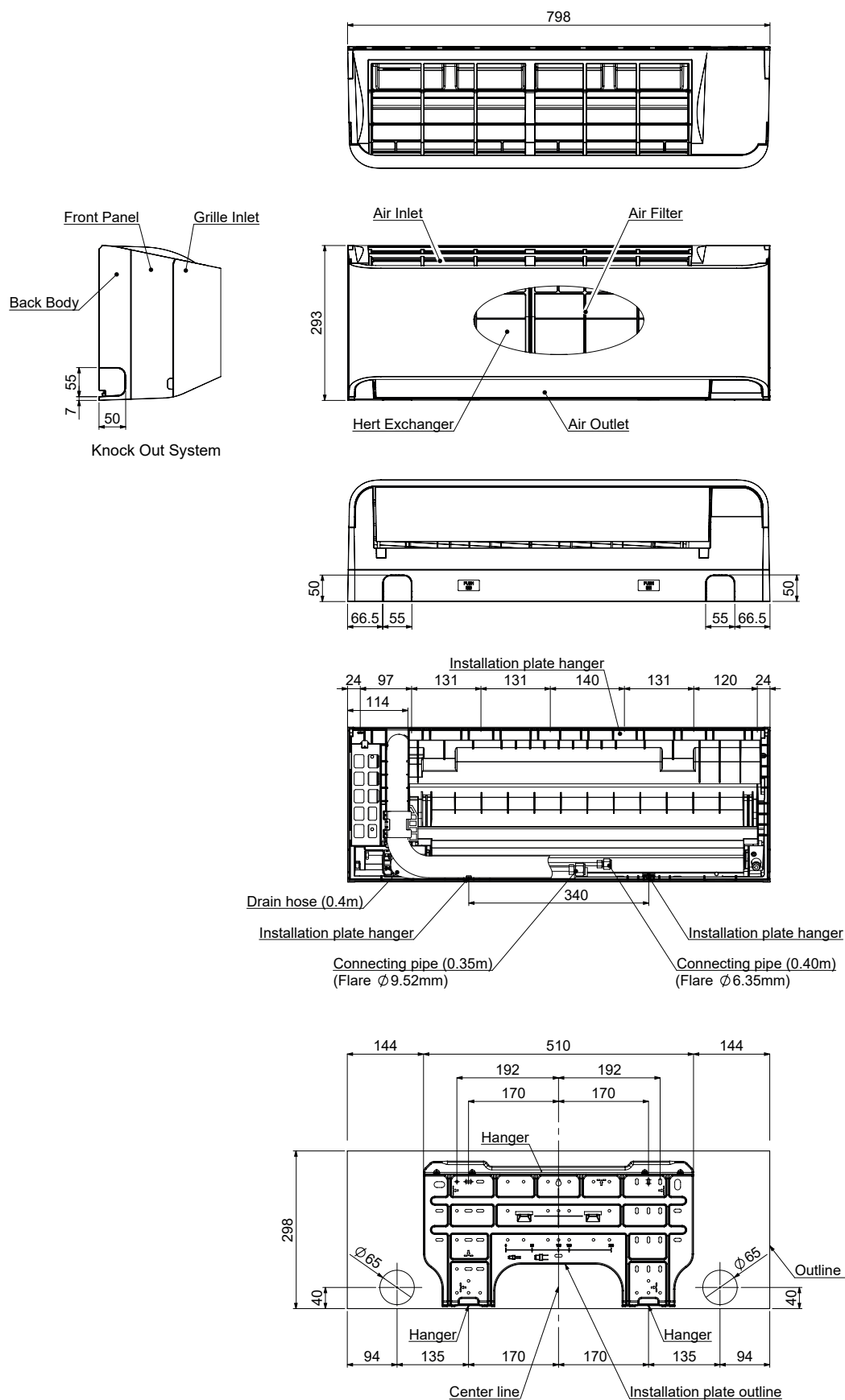
Note :

Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB

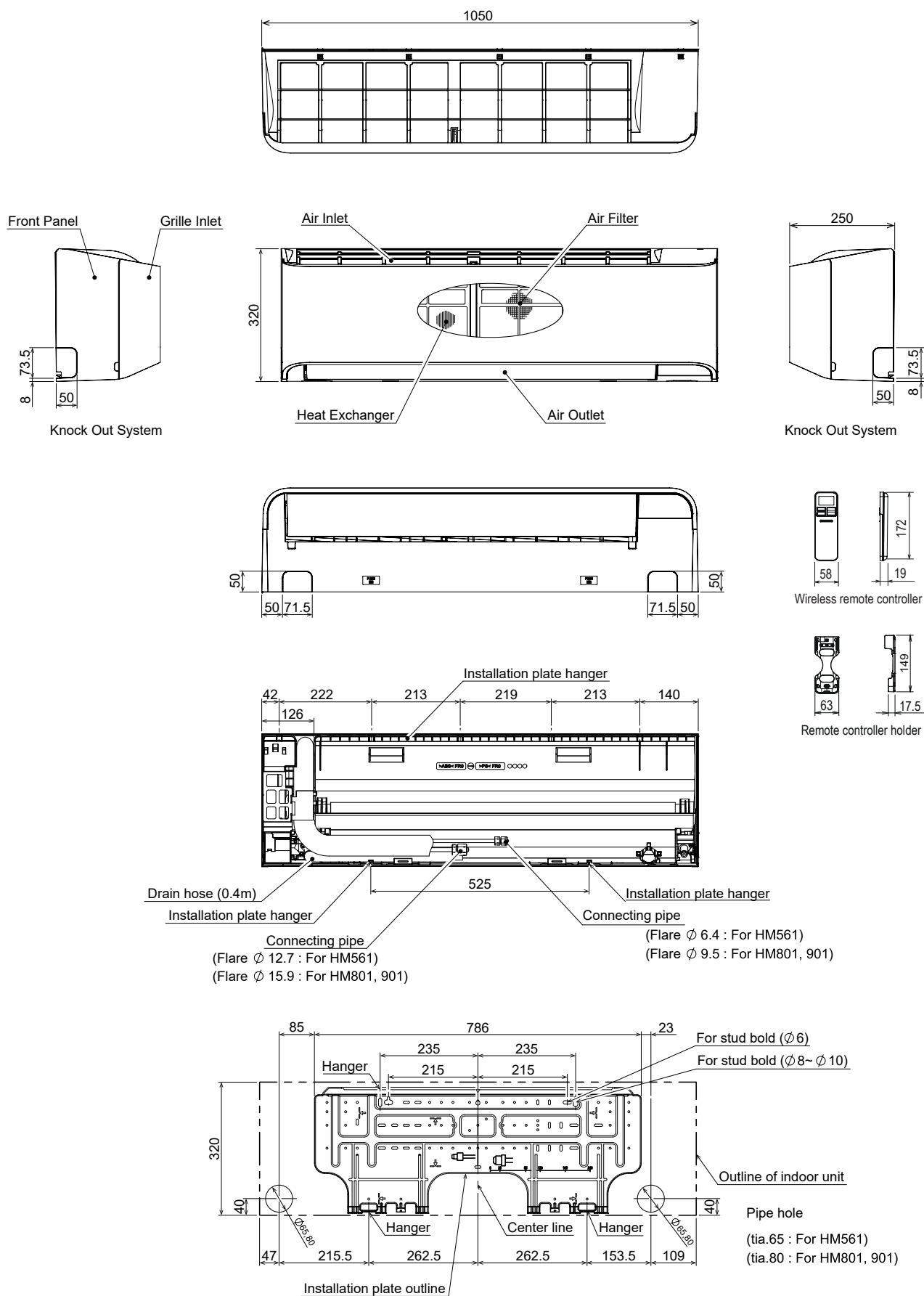
Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

2-5-2. Dimension

RAV-HM*_1KRTP-E (*30 / 40)

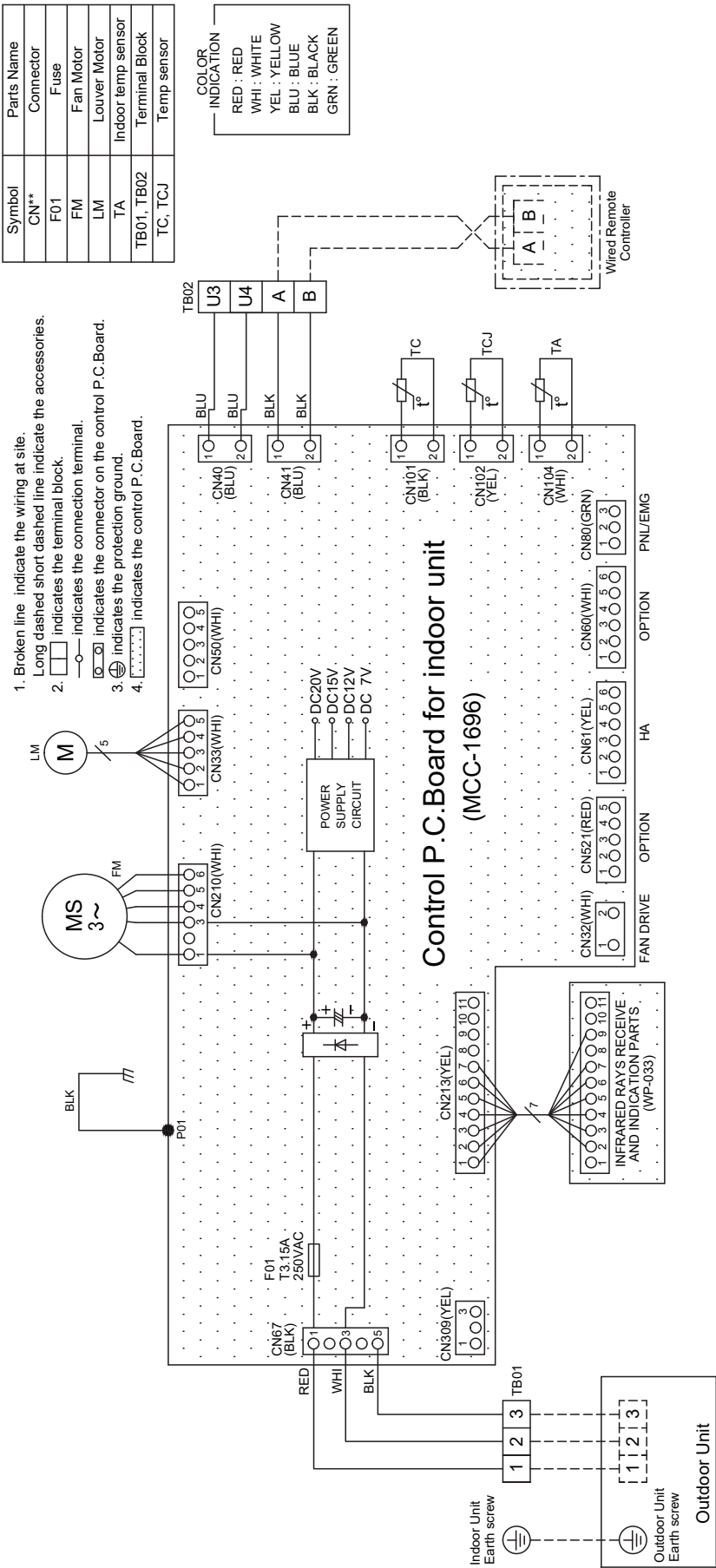


RAV-HM561KRTP-E / TR



2-5-3. Wiring diagrams

RAV-HM*_1KRTP-E (*30 / 40 / 56)



2-5-4. Sensible Capacity Table

Product models : RAV-HM301KRTP-E ; RAV-GM302ATP-E

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	2.50 kW
Sensible Heat Capacity (SHC)	2.00 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	2.71	2.33	2.81	2.39	3.00	2.49	3.07	2.54	3.21	2.65	3.30	2.64	3.40	2.64	3.60	2.62	3.76	2.57
12.0	2.66	2.29	2.75	2.34	2.94	2.44	3.01	2.49	3.15	2.59	3.24	2.59	3.33	2.59	3.53	2.56	3.69	2.52
14.0	2.61	2.24	2.70	2.30	2.88	2.39	2.95	2.44	3.08	2.54	3.17	2.54	3.26	2.54	3.46	2.51	3.62	2.47
16.0	2.55	2.20	2.64	2.25	2.82	2.34	2.89	2.39	3.02	2.49	3.11	2.49	3.20	2.49	3.39	2.46	3.54	2.42
18.0	2.50	2.15	2.59	2.20	2.76	2.30	2.83	2.34	2.96	2.44	3.05	2.44	3.13	2.43	3.32	2.41	3.47	2.37
20.0	2.45	2.11	2.53	2.16	2.70	2.25	2.77	2.29	2.90	2.39	2.98	2.39	3.07	2.38	3.25	2.36	3.40	2.32
21.0	2.42	2.09	2.51	2.13	2.68	2.22	2.74	2.27	2.86	2.36	2.95	2.36	3.03	2.36	3.21	2.34	3.36	2.29
23.0	2.37	2.04	2.45	2.09	2.62	2.17	2.68	2.22	2.80	2.31	2.89	2.31	2.97	2.31	3.14	2.29	3.29	2.24
25.0	2.32	1.99	2.40	2.04	2.56	2.13	2.62	2.17	2.74	2.26	2.82	2.26	2.90	2.26	3.07	2.23	3.21	2.19
27.0	2.26	1.95	2.34	1.99	2.50	2.08	2.56	2.12	2.68	2.21	2.76	2.21	2.84	2.20	3.00	2.18	3.14	2.14
29.0	2.21	1.90	2.29	1.95	2.44	2.03	2.50	2.07	2.62	2.16	2.69	2.15	2.77	2.15	2.93	2.13	3.07	2.09
31.0	2.16	1.86	2.23	1.90	2.38	1.98	2.44	2.02	2.55	2.11	2.63	2.10	2.70	2.10	2.86	2.08	2.99	2.04
33.0	2.11	1.81	2.18	1.85	2.33	1.93	2.38	1.97	2.49	2.05	2.56	2.05	2.64	2.05	2.79	2.03	2.92	1.99
35.0	2.05	1.77	2.12	1.81	2.27	1.88	2.32	1.92	2.43	2.00	2.50	2.00	2.57	2.00	2.72	1.98	2.85	1.94
37.0	2.00	1.72	2.07	1.76	2.21	1.84	2.26	1.88	2.37	1.95	2.44	1.95	2.51	1.95	2.65	1.93	2.78	1.89
39.0	1.95	1.68	2.02	1.72	2.15	1.79	2.20	1.83	2.30	1.90	2.37	1.90	2.44	1.90	2.58	1.88	2.70	1.84
40.0	1.92	1.65	1.99	1.69	2.12	1.76	2.17	1.80	2.27	1.87	2.34	1.87	2.41	1.87	2.55	1.85	2.67	1.82
42.0	1.87	1.61	1.93	1.65	2.06	1.72	2.11	1.75	2.21	1.82	2.28	1.82	2.34	1.82	2.48	1.80	2.59	1.77
43.0	1.84	1.59	1.91	1.62	2.03	1.69	2.08	1.73	2.18	1.80	2.24	1.79	2.31	1.79	2.44	1.78	2.56	1.74
45.0	1.79	1.54	1.85	1.58	1.98	1.64	2.02	1.68	2.12	1.75	2.18	1.74	2.24	1.74	2.37	1.73	2.48	1.69
46.0	1.76	1.52	1.82	1.55	1.95	1.62	1.99	1.65	2.09	1.72	2.15	1.72	2.21	1.72	2.34	1.70	2.45	1.67

Product models : RAV-HM401KRTP-E ; RAV-GM402ATP-E

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	3.60 kW
Sensible Heat Capacity (SHC)	2.70 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	3.91	3.17	4.04	3.24	4.31	3.37	4.42	3.44	4.62	3.58	4.76	3.57	4.89	3.56	5.18	3.51	5.42	3.42
12.0	3.83	3.11	3.96	3.17	4.23	3.30	4.33	3.37	4.53	3.51	4.66	3.50	4.80	3.49	5.08	3.44	5.31	3.36
14.0	3.75	3.04	3.88	3.11	4.15	3.24	4.24	3.31	4.44	3.44	4.57	3.43	4.70	3.42	4.98	3.37	5.21	3.29
16.0	3.68	2.98	3.81	3.05	4.06	3.17	4.16	3.24	4.35	3.37	4.48	3.36	4.61	3.35	4.88	3.30	5.10	3.22
18.0	3.60	2.92	3.73	2.99	3.98	3.11	4.07	3.17	4.26	3.30	4.39	3.29	4.51	3.28	4.78	3.23	5.00	3.16
20.0	3.53	2.86	3.65	2.92	3.89	3.04	3.99	3.11	4.17	3.23	4.29	3.22	4.42	3.21	4.68	3.17	4.89	3.09
21.0	3.49	2.83	3.61	2.89	3.85	3.01	3.94	3.07	4.13	3.20	4.25	3.19	4.37	3.18	4.63	3.13	4.84	3.06
23.0	3.41	2.77	3.53	2.83	3.77	2.94	3.86	3.01	4.04	3.13	4.15	3.12	4.27	3.11	4.53	3.06	4.73	2.99
25.0	3.34	2.71	3.45	2.77	3.68	2.88	3.77	2.94	3.95	3.06	4.06	3.05	4.18	3.04	4.42	3.00	4.63	2.92
27.0	3.26	2.64	3.37	2.70	3.60	2.81	3.69	2.87	3.86	2.99	3.97	2.98	4.08	2.97	4.32	2.93	4.52	2.86
29.0	3.18	2.58	3.30	2.64	3.52	2.75	3.60	2.80	3.77	2.92	3.88	2.91	3.99	2.90	4.22	2.86	4.42	2.79
31.0	3.11	2.52	3.22	2.58	3.43	2.68	3.51	2.74	3.68	2.85	3.78	2.84	3.89	2.83	4.12	2.79	4.31	2.72
33.0	3.03	2.46	3.14	2.51	3.35	2.62	3.43	2.67	3.59	2.78	3.69	2.77	3.80	2.76	4.02	2.72	4.21	2.66
35.0	2.96	2.40	3.06	2.45	3.27	2.55	3.34	2.60	3.50	2.71	3.60	2.70	3.70	2.69	3.92	2.66	4.10	2.59
37.0	2.88	2.34	2.98	2.39	3.18	2.48	3.26	2.54	3.41	2.64	3.51	2.63	3.61	2.62	3.82	2.59	4.00	2.53
39.0	2.81	2.27	2.90	2.32	3.10	2.42	3.17	2.47	3.32	2.57	3.42	2.56	3.51	2.55	3.72	2.52	3.89	2.46
40.0	2.77	2.24	2.86	2.29	3.06	2.39	3.13	2.44	3.27	2.54	3.37	2.53	3.47	2.52	3.67	2.49	3.84	2.43
42.0	2.69	2.18	2.79	2.23	2.97	2.32	3.04	2.37	3.18	2.47	3.28	2.46	3.37	2.45	3.57	2.42	3.73	2.36
43.0	2.65	2.15	2.75	2.20	2.93	2.29	3.00	2.34	3.14	2.43	3.23	2.42	3.32	2.42	3.52	2.38	3.68	2.33
45.0	2.58	2.09	2.67	2.14	2.85	2.22	2.91	2.27	3.05	2.36	3.14	2.35	3.23	2.35	3.42	2.31	3.58	2.26
46.0	2.54	2.06	2.63	2.10	2.80	2.19	2.87	2.24	3.00	2.33	3.09	2.32	3.18	2.31	3.37	2.28	3.52	2.23

Product models : RAV-HM561KRTP-E / TR ; RAV-GM562ATP-E / TR

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00 kW
Sensible Heat Capacity (SHC)	3.65 kW

	Indoor Air temperature																	
Outdoor air temp.	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.29	5.61	4.38	5.99	4.56	6.13	4.65	6.42	4.84	6.60	4.82	6.79	4.80	7.19	4.73	7.52	4.60
12.0	5.32	4.21	5.50	4.30	5.87	4.47	6.01	4.56	6.29	4.75	6.48	4.73	6.66	4.71	7.05	4.64	7.38	4.51
14.0	5.21	4.12	5.40	4.21	5.76	4.38	5.89	4.47	6.17	4.66	6.35	4.63	6.53	4.62	6.91	4.54	7.23	4.43
16.0	5.11	4.04	5.29	4.13	5.64	4.29	5.78	4.38	6.04	4.56	6.22	4.54	6.40	4.52	6.77	4.45	7.09	4.34
18.0	5.00	3.96	5.18	4.04	5.52	4.20	5.66	4.29	5.92	4.47	6.09	4.45	6.27	4.43	6.63	4.36	6.94	4.25
20.0	4.90	3.87	5.07	3.96	5.41	4.12	5.54	4.20	5.79	4.37	5.96	4.35	6.13	4.34	6.49	4.27	6.79	4.16
21.0	4.84	3.83	5.01	3.91	5.35	4.07	5.48	4.16	5.73	4.33	5.90	4.31	6.07	4.29	6.43	4.22	6.72	4.11
23.0	4.74	3.75	4.90	3.83	5.23	3.98	5.36	4.07	5.60	4.23	5.77	4.21	5.94	4.20	6.29	4.13	6.57	4.02
25.0	4.63	3.66	4.80	3.74	5.12	3.89	5.24	3.98	5.48	4.14	5.64	4.12	5.80	4.10	6.15	4.04	6.43	3.93
27.0	4.53	3.58	4.69	3.66	5.00	3.81	5.12	3.89	5.36	4.04	5.51	4.02	5.67	4.01	6.01	3.95	6.28	3.84
29.0	4.42	3.50	4.58	3.57	4.88	3.72	5.00	3.80	5.23	3.95	5.39	3.93	5.54	3.92	5.87	3.86	6.14	3.75
31.0	4.32	3.41	4.47	3.49	4.77	3.63	4.88	3.70	5.11	3.86	5.26	3.84	5.41	3.82	5.73	3.76	5.99	3.66
33.0	4.21	3.33	4.36	3.40	4.65	3.54	4.76	3.61	4.98	3.76	5.13	3.74	5.28	3.73	5.59	3.67	5.84	3.58
35.0	4.11	3.25	4.25	3.32	4.54	3.45	4.64	3.52	4.86	3.67	5.00	3.65	5.14	3.64	5.45	3.58	5.70	3.49
37.0	4.00	3.16	4.14	3.23	4.42	3.36	4.52	3.43	4.73	3.57	4.87	3.56	5.01	3.54	5.31	3.49	5.55	3.40
39.0	3.90	3.08	4.03	3.15	4.30	3.27	4.40	3.34	4.61	3.48	4.74	3.46	4.88	3.45	5.17	3.40	5.40	3.31
40.0	2.98	2.36	3.09	2.41	3.29	2.51	3.37	2.56	3.53	2.66	3.63	2.65	3.74	2.64	3.96	2.60	4.14	2.53
42.0	2.76	2.18	2.86	2.23	3.05	2.32	3.12	2.37	3.26	2.46	3.36	2.45	3.46	2.44	3.66	2.41	3.83	2.34
43.0	2.65	2.09	2.74	2.14	2.93	2.23	2.99	2.27	3.13	2.37	3.22	2.35	3.32	2.35	3.51	2.31	3.67	2.25
45.0	1.64	1.29	1.69	1.32	1.81	1.38	1.85	1.41	1.94	1.46	1.99	1.46	2.05	1.45	2.17	1.43	2.27	1.39
46.0	1.53	1.21	1.58	1.23	1.69	1.28	1.73	1.31	1.80	1.36	1.86	1.36	1.91	1.35	2.02	1.33	2.12	1.30

2-5-5. Part load performance

Indoor units : RAV-HM301K RTP-E
Outdoor unit : RAV-GM302ATP-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 900	170	800	170
RATING	W 2500	610	3400	850
MAXIMUM	W 3000	860	4500	1400

Cooling		Parts Load (%)																			
Outdoor Temperature DB (°C)		100		90		80		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		2981	479	2683	425	2385	371	2087	317	1789	263	1491	209	1193	155	1073	133	1073	133	1073	133
21		2949	488	2654	433	2359	378	2064	323	1770	268	1475	213	1180	158	1062	136	1062	136	1062	136
22		2917	496	2625	440	2334	384	2042	329	1750	273	1459	217	1167	161	1050	138	1050	138	1050	138
23		2885	505	2597	448	2308	391	2020	334	1731	277	1443	220	1154	164	1039	141	1039	141	1039	141
24		2853	514	2568	456	2282	398	1997	340	1712	282	1426	224	1141	166	1027	143	1027	143	1027	143
25		2821	523	2539	464	2257	405	1975	346	1693	287	1410	228	1128	169	1016	146	1016	146	1016	146
26		2789	531	2510	471	2231	412	1952	352	1673	292	1394	232	1116	172	1004	148	1004	148	1004	148
27		2757	540	2481	479	2205	418	1930	357	1654	297	1378	236	1103	175	992	151	992	151	992	151
28		2725	549	2452	487	2180	425	1907	363	1635	301	1362	240	1090	178	981	153	981	153	981	153
29		2693	558	2423	495	2154	432	1885	369	1616	306	1346	243	1077	181	969	155	969	155	969	155
30		2660	566	2394	502	2128	439	1862	375	1596	311	1330	247	1064	183	958	158	958	158	958	158
31		2628	575	2366	510	2103	445	1840	381	1577	316	1314	251	1051	186	946	160	946	160	946	160
32		2596	584	2337	518	2077	452	1817	386	1558	321	1298	255	1039	189	935	163	935	163	935	163
33		2564	593	2308	526	2051	459	1795	392	1539	325	1282	259	1026	192	923	165	923	165	923	165
34		2532	601	2279	533	2026	466	1772	398	1519	330	1266	262	1013	195	912	168	912	168	912	168
35		2500	610	2250	541	2000	473	1750	404	1500	335	1250	266	1000	198	900	170	900	170	900	170
36		2468	619	2221	549	1974	479	1728	410	1481	340	1234	270	987	200	888	172	888	172	888	172
37		2436	627	2192	557	1949	486	1705	415	1462	345	1218	274	974	203	877	175	877	175	877	175
38		2404	636	2163	565	1923	493	1683	421	1442	349	1202	278	962	206	865	177	865	177	865	177
39		2372	645	2135	572	1897	500	1660	427	1423	354	1186	282	949	209	854	180	854	180	854	180
40		2340	654	2106	580	1872	506	1638	433	1404	359	1170	285	936	212	842	182	842	182	842	182
41		2308	662	2077	588	1846	513	1615	438	1385	364	1154	289	923	214	831	185	831	185	831	185
42		2275	671	2048	596	1820	520	1593	444	1365	369	1138	293	910	217	819	187	819	187	819	187
43		2243	680	2019	603	1795	527	1570	450	1346	373	1122	297	897	220	808	189	808	189	808	189
44		2211	689	1990	611	1769	533	1548	456	1327	378	1106	301	885	223	796	192	796	192	796	192
45		2179	697	1961	619	1743	540	1525	462	1308	383	1090	304	872	226	785	194	785	194	785	194
46		2147	706	1932	627	1718	547	1503	467	1288	388	1074	308	859	229	773	197	773	197	773	197

Heating		Parts Load (%)																			
Outdoor Temperature DB (°C)	100		90		80		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	
-15	1675	508	1508	455	1340	402	1173	349	1005	296	838	242	670	189	503	136	394	102	394	102	
-14	1725	546	1552	489	1380	432	1207	375	1035	318	862	261	690	203	517	146	406	109	406	109	
-13	1774	584	1597	523	1419	462	1242	401	1064	340	887	279	710	218	532	156	417	117	417	117	
-12	1823	623	1641	557	1459	492	1276	427	1094	362	912	297	729	232	547	167	429	125	429	125	
-11	1872	661	1685	592	1498	522	1311	453	1123	384	936	315	749	246	562	177	441	132	441	132	
-10	1922	699	1730	626	1537	553	1345	480	1153	406	961	333	769	260	577	187	452	140	452	140	
-9	1971	737	1774	660	1577	583	1380	506	1183	429	986	351	788	274	591	197	464	147	464	147	
-8	2020	775	1818	694	1616	613	1414	532	1212	451	1010	370	808	289	606	207	475	155	475	155	
-7	2070	813	1863	728	1656	643	1449	558	1242	473	1035	388	828	303	621	218	487	163	487	163	
-6	2113	806	1902	722	1691	638	1479	553	1268	469	1057	385	845	300	634	216	497	161	497	161	
-5	2157	800	1941	716	1726	632	1510	549	1294	465	1079	381	863	298	647	214	508	160	508	160	
-4	2201	793	1981	710	1761	627	1541	544	1321	461	1100	378	880	295	660	212	518	159	518	159	
-3	2245	786	2020	704	1796	622	1571	539	1347	457	1122	375	898	293	673	210	528	157	528	157	
-2	2289	779	2060	698	1831	616	1602	535	1373	453	1144	372	915	290	687	209	538	156	538	156	
-1	2332	773	2099	692	1866	611	1633	530	1399	449	1166	368	933	288	700	207	549	155	549	155	
0	2376	766	2139	686	1901	606	1663	525	1426	445	1188	365	950	285	713	205	559	153	559	153	
1	2420	759	2178	680	1936	600	1694	521	1452	441	1210	362	968	283	726	203	569	152	569	152	
2	2464	752	2217	674	1971	595	1725	516	1478	437	1232	359	986	280	739	201	580	150	580	150	
3	2504	762	2254	683	2003	603	1753	523	1502	443	1252	364	1002	284	751	204	589	152	589	152	
4	2544	772	2290	692	2036	611	1781	530	1527	449	1272	368	1018	288	763	207	599	154	599	154	
5	2585	783	2326	701	2068	619	1809	537	1551	455	1292	373	1034	291	775	209	608	157	608	157	
6	3312	837	2981	749	2650	662	2319	574	1987	487	1656	399	1325	312	994	224	779	167	779	167	
7	3400	850	3060	761	2720	672	2380	583	2040	494	1700	405	1360	316	1020	228	800	170	800	170	
8	3488	863	3139	773	2790	683	2441	592	2093	502	1744	412	1395	321	1046	231	821	173	821	173	
9	3575	876	3218	785	2860	693	2503	601	2145	510	1788	418	1430	326	1073	235	841	175	841	175	
10	3663	889	3297	796	2931	703	2564	610	2198	517	1832	424	1465	331	1099	238	862	178	862	178	
11	3751	903	3376	808	3001	714	2626	619	2251	525	1875	430	1500	336	1125	242	883	181	883	181	
12	3839	916	3455	820	3071	724	2687	628	2303	533	1919	437	1535	341	1152	245	903	183	903	183	
13	3926	929	3534	832	3141	735	2749	637	2356	540	1963	443	1571	346	1178	249	924	186	924	186	
14	4014	942	3613	844	3211	745	2810	646	2409	548	2007	449	1606	351	1204	252	945	188	945	188	
15	4102	955	3692	855	3282	755	2871	655	2461	556	2051	456	1641	356	1231	256	965	191	965	191	
16	4190	968	3771	867	3352	766	2933	665	2514	563	2095	462	1676	361	1257	259	986	194	986	194	
17	4277	982	3850	879	3422	776	2994	674	2566	571	2139	468	1711	365	1283	263	1006	196	1006	196	
18	4365	995	3929	891	3492	787	3056	683	2619	578	2183	474	1746	370	1310	266	1027	199	1027	199	
19	4453	1008	4008	902	3562	797	3117	692	2672	586	2226	481	1781	375	1336	270	1048	202	1048	202	
20	4541	1021	4087	914	3633	807	3178	701	2724	594	2270	487	1816	380	1362	273	1068	204	1068	204	
21	4628	1034	4166	926	3703	818	3240	710	2777	601	2314	493	1851	385	1389	277	1089	207	1089	207	
22	4716	1047	4245	938	3773	828	3301	719	2830	609	2358	500	1886	390	1415	280	1110	209	1110	209	
23	4804	1061	4323	950	3843	839	3363	728	2882	617	2402	506	1922	395	1441	284	1130	212	1130	212	
24	4892	1074	4402	961	3913	849	3424	737	2935	624	2446	512	1957	400	1467	287	1151	215	1151	215	

Indoor units : RAV-HM401KRTP-E
Outdoor unit : RAV-GM402ATP-E

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 900	180	800	140
RATING	W 3600	1130	4000	1120
MAXIMUM	W 4000	2000	5000	1700

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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	4293	887	3864	788	3434	688	3005	589	2576	489	2147	390	1717	290	1288	191	1073	141	1073	141
21	4247	903	3822	802	3397	701	2973	600	2548	498	2123	397	1699	296	1274	195	1062	144	1062	144
22	4201	919	3781	816	3360	713	2940	610	2520	507	2100	404	1680	301	1260	198	1050	146	1050	146
23	4154	936	3739	831	3324	726	2908	621	2493	516	2077	411	1662	306	1246	201	1039	149	1039	149
24	4108	952	3697	845	3287	738	2876	632	2465	525	2054	418	1643	312	1232	205	1027	152	1027	152
25	4062	968	3656	860	3250	751	2843	643	2437	534	2031	425	1625	317	1219	208	1016	154	1016	154
26	4016	984	3614	874	3213	764	2811	653	2409	543	2008	433	1606	322	1205	212	1004	157	1004	157
27	3970	1000	3573	888	3176	776	2779	664	2382	552	1985	440	1588	328	1191	215	992	159	992	159
28	3923	1017	3531	903	3139	789	2746	675	2354	561	1962	447	1569	333	1177	219	981	162	981	162
29	3877	1033	3489	917	3102	801	2714	686	2326	570	1939	454	1551	338	1163	222	969	165	969	165
30	3831	1049	3448	931	3065	814	2682	696	2299	579	1916	461	1532	343	1149	226	958	167	958	167
31	3785	1065	3406	946	3028	826	2649	707	2271	588	1892	468	1514	349	1135	229	946	170	946	170
32	3739	1081	3365	960	2991	839	2617	718	2243	597	1869	475	1495	354	1122	233	935	172	935	172
33	3692	1098	3323	975	2954	852	2585	729	2215	605	1846	482	1477	359	1108	236	923	175	923	175
34	3646	1114	3282	989	2917	864	2552	739	2188	614	1823	490	1458	365	1094	240	912	177	912	177
35	3600	1130	3240	1003	2880	877	2520	750	2160	623	1800	497	1440	370	1080	243	900	180	900	180
36	3554	1146	3198	1018	2843	889	2488	761	2132	632	1777	504	1422	375	1066	247	888	183	888	183
37	3508	1162	3157	1032	2806	902	2455	772	2105	641	1754	511	1403	381	1052	250	877	185	877	185
38	3461	1179	3115	1046	2769	914	2423	782	2077	650	1731	518	1385	386	1038	254	865	188	865	188
39	3415	1195	3074	1061	2732	927	2391	793	2049	659	1708	525	1366	391	1025	257	854	190	854	190
40	3369	1211	3032	1075	2695	939	2358	804	2021	668	1685	532	1348	397	1011	261	842	193	842	193
41	3323	1227	2991	1090	2658	952	2326	815	1994	677	1661	539	1329	402	997	264	831	195	831	195
42	3277	1243	2949	1104	2621	965	2294	825	1966	686	1638	546	1311	407	983	268	819	198	819	198
43	3230	1260	2907	1118	2584	977	2261	836	1938	695	1615	554	1292	412	969	271	808	201	808	201
44	3184	1276	2866	1133	2547	990	2229	847	1911	704	1592	561	1274	418	955	275	796	203	796	203
45	3138	1292	2824	1147	2510	1002	2197	858	1883	713	1569	568	1255	423	941	278	785	206	785	206
46	3092	1308	2783	1162	2473	1015	2164	868	1855	722	1546	575	1237	428	928	282	773	208	773	208

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	2070	539	1863	480	1656	421	1449	362	1242	303	1035	244	828	185	621	126	414	67	414	67
-14	2122	579	1910	516	1698	452	1486	389	1273	326	1061	262	849	199	637	136	424	72	424	72
-13	2174	619	1957	552	1739	484	1522	416	1304	348	1087	281	870	213	652	145	435	77	435	77
-12	2226	660	2003	588	1781	516	1558	443	1335	371	1113	299	890	227	668	155	445	82	445	82
-11	2277	700	2050	624	1822	547	1594	470	1366	394	1139	317	911	241	683	164	455	88	455	88
-10	2329	741	2096	660	1863	579	1630	498	1398	417	1165	336	932	255	699	174	466	93	466	93
-9	2381	781	2143	696	1905	610	1667	525	1429	439	1190	354	952	268	714	183	476	98	476	98
-8	2433	821	2189	732	1946	642	1703	552	1460	462	1216	372	973	282	730	193	487	103	487	103
-7	2484	862	2236	768	1988	673	1739	579	1491	485	1242	391	994	296	745	202	497	108	497	108
-6	2530	876	2277	780	2024	685	1771	589	1518	493	1265	397	1012	301	759	205	506	110	506	110
-5	2576	891	2319	793	2061	696	1804	598	1546	501	1288	404	1031	306	773	209	515	111	515	111
-4	2622	905	2360	806	2098	707	1836	608	1573	509	1311	410	1049	311	787	212	524	113	524	113
-3	2669	919	2402	819	2135	718	1868	618	1601	517	1334	417	1067	316	801	215	534	115	534	115
-2	2715	934	2443	832	2172	729	1900	627	1629	525	1357	423	1086	321	814	219	543	117	543	117
-1	2761	948	2484	844	2208	741	1932	637	1656	533	1380	430	1104	326	828	222	552	119	552	119
0	2807	962	2526	857	2245	752	1965	647	1684	541	1403	436	1123	331	842	226	561	120	561	120
1	2853	977	2567	870	2282	763	1997	656	1712	549	1426	443	1141	336	856	229	571	122	571	122
2	2899	991	2609	883	2319	774	2029	666	1739	558	1449	449	1159	341	870	232	580	124	580	124
3	2946	1004	2651	895	2357	785	2062	675	1768	565	1473	455	1178	345	884	235	589	126	589	126
4	2994	1018	2694	906	2395	795	2095	684	1796	573	1497	461	1197	350	898	239	599	127	599	127
5	3041	1031	2737	918	2433	806	2129	693	1825	580	1520	467	1216	354	912	242	608	129	608	129
6	3089	1103	3507	982	3117	861	2728	741	2338	620	1948	508	1559	379	1169	258	779	138	779	138
7	4000	1120	3600	998	3200	875	2800	753	2400	630	2000	508	1600	385	1200	263	800	140	800	140
8	4103	1137	3693	1013	3283	889	2872	764	2462	640	2052	515	1641	391	1231	267	821	142	821	142
9	4206	1155	3786	1028	3365	902	2945	776	2524	650	2103	523	1683	397	1262	271	841	144	841	144
10	4310	1172	3879	1044	3448	916	3017	787	2586	659	2155	531	1724	403	1293	275	862	147	862	147
11	4413	1189	3972	1059	3530	929	3089	799	2648	669	2206	539	1765	409	1324	279	883	149	883	149
12	4516	1207	4065	1075	3613	943	3161	811	2710	679	2258	547	1806	415	1355	283	903	151	903	151
13	4619	1224	4157	1090	3695	956	3234	822	2772	689	2310	555	1848	421	1386	287	924	153	924	153
14	4723	1241	4250	1106	3778	970	3306	834	2834	698	2361	563	1889	427	1417	291	945	155	945	155
15	4826	1259	4343	1121	3861	983	3378	846	2895	708	2413	570	1930	433	1448	295	965	157	965	157
16	4929	1276	4436	1137	3943	997	3450	857	2957	718	2465	578	1972	439	1479	299	986	160	986	160
17	5032	1293	4529	1152	4026	1010	3523	869	3019	728	2516	586	2013	445	1510	303	1006	162	1006	162
18	5135	1311	4622	1167	4108	1024	3595	881	3081	737	2568	594	2054	451	1541	307	1027	164	1027	164
19	5239	1328	4715	1183	4191	1038	3667	892	3143	747	2619	602	2095	457	1572	311	1048	166	1048	166
20	5342	1345	4808	1198	4274	1051	3739	904	3205	757	2671	610	2137	462	1603	315	1068	168	1068	168
21	5445	1363	4901	1214	4356	1065	3812	916	3267	767	2723	618	2178	468	1634	319	1089	170	1089	170
22	5548	1380	4994	1229	4439	1078	3884	927	3329	776	2774	625	2219	474	1665	323	1110	173	1110	173
23	5652	1397	5086	1245	4521	1092	3956	939	3391	786	2826	633	2261	480	1695	328	1130	175	1130	175
24	5755	1415	5179	1260	4604	1105	4028	951	3453	796	2877	641	2302	486	1726	332	1151	177	1151	177

Indoor units : RAV-HM561KRTP-E / TR

Outdoor unit : RAV-GM562ATP-E / TR

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W 1500	300	1500	300
RATING	W 5000	1660	5300	1550
MAXIMUM	W 5600	1860	6300	2400

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	5963	1303	5366	1151	4770	998	4174	846	3578	693	2981	541	2385	388	1789	236
21	5898	1327	5309	1172	4719	1016	4129	861	3539	706	2949	550	2359	395	1770	240
22	5834	1351	5251	1193	4667	1035	4084	876	3501	718	2917	560	2334	402	1750	244
23	5770	1374	5193	1214	4616	1053	4039	892	3462	731	2885	570	2308	409	1731	248
24	5706	1398	5135	1235	4565	1071	3994	907	3424	744	2853	580	2282	416	1712	253
25	5642	1422	5078	1256	4513	1089	3949	923	3385	756	2821	590	2257	423	1693	257
26	5578	1446	5020	1277	4462	1107	3904	938	3347	769	2789	600	2231	431	1673	261
27	5513	1470	4962	1298	4411	1126	3859	954	3308	782	2757	610	2205	438	1654	266
28	5449	1493	4904	1319	4359	1144	3814	969	3270	794	2725	619	2180	445	1635	270
29	5385	1517	4847	1340	4308	1162	3770	985	3231	807	2693	629	2154	452	1616	274
30	5321	1541	4789	1361	4257	1180	3725	1000	3193	820	2660	639	2128	459	1596	279
31	5257	1565	4731	1382	4205	1199	3680	1015	3154	832	2628	649	2103	466	1577	283
32	5193	1589	4673	1403	4154	1217	3635	1031	3116	845	2596	659	2077	473	1558	287
33	5128	1612	4616	1424	4103	1235	3590	1046	3077	858	2564	669	2051	480	1539	291
34	5064	1636	4558	1445	4051	1253	3545	1062	3039	870	2532	679	2026	487	1519	296
35	5000	1660	4500	1466	4000	1271	3500	1077	3000	883	2500	689	2000	494	1500	300
36	4936	1684	4442	1487	3949	1290	3455	1093	2962	896	2468	698	1974	501	1481	304
37	4872	1708	4385	1508	3897	1308	3410	1108	2923	907	2436	708	1949	508	1462	309
38	4808	1731	4327	1529	3846	1326	3365	1123	2885	921	2404	718	1923	516	1442	313
39	4743	1755	4269	1550	3795	1344	3320	1139	2846	933	2372	728	1897	523	1423	317
40	4679	1779	4211	1571	3744	1362	3275	1154	2807	946	2340	738	1871	530	1404	321
41	4615	1803	4153	1592	3693	1380	3230	1169	2768	959	2308	748	1845	537	1385	325
42	4551	1827	4095	1613	3642	1398	3185	1184	2729	972	2276	758	1819	544	1366	329
43	4487	1851	4037	1634	3591	1416	3140	1199	2690	985	2244	768	1793	551	1347	333
44	4423	1875	3979	1655	3540	1434	3095	1214	2651	998	2212	778	1767	558	1328	337
45	4359	1899	3921	1676	3489	1452	3050	1229	2612	1011	2180	788	1741	565	1309	341
46	4295	1923	3863	1697	3438	1470	3005	1244	2573	1024	2148	798	1715	572	1290	345

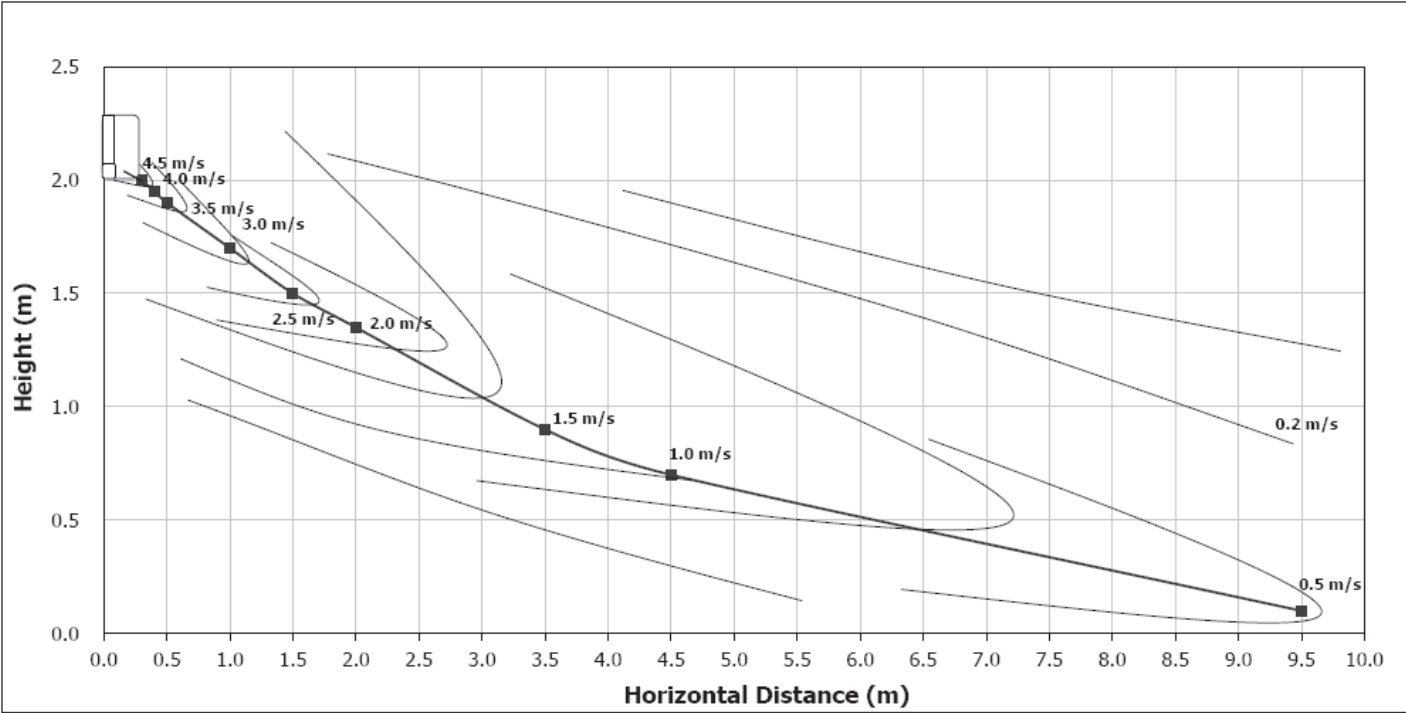
Heating

Outdoor Temperature DB (°C)	Parts Load (%)															
	100		90		80		70		60		50		40		30	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	2736	572	2462	507	2189	443	1915	379	1642	314	1368	250	1094	186	821	122
-14	2794	614	2515	545	2235	476	1956	407	1676	338	1397	269	1118	200	838	131
-13	2852	657	2567	583	2282	509	1996	435	1711	362	1426	288	1141	214	856	140
-12	2910	700	2619	621	2328	543	2037	464	1746	385	1455	306	1164	228	873	149
-11	2968	743	2671	659	2375	576	2078	492	1781	409	1484	325	1187	242	890	158
-10	3026	786	2724	697	2421	609	2118	521	1816	432	1513	344	1211	256	908	167
-9	3084	829	2776	736	2467	642	2159	549	1851	456	1542	363	1234	269	925	176
-8	3142	872	2828	774	2514	676	2200	577	1885	479	1571	381	1257	283	943	185
-7	3200	914	2880	812	2560	709	2240	606	1920	503	1600	400	1280	297	960	194
-6	3272	965	2944	857	2617	748	2290	640	1963	531	1636	422	1309	314	981	205
-5	3343	1016	3008	902	2674	787	2340	673	2006	559	1671	445	1337	330	1003	216
-4	3414	1067	3072	947	2731	827	2390	707	2048	587	1707	467	1366	347	1024	227
-3	3485	1118	3136	992	2788	866	2439	741	2091	615	1742	489	1394	363	1045	238
-2	3556	1168	3200	1037	2845	906	2489	774	2134	643	1778	511	1422	380	1067	248
-1	3627	1219	3264	1082	2902	945	2539	808	2176	671	1814	534	1451	396	1088	259
0	3698	1270	3329	1127	2959	984	2589	842	2219	699	1849	556	1479	413	1110	270
1	3769	1321	3393	1172	3016	1024	2639	875	2262	727	1885	578	1508	429	1131	281
2	3841	1372	3457	1217	3072	1063	2688	909	2304	755	1920	600	1536	446	1152	292
3	3903	1390	3513	1234	3123	1077	2732	921	2342	765	1952	608	1561	452	1171	296
4	3966	1409	3570	1250	3173	1092	2776	933	2380	775	1983	616	1587	458	1190	300
5	4029	1427	3626	1267	3223	1106	2821	945	2418	785	2015	624	1612	464	1209	303
6	5163	1526	4647	1354	4131	1183	3614	1011	3098	839	2582	668	2065	496	1549	325
7	5300	1550	4770	1376	4240	1201	3710	1027	3180	853	2650	678	2120	504	1580	330
8	5437	1574	4893	1397	4349	1220	3806	1043	3262	866	2718	689	2175	512	1631	335
9	5574	1598	5016	1418	4459	1239	3901	1059	3344	879	2787	699	2229	520	1672	340
10	5710	1622	5139	1440	4568	1257	3997	1075	3426	892	2855	710	2284	527	1713	345
11	5847	1646	5262	1461	4678	1276	4093	1091	3508	905	2924	720	2339	535	1754	350
12	5984	1670	5385	1482	4787	1294	4189	1106	3590	919	2992	731	2394	543	1795	355
13	6121	1694	5509	1503	4897	1313	4284	1122	3672	932	3060	741	2448	551	1836	360
14	6257	1718	5632	1525	5006	1332	4380	1138	3754	945	3129	752	2503	559	1877	365
15	6394	1742	5755	1546	5115	1350	4476	1154	3837	958	3197	762	2558	566	1918	370
16	6531	1766	5878	1567	5225	1369	4572	1170	3919	971	3265	773	2612	574	1959	376
17	6668	1790	6001	1589	5334	1387	4667	1186	4001	985	3334	783	2667	582	2000	381
18	6805	1814	6124	1610	5444	1406	4763	1202	4083	998	3402	794	2722	590	2041	386
19	6941	1838	6247	1631	5553	1425	4859	1218	4165	1011	3471	804	2777	598	2082	391
20	7078	1862	6370	1653	5662	1443	4955	1234	4247	1024	3539	815	2831	605	2123	396
21	7215	1886	6493	1674	5772	1462	5050	1250	4329	1037	3607	825	2886	613	2164	401
22	7352	1910	6616	1695	5881	1480	5146	1265	4411	1051	3676	836	2941	621	2205	406
23	7488	1934	6740	1716	5991	1499	5242	1281	4493	1064	3744	846	2995	629	2247	411
24	7625	1958	6863	1738	6100	1518	5338	1297	4575	1077	3813	857	3050	637	2288	416

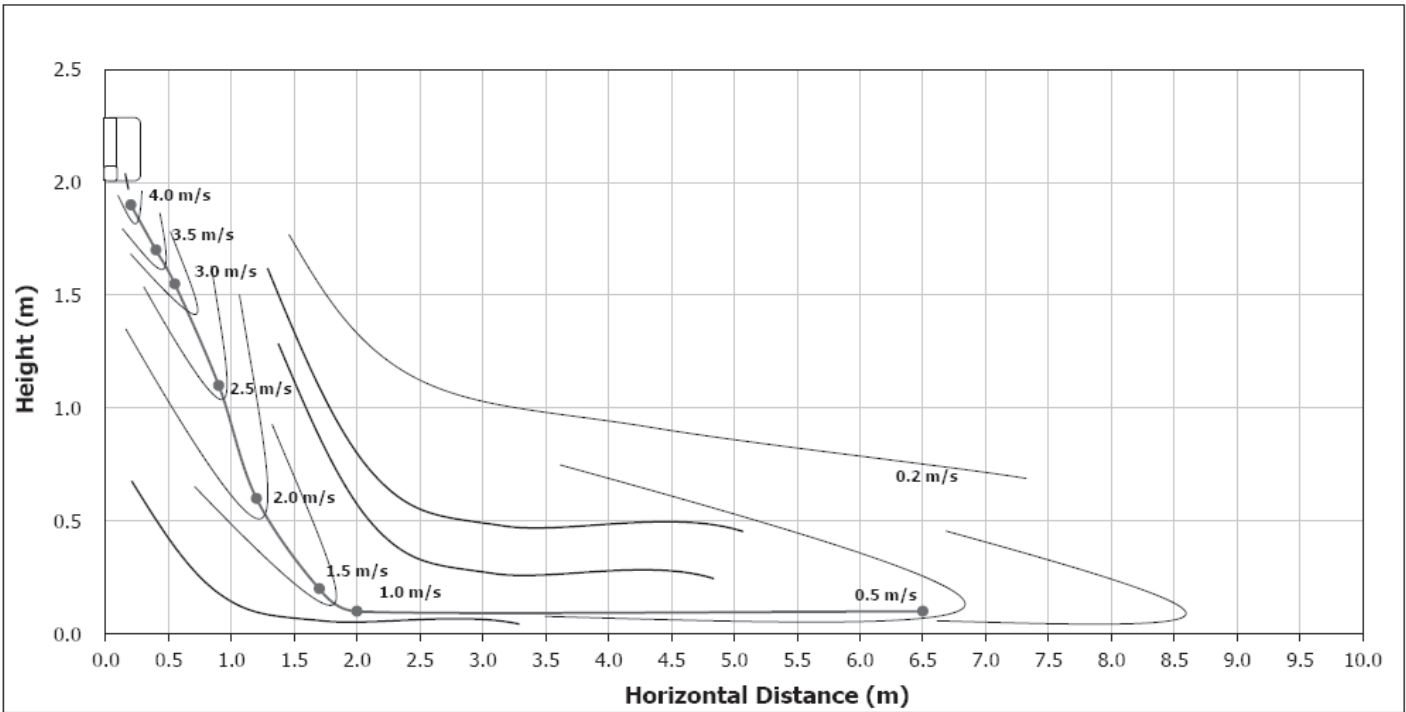
2-5-6. Air throw distance chart

RAV-HM301KRTP-E

Cooling

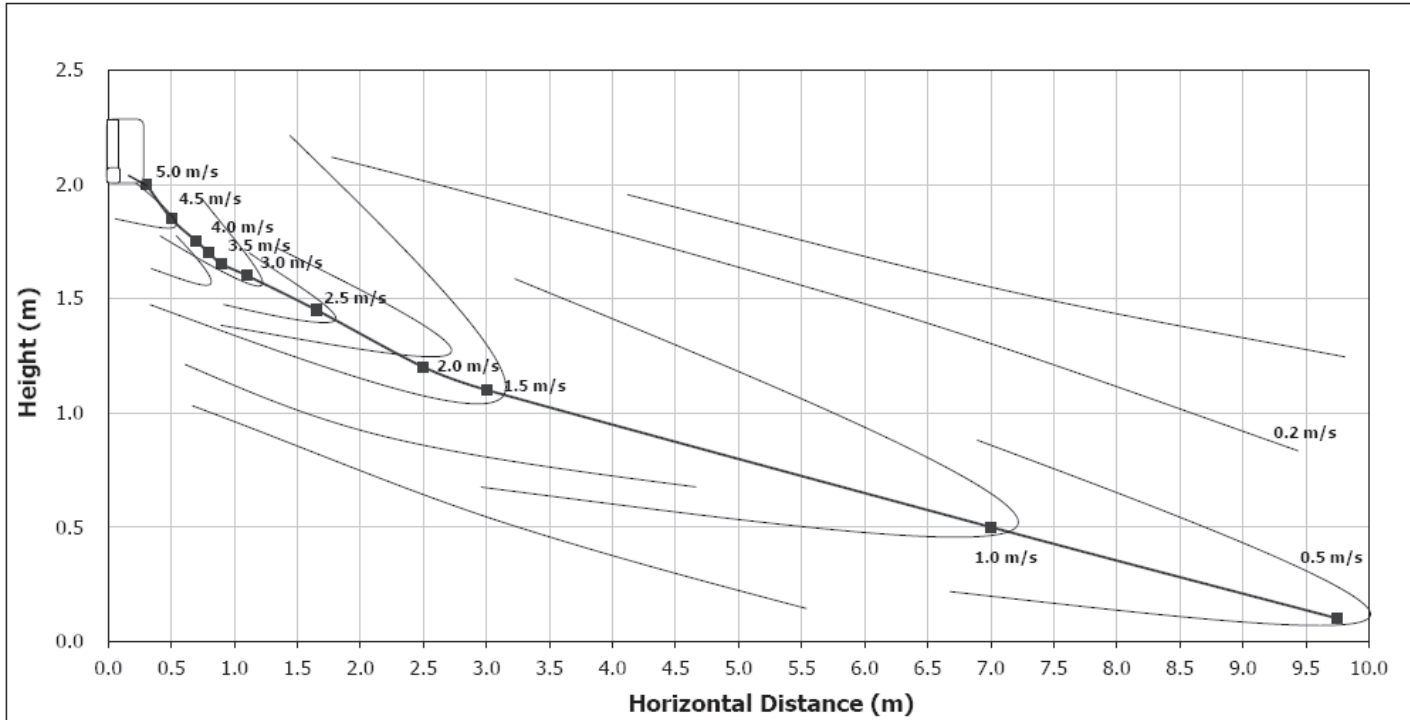


Heating

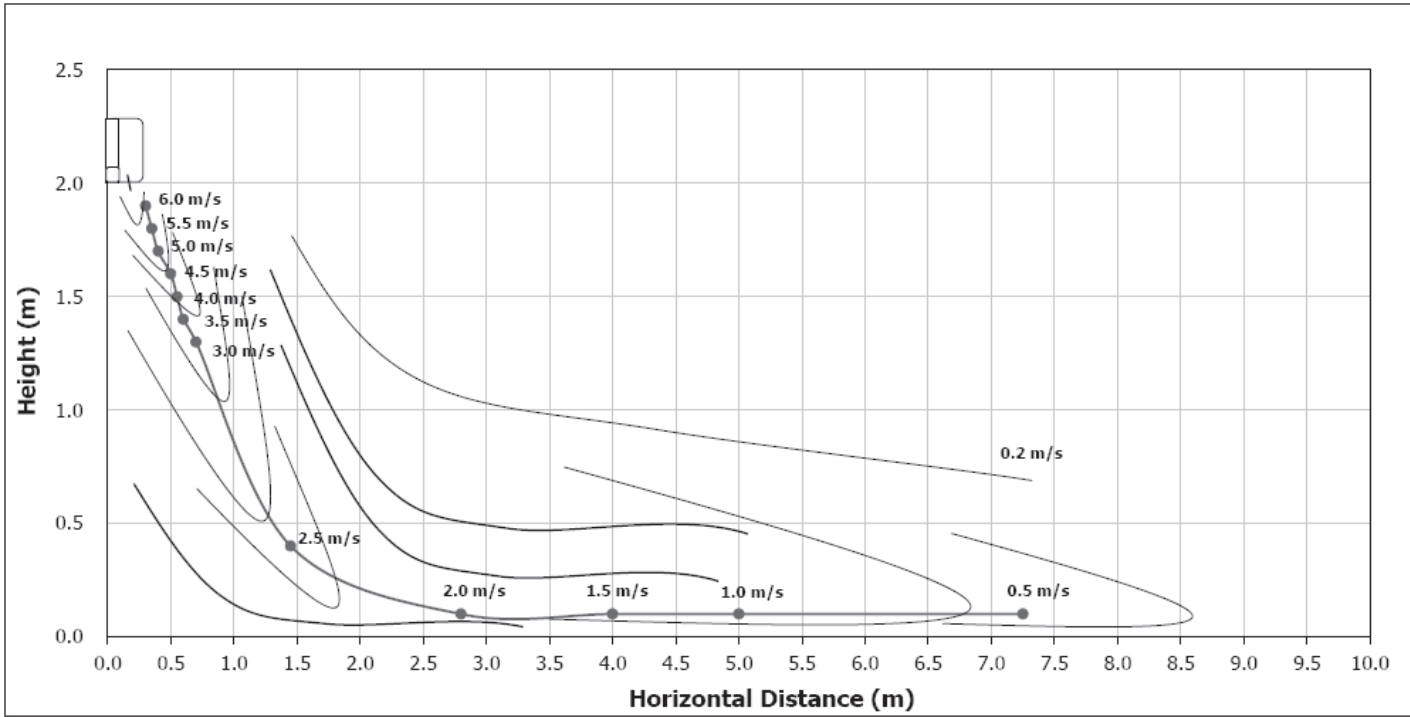


RAV-HM401KRTP-E

Cooling

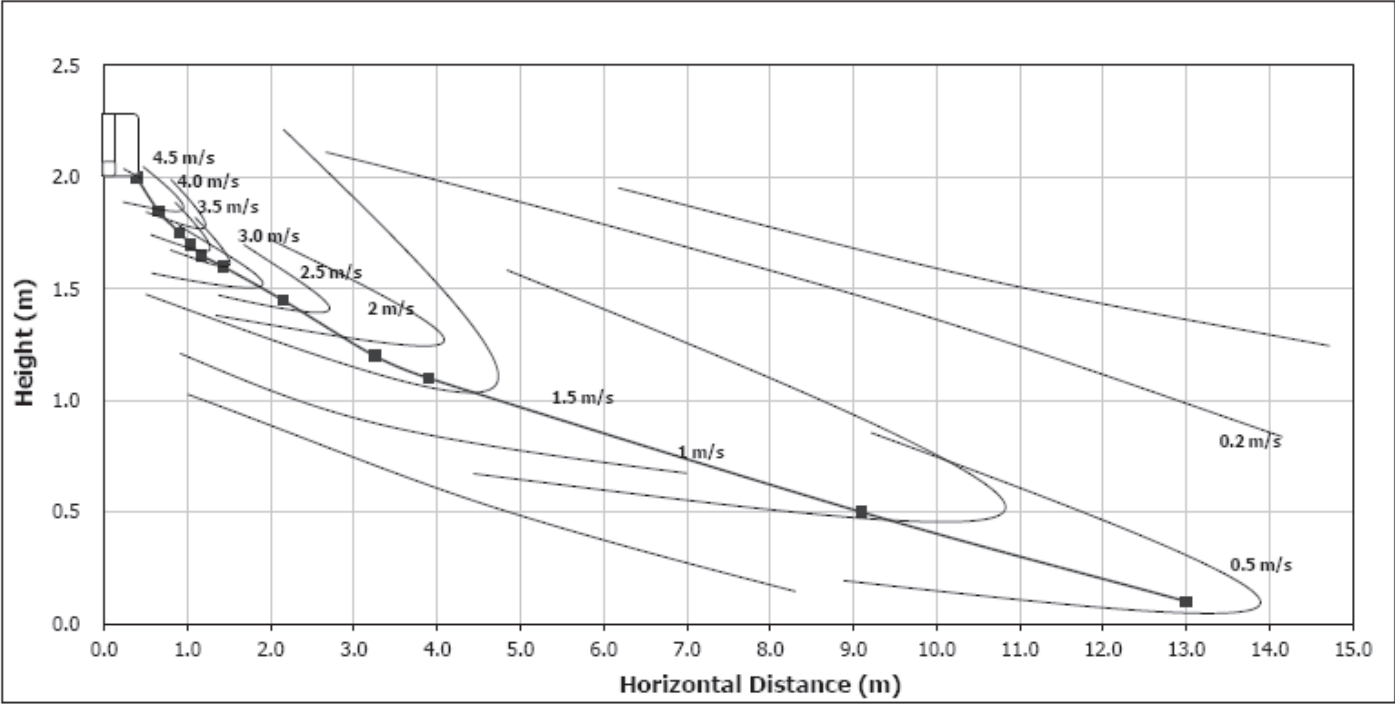


Heating

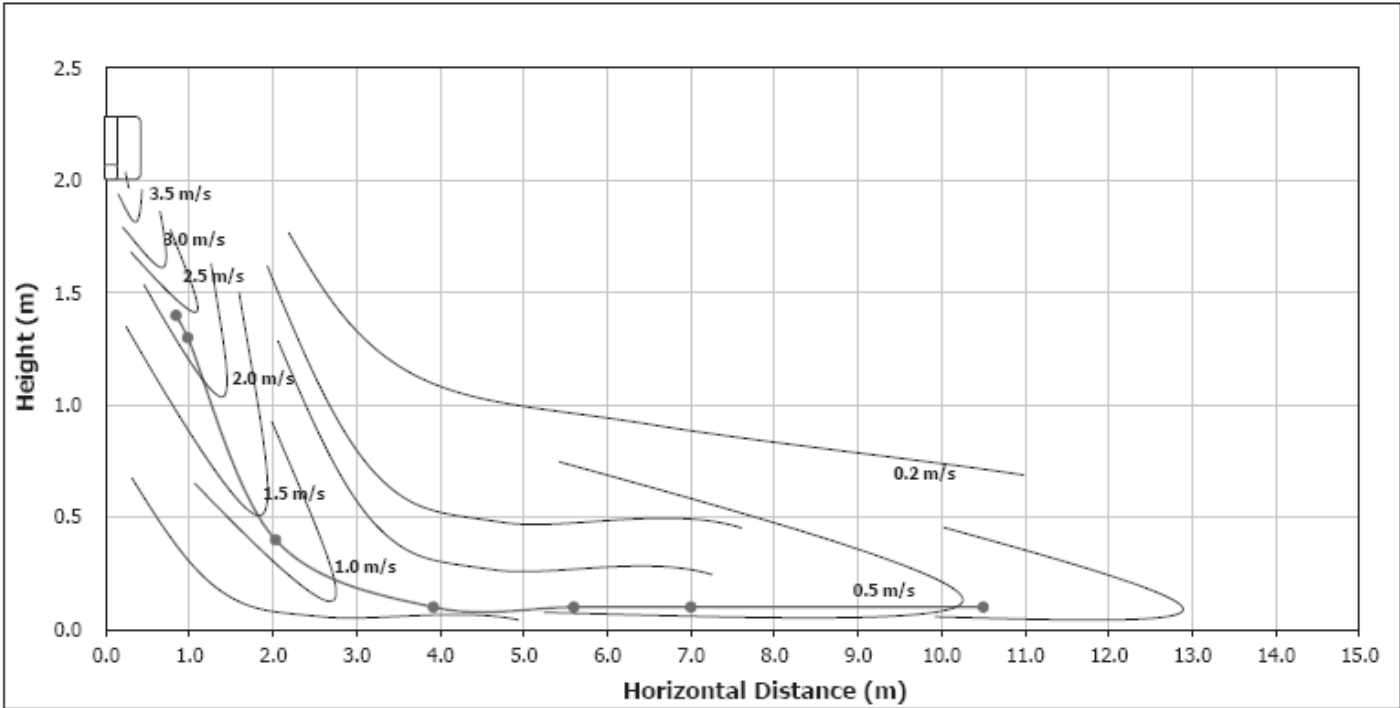


RAV-HM561KRTP-E / TR

Cooling



Heating

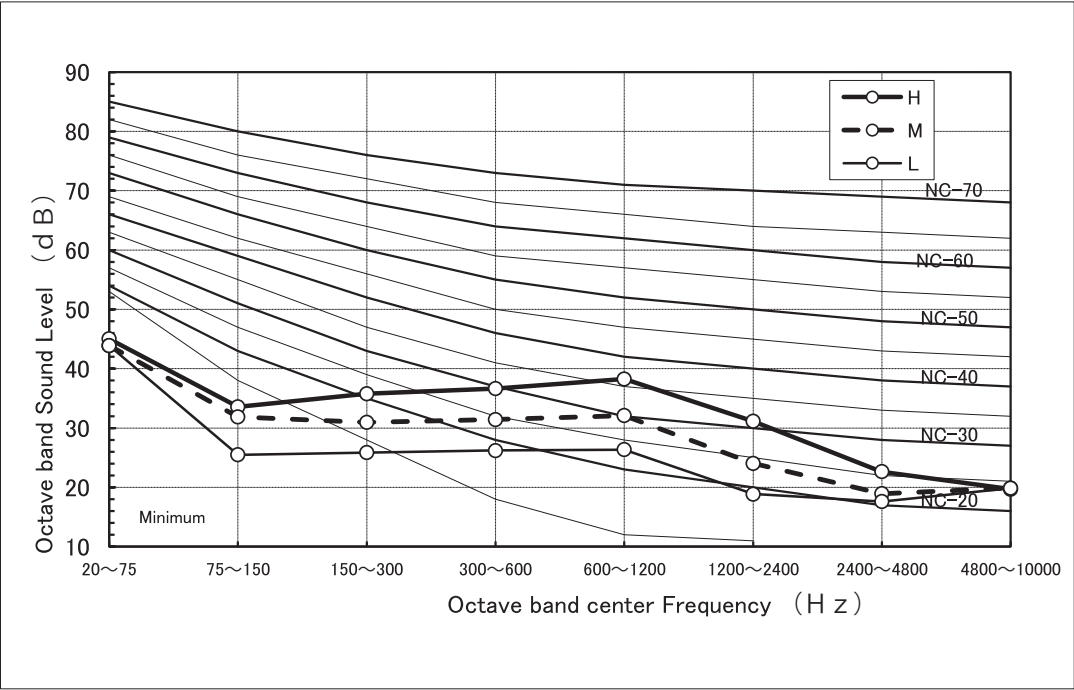


2-5-7. Sound Characteristics (NC curve)

RAV-HM301KRTP-E/TR

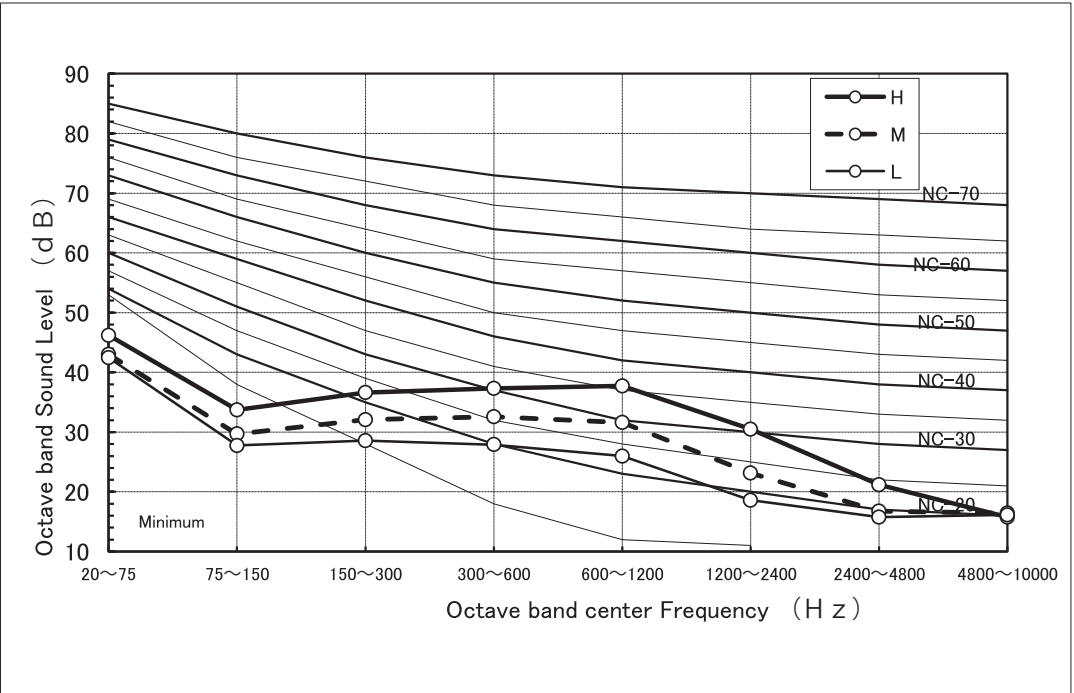
Cooling

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	34	29



Heating

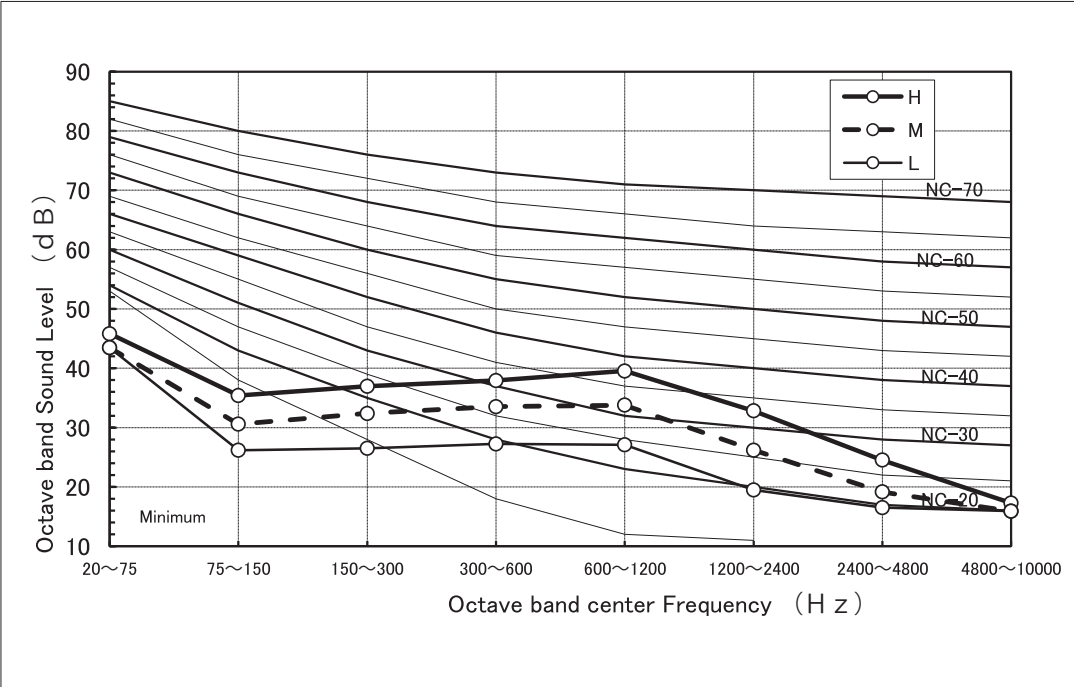
Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	34	29



RAV-HM401KRTP-E

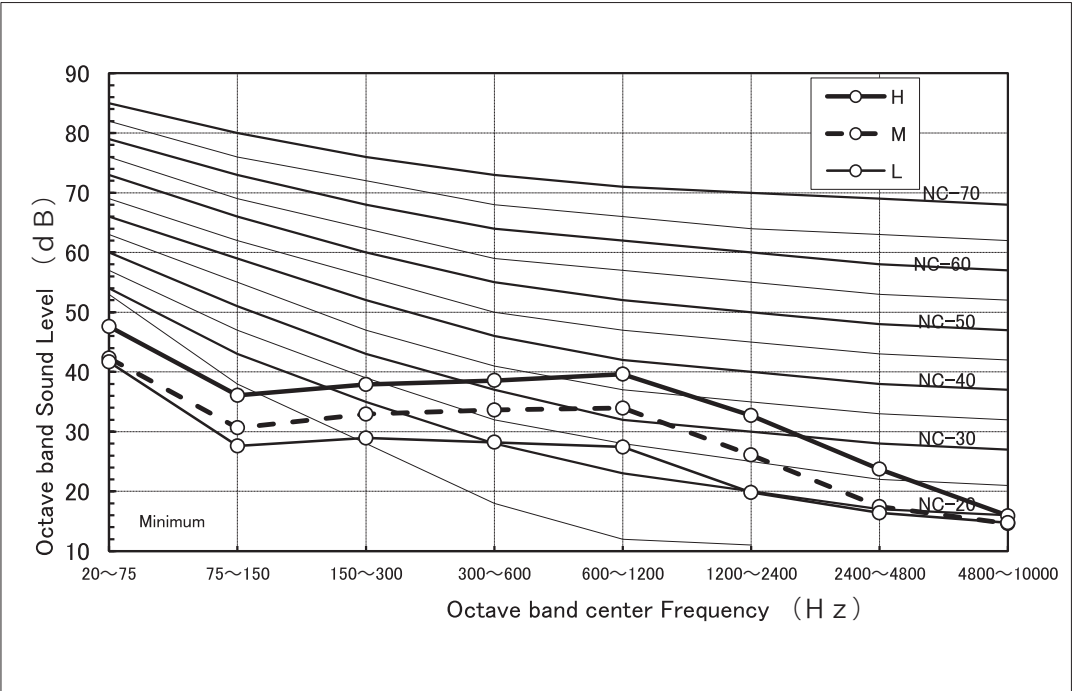
Cooling

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	41	36	30



Heating

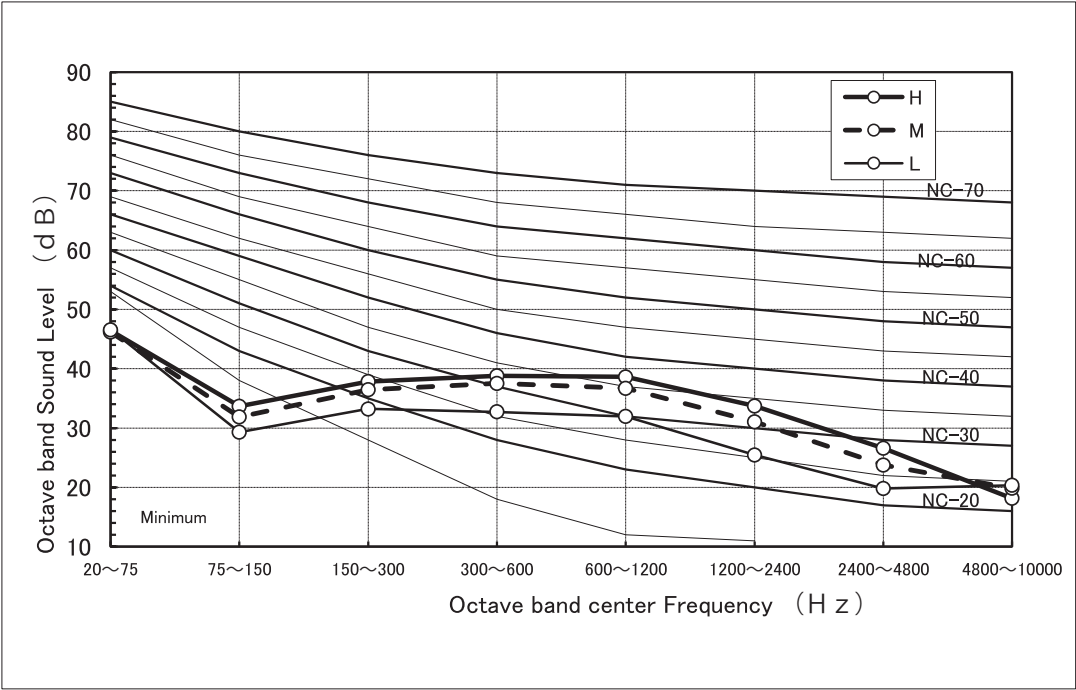
Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	41	36	30



RAV-HM561KRTP-E/TR

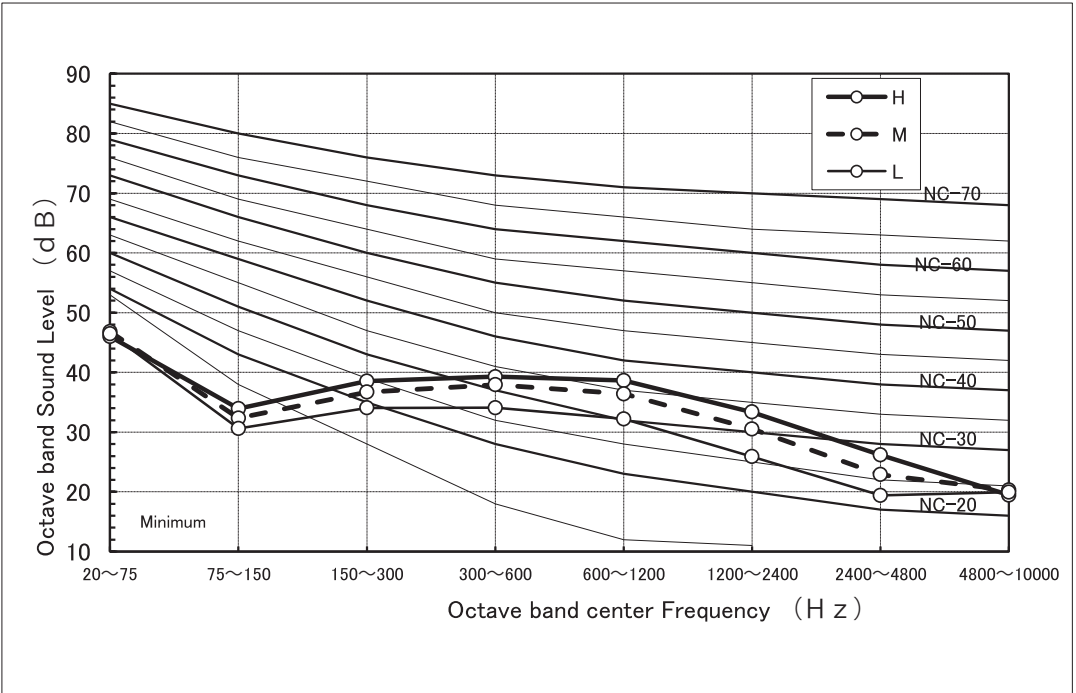
Cooling

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	35



Heating

Specification (d B)			
Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	35



2-6. Floor Standing Type

2-6-1. Specifications

2-6-2. Dimension

2-6-3. Wiring Diagrams

2-6-4. Sensible Capacity Table

2-6-5. Part Load Performance

2-6-6. Air Throw Distance Chart

2-6-7. Sound Characteristics (NC Curve)

2-6-1. Specifications

Floor standing type

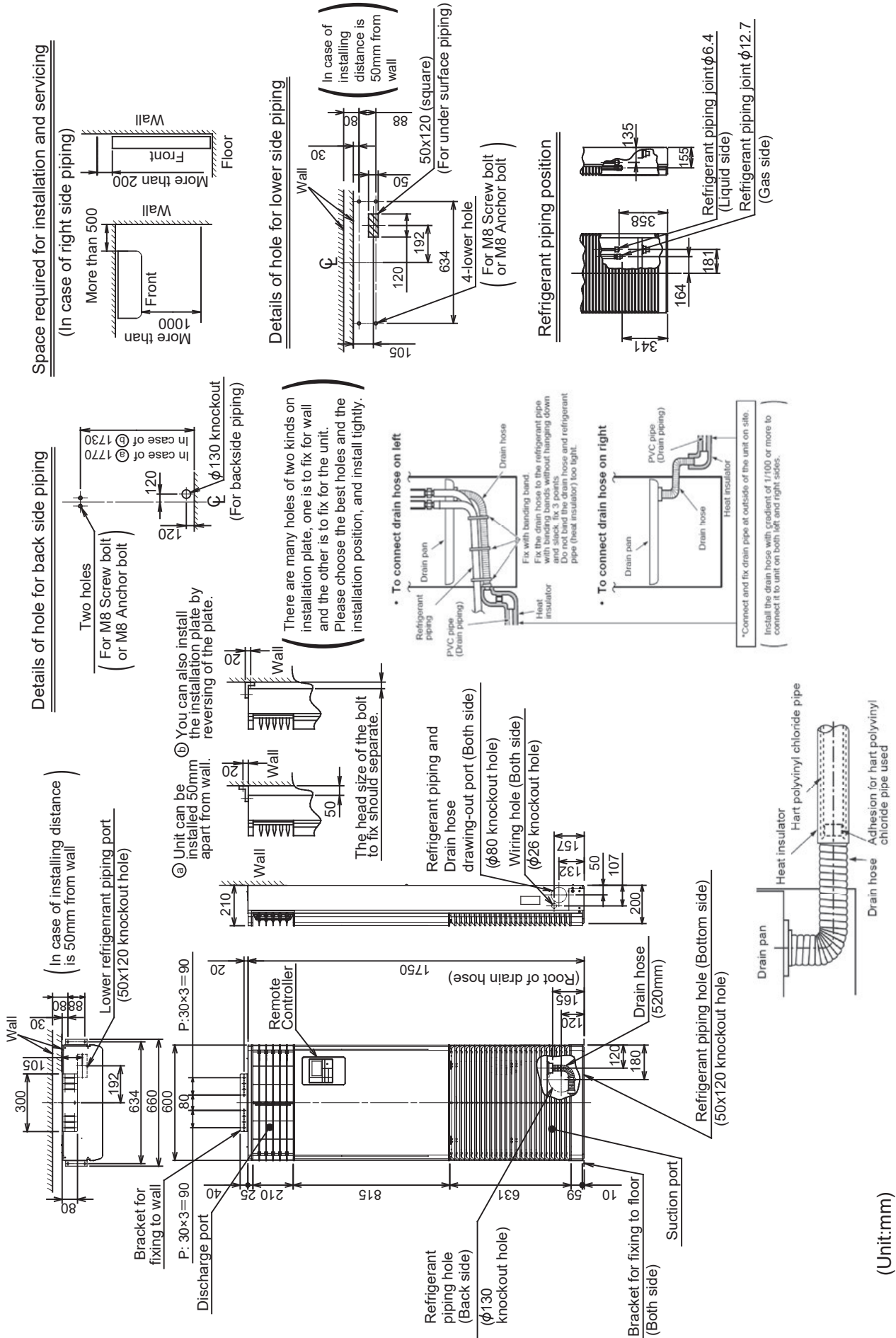
Model	Indoor unit		RAV-HM561FT-E / TR
	Outdoor unit		RAV-GM562ATP-E / TR
Cooling Capacity		(kW)	5.0
Heating Capacity		(kW)	5.3
Power Supply	1 phase 220V-240V, 50Hz		
Electrical Characteristics	Cooling	Running current (A)	8.40 - 7.69
		Power consumption (kW)	1.79
		Power factor (%)	97
		EER	2.79
		SEER	5.80
		Energy star rating	A+
	Heating	Running current (A)	8.06 - 7.39
		Power consumption (kW)	1.72
		Power factor (%)	97
		COP	3.08
		SCOP	4.00
		Energy star rating	A+
	Maximum current	(A)	14.8
Outer dimension	Main unit	Height (mm)	1750
		Width (mm)	600
		Depth (mm)	210
Weight	Main unit	(kg)	44
Fan motor output		(W)	62
Refrigerant quantity in outdoor unit		(kg)	0.90
Additional refrigerant charge		(g/m)	20
Operation range	Cooling	(°C)	-15 to 46
	Heating	(°C)	-15 to 15
Sound pressure level	H/M/L	(dB·A)	46/42/38
Sound power level	H/M/L	(dB·A)	48/46/41
Connecting pipe	Gas side	(mm)	12.7
	Liquid side	(mm)	6.4
	Drain port	(mm)	VP25

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB / 19 °C WB, Outdoor air temperature 35 °C DB

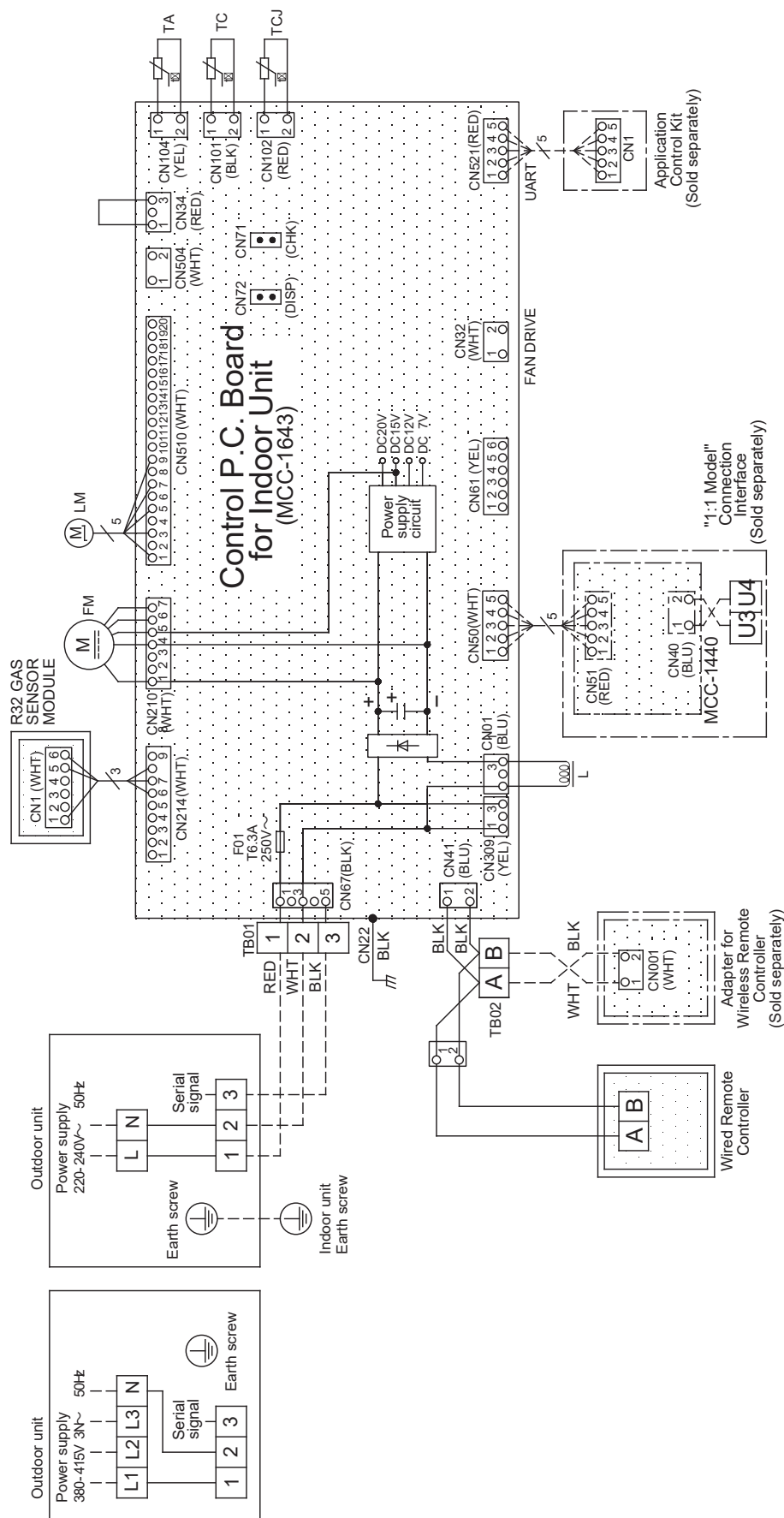
Heating : Indoor air temperature 20 °C DB, Outdoor air temperature 7 °C DB / 6 °C WB

2-6-2. Dimension

RAV-HM561FT-E / TR



2-6-3. Wiring diagrams

RAV-HM561FT-E / TR

2-6-4. Sensible Capacity Table

Product models : RAV-HM561FT-E / TR ; RAV-GM562ATP-E / TR

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	5.00	kW
Sensible Heat Capacity (SHC)	4.05	kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB 20.0 °C DB		15.0 °C WB 21.0 °C DB		16.0 °C WB 23.0 °C DB		17.0 °C WB 24.0 °C DB		18.0 °C WB 26.0 °C DB		19.0 °C WB 27.0 °C DB		20.0 °C WB 28.0 °C DB		22.0 °C WB 30.0 °C DB		24.0 °C WB 32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.72	5.61	4.83	5.99	5.04	6.13	5.15	6.42	5.36	6.60	5.35	6.79	5.35	7.19	5.30	7.52	5.21
12.0	5.32	4.63	5.50	4.74	5.87	4.94	6.01	5.05	6.29	5.25	6.48	5.25	6.66	5.24	7.05	5.20	7.38	5.10
14.0	5.21	4.54	5.40	4.64	5.76	4.84	5.89	4.95	6.17	5.15	6.35	5.14	6.53	5.14	6.91	5.10	7.23	5.00
16.0	5.11	4.45	5.29	4.55	5.64	4.74	5.78	4.85	6.04	5.04	6.22	5.04	6.40	5.04	6.77	4.99	7.09	4.90
18.0	5.00	4.36	5.18	4.46	5.52	4.65	5.66	4.75	5.92	4.94	6.09	4.93	6.27	4.93	6.63	4.89	6.94	4.80
20.0	4.90	4.26	5.07	4.36	5.41	4.55	5.54	4.65	5.79	4.84	5.96	4.83	6.13	4.83	6.49	4.79	6.79	4.70
21.0	4.84	4.22	5.01	4.32	5.35	4.50	5.48	4.60	5.73	4.78	5.90	4.78	6.07	4.78	6.43	4.74	6.72	4.65
23.0	4.74	4.13	4.90	4.22	5.23	4.40	5.36	4.50	5.60	4.68	5.77	4.67	5.94	4.67	6.29	4.63	6.57	4.55
25.0	4.63	4.04	4.80	4.13	5.12	4.30	5.24	4.40	5.48	4.58	5.64	4.57	5.80	4.57	6.15	4.53	6.43	4.45
27.0	4.53	3.94	4.69	4.03	5.00	4.21	5.12	4.30	5.36	4.47	5.51	4.47	5.67	4.46	6.01	4.43	6.28	4.35
29.0	4.42	3.85	4.58	3.94	4.88	4.11	5.00	4.20	5.23	4.37	5.39	4.36	5.54	4.36	5.87	4.32	6.14	4.24
31.0	4.32	3.76	4.47	3.85	4.77	4.01	4.88	4.10	5.11	4.26	5.26	4.26	5.41	4.26	5.73	4.22	5.99	4.14
33.0	4.21	3.67	4.36	3.75	4.65	3.91	4.76	4.00	4.98	4.16	5.13	4.15	5.28	4.15	5.59	4.12	5.84	4.04
35.0	4.11	3.58	4.25	3.66	4.54	3.81	4.64	3.90	4.86	4.06	5.00	4.05	5.14	4.05	5.45	4.02	5.70	3.94
37.0	4.00	3.48	4.14	3.56	4.42	3.72	4.52	3.80	4.73	3.95	4.87	3.95	5.01	3.95	5.31	3.91	5.55	3.84
39.0	3.90	3.39	4.03	3.47	4.30	3.62	4.40	3.70	4.61	3.85	4.74	3.84	4.88	3.84	5.17	3.81	5.40	3.74
40.0	2.70	2.35	2.79	2.40	2.98	2.50	3.05	2.56	3.19	2.66	3.28	2.66	3.38	2.66	3.58	2.64	3.74	2.59
42.0	2.47	2.15	2.56	2.20	2.73	2.30	2.79	2.34	2.92	2.44	3.01	2.44	3.09	2.44	3.28	2.42	3.43	2.37
43.0	2.36	2.05	2.44	2.10	2.60	2.19	2.67	2.24	2.79	2.33	2.87	2.33	2.95	2.33	3.13	2.31	3.27	2.26
45.0	1.38	1.20	1.43	1.23	1.53	1.28	1.56	1.31	1.63	1.36	1.68	1.36	1.73	1.36	1.83	1.35	1.92	1.33
46.0	1.27	1.10	1.31	1.13	1.40	1.18	1.43	1.20	1.50	1.25	1.54	1.25	1.59	1.25	1.68	1.24	1.76	1.22

2-6-5. Part load performance

Indoor units : RAV-HM561FT-E / TR

Outdoor unit : RAV-GM562ATP-E / TR

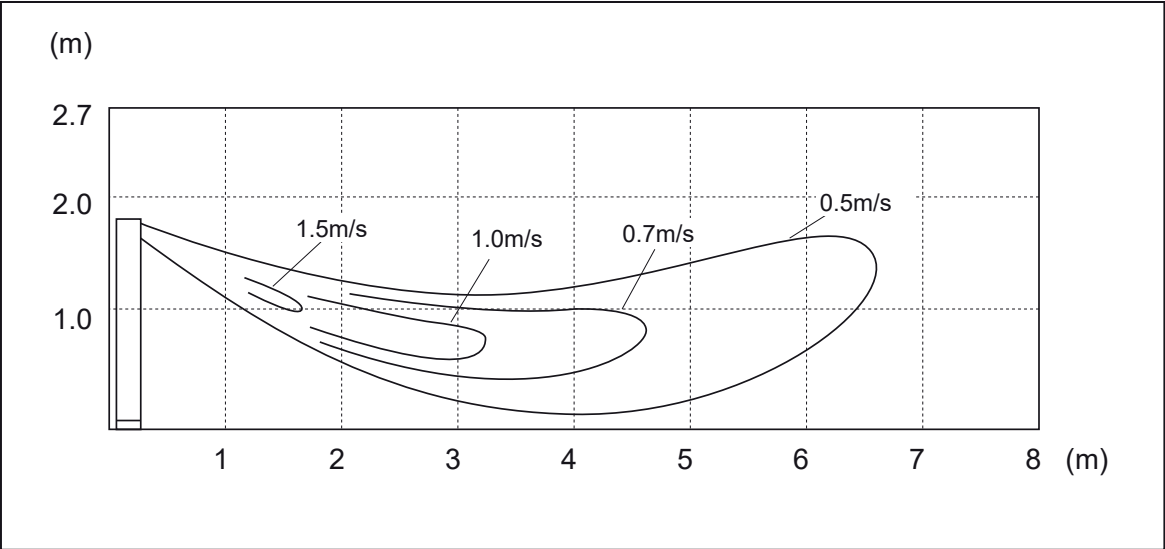
Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	1500	300	1500	220
RATING	W	5000	1790	5300	1720
MAXIMUM	W	5600	2000	6300	2700

Cooling																				
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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	5963	1405	5366	1238	4770	1071	4174	904	3578	737	2981	570	2385	403	1789	236	1789	236	1789	236
21	5898	1431	5309	1261	4719	1091	4129	920	3539	750	2949	580	2359	410	1770	240	1770	240	1770	240
22	5834	1456	5251	1283	4667	1110	4084	937	3501	764	2917	590	2334	417	1750	244	1750	244	1750	244
23	5770	1482	5193	1306	4616	1130	4038	953	3462	777	2885	601	2308	425	1731	248	1731	248	1731	248
24	5706	1508	5135	1328	4565	1149	3994	970	3424	791	2853	611	2282	432	1712	253	1712	253	1712	253
25	5642	1533	5078	1351	4513	1169	3949	986	3385	804	2821	622	2257	439	1693	257	1693	257	1693	257
26	5578	1559	5020	1374	4462	1188	3904	1003	3347	817	2789	632	2231	447	1673	261	1673	261	1673	261
27	5513	1585	4962	1396	4411	1208	3859	1019	3308	831	2757	642	2205	454	1654	266	1654	266	1654	266
28	5449	1610	4904	1419	4359	1227	3814	1036	3270	844	2725	653	2180	461	1635	270	1635	270	1635	270
29	5385	1636	4847	1442	4308	1247	3770	1052	3231	858	2693	663	2154	469	1616	274	1616	274	1616	274
30	5321	1662	4789	1464	4257	1267	3725	1069	3193	871	2660	674	2128	476	1596	279	1596	279	1596	279
31	5257	1687	4731	1487	4205	1286	3680	1085	3154	885	2628	684	2103	483	1577	283	1577	283	1577	283
32	5193	1713	4673	1509	4154	1306	3635	1102	3116	898	2596	695	2077	491	1558	287	1558	287	1558	287
33	5128	1739	4616	1532	4103	1325	3590	1118	3077	912	2564	705	2051	498	1539	291	1539	291	1539	291
34	5064	1764	4558	1555	4051	1345	3545	1135	3039	925	2532	715	2026	506	1519	296	1519	296	1519	296
35	5000	1790	4500	1577	4000	1364	3500	1151	3000	939	2500	726	2000	513	1500	300	1500	300	1500	300
36	4936	1816	4442	1600	3949	1384	3455	1168	2962	952	2468	736	1974	520	1481	304	1481	304	1481	304
37	4872	1841	4385	1622	3897	1403	3410	1184	2923	965	2436	747	1949	528	1462	309	1462	309	1462	309
38	4808	1867	4327	1645	3846	1423	3365	1201	2885	979	2404	757	1923	535	1442	313	1442	313	1442	313
39	4743	1893	4269	1668	3795	1443	3320	1217	2846	992	2372	767	1897	542	1423	317	1423	317	1423	317
40	3283	1430	2955	1260	2627	1090	2298	920	1970	750	1642	580	1313	410	985	240	985	240	985	240
41	3146	1430	2831	1260	2517	1090	2202	920	1888	750	1573	580	1258	410	944	240	944	240	944	240
42	3009	1430	2708	1260	2407	1090	2106	920	1805	750	1504	580	1203	410	903	240	903	240	903	240
43	2871	1430	2584	1260	2297	1090	2010	920	1723	750	1436	580	1148	410	861	240	861	240	861	240
44	2734	1430	2460	1260	2187	1090	1913	920	1640	750	1367	580	1093	410	820	240	820	240	820	240
45	1682	1110	1513	978	1345	846	1177	714	1009	582	841	450	673	318	504	186	504	186	504	186
46	1544	1110	1390	978	1235	846	1081	714	926	582	772	450	618	318	463	186	463	186	463	186

Heating																				
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	2736	634	2462	557	2189	480	1915	403	1642	326	1368	249	1094	171	821	94	774	81	774	81
-14	2794	682	2515	599	2235	516	1956	433	1676	350	1397	267	1118	184	838	101	791	87	791	87
-13	2852	729	2567	641	2282	552	1996	463	1711	374	1426	286	1141	197	856	108	807	93	807	93
-12	2910	777	2619	682	2328	588	2037	493	1746	399	1455	304	1164	210	873	115	824	99	824	99
-11	2968	824	2671	724	2375	624	2078	524	1781	423	1484	323	1187	223	890	122	840	105	840	105
-10	3026	872	2724	766	2421	660	2118	554	1816	448	1513	342	1211	236	908	130	856	112	856	112
-9	3084	920	2776	808	2467	696	2159	584	1851	472	1542	360	1234	248	925	137	873	118	873	118
-8	3142	967	2828	850	2514	732	2200	614	1885	497	1571	379	1257	261	943	144	889	124	889	124
-7	3200	1015	2880	891	2560	768	2240	644	1920	521	1600	398	1280	274	960	151	906	130	906	130
-6	3272	1071	2944	941	2617	811	2290	680	1963	550	1636	420	1309	289	981	159	926	137	926	137
-5	3343	1127	3008	990	2674	853	2340	716	2006	579	1671	442	1337	305	1003	168	946	144	946	144
-4	3414	1184	3072	1040	2731	896	2390	752	2048	608	1707	464	1366	320	1024	176	966	151	966	151
-3	3485	1240	3136	1089	2788	939	2439	788	2091	637	1742	486	1394	335	1045	184	986	159	986	159
-2	3556	1297	3200	1139	2845	981	2489	823	2134	666	1778	508	1422	350	1067	193	1006	166	1006	166
-1	3627	1353	3264	1188	2902	1024	2539	859	2176	695	1814	530	1451	366	1088	201	1027	173	1027	173
0	3698	1409	3329	1238	2959	1067	2589	895	2219	724	1849	552	1479	381	1110	209	1047	180	1047	180
1	3769	1466	3393	1287	3016	1109	2639	931	2262	753	1885	574	1508	396	1131	218	1067	187	1067	187
2	3841	1522	3457	1337	3072	1152	2688	967	2304	782	1920	596	1536	411	1152	226	1087	195	1087	195
3	3903	1543	3513	1355	3123	1167	2732	980	2342	792	1952	604	1561	417	1171	229	1105	197	1105	197
4	3966	1563	3570	1373	3173	1183	2776	993	2380	803	1983	612	1587	422	1190	232	1123	200	1123	200
5	4029	1584	3626	1391	3223	1198	2821	1006	2418	813	2015	620	1612	428	1209	235	1140	203	1140	203
6	5163	1693	4647	1487	4131	1281	3614	1075	3098	869	2582	664	2065	458	1549	252	1461	217	1461	217
7	5300	1720	4770	1511	4240	1302	3710	1092	3180	883	2650	674	2120	465	1590	256	1500	220	1500	220
8	5437	1747	4893	1534	4349	1322	3806	1109	3262	897	2718	684	2175	472	1631	259	1539	223	1539	223
9	5574	1773	5016	1558	4459	1342	3901	1126	3344	911	2787	695	2229	479	1672	263	1577	227	1577	227
10	5710	1800	5139	1581	4568	1362	3997	1143	3426	924	2855	705	2284	486	1713	267	1616	230	1616	230
11	5847	1827	5262	1604	4678	1382	4093	1160	3508	938	2924	716	2339	494	1754	271	1655	234	1655	234
12	5984	1853	5385	1628	4787	1402	4189	1177	3590	952	2992	726	2394	501	1795	275	1694	237	1694	237
13	6121	1880	5509	1651	4897	1422	4284	1194	3672	965	3060	737	2448	508	1836	279	1732	240	1732	240
14	6257	1906	5632	1675	5006	1443	4380	1211	3754	979	3129	747	2503	515	1877	283	1771	244	1771	244
15	6394	1933	5755	1698	5115	1463	4476	1228	3837	993	3197	757	2538	522	1918	287	1810	247	1810	247
16	6531	1960	5878	1721	5225	1483	4572	1245	3919	1006	3265	768	2612	530	1959	291	1848	251	1848	251
17	6668	1986	6001	1745	5334	1503	4667	1262	4001	1020	3334	778	2667	537	2000	295	1887	254	1887	254
18	6805	2013	6124	1768	5444	1523	4763	1278	4083	1034	3402	789	2722	544	2041	299	1926	257	1926	257
19	6941	2040	6247	1792	5553	1543	4859	1295	4165	1047	3471	799	2777	551	2082	303	1965	261	1965	261
20	7078	2066	6370	1815	5662	1564	4955	1312	4247	1061	3539	810	2831	558	2123	307	2003	264	2003	264
21	7215	2093	6493	1838	5772	1584	5050	1329	4329	1075	3607	820	2886	565	2164	311	2042	268	2042	268
22	7352	2119	6616	1862	5881	1604	5146	1346	4411	1088	3676	830	2941	573	2205	315	2081	271	2081	271
23	7488	2146	6740	1885	5991	1624	5242	1363	4493	1102	3744	841	2995	580	2247	319	2119	275	2119	275
24	7625	2173	6863	1908	6100	1644	5338	1380	4575	1116	3813	851	3050	587	2288	323	2158	278	2158	278

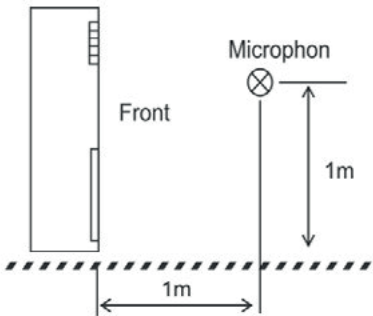
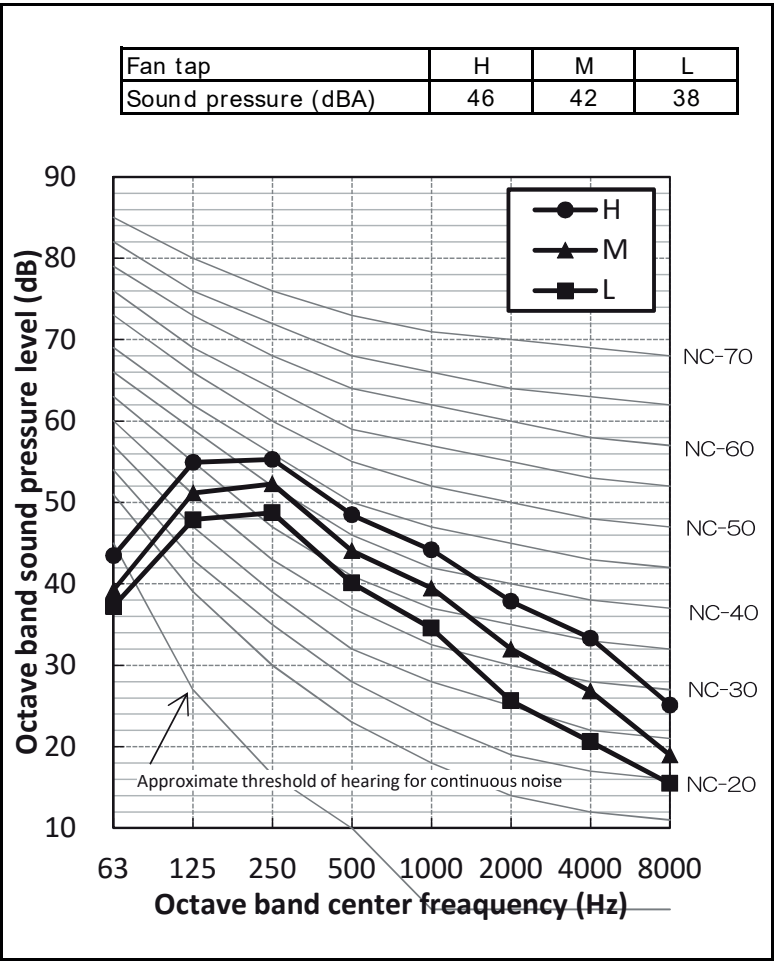
2-6-6. Air throw distance chart

RAV-HM561FT-E / TR



2-6-7. Sound Characteristics (NC curve)

RAV-HM561FT-E / TR



2-7. 1-way Cassette Type

2-7-1. Specifications

2-7-2. Dimension

2-7-3. Wiring Diagrams

2-7-4. Sensible Capacity Table

2-7-5. Part Load Performance

2-7-6. Air Throw Distance Chart

2-7-7. Sound Characteristics (NC Curve)

2-7-1. Specifications

1-way Cassette type

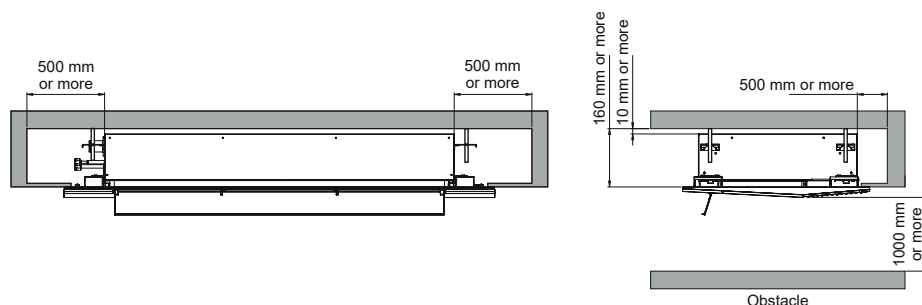
Model	Indoor unit		RAV-HM	301U1TP-E / TR	401U1TP-E / TR
	Outdoor unit		RAV-GM	302ATP-E / TR	402ATP-E / TR
Cooling Capacity			(kW)	2.5	3.6
Heating Capacity			(kW)	3.4	4.0
Power Supply				1 phase 230V (220-240V) 50Hz	
Electrical Characteristics	Cooling	Running current	(A)	3.48 - 3.19	5.41 - 4.96
		Power consumption	(kW)	0.690	1.130
		Power factor	(%)	90	95
		EER		3.62	3.19
		SEER		6.20	6.00
		Energy star rating		A++	A+
	Heating	Running current	(A)	5.15 - 4.72	6.25 - 5.73
		Power consumption	(kW)	1.030	1.320
		Power factor	(%)	91	96
		COP		3.30	3.03
		SCOP		4.10	4.00
		Energy star rating		A+	A+
	Maximum current		(A)	7.90	9.20
Appearance	Main unit		Zinc hot dipping steel plate		
	Ceiling panel (Sold separately)		RBC-UY32P-E		
Outer dimension	Main unit	Height	(mm)	150	150
		Width	(mm)	990	990
		Depth	(mm)	450	450
	Ceiling panel (Sold separately)	Height	(mm)	30	30
		Width	(mm)	530	530
		Depth	(mm)	1220	1220
Total weight	Main unit		(kg)	13	
	Ceiling panel		(kg)	3	3
Heat exchanger				Finned tube	
Fan unit	Fan		Cross flow fan		
	Standard air flow	H/M/L	(m³/min)	8.7 / 6.8 / 4.8	9.0 / 7.0 / 4.8
	Motor		(W)	30	60
Air filter				Standard filter attached	
Controller (packed with indoor unit)				-	
Controller (sold separately)				RBC-ASCU11-E, RBC-AMT32E, RBC-AS21E2, RBC-AMS41E, RBC-AMS51E	
Sound pressure level		H/M/L	(dB· A)	39/35/30	40/36/30
Sound power level		H/M/L	(dB· A)	54/50/45	55/51/45
Connecting pipe		Gas side	(mm)	9.5	12.7
		Liquid side	(mm)	6.4	6.4
		Drain port	(mm)	VP25	

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB / 19 °C WB, Outdoor air temperature 35 °C DB

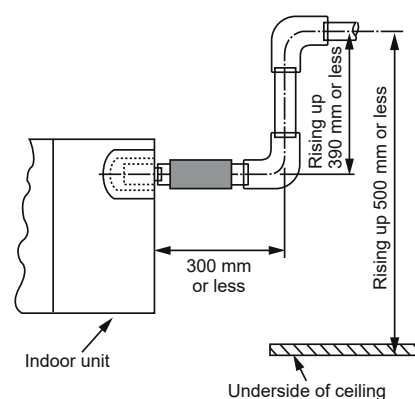
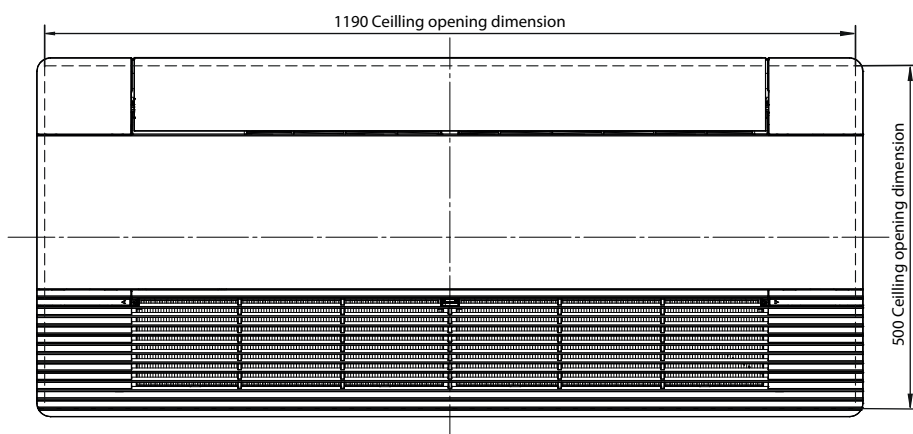
Heating : Indoor air temperature 20 °C DB, Outdoor air temperature 7 °C DB / 6 °C WB

2-7-2. Dimension

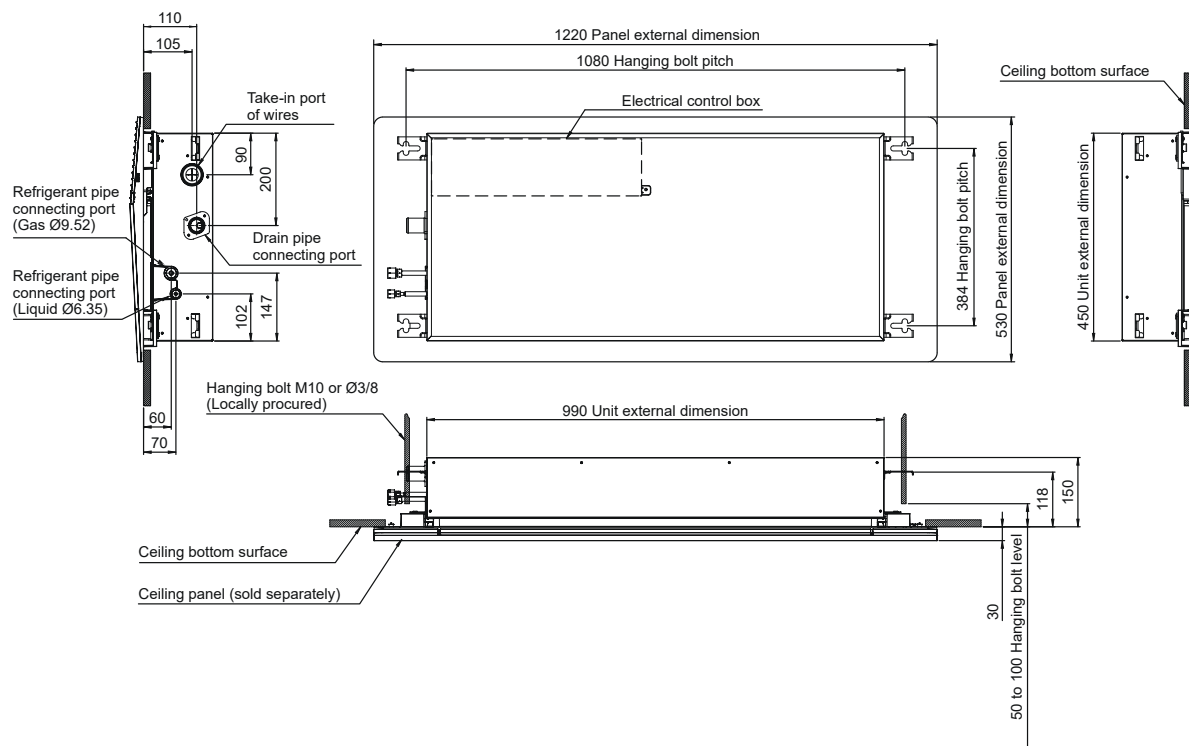
RAV-HM*_1U1TP-E / TR (*30 / 40)



The space that is necessary for equipping and service

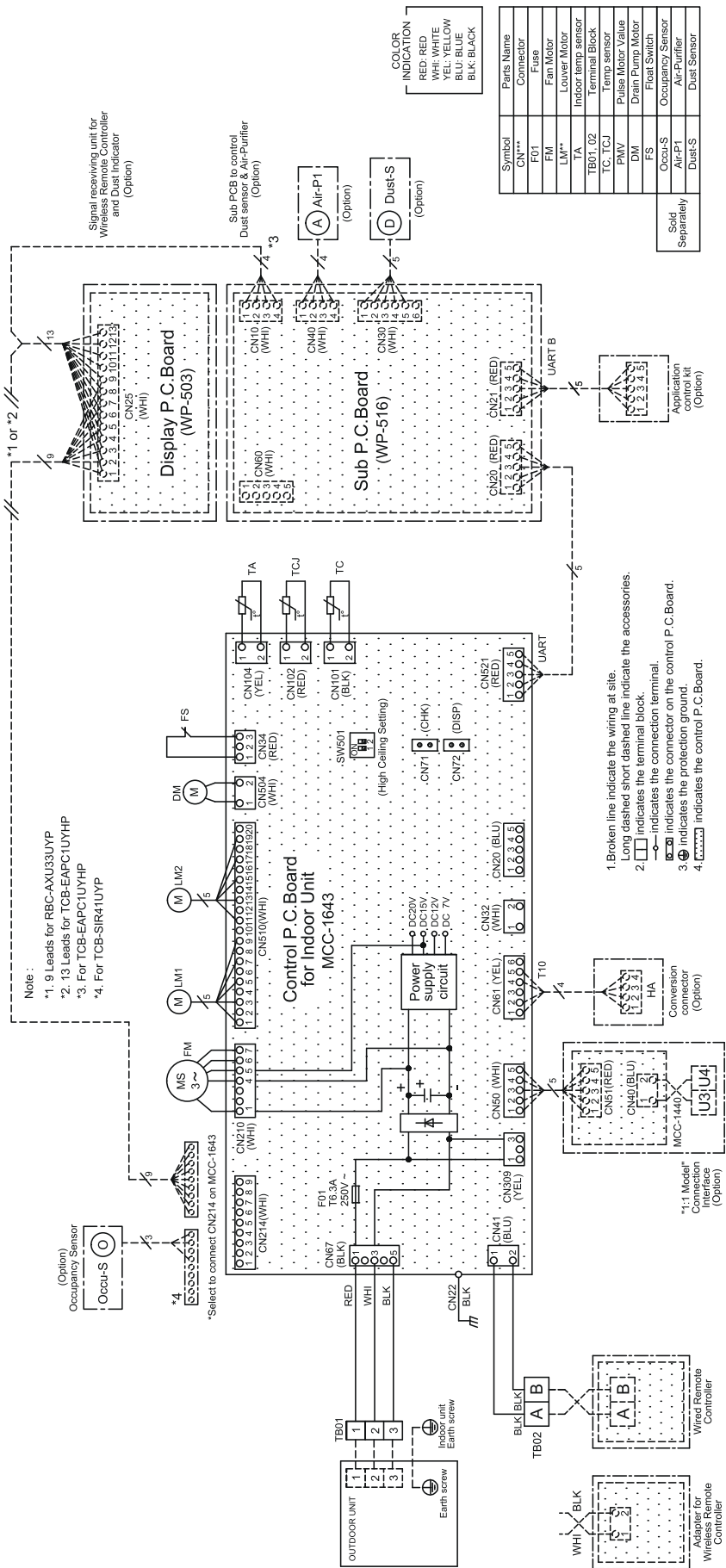


Drain upstanding size



2-7-3. Wiring diagrams

RAV-HM*_1U1TP-E / TR (*30 / 40)



2-7-4. Sensible Capacity Table

Product models : RAV-HM301U1TP-E / TR ; RAV-GM302ATP-E / TR

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	2.50 kW
Sensible Heat Capacity (SHC)	2.00 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	2.71	2.33	2.81	2.39	3.00	2.49	3.07	2.54	3.21	2.65	3.30	2.64	3.40	2.64	3.60	2.62	3.76	2.57
12.0	2.66	2.29	2.75	2.34	2.94	2.44	3.01	2.49	3.15	2.59	3.24	2.59	3.33	2.59	3.53	2.56	3.69	2.52
14.0	2.61	2.24	2.70	2.30	2.88	2.39	2.95	2.44	3.08	2.54	3.17	2.54	3.26	2.54	3.46	2.51	3.62	2.47
16.0	2.55	2.20	2.64	2.25	2.82	2.34	2.89	2.39	3.02	2.49	3.11	2.49	3.20	2.49	3.39	2.46	3.54	2.42
18.0	2.50	2.15	2.59	2.20	2.76	2.30	2.83	2.34	2.96	2.44	3.05	2.44	3.13	2.43	3.32	2.41	3.47	2.37
20.0	2.45	2.11	2.53	2.16	2.70	2.25	2.77	2.29	2.90	2.39	2.98	2.39	3.07	2.38	3.25	2.36	3.40	2.32
21.0	2.42	2.09	2.51	2.13	2.68	2.22	2.74	2.27	2.86	2.36	2.95	2.36	3.03	2.36	3.21	2.34	3.36	2.29
23.0	2.37	2.04	2.45	2.09	2.62	2.17	2.68	2.22	2.80	2.31	2.89	2.31	2.97	2.31	3.14	2.29	3.29	2.24
25.0	2.32	1.99	2.40	2.04	2.56	2.13	2.62	2.17	2.74	2.26	2.82	2.26	2.90	2.26	3.07	2.23	3.21	2.19
27.0	2.26	1.95	2.34	1.99	2.50	2.08	2.56	2.12	2.68	2.21	2.76	2.21	2.84	2.20	3.00	2.18	3.14	2.14
29.0	2.21	1.90	2.29	1.95	2.44	2.03	2.50	2.07	2.62	2.16	2.69	2.15	2.77	2.15	2.93	2.13	3.07	2.09
31.0	2.16	1.86	2.23	1.90	2.38	1.98	2.44	2.02	2.55	2.11	2.63	2.10	2.70	2.10	2.86	2.08	2.99	2.04
33.0	2.11	1.81	2.18	1.85	2.33	1.93	2.38	1.97	2.49	2.05	2.56	2.05	2.64	2.05	2.79	2.03	2.92	1.99
35.0	2.05	1.77	2.12	1.81	2.27	1.88	2.32	1.92	2.43	2.00	2.50	2.00	2.57	2.00	2.72	1.98	2.85	1.94
37.0	2.00	1.72	2.07	1.76	2.21	1.84	2.26	1.88	2.37	1.95	2.44	1.95	2.51	1.95	2.65	1.93	2.78	1.89
39.0	1.95	1.68	2.02	1.72	2.15	1.79	2.20	1.83	2.30	1.90	2.37	1.90	2.44	1.90	2.58	1.88	2.70	1.84
40.0	1.92	1.65	1.99	1.69	2.12	1.76	2.17	1.80	2.27	1.87	2.34	1.87	2.41	1.87	2.55	1.85	2.67	1.82
42.0	1.87	1.61	1.93	1.65	2.06	1.72	2.11	1.75	2.21	1.82	2.28	1.82	2.34	1.82	2.48	1.80	2.59	1.77
43.0	1.84	1.59	1.91	1.62	2.03	1.69	2.08	1.73	2.18	1.80	2.24	1.79	2.31	1.79	2.44	1.78	2.56	1.74
45.0	1.79	1.54	1.85	1.58	1.98	1.64	2.02	1.68	2.12	1.75	2.18	1.74	2.24	1.74	2.37	1.73	2.48	1.69
46.0	1.76	1.52	1.82	1.55	1.95	1.62	1.99	1.65	2.09	1.72	2.15	1.72	2.21	1.72	2.34	1.70	2.45	1.67

Product models : RAV-HM401U1TP-E / TR ; RAV-GM402ATP-E / TR

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition.

Total Cooling Capacity (TC)	3.60 kW
Sensible Heat Capacity (SHC)	2.70 kW

Outdoor air temp. °C DB	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	3.91	3.17	4.04	3.24	4.31	3.37	4.42	3.44	4.62	3.58	4.76	3.57	4.89	3.56	5.18	3.51	5.42	3.42
12.0	3.83	3.11	3.96	3.17	4.23	3.30	4.33	3.37	4.53	3.51	4.66	3.50	4.80	3.49	5.08	3.44	5.31	3.36
14.0	3.75	3.04	3.88	3.11	4.15	3.24	4.24	3.31	4.44	3.44	4.57	3.43	4.70	3.42	4.98	3.37	5.21	3.29
16.0	3.68	2.98	3.81	3.05	4.06	3.17	4.16	3.24	4.35	3.37	4.48	3.36	4.61	3.35	4.88	3.30	5.10	3.22
18.0	3.60	2.92	3.73	2.99	3.98	3.11	4.07	3.17	4.26	3.30	4.39	3.29	4.51	3.28	4.78	3.23	5.00	3.16
20.0	3.53	2.86	3.65	2.92	3.89	3.04	3.99	3.11	4.17	3.23	4.29	3.22	4.42	3.21	4.68	3.17	4.89	3.09
21.0	3.49	2.83	3.61	2.89	3.85	3.01	3.94	3.07	4.13	3.20	4.25	3.19	4.37	3.18	4.63	3.13	4.84	3.06
23.0	3.41	2.77	3.53	2.83	3.77	2.94	3.86	3.01	4.04	3.13	4.15	3.12	4.27	3.11	4.53	3.06	4.73	2.99
25.0	3.34	2.71	3.45	2.77	3.68	2.88	3.77	2.94	3.95	3.06	4.06	3.05	4.18	3.04	4.42	3.00	4.63	2.92
27.0	3.26	2.64	3.37	2.70	3.60	2.81	3.69	2.87	3.86	2.99	3.97	2.98	4.08	2.97	4.32	2.93	4.52	2.86
29.0	3.18	2.58	3.30	2.64	3.52	2.75	3.60	2.80	3.77	2.92	3.88	2.91	3.99	2.90	4.22	2.86	4.42	2.79
31.0	3.11	2.52	3.22	2.58	3.43	2.68	3.51	2.74	3.68	2.85	3.78	2.84	3.89	2.83	4.12	2.79	4.31	2.72
33.0	3.03	2.46	3.14	2.51	3.35	2.62	3.43	2.67	3.59	2.78	3.69	2.77	3.80	2.76	4.02	2.72	4.21	2.66
35.0	2.96	2.40	3.06	2.45	3.27	2.55	3.34	2.60	3.50	2.71	3.60	2.70	3.70	2.69	3.92	2.66	4.10	2.59
37.0	2.88	2.34	2.98	2.39	3.18	2.48	3.26	2.54	3.41	2.64	3.51	2.63	3.61	2.62	3.82	2.59	4.00	2.53
39.0	2.81	2.27	2.90	2.32	3.10	2.42	3.17	2.47	3.32	2.57	3.42	2.56	3.51	2.55	3.72	2.52	3.89	2.46
40.0	2.77	2.24	2.86	2.29	3.06	2.39	3.13	2.44	3.27	2.54	3.37	2.53	3.47	2.52	3.67	2.49	3.84	2.43
42.0	2.69	2.18	2.79	2.23	2.97	2.32	3.04	2.37	3.18	2.47	3.28	2.46	3.37	2.45	3.57	2.42	3.73	2.36
43.0	2.65	2.15	2.75	2.20	2.93	2.29	3.00	2.34	3.14	2.43	3.23	2.42	3.32	2.42	3.52	2.38	3.68	2.33
45.0	2.58	2.09	2.67	2.14	2.85	2.22	2.91	2.27	3.05	2.36	3.14	2.35	3.23	2.35	3.42	2.31	3.58	2.26
46.0	2.54	2.06	2.63	2.10	2.80	2.19	2.87	2.24	3.00	2.33	3.09	2.32	3.18	2.31	3.37	2.28	3.52	2.23

2-7-5. Part load performance

Indoor : RAV-HM301U1TP-E / TR
Outdoor : RAV-GM302ATP-E / TR

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	900	190	800	160
RATING	W	2500	690	3400	1030
MAXIMUM	W	3000	920	4500	1500

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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	2981	542	2683	480	2385	419	2087	358	1789	296	1491	235	1193	174	1073	149	1073	149	1073	149
21	2949	552	2654	489	2359	427	2064	364	1770	302	1475	239	1180	177	1062	152	1062	152	1062	152
22	2917	561	2625	498	2334	434	2042	371	1750	307	1459	244	1167	180	1050	155	1050	155	1050	155
23	2885	571	2597	507	2308	442	2020	377	1731	313	1443	248	1154	183	1039	157	1039	157	1039	157
24	2853	581	2568	515	2282	450	1997	384	1712	318	1426	252	1141	186	1027	160	1027	160	1027	160
25	2821	591	2539	524	2257	457	1975	390	1693	323	1410	256	1128	190	1016	163	1016	163	1016	163
26	2789	601	2510	533	2231	465	1952	397	1673	329	1394	261	1116	193	1004	165	1004	165	1004	165
27	2757	611	2481	542	2205	473	1930	403	1654	334	1378	265	1103	196	992	168	992	168	992	168
28	2725	621	2452	550	2180	480	1907	410	1635	340	1362	269	1090	199	981	171	981	171	981	171
29	2693	631	2423	559	2154	488	1885	416	1616	345	1346	274	1077	202	969	174	969	174	969	174
30	2660	641	2394	568	2128	495	1862	423	1596	350	1330	278	1064	205	958	176	958	176	958	176
31	2628	650	2366	577	2103	503	1840	430	1577	356	1314	282	1051	209	946	179	946	179	946	179
32	2596	660	2337	586	2077	511	1817	436	1558	361	1298	287	1039	212	935	182	935	182	935	182
33	2564	670	2308	594	2051	518	1795	443	1539	367	1282	291	1026	215	923	185	923	185	923	185
34	2532	680	2279	603	2026	526	1772	449	1519	372	1266	295	1013	218	912	187	912	187	912	187
35	2500	690	2250	612	2000	534	1750	456	1500	378	1250	299	1000	221	900	190	900	190	900	190
36	2468	700	2221	621	1974	541	1728	462	1481	383	1234	304	987	224	888	193	888	193	888	193
37	2436	710	2192	629	1949	549	1705	469	1462	388	1218	308	974	228	877	195	877	195	877	195
38	2404	720	2163	638	1923	557	1683	475	1442	394	1202	312	962	231	865	198	865	198	865	198
39	2372	730	2135	647	1897	564	1660	482	1423	399	1186	317	949	234	854	201	854	201	854	201
40	2340	739	2106	656	1872	572	1638	488	1404	405	1170	321	936	237	842	204	842	204	842	204
41	2308	749	2077	664	1846	580	1615	495	1385	410	1154	325	923	240	831	206	831	206	831	206
42	2275	759	2048	673	1820	587	1593	501	1365	415	1138	329	910	243	819	209	819	209	819	209
43	2243	769	2019	682	1795	595	1570	508	1346	421	1122	334	897	247	808	212	808	212	808	212
44	2211	779	1990	691	1769	603	1548	514	1327	426	1106	338	885	250	796	215	796	215	796	215
45	2179	789	1961	700	1743	610	1525	521	1308	432	1090	342	872	253	785	217	785	217	785	217
46	2147	799	1932	708	1718	618	1503	527	1288	437	1074	347	859	256	773	220	773	220	773	220

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	1540	618	1386	550	1232	482	1078	414	924	345	770	277	616	209	462	140	362	96	362	96
-14	1636	636	1472	566	1309	496	1145	425	982	355	818	285	654	215	491	144	385	99	385	99
-13	1732	654	1559	582	1386	510	1213	437	1039	365	866	293	693	221	520	148	408	102	408	102
-12	1829	672	1646	598	1463	523	1280	449	1097	375	914	301	731	227	549	152	430	104	430	104
-11	1925	690	1732	613	1540	537	1347	461	1155	385	962	309	770	233	577	156	453	107	453	107
-10	2021	707	1819	629	1617	551	1415	473	1213	395	1011	317	808	239	606	160	476	110	476	110
-9	2117	725	1906	645	1694	565	1482	485	1270	405	1059	325	847	245	635	164	498	113	498	113
-8	2214	743	1992	661	1771	579	1549	497	1328	415	1107	333	885	251	664	169	521	115	521	115
-7	2310	761	2079	677	1848	593	1617	509	1386	425	1155	341	924	257	693	173	543	118	543	118
-6	2327	778	2094	692	1862	606	1629	520	1396	434	1163	348	931	262	698	176	548	121	548	121
-5	2344	794	2110	707	1875	619	1641	531	1406	443	1172	356	938	268	703	180	552	123	552	123
-4	2361	811	2125	721	1889	632	1653	542	1417	453	1181	363	944	274	708	184	556	126	556	126
-3	2378	828	2140	736	1903	645	1665	553	1427	462	1189	371	951	279	713	188	560	129	560	129
-2	2395	845	2156	751	1916	658	1677	565	1437	471	1198	378	958	285	719	192	564	131	564	131
-1	2412	861	2171	766	1930	671	1689	576	1447	481	1206	386	965	290	724	195	568	134	568	134
0	2430	878	2187	781	1944	684	1701	587	1458	490	1215	393	972	296	729	199	572	136	572	136
1	2447	895	2202	796	1957	697	1713	598	1468	499	1223	401	979	302	734	203	576	139	576	139
2	2464	912	2217	811	1971	710	1725	609	1478	509	1232	408	986	307	739	207	580	142	580	142
3	2504	924	2254	822	2003	720	1753	618	1502	516	1252	414	1002	312	751	210	589	143	589	143
4	2544	936	2290	833	2036	729	1781	626	1527	522	1272	419	1018	316	763	212	599	145	599	145
5	2585	948	2326	844	2068	739	1809	634	1551	529	1292	425	1034	320	775	215	608	147	608	147
6	3312	1014	2981	902	2650	790	2319	678	1987	566	1656	454	1325	342	994	230	779	158	779	158
7	3400	1030	3060	916	2720	802	2380	689	2040	575	1700	461	1360	347	1020	234	800	160	800	160
8	3488	1046	3139	930	2790	815	2441	699	2093	584	1744	468	1395	353	1046	237	821	162	821	162
9	3575	1062	3218	945	2860	827	2503	710	2145	593	1788	475	1430	358	1073	241	841	165	841	165
10	3663	1078	3297	959	2931	840	2564	721	2198	602	1832	483	1465	364	1099	244	862	167	862	167
11	3751	1094	3376	973	3001	852	2626	731	2251	611	1875	490	1500	369	1125	248	883	170	883	170
12	3839	1110	3455	987	3071	865	2687	742	2303	619	1919	497	1535	374	1152	252	903	172	903	172
13	3926	1126	3534	1001	3141	877	2749	753	2356	628	1963	504	1571	380	1178	255	924	175	924	175
14	4014	1142	3613	1016	3211	889	2810	763	2409	637	2007	511	1606	385	1204	259	945	177	945	177
15	4102	1158	3692	1030	3282	902	2871	774	2461	646	2051	518	1641	390	1231	263	965	180	965	180
16	4190	1174	3771	1044	3352	914	2933	785	2514	655	2095	525	1676	396	1257	266	986	182	986	182
17	4277	1189	3850	1058	3422	927	2994	795	2566	664	2139	533	1711	401	1283	270	1006	185	1006	185
18	4365	1205	3929	1072	3492	939	3056	806	2619	673	2183	540	1746	407	1310	273	1027	187	1027	187
19	4453	1221	4008	1086	3562	952	3117	817	2672	682	2226	547	1781	412	1336	277	1048	190	1048	190
20	4541	1237	4087	1101	3633	964	3178	827	2724	691	2270	554	1816	417	1362	281	1068	192	1068	192
21	4628	1253	4166	1115	3703	976	3240	838	2777	700	2314	561	1851	423	1389	284	1089	195	1089	195
22	4716	1269	4245	1129	3773	989	3301	849	2830	708	2358	568	1886	428	1415	288	1110	197	1110	197
23	4804	1285	4323	1143	3843	1001	3363	859	2882	717	2402	575	1922	433	1441	291	1130	200	1130	200
24	4892	1301	4402	1157	3913	1014	3424	870	2935	726	2446	583	1957	439	1467	295	1151	202	1151	202

Indoor : RAV-HM401U1TP-E / TR

Outdoor : RAV-GM402ATP-E / TR

Operation range	Cooling		Heating	
	Q	P	Q	P
MINIMUM	W	900	230	800
RATING	W	3600	1130	4000
MAXIMUM	W	4000	1400	5000

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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	4293	887	3864	793	3434	699	3005	604	2576	510	2147	416	1717	322	1288	228	1073	181	1073	181
21	4247	903	3822	807	3397	711	2973	615	2548	520	2123	424	1699	328	1274	232	1062	184	1062	184
22	4201	919	3781	822	3360	724	2940	627	2520	529	2100	431	1680	334	1260	236	1050	187	1050	187
23	4154	936	3739	836	3324	737	2908	638	2493	538	2077	439	1662	339	1246	240	1039	190	1039	190
24	4108	952	3697	851	3287	750	2876	649	2465	548	2054	446	1643	345	1232	244	1027	194	1027	194
25	4062	968	3656	865	3250	762	2843	660	2437	557	2031	454	1625	351	1219	248	1016	197	1016	197
26	4016	984	3614	880	3213	775	2811	671	2409	566	2008	462	1606	357	1205	253	1004	200	1004	200
27	3970	1000	3573	894	3176	788	2779	682	2382	575	1985	469	1588	363	1191	257	992	204	992	204
28	3923	1017	3531	909	3139	801	2746	693	2354	585	1962	477	1569	369	1177	261	981	207	981	207
29	3877	1033	3489	923	3102	813	2714	704	2326	594	1939	484	1551	375	1163	265	969	210	969	210
30	3831	1049	3448	938	3065	826	2682	715	2299	603	1916	492	1532	381	1149	269	958	214	958	214
31	3785	1065	3406	952	3028	839	2649	726	2271	613	1892	500	1514	386	1135	273	946	217	946	217
32	3739	1081	3365	967	2991	852	2617	737	2243	622	1869	507	1495	392	1122	278	935	220	935	220
33	3692	1098	3323	981	2954	864	2585	748	2215	631	1846	515	1477	398	1108	282	923	223	923	223
34	3646	1114	3282	996	2917	877	2552	759	2188	641	1823	522	1458	404	1094	286	912	227	912	227
35	3600	1130	3240	1010	2880	890	2520	770	2160	650	1800	530	1440	410	1080	290	900	230	900	230
36	3554	1146	3198	1024	2843	903	2488	781	2132	659	1777	538	1422	416	1066	294	888	233	888	233
37	3508	1162	3157	1039	2806	916	2455	792	2105	669	1754	545	1403	422	1052	298	877	237	877	237
38	3461	1179	3115	1053	2769	928	2423	803	2077	678	1731	553	1385	428	1038	302	865	240	865	240
39	3415	1195	3074	1068	2732	941	2391	814	2049	687	1708	560	1366	434	1025	307	854	243	854	243
40	3369	1211	3032	1082	2695	954	2358	825	2021	697	1685	568	1348	439	1011	311	842	246	842	246
41	3323	1227	2991	1097	2658	967	2326	836	1994	706	1661	576	1329	445	997	315	831	250	831	250
42	3277	1243	2949	1111	2621	979	2294	847	1966	715	1638	583	1311	451	983	319	819	253	819	253
43	3230	1260	2907	1126	2584	992	2261	858	1938	725	1615	591	1292	457	969	323	808	256	808	256
44	3184	1276	2866	1140	2547	1005	2229	869	1911	734	1592	598	1274	463	955	327	796	260	796	260
45	3138	1292	2824	1155	2510	1018	2197	880	1883	743	1569	606	1255	469	941	332	785	263	785	263
46	3092	1308	2783	1169	2473	1030	2164	891	1855	752	1546	614	1237	475	928	336	773	266	773	266

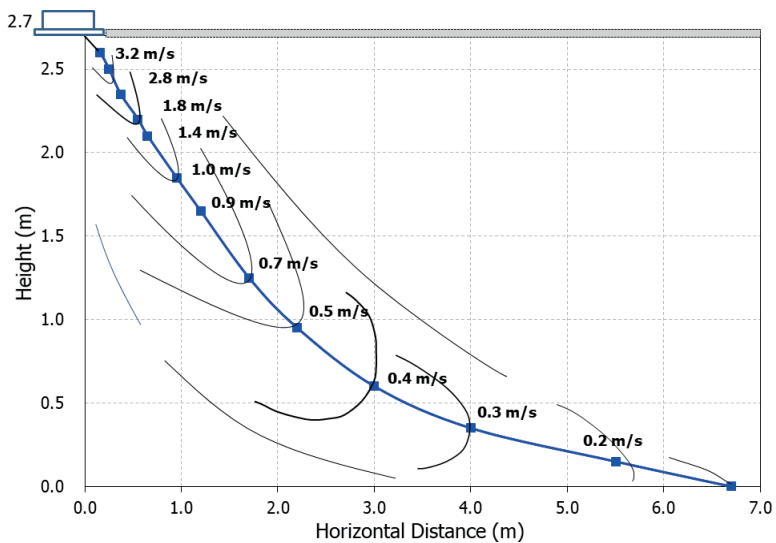
Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	1812	793	1630	707	1449	621	1268	536	1087	450	906	365	725	279	543	194	362	108	362	108
-14	1902	815	1712	727	1522	639	1332	551	1141	463	951	375	761	287	571	199	380	111	380	111
-13	1993	838	1793	748	1594	657	1395	567	1196	476	996	386	797	295	598	205	399	114	399	114
-12	2083	861	1875	768	1667	675	1458	582	1250	489	1042	396	833	303	625	210	417	117	417	117
-11	2174	884	1957	788	1739	693	1522	598	1304	502	1087	407	870	311	652	216	435	121	435	121
-10	2264	907	2038	809	1812	711	1585	613	1359	515	1132	417	906	319	679	222	453	124	453	124
-9	2355	929	2120	829	1884	729	1649	628	1413	528	1178	428	942	327	707	227	471	127	471	127
-8	2446	952	2201	849	1957	747	1712	644	1467	541	1223	438	978	335	734	233	489	130	489	130
-7	2536	975	2283	870	2029	765	1775	659	1522	554	1268	449	1014	343	761	238	507	133	507	133
-6	2576	997	2319	889	2061	781	1804	674	1546	566	1288	459	1031	351	773	243	515	136	515	136
-5	2617	1018	2355	908	2093	798	1832	688	1570	578	1308	468	1047	359	785	249	523	139	523	139
-4	2657	1039	2391	927	2126	815	1860	703	1594	591	1329	478	1063	366	797	254	531	142	531	142
-3	2697	1061	2428	946	2158	832	1888	717	1618	603	1349	488	1079	374	809	259	539	145	539	145
-2	2738	1082	2464	965	2190	849	1916	732	1643	615	1369	498	1095	381	821	264	548	148	548	148
-1	2778	1104	2500	985	2222	865	1944	746	1667	627	1389	508	1111	389	833	270	556	151	556	151
0	2818	1125	2536	1004	2254	882	1973	761	1691	639	1409	518	1127	396	845	275	564	153	564	153
1	2858	1147	2572	1023	2287	899	2001	775	1715	652	1429	528	1143	404	857	280	572	156	572	156
2	2899	1168	2609	1042	2319	916	2029	790	1739	664	1449	538	1159	412	870	285	580	159	580	159
3	2946	1184	2651	1056	2357	928	2062	800	1768	673	1473	545	1178	417	884	289	589	161	589	161
4	2994	1200	2694	1070	2395	941	2095	811	1796	682	1497	552	1197	423	898	293	599	164	599	164
5	3041	1215	2737	1084	2433	953	2129	822	1825	690	1520	559	1216	428	912	297	608	166	608	166
6	3897	1300	3507	1159	3117	1019	2728	879	2338	738	1948	598	1559	458	1169	318	779	177	779	177
7	4000	1320	3600	1178	3200	1035	2800	893	2400	750	2000	608	1600	465	1200	323	800	180	800	180
8	4103	1340	3693	1196	3283	1051	2872	906	2462	762	2052	617	1641	472	1231	327	821	183	821	183
9	4206	1361	3786	1214	3365	1067	2945	920	2524	773	2103	626	1683	479	1262	332	841	186	841	186
10	4310	1381	3879	1232	3448	1083	3017	934	2586	785	2155	636	1724	487	1293	337	862	188	862	188
11	4413	1402	3972	1250	3530	1099	3089	948	2648	796	2206	645	1765	494	1324	342	883	191	883	191
12	4516	1422	4065	1269	3613	1115	3161	962	2710	808	2258	655	1806	501	1355	347	903	194	903	194
13	4619	1443	4157	1287	3695	1131	3234	975	2772	820	2310	664	1848	508	1386	352	924	197	924	197
14	4723	1463	4250	1305	3778	1147	3306	989	2834	831	2361	673	1889	515	1417	357	945	200	945	200
15	4826	1484	4343	1323	3861	1163	3378	1003	2895	843	2413	683	1930	523	1448	362	965	202	965	202
16	4929	1504	4436	1342	3943	1179	3450	1017	2957	855	2465	692	1972	530	1479	367	986	205	986	205
17	5032	1524	4529	1360	4026	1195	3523	1031	3019	866	2516	702	2013	537	1510	372	1006	208	1006	208
18	5135	1545	4622	1378	4108	1211	3595	1045	3081	878	2568	711	2054	544	1541	377	1027	211	1027	211
19	5239	1565	4715	1396	4191	1227	3667	1058	3143	889	2619	720	2095	551	1572	382	1048	213	1048	213
20	5342	1586	4808	1415	4274	1243	3739	1072	3205	901	2671	730	2137	559	1603	387	1068	216	1068	216
21	5445	1606	4901	1433	4356	1259	3812	1086	3267	913	2723	739	2178	566	1634	392	1089	219	1089	219
22	5548	1627	4994	1451	4439	1275	3884	1100	3329	924	2774	749	2219	573	1665	397	1110	222	1110	222
23	5652	1647	5086	1469	4521	1291	3956	1114	3391	936	2826	758	2261	580	1695	402	1130	225	1130	225
24	5755	1667	5179	1487	4604	1307	4028	1127	3453	947	2877	767	2302	587	1726	407	1151	227	1151	227

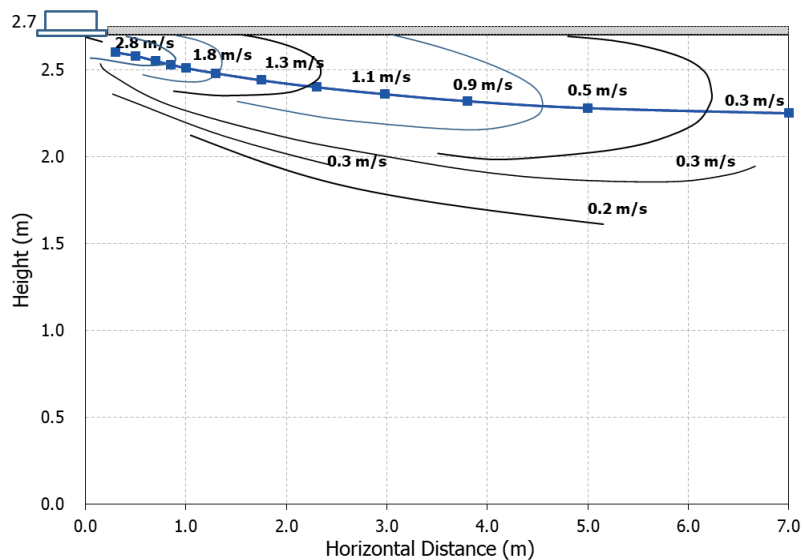
2-7-6. Air throw distance chart

RAV-HM301U1TP-E / TR

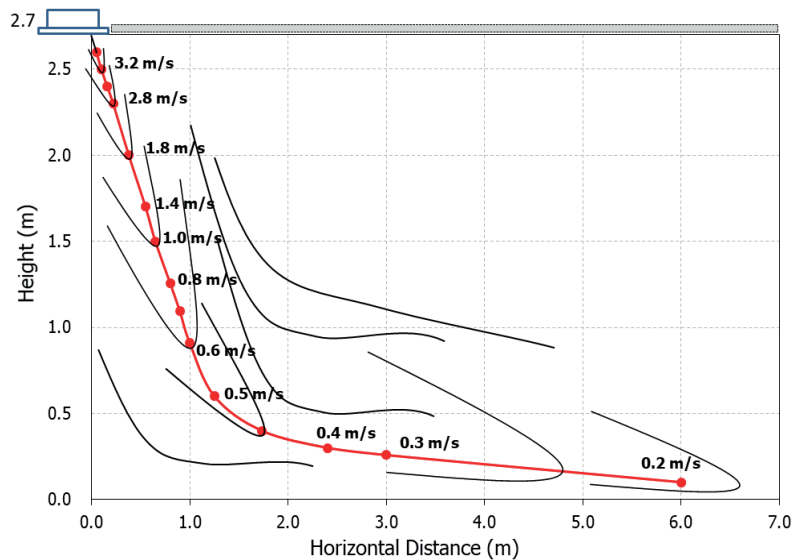
Center louver



Upper louver

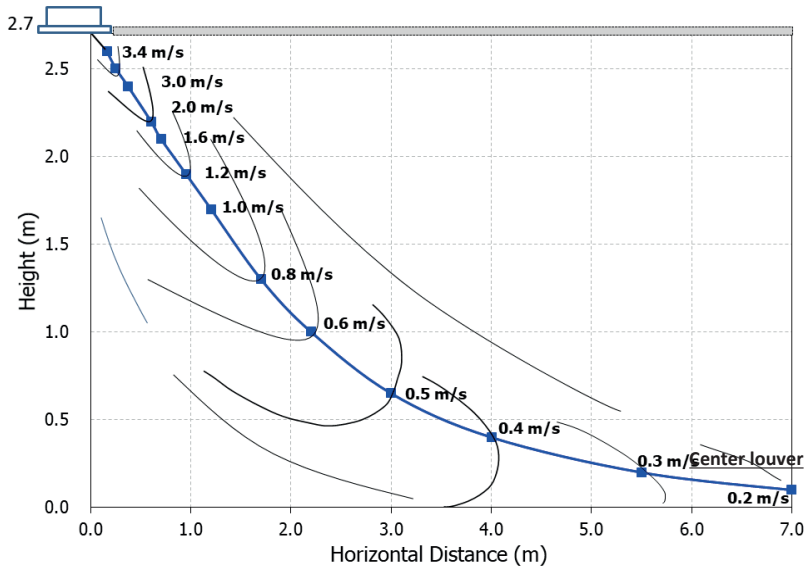


Lower louver

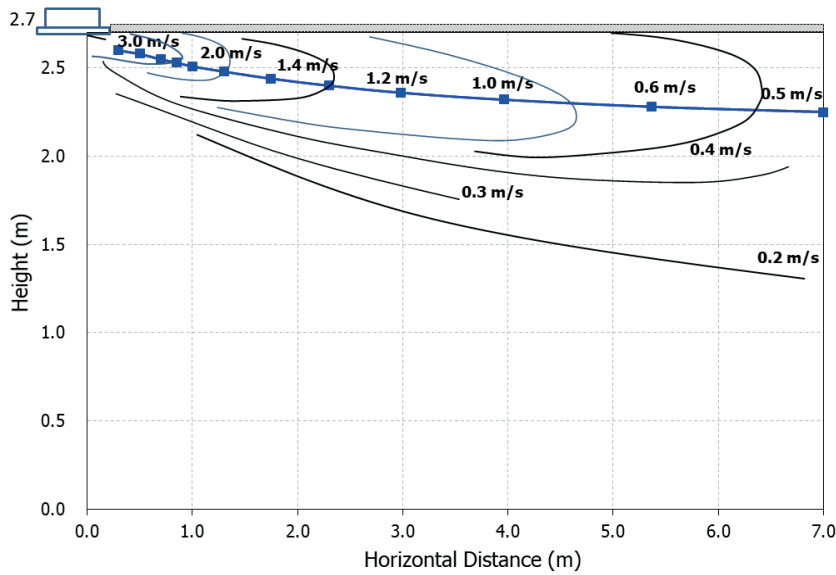


RAV-HM401U1TP-E / TR

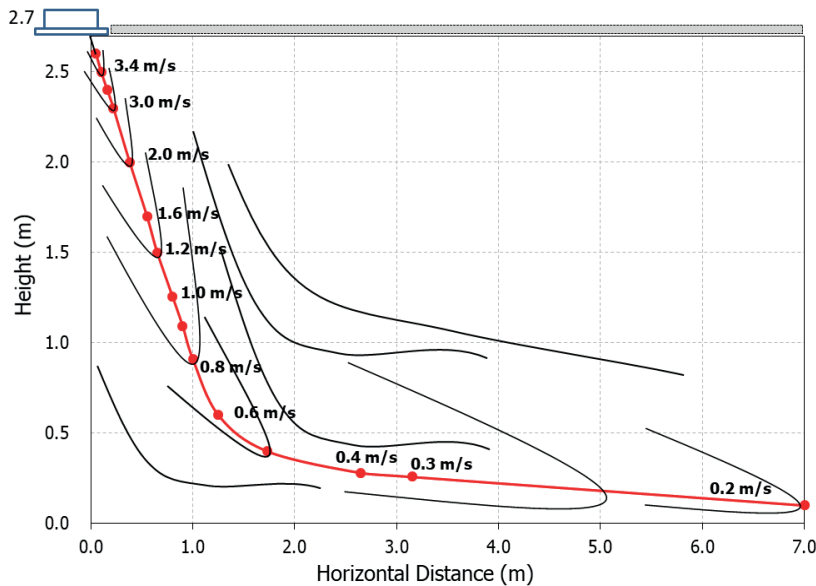
Center louver



Upper louver



Lower louver

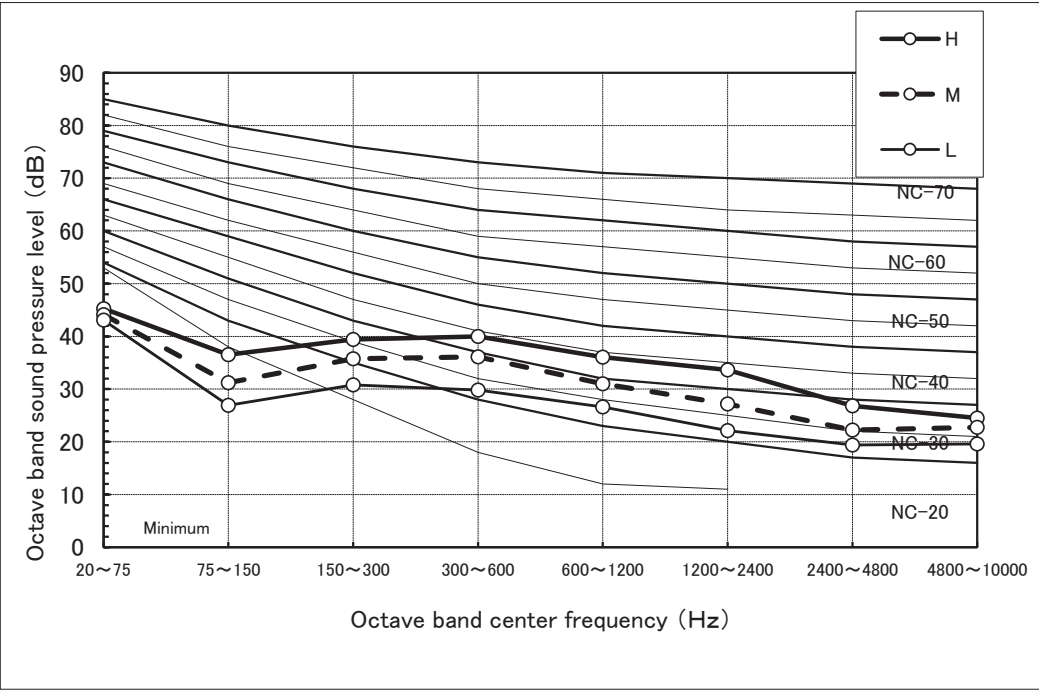


2-7-7. Sound Characteristics (NC curve)

RAV-HM301U1TP-E / TR

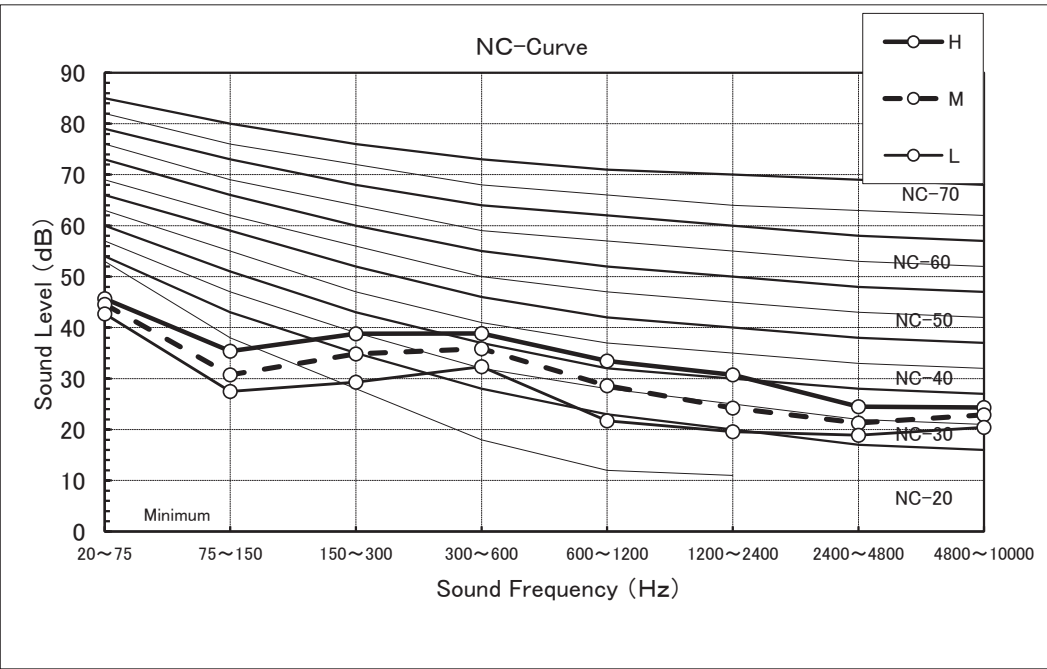
Cooling

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	39	35	30



Heating

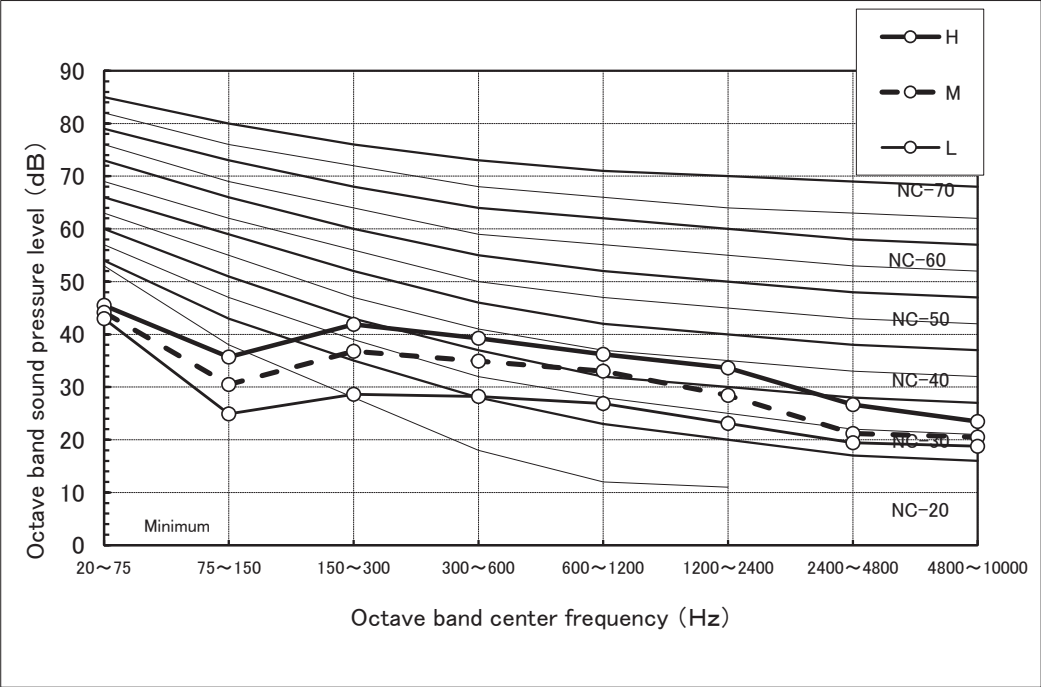
Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	39	35	30



RAV-HM401U1TP-E / TR

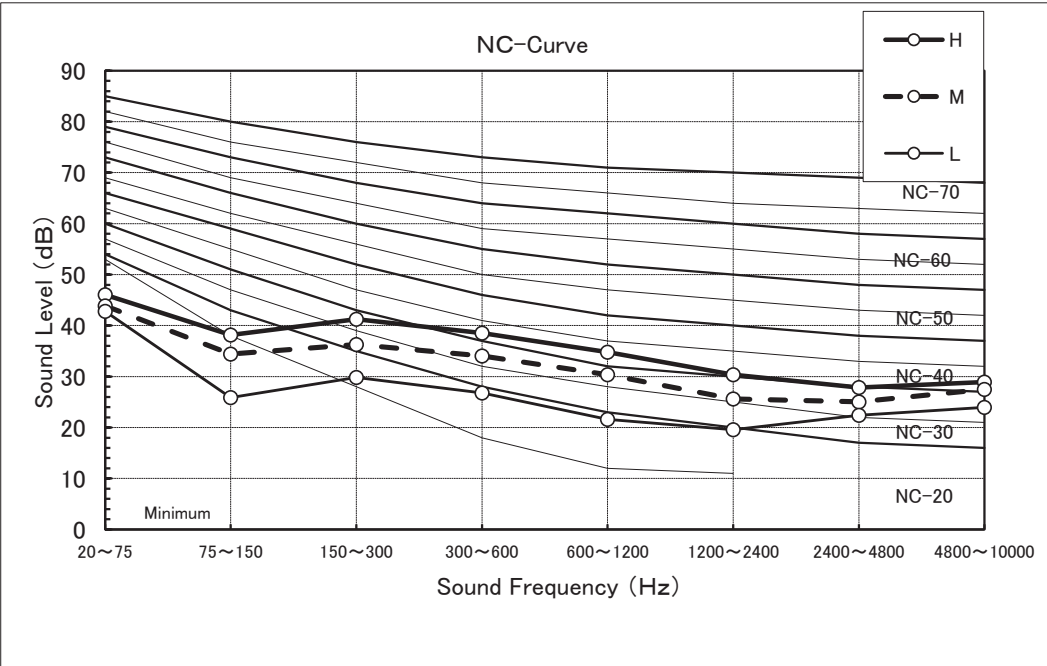
Cooling

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	36	30



Heating

Specification (dB)			
Fan tap	H	M	L
Sound pressure level (dB(A))	40	36	30



2-8. Compact slim duct type

2-8-1. Specifications

2-8-2. Dimension

2-8-3. Wiring Diagrams

2-8-4. Sensible Capacity Table

2-8-5. Part Load Performance

2-8-6. Fan Static Characteristic

2-8-7. Sound Characteristics (NC Curve)

2-8-1. Specifications

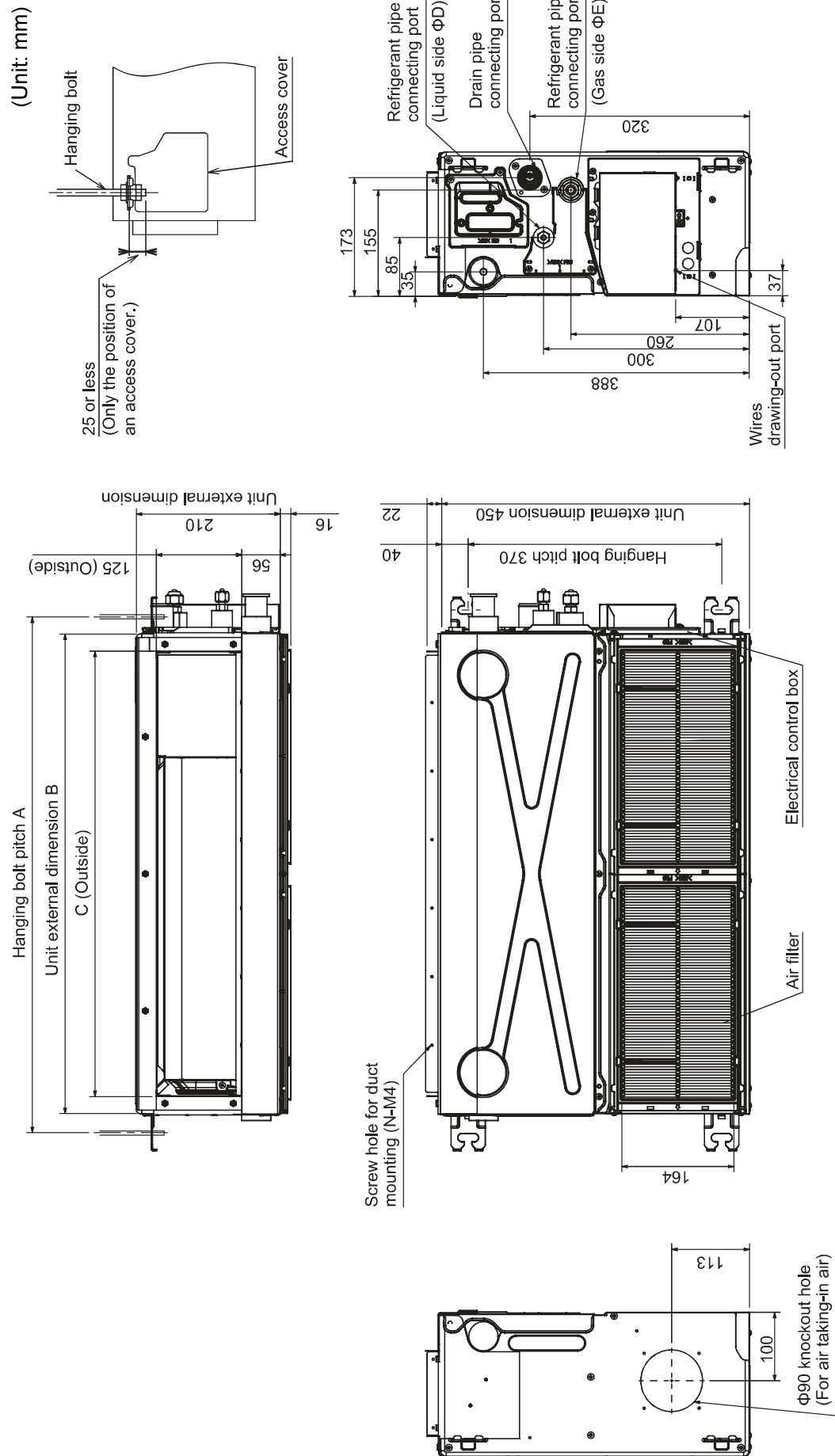
Compact Slim Duct <Single type>

Model name	Indoor unit1			RAV-HM301SDTY-E	RAV-HM401SDTY-E
	Outdoor unit			RAV-GM302ATP-E	RAV-GM402ATP-E
Cooling capacity			kW	2.5<0.9-3.0>	3.6<0.9-4.0>
Heating capacity			kW	3.4<0.8-4.5>	4.0<0.8-5.0>
Power supply				1 phase 220V-240V, 50Hz	1 phase 220V-240V, 50Hz
Electrical characteristics	Cooling	Running current	A	2.82-2.60	4.60-4.20
		Power consumption	kW	0.56(0.19-0.92)	0.93 (0.18-2.00)
		Power factor	%	90	92
		EER		4.46	3.87
		SEER		6.41	6.03
		Energy star rating		A++	A+
	Heating	Running current	A	4.2-3.85	4.75-4.35
		Power consumption	kW	0.86(0.17-1.40)	0.97(0.17-1.70)
		Power factor	%	93	93
		COP		3.95	4.12
		SCOP		4.35	4.00
		Energy star rating		A+	A+
	Maximum current		A	7.9	9.2
Appearance	Main unit			Zinc hot dipping steel plate	Zinc hot dipping steel plate
Outer dimension	Main unit	Height	mm	210	210
		Width	mm	700	700
		Depth	mm	450	450
Total weight	Main unit			kg	15
Heat exchanger				Finned tube	Finned tube
Fan unit	Fan			Centrifugal fan	Centrifugal fan
	Standard air flow	H/M/L	m3/min	9.5/8.3/7.0	10/8.7/7.3
	Motor		W	50	50
Air filter				Standard filter(Long life filter)	Standard filter(Long life filter)
Controller (packed with indoor unit)				-	-
Controller (sold separately)				RBC-ASCU11-E	RBC-ASCU11-E
Sound pressure level	Cooling/Heating		dB(A)	32/29/26	33/30/27
Sound power level	Cooling/Heating		dB(A)	54/50/46	54/50/46
Connecting pipe	Gas side		mm	9.5	12.7
	Liquid side		mm	6.4	6.4
	Drain port		mm	25(Polyvinyl chloride tube)	25(Polyvinyl chloride tube)

Model name	Indoor unit1			RAV-HM561SDTY-E/TR	
	Outdoor unit			RAV-GM562ATP-E/TR	
Cooling capacity			kW	5.0<1.5-5.6>	
Heating capacity			kW	5.3<1.5-6.3>	
Power supply				1 phase 220V-240V, 50Hz	
Electrical characteristics	Cooling	Running current		A	8.98-8.20
		Power consumption		kW	1.86(0.28-2.05)
		Power factor		%	97
		EER			2.69
		SEER			5.80
		Energy star rating			A+
	Heating	Running current		A	7.03-6.44
		Power consumption		kW	1.5(0.22-2.40)
		Power factor		%	97
		COP			3.53
		SCOP			4.00
		Energy star rating			A+
Maximum current			A	15.5	
Appearance	Main unit			Zinc hot dipping steel plate	
Outer dimension	Main unit	Height	mm	210	
		Width	mm	900	
		Depth	mm	450	
Total weight	Main unit		kg	19	
Heat exchanger				Finned tube	
Fan unit	Fan			Centrifugal fan	
	Standard air flow	H/M/L	m3/min	13.0/12.2/10.8	
	Motor		W	94	
Air filter				Standard filter(Long life filter)	
Controller (packed with inndoor unit)				-	
Controller (sold separately)				RBC-ASCU11-E	
Sound pressure level	Cooling/Heating		dB(A)	34/32/29	
Sound power level	Cooling/Heating		dB(A)	56/54/51	
Connecting pipe	Gas side		mm	12.7	
	Liquid side		mm	6.4	
	Drain port		mm	25(Polyvinyl chloride tube)	

2-8-2. Dimension

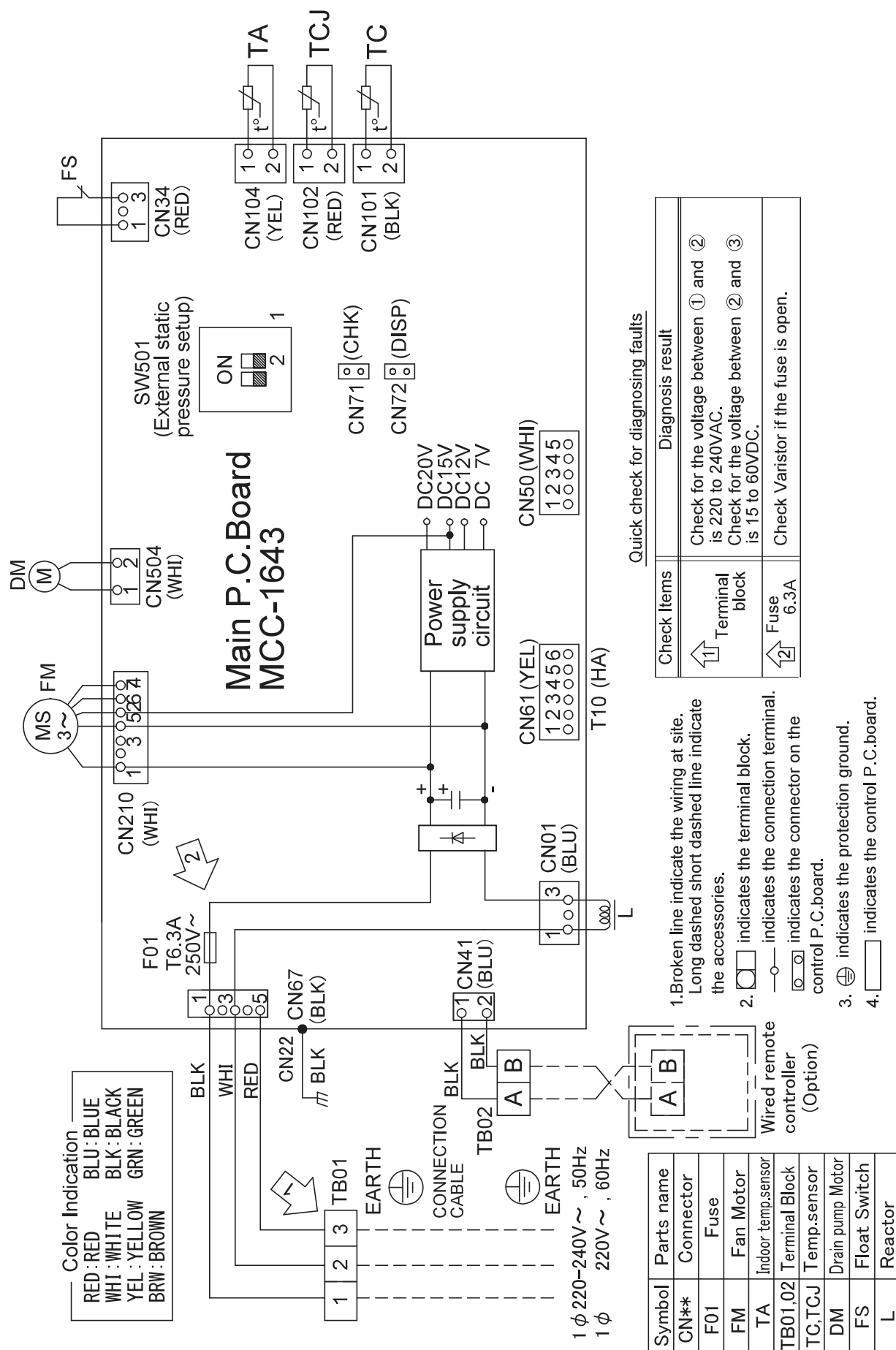
RAV-HM*__1SDTY-E / TR (*30 / 40 / 56)



Model type	A	B	C	D	E
301	770	700	650	6.4	9.5
401	770	700	650	6.4	12.7
561	970	900	850	6.4	12.7

2-8-3. Wiring diagrams

RAV-HM*___1SDTY-E / TR (*30 / 40 / 56)



2-8-4. Sensible Capacity Table

Product models : RAV-HM301SDTY-E ; RAV-GM302ATP-E

Standard Condition			Specification of product at standard condition		
Indoor	27.0 °C DB / 19.0 °C WB		Total Cooling Capacity (TC)	2.50	kW
Outdoor	35.0 °C DB / 24.0 °C WB		Sensible Heat Capacity (SHC)	2.10	kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	2.71	2.44	2.81	2.50	3.00	2.61	3.07	2.66	3.21	2.77	3.30	2.77	3.40	2.78	3.60	2.76	3.76	2.72
12.0	2.66	2.40	2.75	2.45	2.94	2.56	3.01	2.61	3.15	2.72	3.24	2.72	3.33	2.72	3.53	2.71	3.69	2.66
14.0	2.61	2.35	2.70	2.40	2.88	2.51	2.95	2.56	3.08	2.67	3.17	2.67	3.26	2.67	3.46	2.65	3.62	2.61
16.0	2.55	2.30	2.64	2.35	2.82	2.46	2.89	2.51	3.02	2.61	3.11	2.61	3.20	2.61	3.39	2.60	3.54	2.56
18.0	2.50	2.25	2.59	2.31	2.76	2.41	2.83	2.46	2.96	2.56	3.05	2.56	3.13	2.56	3.32	2.55	3.47	2.50
20.0	2.45	2.21	2.53	2.26	2.70	2.36	2.77	2.41	2.90	2.51	2.98	2.50	3.07	2.51	3.25	2.49	3.40	2.45
21.0	2.42	2.18	2.51	2.23	2.68	2.33	2.74	2.38	2.86	2.48	2.95	2.48	3.03	2.48	3.21	2.46	3.36	2.43
23.0	2.37	2.13	2.45	2.18	2.62	2.28	2.68	2.33	2.80	2.42	2.89	2.42	2.97	2.43	3.14	2.41	3.29	2.37
25.0	2.32	2.09	2.40	2.14	2.56	2.23	2.62	2.28	2.74	2.37	2.82	2.37	2.90	2.37	3.07	2.36	3.21	2.32
27.0	2.26	2.04	2.34	2.09	2.50	2.18	2.56	2.22	2.68	2.32	2.76	2.32	2.84	2.32	3.00	2.30	3.14	2.27
29.0	2.21	1.99	2.29	2.04	2.44	2.13	2.50	2.17	2.62	2.26	2.69	2.26	2.77	2.26	2.93	2.25	3.07	2.21
31.0	2.16	1.94	2.23	1.99	2.38	2.08	2.44	2.12	2.55	2.21	2.63	2.21	2.70	2.21	2.86	2.20	2.99	2.16
33.0	2.11	1.90	2.18	1.94	2.33	2.03	2.38	2.07	2.49	2.15	2.56	2.15	2.64	2.16	2.79	2.14	2.92	2.11
35.0	2.05	1.85	2.12	1.89	2.27	1.98	2.32	2.02	2.43	2.10	2.50	2.10	2.57	2.10	2.72	2.09	2.85	2.06
37.0	2.00	1.80	2.07	1.84	2.21	1.92	2.26	1.97	2.37	2.05	2.44	2.05	2.51	2.05	2.65	2.04	2.78	2.00
39.0	1.95	1.75	2.02	1.80	2.15	1.87	2.20	1.91	2.30	1.99	2.37	1.99	2.44	1.99	2.58	1.98	2.70	1.95
40.0	1.92	1.73	1.99	1.77	2.12	1.85	2.17	1.89	2.27	1.97	2.34	1.97	2.41	1.97	2.55	1.96	2.67	1.92
42.0	1.87	1.68	1.93	1.72	2.06	1.80	2.11	1.84	2.21	1.91	2.28	1.91	2.34	1.91	2.48	1.90	2.59	1.87
43.0	1.84	1.66	1.91	1.70	2.03	1.77	2.08	1.81	2.18	1.88	2.24	1.88	2.31	1.89	2.44	1.87	2.56	1.85
45.0	1.79	1.61	1.85	1.65	1.98	1.72	2.02	1.76	2.12	1.83	2.18	1.83	2.24	1.83	2.37	1.82	2.48	1.79
46.0	1.76	1.59	1.82	1.63	1.95	1.70	1.99	1.73	2.09	1.80	2.15	1.80	2.21	1.80	2.34	1.79	2.45	1.77

Product models : RAV-HM401SDTY-E ; RAV-GM402ATP-E

Standard Condition			Specification of product at standard condition		
Indoor	27.0 °C DB / 19.0 °C WB		Total Cooling Capacity (TC)	3.60	kW
Outdoor	35.0 °C DB / 24.0 °C WB		Sensible Heat Capacity (SHC)	3.00	kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	3.91	3.49	4.04	3.57	4.31	3.73	4.42	3.81	4.62	3.96	4.76	3.96	4.89	3.96	5.18	3.94	5.42	3.87
12.0	3.83	3.42	3.96	3.50	4.23	3.66	4.33	3.73	4.53	3.89	4.66	3.89	4.80	3.89	5.08	3.86	5.31	3.80
14.0	3.75	3.36	3.88	3.43	4.15	3.58	4.24	3.66	4.44	3.81	4.57	3.81	4.70	3.81	4.98	3.79	5.21	3.72
16.0	3.68	3.29	3.81	3.37	4.06	3.51	4.16	3.59	4.35	3.73	4.48	3.73	4.61	3.73	4.88	3.71	5.10	3.65
18.0	3.60	3.22	3.73	3.30	3.98	3.44	4.07	3.51	4.26	3.66	4.39	3.65	4.51	3.66	4.78	3.63	5.00	3.57
20.0	3.53	3.15	3.65	3.23	3.89	3.37	3.99	3.44	4.17	3.58	4.29	3.58	4.42	3.58	4.68	3.56	4.89	3.50
21.0	3.49	3.12	3.61	3.19	3.85	3.33	3.94	3.40	4.13	3.54	4.25	3.54	4.37	3.54	4.63	3.52	4.84	3.46
23.0	3.41	3.05	3.53	3.12	3.77	3.26	3.86	3.33	4.04	3.46	4.15	3.46	4.27	3.46	4.53	3.44	4.73	3.39
25.0	3.34	2.98	3.45	3.05	3.68	3.18	3.77	3.25	3.95	3.39	4.06	3.39	4.18	3.39	4.42	3.37	4.63	3.31
27.0	3.26	2.92	3.37	2.98	3.60	3.11	3.69	3.18	3.86	3.31	3.97	3.31	4.08	3.31	4.32	3.29	4.52	3.23
29.0	3.18	2.85	3.30	2.91	3.52	3.04	3.60	3.10	3.77	3.23	3.88	3.23	3.99	3.23	4.22	3.21	4.42	3.16
31.0	3.11	2.78	3.22	2.84	3.43	2.97	3.51	3.03	3.68	3.16	3.78	3.15	3.89	3.16	4.12	3.14	4.31	3.08
33.0	3.03	2.71	3.14	2.77	3.35	2.89	3.43	2.96	3.59	3.08	3.69	3.08	3.80	3.08	4.02	3.06	4.21	3.01
35.0	2.96	2.64	3.06	2.71	3.27	2.82	3.34	2.88	3.50	3.00	3.60	3.00	3.70	3.00	3.92	2.98	4.10	2.93
37.0	2.88	2.58	2.98	2.64	3.18	2.75	3.26	2.81	3.41	2.92	3.51	2.92	3.61	2.92	3.82	2.91	4.00	2.86
39.0	2.81	2.51	2.90	2.57	3.10	2.68	3.17	2.73	3.32	2.85	3.42	2.85	3.51	2.85	3.72	2.83	3.89	2.78
40.0	2.77	2.47	2.86	2.53	3.06	2.64	3.13	2.70	3.27	2.81	3.37	2.81	3.47	2.81	3.67	2.79	3.84	2.75
42.0	2.69	2.41	2.79	2.46	2.97	2.57	3.04	2.62	3.18	2.73	3.28	2.73	3.37	2.73	3.57	2.71	3.73	2.67
43.0	2.65	2.37	2.75	2.43	2.93	2.53	3.00	2.59	3.14	2.69	3.23	2.69	3.32	2.69	3.52	2.68	3.68	2.63
45.0	2.58	2.30	2.67	2.36	2.85	2.46	2.91	2.51	3.05	2.62	3.14	2.62	3.23	2.62	3.42	2.60	3.58	2.56
46.0	2.54	2.27	2.63	2.32	2.80	2.42	2.87	2.48	3.00	2.58	3.09	2.58	3.18	2.58	3.37	2.56	3.52	2.52

Product models : RAV-HM561SDTY-E/TR ; RAV-GM562ATP-E/TR

Standard Condition

Indoor	27.0 °C DB / 19.0 °C WB
Outdoor	35.0 °C DB / 24.0 °C WB

Specification of product at standard condition

Total Cooling Capacity (TC)	5.00	kW
Sensible Heat Capacity (SHC)	3.80	kW

Outdoor air temp.	Indoor Air temperature																	
	14.0 °C WB		15.0 °C WB		16.0 °C WB		17.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
	20.0 °C DB		21.0 °C DB		23.0 °C DB		24.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10.0	5.42	4.44	5.61	4.54	5.99	4.74	6.13	4.83	6.42	5.03	6.60	5.02	6.79	5.01	7.19	4.96	7.52	4.85
12.0	5.32	4.36	5.50	4.45	5.87	4.64	6.01	4.74	6.29	4.93	6.48	4.92	6.66	4.91	7.05	4.86	7.38	4.75
14.0	5.21	4.27	5.40	4.37	5.76	4.55	5.89	4.65	6.17	4.83	6.35	4.82	6.53	4.81	6.91	4.76	7.23	4.67
16.0	5.11	4.19	5.29	4.28	5.64	4.46	5.78	4.55	6.04	4.74	6.22	4.73	6.40	4.72	6.77	4.67	7.09	4.57
18.0	5.00	4.10	5.18	4.19	5.52	4.37	5.66	4.46	5.92	4.64	6.09	4.63	6.27	4.62	6.63	4.57	6.94	4.47
20.0	4.90	4.01	5.07	4.10	5.41	4.28	5.54	4.37	5.79	4.54	5.96	4.53	6.13	4.52	6.49	4.47	6.79	4.38
21.0	4.84	3.97	5.01	4.06	5.35	4.23	5.48	4.32	5.73	4.49	5.90	4.48	6.07	4.47	6.43	4.42	6.72	4.34
23.0	4.74	3.88	4.90	3.97	5.23	4.13	5.36	4.22	5.60	4.39	5.77	4.38	5.94	4.37	6.29	4.33	6.57	4.24
25.0	4.63	3.80	4.80	3.88	5.12	4.04	5.24	4.13	5.48	4.30	5.64	4.29	5.80	4.28	6.15	4.24	6.43	4.14
27.0	4.53	3.71	4.69	3.79	5.00	3.96	5.12	4.03	5.36	4.20	5.51	4.19	5.67	4.18	6.01	4.14	6.28	4.05
29.0	4.42	3.62	4.58	3.70	4.88	3.86	5.00	3.95	5.23	4.10	5.39	4.09	5.54	4.08	5.87	4.04	6.14	3.96
31.0	4.32	3.54	4.47	3.61	4.77	3.77	4.88	3.85	5.11	4.00	5.26	3.99	5.41	3.99	5.73	3.95	5.99	3.86
33.0	4.21	3.45	4.36	3.53	4.65	3.67	4.76	3.75	4.98	3.91	5.13	3.90	5.28	3.89	5.59	3.85	5.84	3.77
35.0	4.11	3.36	4.25	3.44	4.54	3.59	4.64	3.66	4.86	3.81	5.00	3.80	5.14	3.79	5.45	3.75	5.70	3.67
37.0	4.00	3.27	4.14	3.35	4.42	3.49	4.52	3.57	4.73	3.71	4.87	3.70	5.01	3.69	5.31	3.65	5.55	3.58
39.0	3.90	3.20	4.03	3.26	4.30	3.40	4.40	3.47	4.61	3.61	4.74	3.61	4.88	3.60	5.17	3.56	5.40	3.49
40.0	2.65	2.17	2.75	2.22	2.93	2.32	3.00	2.37	3.14	2.47	3.23	2.46	3.32	2.46	3.52	2.43	3.68	2.38
42.0	2.43	1.99	2.51	2.04	2.68	2.12	2.75	2.16	2.87	2.25	2.96	2.25	3.04	2.24	3.22	2.22	3.37	2.17
43.0	2.32	1.90	2.40	1.94	2.56	2.03	2.62	2.07	2.74	2.15	2.82	2.14	2.90	2.14	3.07	2.11	3.22	2.08
45.0	1.38	1.13	1.43	1.16	1.52	1.20	1.56	1.23	1.63	1.28	1.68	1.28	1.73	1.28	1.83	1.26	1.91	1.24
46.0	1.27	1.04	1.31	1.06	1.40	1.10	1.43	1.13	1.50	1.18	1.54	1.17	1.59	1.17	1.68	1.16	1.76	1.13

2-8-5. Part load performance

Indoor units: RAV-HM301SDTY-E
Outdoor unit: RAV-GM302ATP-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	900	190	800	170
RATING	W	2500	560	3400	860
MAXIMUM	W	3000	920	4500	1400

Cooling

Cooling Outdoor Temperature DB (°C)		Parts Load (%)																			
		100		90		80		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	2980	440	2680	390	2390	350	2090	310	1790	260	1490	210	1190	160	1070	150	1070	150	1070	150	
21	2950	450	2650	400	2360	350	2060	310	1770	260	1470	220	1180	170	1060	150	1060	150	1060	150	
22	2920	460	2630	410	2330	360	2040	320	1750	270	1460	220	1170	170	1050	150	1050	150	1050	150	
23	2890	460	2600	410	2310	360	2020	320	1730	270	1440	220	1150	170	1040	160	1040	160	1040	160	
24	2850	470	2570	420	2280	370	2000	330	1710	280	1430	230	1140	180	1030	160	1030	160	1030	160	
25	2820	480	2540	430	2260	380	1970	330	1690	280	1410	230	1130	180	1020	160	1020	160	1020	160	
26	2790	490	2510	440	2230	380	1950	340	1670	290	1390	240	1120	180	1000	170	1000	170	1000	170	
27	2760	500	2480	440	2210	390	1930	350	1650	290	1380	240	1100	190	990	170	990	170	990	170	
28	2720	500	2450	450	2180	400	1910	350	1630	300	1360	240	1090	190	980	170	980	170	980	170	
29	2690	510	2420	460	2150	400	1880	360	1620	300	1350	250	1080	190	970	170	970	170	970	170	
30	2660	520	2390	460	2130	410	1860	360	1600	310	1330	250	1060	190	960	180	960	180	960	180	
31	2630	530	2370	470	2100	410	1840	370	1580	310	1310	250	1050	200	950	180	950	180	950	180	
32	2600	540	2340	480	2080	420	1820	370	1560	320	1300	260	1040	200	930	180	930	180	930	180	
33	2560	540	2310	490	2050	430	1790	380	1540	320	1280	260	1030	200	920	180	920	180	920	180	
34	2530	550	2280	490	2030	430	1770	380	1520	330	1270	270	1010	210	910	190	910	190	910	190	
35	2500	560	2250	500	2000	440	1750	390	1500	330	1250	270	1000	210	900	190	900	190	900	190	
36	2470	570	2220	510	1970	450	1730	400	1480	330	1230	270	990	210	890	190	890	190	890	190	
37	2440	580	2190	510	1950	450	1710	400	1460	340	1220	280	970	220	880	200	880	200	880	200	
38	2400	580	2160	520	1920	460	1680	410	1440	340	1200	280	960	220	870	200	870	200	870	200	
39	2370	590	2130	530	1900	470	1660	410	1420	350	1190	290	950	220	850	200	850	200	850	200	
40	2340	600	2110	540	1870	470	1640	420	1400	350	1170	290	940	230	840	200	840	200	840	200	
41	2310	610	2080	540	1850	480	1620	420	1380	360	1150	290	920	230	830	210	830	210	830	210	
42	2280	620	2050	550	1820	480	1590	430	1370	360	1140	300	910	230	820	210	820	210	820	210	
43	2240	620	2020	560	1790	490	1570	430	1350	370	1120	300	900	230	810	210	810	210	810	210	
44	2210	630	1990	560	1770	500	1550	440	1330	370	1110	300	880	240	800	210	800	210	800	210	
45	2180	640	1960	570	1740	500	1530	450	1310	380	1090	310	870	240	780	220	780	220	780	220	
46	2150	650	1930	580	1720	510	1500	450	1290	380	1070	310	860	240	770	220	770	220	770	220	

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	1680	510	1510	460	1340	410	1170	350	1010	300	840	250	670	190	500	140	390	100	390	100
-14	1720	550	1550	490	1380	440	1210	380	1030	320	860	260	690	210	520	150	410	110	410	110
-13	1770	590	1600	530	1420	470	1240	410	1060	340	890	280	710	220	530	160	420	120	420	120
-12	1820	630	1640	560	1460	500	1280	430	1090	370	910	300	730	230	550	170	430	120	430	120
-11	1870	670	1690	600	1500	530	1310	460	1120	390	940	320	750	250	560	180	440	130	440	130
-10	1920	710	1730	630	1540	560	1350	490	1150	410	960	340	770	260	580	190	450	140	450	140
-9	1970	750	1770	670	1580	590	1380	510	1180	430	990	360	790	280	590	200	460	150	460	150
-8	2020	780	1820	700	1620	620	1410	540	1210	460	1010	370	810	290	610	210	480	160	480	160
-7	2070	820	1860	740	1660	650	1450	560	1240	480	1030	390	830	310	620	220	490	160	490	160
-6	2110	820	1900	730	1690	640	1480	560	1270	470	1060	390	850	300	630	220	500	160	500	160
-5	2160	810	1940	720	1730	640	1510	560	1290	470	1080	390	860	300	650	220	510	160	510	160
-4	2200	800	1980	720	1760	630	1540	550	1320	470	1100	380	880	300	660	210	520	160	520	160
-3	2240	800	2020	710	1800	630	1570	550	1350	460	1120	380	900	300	670	210	530	160	530	160
-2	2290	790	2060	710	1830	620	1600	540	1370	460	1140	380	920	290	690	210	540	160	540	160
-1	2330	780	2100	700	1870	620	1630	540	1400	450	1170	370	930	290	700	210	550	150	550	150
0	2380	770	2140	690	1900	610	1660	530	1430	450	1190	370	950	290	710	210	560	150	560	150
1	2420	770	2180	690	1940	610	1690	530	1450	450	1210	370	970	290	730	210	570	150	570	150
2	2460	760	2220	680	1970	600	1720	520	1480	440	1230	360	990	280	740	200	580	150	580	150
3	2500	770	2250	690	2000	610	1750	530	1500	450	1250	370	1000	290	750	210	590	150	590	150
4	2540	780	2290	700	2040	620	1780	540	1530	450	1270	370	1020	290	760	210	600	150	600	150
5	2580	790	2330	710	2070	630	1810	540	1550	460	1290	380	1030	290	780	210	610	160	610	160
6	3310	850	2980	760	2650	670	2320	580	1990	490	1660	400	1320	320	990	230	780	170	780	170
7	3400	860	3060	770	2720	680	2380	590	2040	500	1700	410	1360	320	1020	230	800	170	800	170
8	3490	870	3140	780	2790	690	2440	600	2090	510	1740	420	1400	320	1050	230	820	170	820	170
9	3580	890	3220	790	2860	700	2500	610	2150	520	1790	420	1430	330	1070	240	840	180	840	180
10	3660	900	3300	810	2930	710	2560	620	2200	520	1830	430	1470	330	1100	240	860	180	860	180
11	3750	910	3380	820	3000	720	2630	630	2250	530	1880	440	1500	340	1130	240	880	180	880	180
12	3840	930	3450	830	3070	730	2690	640	2300	540	1920	440	1540	340	1150	250	900	180	900	180
13	3930	940	3530	840	3140	740	2750	640	2360	550	1960	450	1570	350	1180	250	920	190	920	190
14	4010	950	3610	850	3210	750	2810	650	2410	550	2010	450	1610	350	1200	250	940	190	940	190
15	4100	970	3690	870	3280	760	2870	660	2460	560	2050	460	1640	360	1230	260	970	190	970	190
16	4190	980	3770	880	3350	770	2930	670	2510	570	2090	470	1680	360	1260	260	990	190	990	190
17	4280	990	3850	890	3420	780	2990	680	2570	580	2140	470	1710	370	1280	270	1010	200	1010	200
18	4370	1010	3930	900	3490	800	3060	690	2620	590	2180	480	1750	370	1310	270	1030	200	1030	200
19	4450	1020	4010	910	3560	810	3120	700	2670	590	2230	490	1780	380	1340	270	1050	200	1050	200
20	4540	1030	4090	920	3630	820	3180	710	2720	600	2270	490	1820	380	1360	280	1070	200	1070	200
21	4630	1050	4170	940	3700	830	3240	720	2780	610	2310	500	1850	390	1390	280	1090	210	1090	210
22	4720	1060	4240	950	3770	840	3300	730	2830	620	2360	510	1890	390	1410	280	1110	210	1110	210
23	4800	1070	4320	960	3840	850	3360	740	2880	620	2400	510	1920	400	1440	290	1130	210	1130	210
24	4890	1090	4400	970	3910	860	3420	750	2930	630	2450	520	1960	400	1470	290	1150	210	1150	210

Indoor units: RAV-HM401SDTY-E
Outdoor unit: RAV-GM402ATP-E

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	900	180	800	170
RATING	W	3600	930	4000	970
MAXIMUM	W	4000	2000	5000	1700

Cooling

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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	4290	730	3860	650	3430	570	3010	490	2580	420	2150	340	1720	260	1290	180	1070	140	1070	140
21	4250	740	3820	660	3400	580	2970	500	2550	420	2120	340	1700	260	1270	180	1060	140	1060	140
22	4200	760	3780	680	3360	590	2940	510	2520	430	2100	350	1680	270	1260	190	1050	150	1050	150
23	4150	770	3740	690	3320	600	2910	520	2490	440	2080	360	1660	270	1250	190	1040	150	1040	150
24	4110	780	3700	700	3290	620	2880	530	2460	450	2050	360	1640	280	1230	190	1030	150	1030	150
25	4060	800	3660	710	3250	630	2840	540	2440	450	2030	370	1620	280	1220	200	1020	150	1020	150
26	4020	810	3610	720	3210	640	2810	550	2410	460	2010	370	1610	290	1200	200	1000	160	1000	160
27	3970	820	3570	730	3180	650	2780	560	2380	470	1990	380	1590	290	1190	200	990	160	990	160
28	3920	840	3530	750	3140	660	2750	570	2350	480	1960	390	1570	300	1180	210	980	160	980	160
29	3880	850	3490	760	3100	670	2710	580	2330	480	1940	390	1550	300	1160	210	970	160	970	160
30	3830	860	3450	770	3060	680	2680	580	2300	490	1920	400	1530	310	1150	210	960	170	960	170
31	3790	880	3410	780	3030	690	2650	590	2270	500	1890	410	1510	310	1140	220	950	170	950	170
32	3740	890	3370	790	2990	700	2620	600	2240	510	1870	410	1500	320	1120	220	930	170	930	170
33	3690	900	3320	810	2950	710	2580	610	2220	510	1850	420	1480	320	1110	220	920	170	920	170
34	3650	920	3280	820	2920	720	2550	620	2190	520	1820	420	1460	330	1090	230	910	180	910	180
35	3600	930	3240	830	2880	730	2520	630	2160	530	1800	430	1440	330	1080	230	900	180	900	180
36	3550	940	3200	840	2840	740	2490	640	2130	540	1780	440	1420	330	1070	230	890	180	890	180
37	3510	960	3160	850	2810	750	2460	650	2100	550	1750	440	1400	340	1050	240	880	190	880	190
38	3460	970	3110	870	2770	760	2420	660	2080	550	1730	450	1380	340	1040	240	870	190	870	190
39	3420	980	3070	880	2730	770	2390	670	2050	560	1710	450	1370	350	1020	240	850	190	850	190
40	3370	1000	3030	890	2700	780	2360	680	2020	570	1680	460	1350	350	1010	250	840	190	840	190
41	3320	1010	2990	900	2660	790	2330	680	1990	580	1660	470	1330	360	1000	250	830	200	830	200
42	3280	1020	2950	910	2620	800	2290	690	1970	580	1640	470	1310	360	980	250	820	200	820	200
43	3230	1040	2910	930	2580	810	2260	700	1940	590	1620	480	1290	370	970	260	810	200	810	200
44	3180	1050	2870	940	2550	820	2230	710	1910	600	1590	490	1270	370	960	260	800	200	800	200
45	3140	1060	2820	950	2510	830	2200	720	1880	610	1570	490	1260	380	940	260	780	210	780	210
46	3090	1080	2780	960	2470	840	2160	730	1860	610	1550	500	1240	380	930	270	770	210	770	210

Heating

Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		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
-15	2070	470	1860	420	1660	370	1450	320	1240	270	1040	230	830	180	620	130	410	80	410	80
-14	2120	500	1910	450	1700	400	1490	350	1270	290	1060	240	850	190	640	140	420	90	420	90
-13	2170	540	1960	480	1740	430	1520	370	1300	320	1090	260	870	200	650	150	430	90	430	90
-12	2230	570	2000	510	1780	450	1560	390	1340	340	1110	280	890	220	670	160	450	100	450	100
-11	2280	610	2050	540	1820	480	1590	420	1370	360	1140	290	910	230	680	170	460	110	460	110
-10	2330	640	2100	580	1860	510	1630	440	1400	380	1160	310	930	240	700	180	470	110	470	110
-9	2380	680	2140	610	1900	540	1670	470	1430	400	1190	330	950	260	710	190	480	120	480	120
-8	2430	710	2190	640	1950	560	1700	490	1460	420	1220	340	970	270	730	200	490	120	490	120
-7	2480	750	2240	670	1990	590	1740	520	1490	440	1240	360	990	280	750	210	500	130	500	130
-6	2530	760	2280	680	2020	600	1770	520	1520	450	1270	370	1010	290	760	210	510	130	510	130
-5	2580	770	2320	690	2060	610	1800	530	1550	450	1290	370	1030	290	770	210	520	140	520	140
-4	2620	780	2360	700	2100	620	1840	540	1570	460	1310	380	1050	300	790	220	520	140	520	140
-3	2670	800	2400	710	2140	630	1870	550	1600	470	1330	390	1070	300	800	220	530	140	530	140
-2	2720	810	2440	730	2170	640	1900	560	1630	480	1360	390	1090	310	810	230	540	140	540	140
-1	2760	820	2480	740	2210	650	1930	570	1660	480	1380	400	1100	310	830	230	550	140	550	140
0	2810	830	2530	750	2250	660	1960	580	1680	490	1400	400	1120	320	840	230	560	150	560	150
1	2850	850	2570	760	2280	670	2000	580	1710	500	1430	410	1140	320	860	240	570	150	570	150
2	2900	860	2610	770	2320	680	2030	590	1740	500	1450	420	1160	330	870	240	580	150	580	150
3	2950	870	2650	780	2360	690	2060	600	1770	510	1470	420	1180	330	880	240	590	150	590	150
4	2990	880	2690	790	2400	700	2100	610	1800	520	1500	430	1200	340	900	250	600	150	600	150
5	3040	890	2740	800	2430	710	2130	620	1820	520	1520	430	1220	340	910	250	610	160	610	160
6	3900	960	3510	860	3120	760	2730	660	2340	560	1950	460	1560	360	1170	270	780	170	780	170
7	4000	970	3600	870	3200	770	2800	670	2400	570	2000	470	1600	370	1200	270	800	170	800	170
8	4100	980	3690	880	3280	780	2870	680	2460	580	2050	480	1640	380	1230	270	820	170	820	170
9	4210	1000	3790	900	3360	790	2940	690	2520	590	2100	480	1680	380	1260	280	840	180	840	180
10	4310	1020	3880	910	3450	810	3020	700	2590	600	2160	490	1720	390	1290	280	860	180	860	180
11	4410	1030	3970	920	3530	820	3090	710	2650	610	2210	500	1770	390	1320	290	880	180	880	180
12	4520	1050	4060	940	3610	830	3160	720	2710	610	2260	510	1810	400	1350	290	900	180	900	180
13	4620	1060	4160	950	3700	840	3230	730	2770	620	2310	510	1850	400	1390	300	920	190	920	190
14	4720	1070	4250	960	3780	850	3310	740	2830	630	2360	520	1890	410	1420	300	940	190	940	190
15	4830	1090	4340	980	3860	870	3380	750	2900	640	2410	530	1930	420	1450	300	970	190	970	190
16	4930	1110	4440	990	3940	880	3450	760	2960	650	2460	540	1970	420	1480	310	990	190	990	190
17	5030	1120	4530	1000	4030	890	3520	770	3020	660	2520	540	2010	430	1510	310	1010	200	1010	200
18	5140	1140	4620	1020	4110	900	3590	780	3080	670	2570	550	2050	430	1540	320	1030	200	1030	200
19	5240	1150	4720	1030	4190	910	3670	790	3140	680	2620	560	2100	440	1570	320	1050	200	1050	200
20	5340	1160	4810	1040	4270	920	3740	800	3210	680	2670	560	2140	440	1600	320	1070	200	1070	200
21	5450	1180	4900	1060	4360	940	3810	820	3270	690	2720	570	2180	450	1630	330	1090	210	1090	210
22	5550	1200	4990	1070	4440	950	3880	830	3330	700	2770	580	2220	460	1660	330	1110	210	1110	210
23	5650	1210	5090	1090	4520	960	3960	840	3390	710	2830	590	2260	460	1700	340	1130	210	1130	210
24	5760	1230	5180	1100	4600	970	4030	850	3450	720	2880	590	2300	470	1730	340	1150	210	1150	210

Indoor units: RAV-HM561SDTY-E/TR
Outdoor unit: RAV-GM562ATP-E/TR

Operation range		Cooling		Heating	
		Q	P	Q	P
MINIMUM	W	1500	280	1500	220
RATING	W	5000	1860	5300	1500
MAXIMUM	W	5600	2050	6300	2400

Cooling

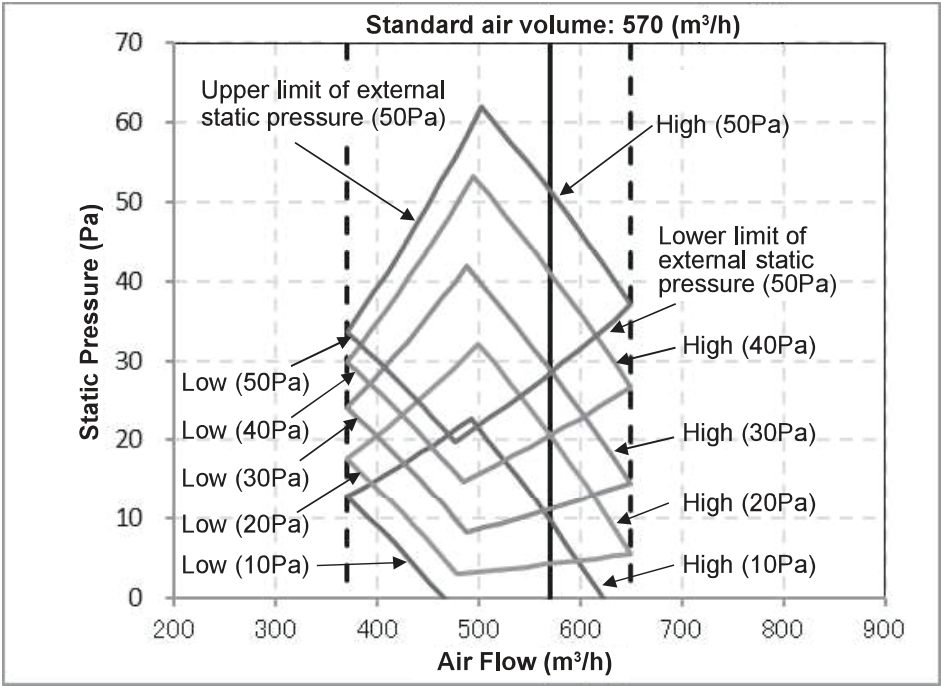
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
20	5960	1460	5370	1280	4770	1110	4170	930	3580	750	2980	570	2390	400	1790	220	1790	220	1790	220
21	5900	1490	5310	1300	4720	1130	4130	940	3540	770	2950	580	2360	410	1770	220	1770	220	1770	220
22	5830	1510	5250	1330	4670	1150	4080	960	3500	780	2920	590	2330	410	1750	230	1750	230	1750	230
23	5770	1540	5190	1350	4620	1170	4040	980	3460	790	2890	600	2310	420	1730	230	1730	230	1730	230
24	5710	1570	5140	1370	4560	1190	3990	990	3420	810	2850	610	2280	430	1710	240	1710	240	1710	240
25	5640	1590	5080	1400	4510	1210	3950	1010	3390	820	2820	630	2260	440	1690	240	1690	240	1690	240
26	5580	1620	5020	1420	4460	1230	3900	1030	3350	840	2790	640	2230	440	1670	240	1670	240	1670	240
27	5510	1650	4960	1440	4410	1250	3860	1040	3310	850	2760	650	2210	450	1650	250	1650	250	1650	250
28	5450	1670	4900	1470	4360	1270	3810	1060	3270	860	2720	660	2180	460	1630	250	1630	250	1630	250
29	5390	1700	4850	1490	4310	1290	3770	1080	3230	880	2690	670	2150	470	1620	260	1620	260	1620	260
30	5320	1730	4790	1510	4260	1310	3720	1100	3190	890	2660	680	2130	470	1600	260	1600	260	1600	260
31	5260	1750	4730	1540	4210	1330	3680	1110	3150	900	2630	690	2100	480	1580	260	1580	260	1580	260
32	5190	1780	4670	1560	4150	1350	3640	1130	3120	920	2600	700	2080	490	1560	270	1560	270	1560	270
33	5130	1810	4620	1580	4100	1370	3590	1150	3080	930	2560	710	2050	500	1540	270	1540	270	1540	270
34	5060	1830	4560	1610	4050	1390	3540	1160	3040	950	2530	720	2030	500	1520	280	1520	280	1520	280
35	5000	1860	4500	1630	4000	1410	3500	1180	3000	960	2500	730	2000	510	1500	280	1500	280	1500	280
36	4940	1890	4440	1650	3950	1430	3460	1200	2960	970	2470	740	1970	520	1480	280	1480	280	1480	280
37	4870	1910	4380	1680	3900	1450	3410	1210	2920	990	2440	750	1950	520	1460	290	1460	290	1460	290
38	4810	1940	4330	1700	3850	1470	3370	1230	2880	1000	2400	760	1920	530	1440	290	1440	290	1440	290
39	4740	1970	4270	1720	3790	1490	3320	1250	2850	1020	2370	770	1900	540	1420	300	1420	300	1420	300
40	4680	2000	4220	1740	3740	1510	3270	1260	2800	1040	2340	780	1880	540	1400	300	1400	300	1400	300
41	4620	2030	4170	1760	3690	1530	3220	1280	2760	1060	2310	790	1860	550	1380	310	1380	310	1380	310
42	4560	2060	4120	1780	3640	1550	3170	1300	2710	1080	2280	800	1840	550	1360	310	1360	310	1360	310
43	4500	2090	4070	1800	3590	1570	3120	1320	2660	1100	2250	810	1820	560	1340	320	1340	320	1340	320
44	4440	2120	4020	1820	3540	1590	3070	1340	2610	1120	2220	820	1800	560	1320	320	1320	320	1320	320
45	4380	2150	3970	1840	3490	1610	3020	1360	2560	1140	2190	830	1780	570	1300	330	1300	330	1300	330
46	4320	2180	3920	1860	3440	1630	2970	1380	2510	1160	2160	840	1760	570	1280	330	1280	330	1280	330

Heating

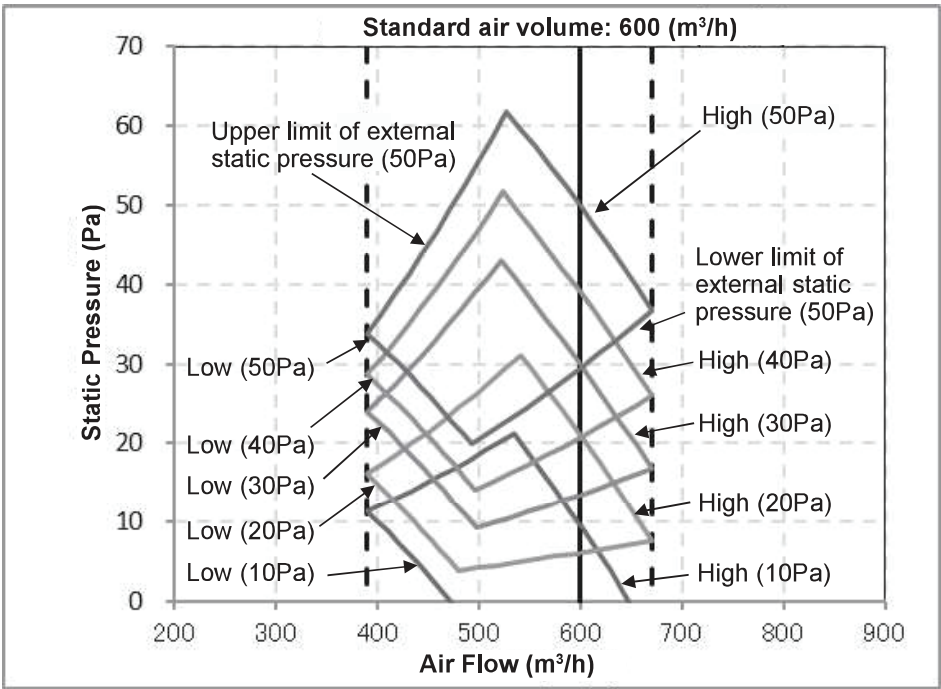
Outdoor Temperature DB (°C)	Parts Load (%)																			
	100		90		80		70		60		50		40		30		20		10	
	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q	P
-15	2740	550	2460	490	2190	420	1920	350	1640	290	1370	220	1090	160	820	90	770	80	770	80
-14	2790	590	2510	520	2240	450	1960	380	1680	310	1400	240	1120	170	840	100	790	90	790	90
-13	2850	640	2570	560	2280	480	2000	410	1710	340	1430	260	1140	180	860	110	810	90	810	90
-12	2910	680	2620	600	2330	520	2040	430	1750	360	1460	280	1160	190	870	110	820	100	820	100
-11	2970	720	2670	630	2370	550	2080	460	1780	380	1480	290	1190	210	890	120	840	110	840	110
-10	3030	760	2720	670	2420	580	2120	490	1820	400	1510	310	1210	220	910	130	860	110	860	110
-9	3080	800	2780	710	2470	610	2160	510	1850	420	1540	330	1230	230	930	130	870	120	870	120
-8	3140	840	2830	740	2510	640	2200	540	1890	440	1570	340	1260	240	940	140	890	120	890	120
-7	3200	890	2880	780	2560	670	2240	570	1920	470	1600	360	1280	250	960	150	910	130	910	130
-6	3270	930	2940	820	2620	710	2290	600	1960	490	1640	380	1310	270	980	160	930	140	930	140
-5	3340	980	3010	870	2670	750	2340	630	2010	520	1670	400	1340	280	1000	160	950	140	950	140
-4	3410	1030	3070	910	2730	790	2390	660	2050	540	1710	420	1370	300	1020	170	970	150	970	150
-3	3490	1080	3140	950	2790	820	2440	690	2090	570	1740	440	1390	310	1050	180	990	160	990	160
-2	3560	1130	3200	1000	2840	860	2490	720	2130	600	1780	460	1420	320	1070	190	1010	170	1010	170
-1	3630	1180	3260	1040	2900	900	2540	750	2180	620	1810	480	1450	340	1090	200	1030	170	1030	170
0	3700	1230	3330	1080	2960	940	2590	790	2220	650	1850	500	1480	350	1110	200	1050	180	1050	180
1	3770	1280	3390	1130	3020	970	2640	820	2260	670	1880	520	1510	370	1130	210	1070	190	1070	190
2	3840	1330	3460	1170	3070	1010	2690	850	2300	700	1920	540	1540	380	1150	220	1090	190	1090	190
3	3900	1350	3510	1190	3120	1030	2730	860	2340	710	1950	550	1560	390	1170	220	1100	200	1100	200
4	3970	1360	3570	1200	3170	1040	2780	870	2380	720	1980	550	1590	390	1190	230	1120	200	1120	200
5	4030	1380	3630	1220	3220	1050	2820	880	2420	730	2010	560	1610	400	1210	230	1140	200	1140	200
6	5160	1480	4650	1300	4130	1130	3610	950	3100	780	2580	600	2070	420	1550	250	1460	220	1460	220
7	5300	1500	4770	1321	4240	1143	3710	960	3180	790	2650	610	2120	430	1590	250	1500	220	1500	220
8	5440	1520	4890	1340	4350	1160	3810	970	3260	800	2720	620	2170	440	1630	250	1540	220	1540	220
9	5570	1550	5020	1360	4460	1180	3900	990	3340	810	2790	630	2230	440	1670	260	1580	230	1580	230
10	5710	1570	5140	1380	4570	1200	4000	1000	3430	830	2860	640	2280	450	1710	260	1620	230	1620	230
11	5850	1590	5260	1400	4680	1210	4090	1020	3510	840	2920	650	2340	460	1750	270	1650	230	1650	230
12	5980	1620	5390	1420	4790	1230	4190	1030	3590	850	2990	660	2390	460	1800	270	1690	240	1690	240
13	6120	1640	5510	1440	4900	1250	4280	1050	3670	860	3060	670	2450	470	1840	270	1730	240	1730	240
14	6260	1660	5630	1470	5010	1270	4380	1060	3750	880	3130	680	2500	480	1880	280	1770	240	1770	240
15	6390	1690	5750	1490	5120	1280	4480	1080	3840	890	3200	690	2560	480	1920	280	1810	250	1810	250
16	6530	1710	5880	1510	5220	1300	4570	1090	3920	900	3270	700	2610	490	1960	280	1850	250	1850	250
17	6670	1730	6000	1530	5330	1320	4670	1110	4000	910	3330	700	2670	500	2000	290	1890	250	1890	250
18	6810	1760	6120	1550	5440	1340	4760	1120	4080	920	3400	710	2720	500	2040	290	1930	260	1930	260
19	6940	1780	6250	1570	5550	1360	4860	1140	4160	940	3470	720	2780	510	2080	300	1960	260	1960	260
20	7080	1800	6370	1590	5660	1370	4950	1150	4250	950	3540	730	2830	520	2120	300	2000	260	2000	260
21	7220	1830	6490	1610	5770	1390	5050	1170	4330	960	3610	740	2890	520	2160	300	2040	270	2040	270
22	7350	1850	6620	1630	5880	1410	5150	1180	4410	970	3680	750	2940	530	2210	310	2080	270	2080	270
23	7490	1870	6740	1650	5990	1430	5240	1200	4490	990	3740	760	3000	540	2250	310	2120	270	2120	270
24	7630	1890	6860	1670	6100	1440	5340	1210	4580	1000	3810	770	3050	540	2290	320	2160	280	2160	280

2-8-6. Fan static characteristic

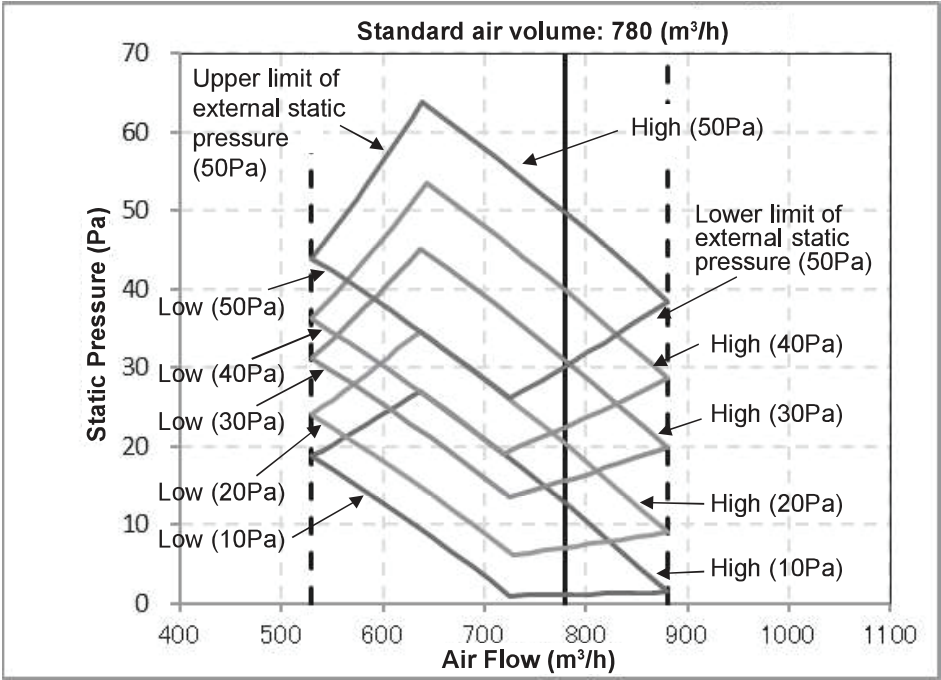
RAV-HM301SDTY-E



RAV-HM401SDTY-E

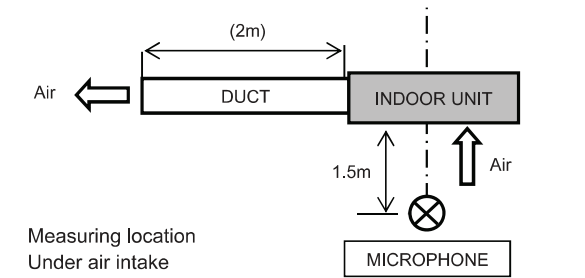


RAV-HM561SDTY-E/TR

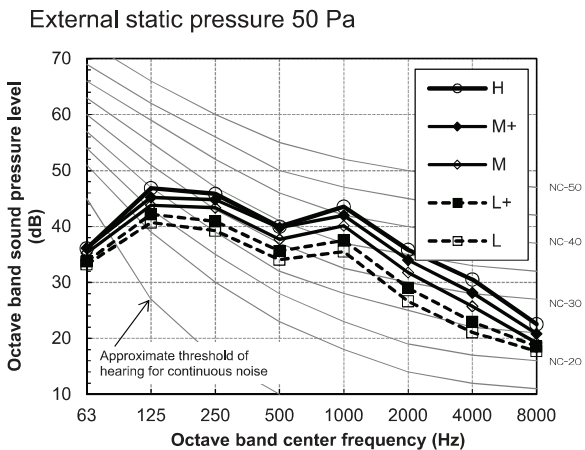
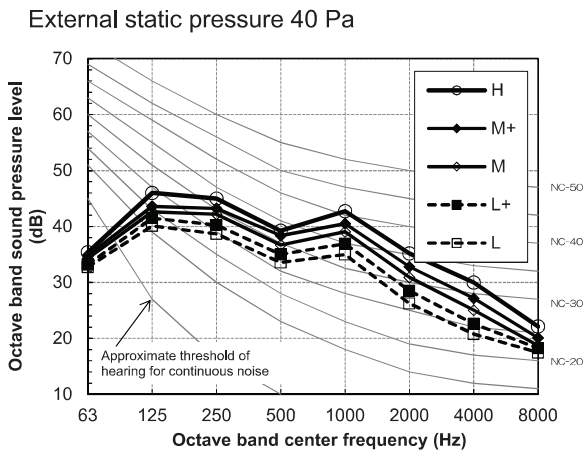
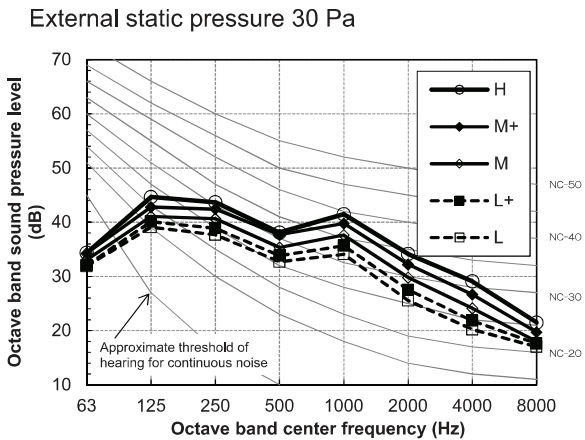
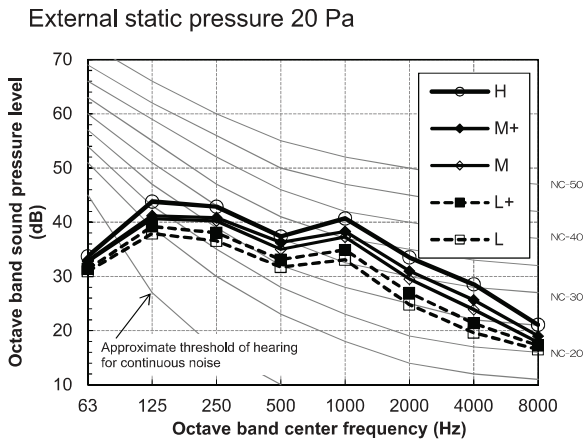
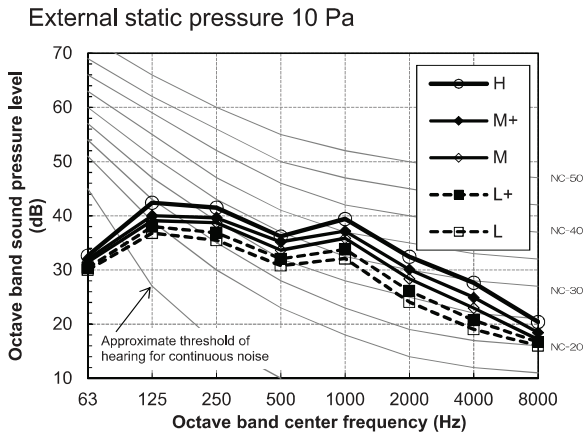


2-8-7. Sound Characteristics (NC curve)

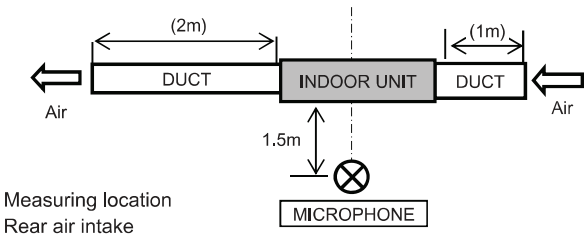
RAV-HM301SDTY-E



ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	42	41	40	38	36
20	43	42	41	39	37
30	44	43	42	40	38
40	44	43	42	40	38
50	45	44	43	41	39

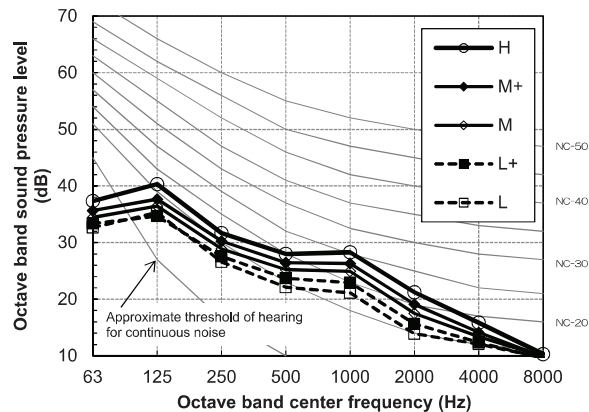


RAV-HM301SDTY-E

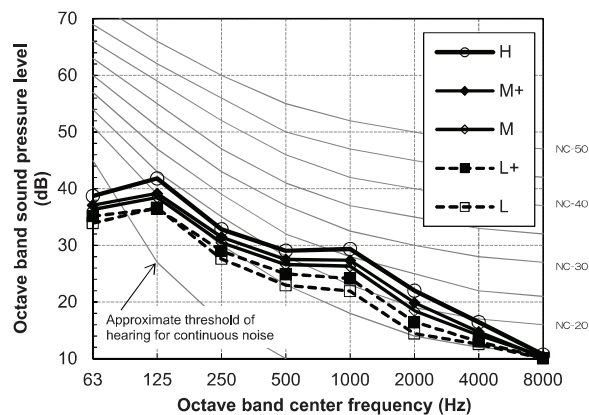


ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	32	31	29	28	26
20	33	32	30	29	27
30	34	33	31	30	28
40	34	33	31	30	28
50	35	34	32	31	29

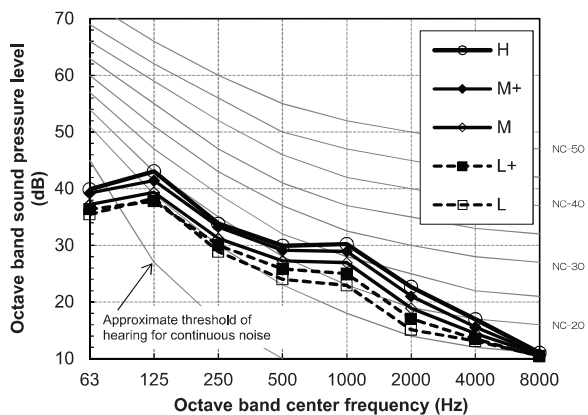
External static pressure 10 Pa



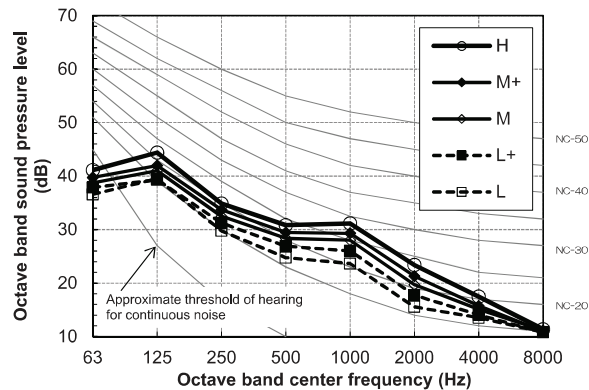
External static pressure 20 Pa



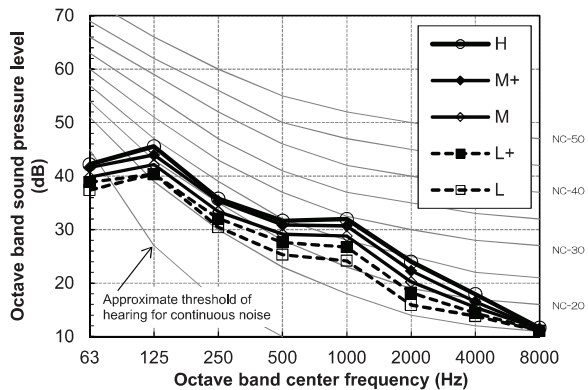
External static pressure 30 Pa



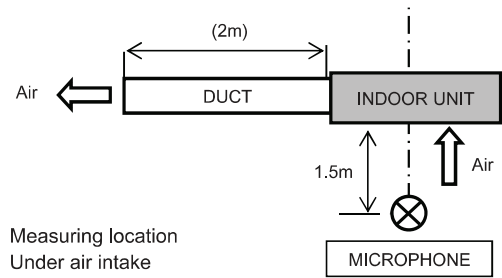
External static pressure 40 Pa



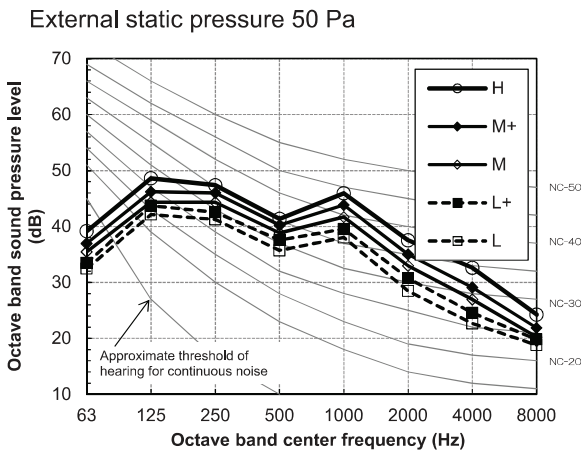
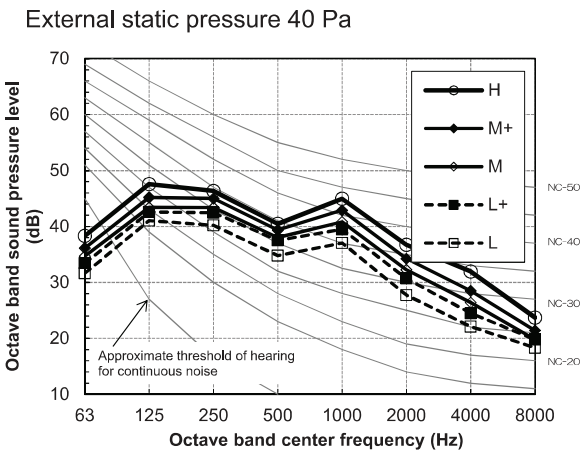
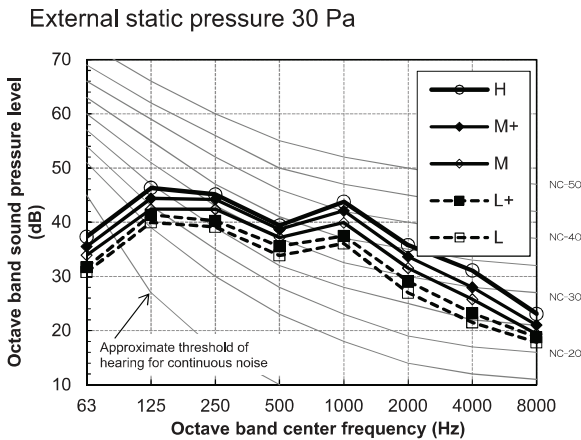
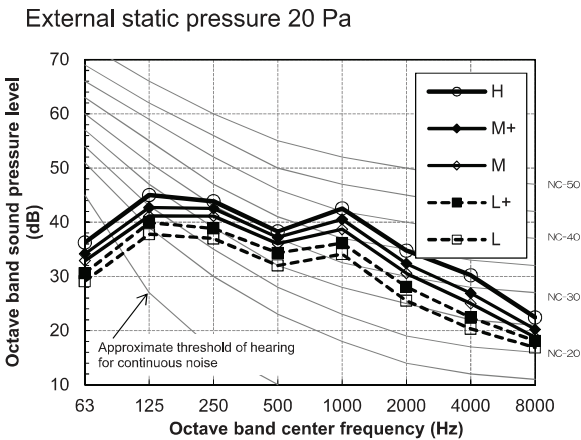
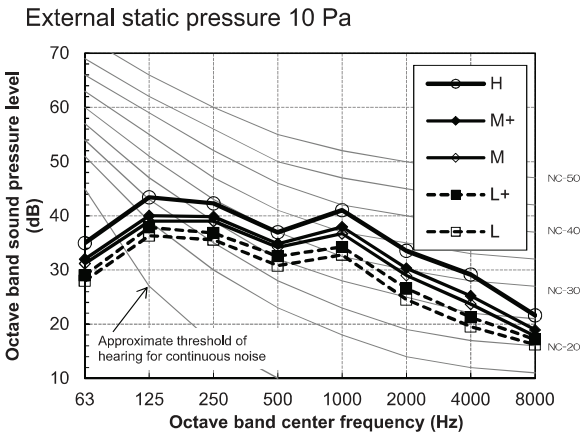
External static pressure 50 Pa



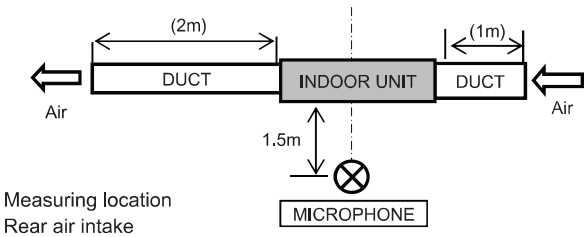
RAV-HM401SDTY-E



ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	44	42	40	39	37
20	45	43	41	40	38
30	46	44	42	41	39
40	46	44	42	41	39
50	47	45	43	42	40

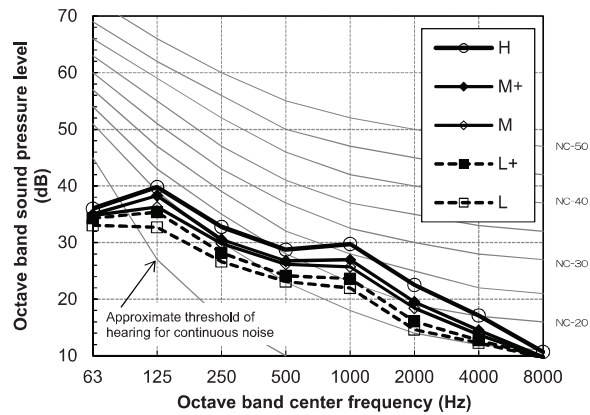


RAV-HM401SDTY-E

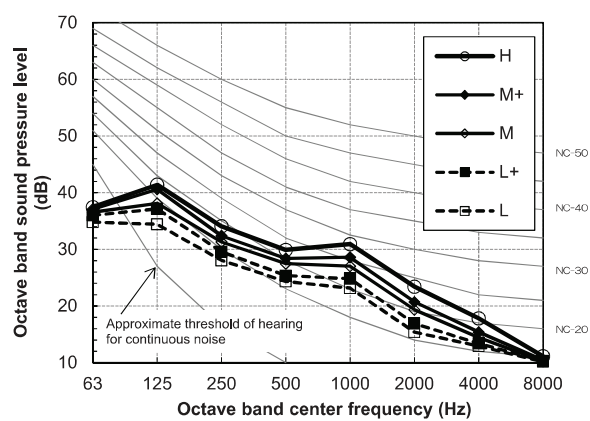


ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	33	32	30	29	27
20	34	33	31	30	28
30	35	34	32	31	29
40	35	34	32	31	29
50	36	35	33	32	30

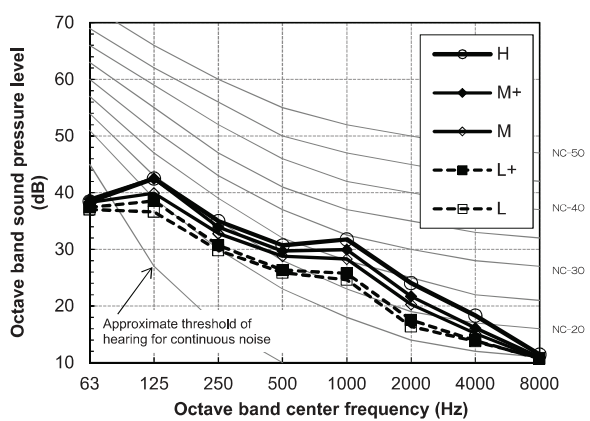
External static pressure 10 Pa



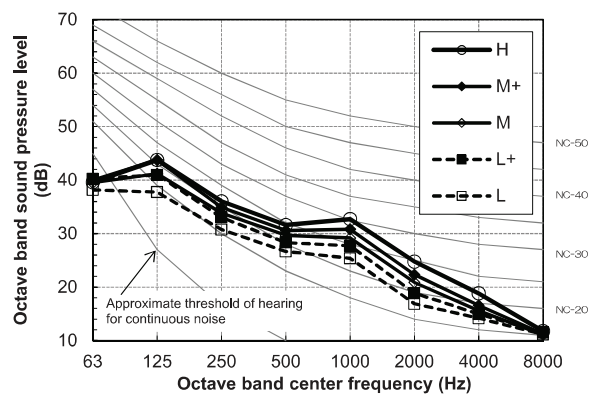
External static pressure 20 Pa



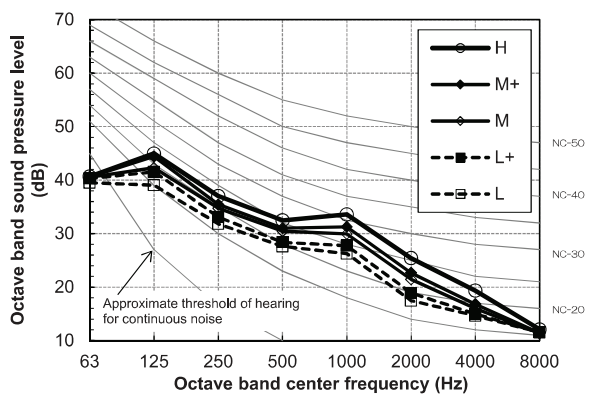
External static pressure 30 Pa



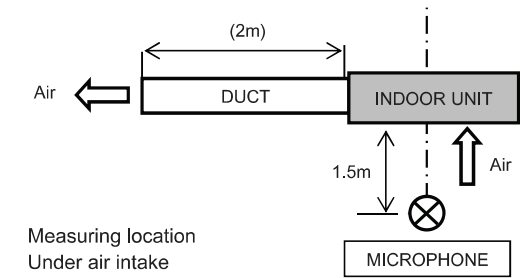
External static pressure 40 Pa



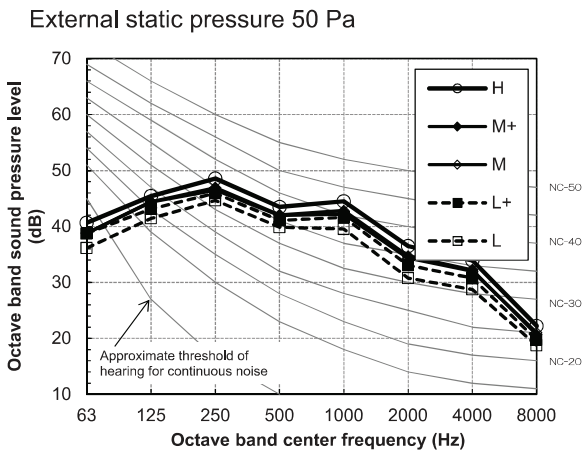
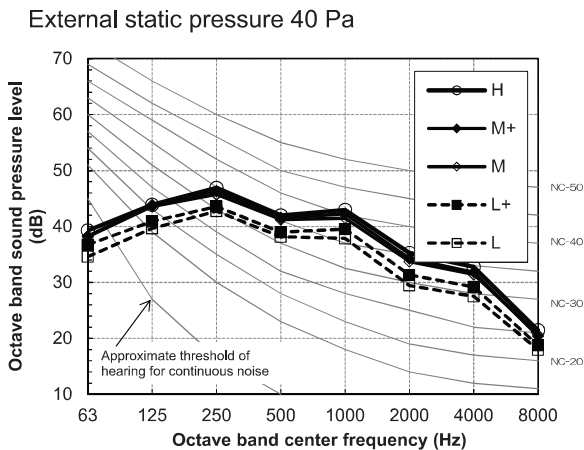
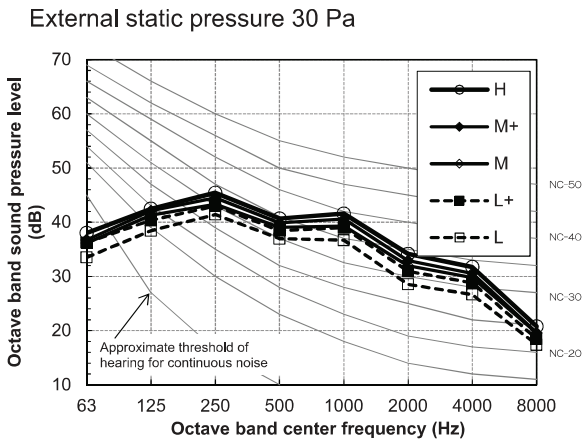
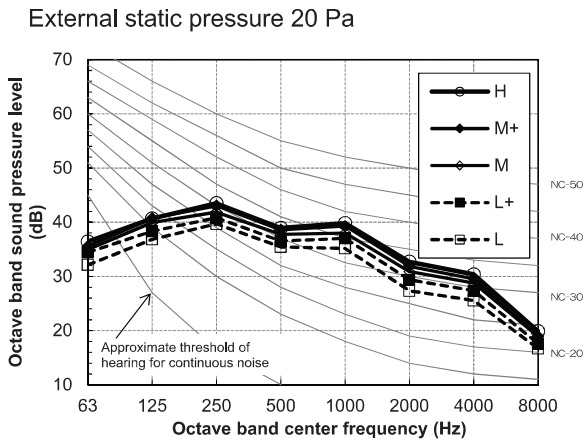
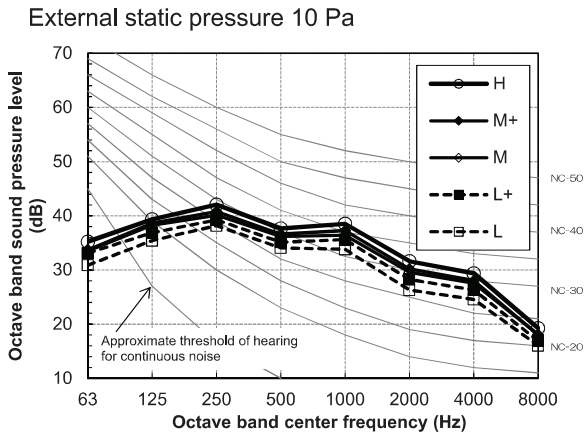
External static pressure 50 Pa



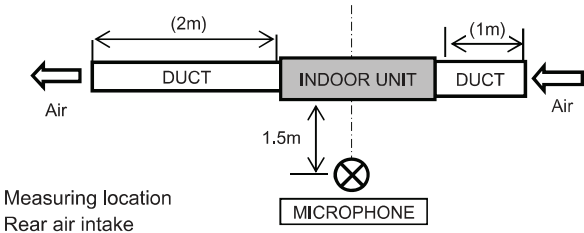
RAV-HM561SDTY-E/TR



ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	44	43	42	41	39
20	45	44	43	42	40
30	46	45	44	43	41
40	46	45	44	43	41
50	47	46	45	44	42

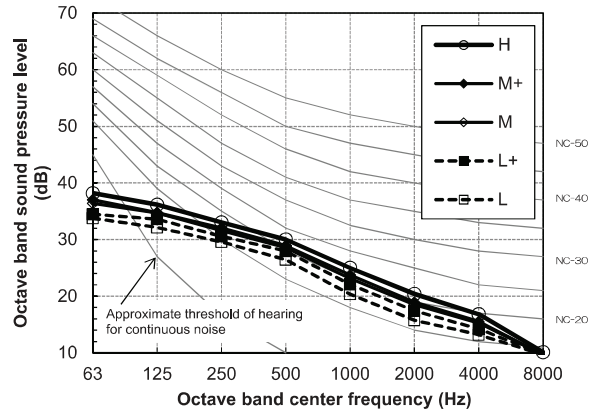


RAV-HM561SDTY-E/TR

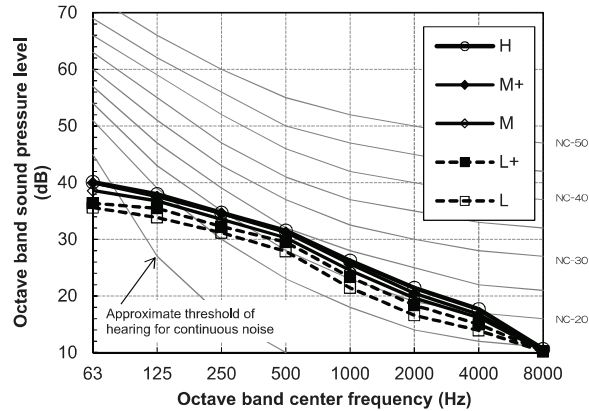


ESP (Pa)	Sound Pressure Level (dBA)				
	H	M+	M	L+	L
10	34	33	32	31	29
20	35	34	33	32	30
30	36	35	34	33	31
40	36	35	34	33	31
50	37	36	35	34	32

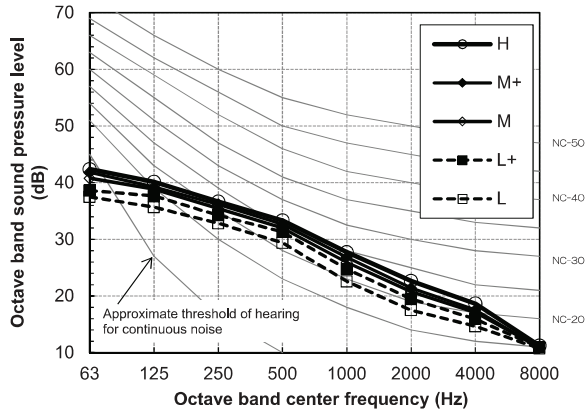
External static pressure 10 Pa



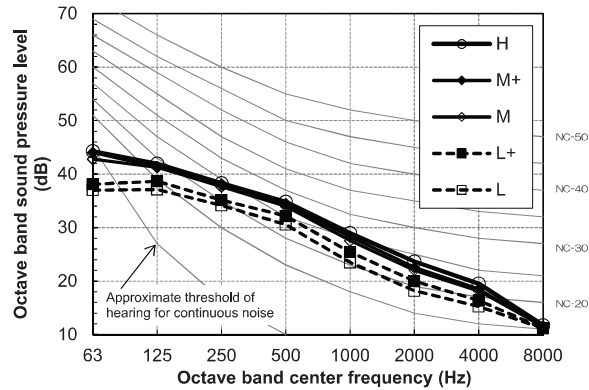
External static pressure 20 Pa



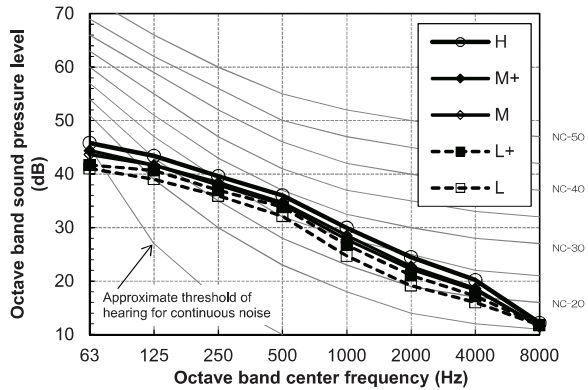
External static pressure 30 Pa



External static pressure 40 Pa



External static pressure 50 Pa



3. Outdoor Unit

3-1. Specifications

3-2. Dimension

3-3. Wiring Diagrams

3-4. Refrigerant Cycle Diagram

3-5. Sound Characteristic

3-6. Connecting Pipe Length and Lift Difference Between Indoor Units VS. Capacity Correction Value

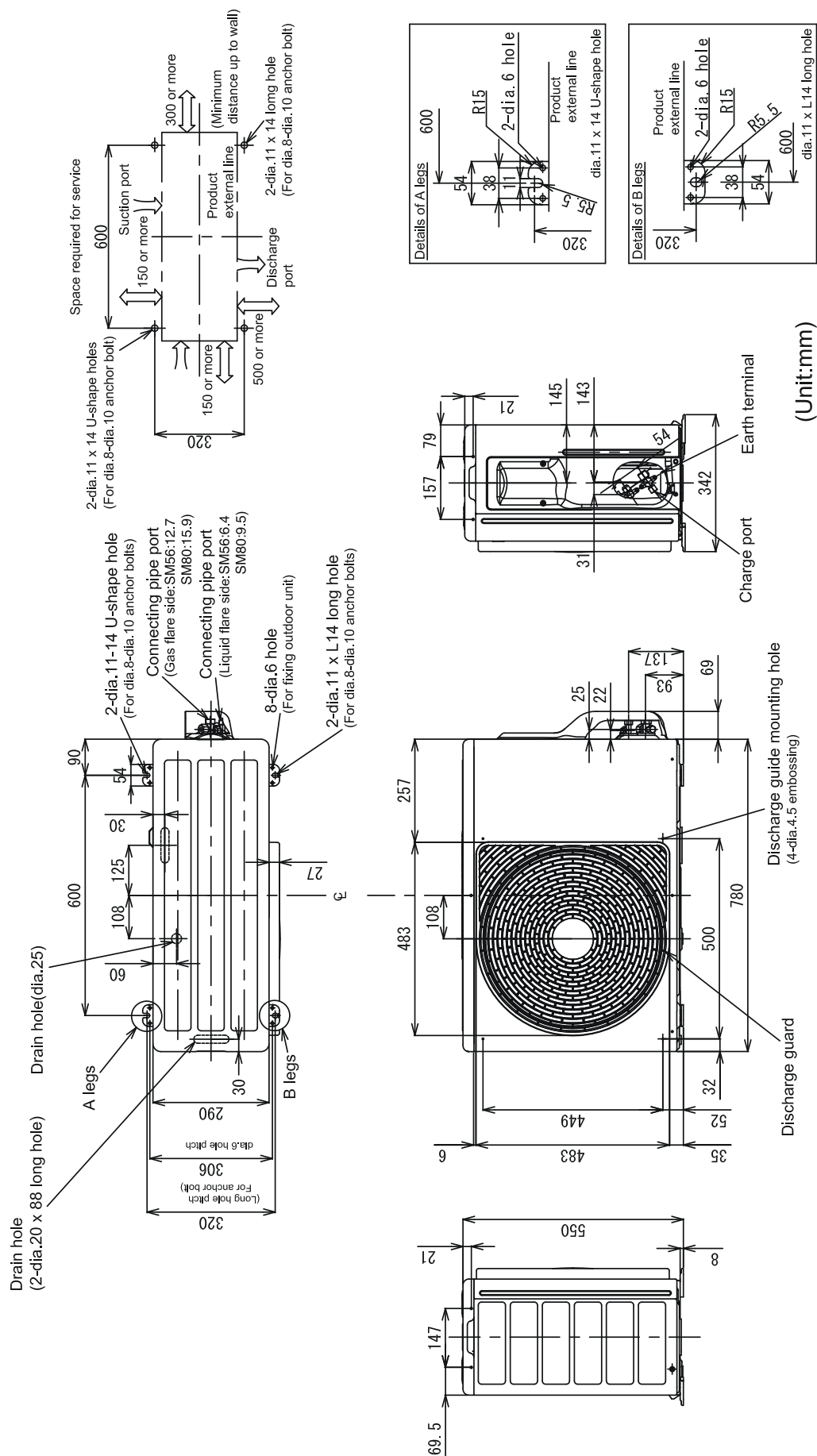
3-1 Specification

Model name	Outdoor unit	RAV-GM302ATP-E	RAV-GM402ATP-E
Power supply		1 phase 220-240V, 50 Hz 1 phase 220V, 60 Hz	
Compressor	Type	Rotary DC Invertor	
	Motor (kW)	0.75	1.10
	Pole	4	4
Refrigerant charged (kg)		0.63	0.90
Refrigerant control		Pulse moto valve	
Inter connecting pipe	Standard length (m)	7.5	7.5
	Min. length (m)	2.0	2.0
	Max. total length (m)	20	20
	Additional refrigerant charge under long piping connector		20 g / m (15 m to 20 m)
	Height difference	Outdoor lower (m)	10
		Outdoor higher (m)	10
Outer dimension	Height (mm)	550	550
	Width (mm)	780	780
	Depth (mm)	290	290
Appearance		Silky shade (Muncel 1 Y 8.5 / 0.5)	
Total weight (kg)		29	34
Heat exchanger		Finned tube	
Fan unit	Fan	Propeller fan	
	Standard air flow high (mm ³ / min.)	30	37
	Motor (W)	43	43
Connecting pipe	Gas side (mm)	9.50	12.70
	Liquid side (mm)	6.40	6.40
Sound pressure level		Cooling / Heating (dB·A)	46 / 47
Sound power level		Cooling / Heating (dB·A)	61 / 62
Outside air temperature, Cooling °C (Dry bulb temp.)		-15 to 46	
Outside air temperature, Heating °C (Wet bulb temp.)		-15 to 24	

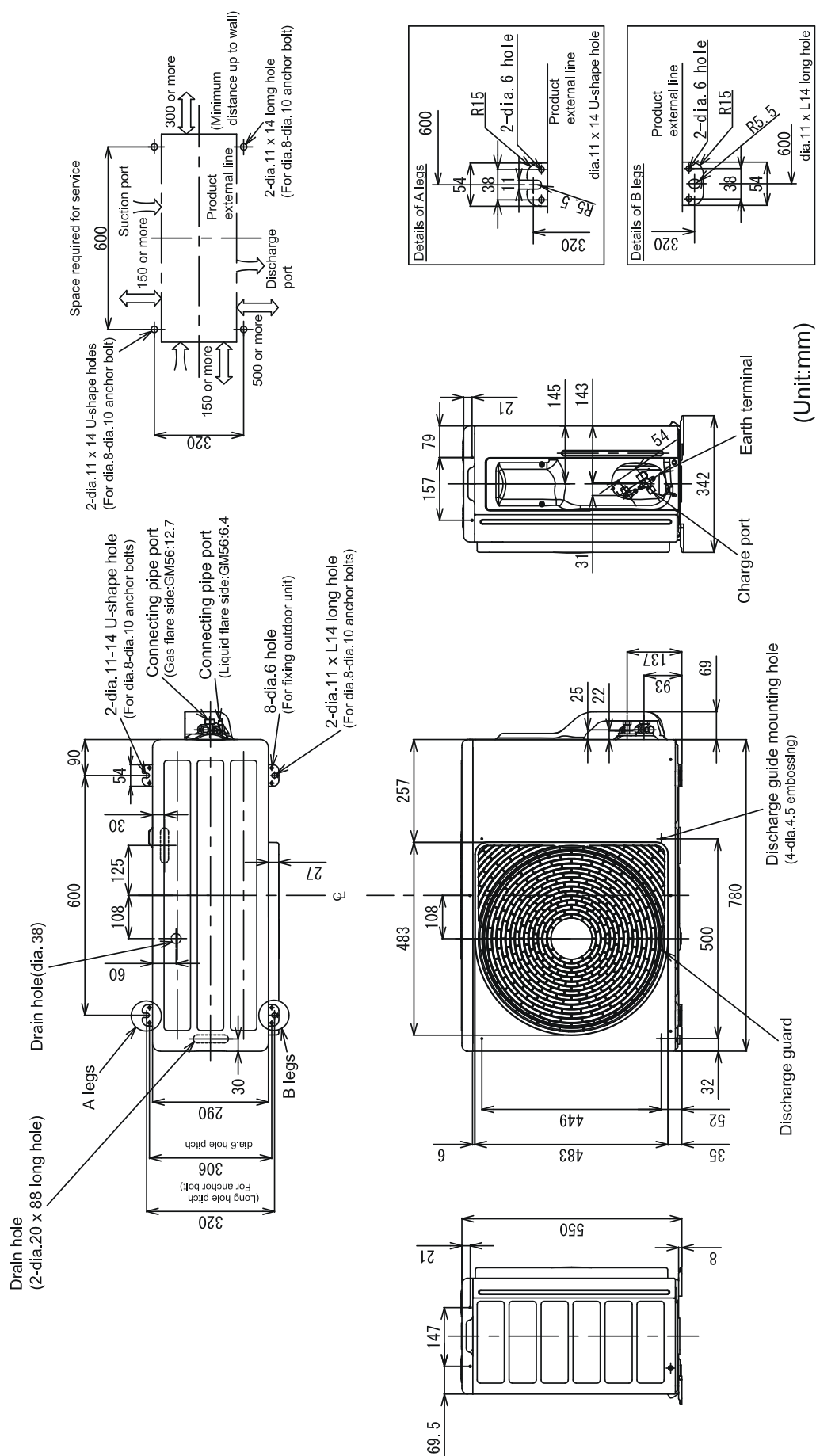
Model name	Outdoor unit		RAV-GM562ATP-E / TR	
Power supply			1 phase 220-240V, 50Hz 1 phase 220V, 60Hz (Power exclusive to outdoor is required.)	
Compressor	Type		Hermetic compressor	
	Motor	(kW)	1.1	
	Pole		4	
Refrigerant charged		(kg)	0.9	
Refrigerant control			Pulse motor valve	
Inter connecting pipe	Standard length		(m)	7.5
	Min. length		(m)	5.0
	Max. total length		(m)	30
	Additional refrigerant charge under long piping connector		20 g / m (21 m to 30 m)	
	Height difference	Outdoor lower	(m)	30
		Outdoor higher	(m)	30
Outer dimension	Height		(mm)	550
	Width		(mm)	780
	Depth		(mm)	290
Appearance			Silky shade (Muncel 1 Y 8.5 / 0.5)	
Total weight		(kg)	40	
Heat exchanger			Finned tube	
Fan unit	Fan		Propeller fan	
	Standard air flow high		(m³ / min.)	40
	Motor		(W)	43
Connecting pipe	Gas side		(mm)	12.7
	Liquid side		(mm)	6.4
Sound pressure level		Cooling / Heating (dB·A)	46 / 48	
Sound power level		Cooling / Heating (dB·A)	63 / 65	
Outside air temperature, Cooling		°C (Dry bulb temp.)	-15 to 46	
Outside air temperature, Heating		°C (Wet bulb temp.)	-15 to 24	

3-2. Dimension

RAV-GM*___2ATP-E (*30 / 40)

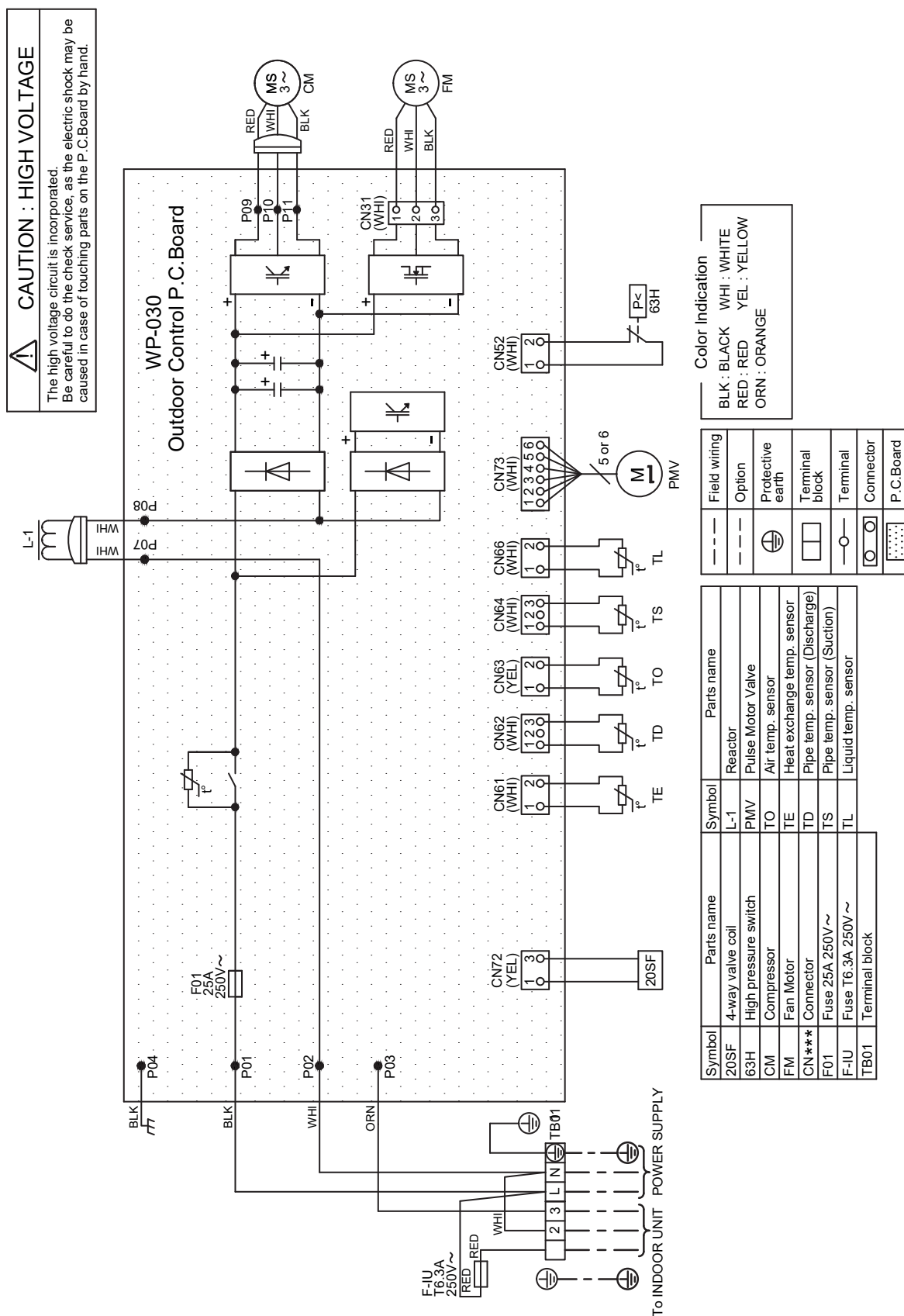


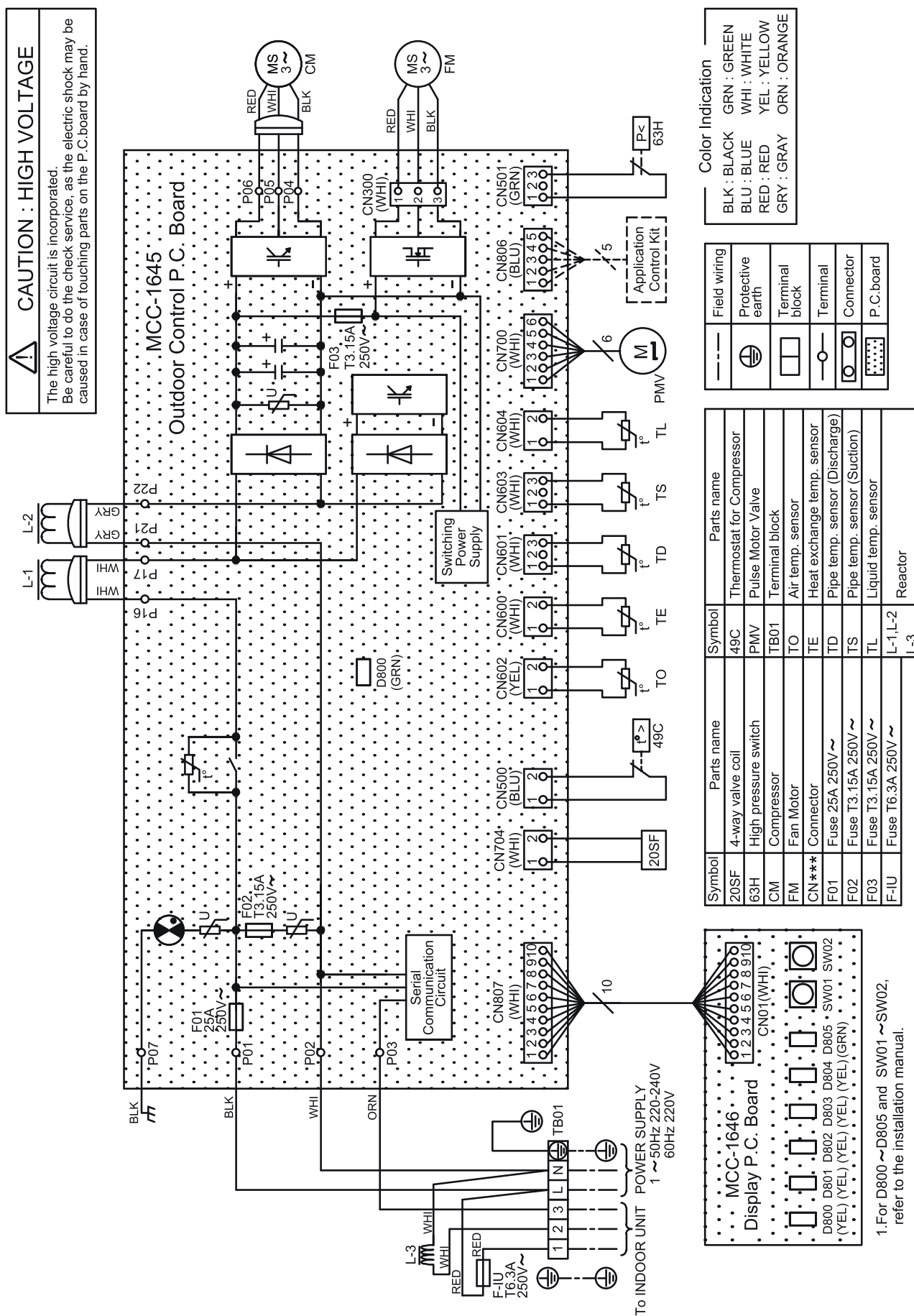
RAV-GM562ATP-E / TR



3-3. Wiring Diagram

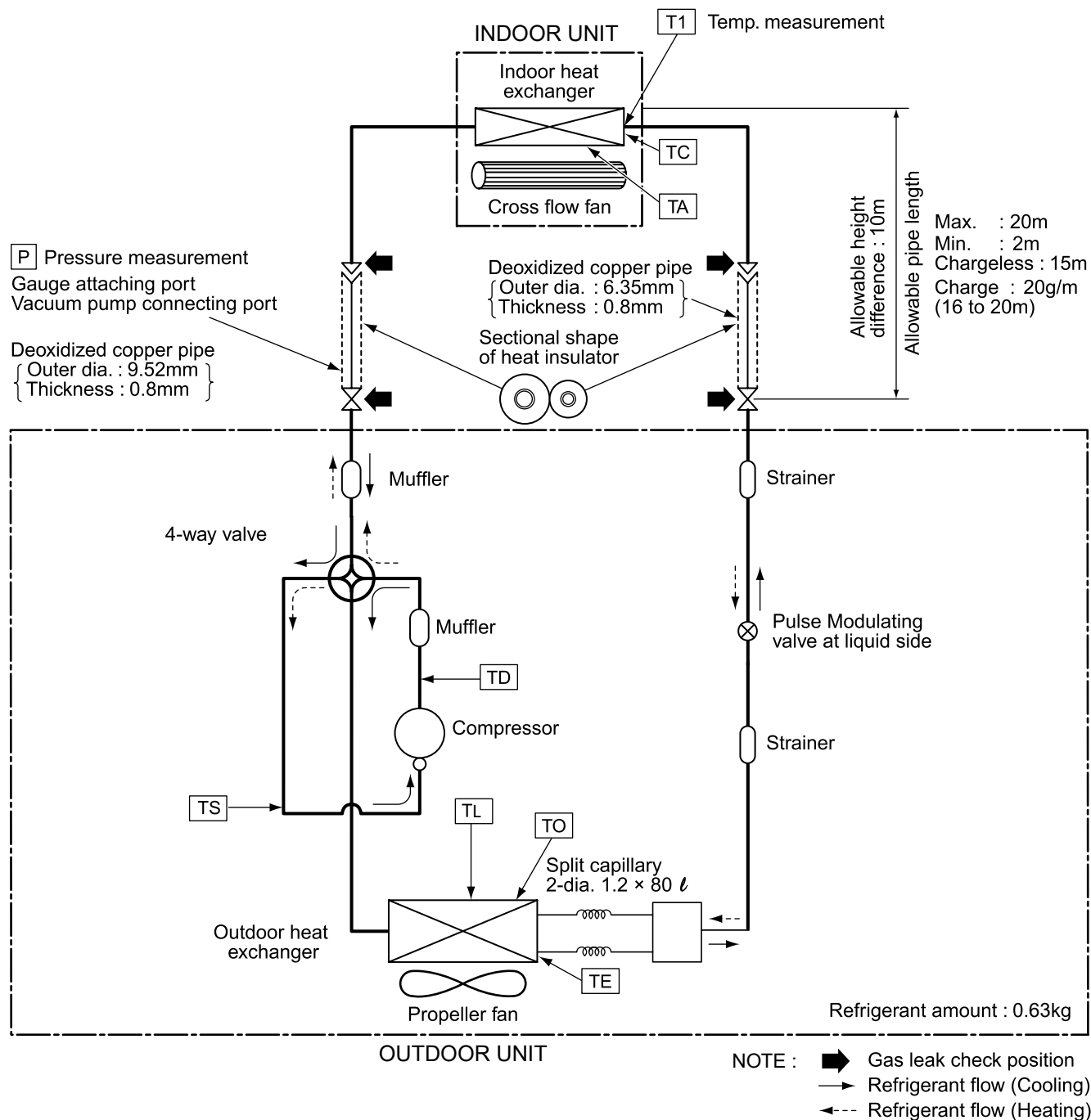
RAV-GM* 2ATP-E (*30 / 40)



RAV-GM562ATP-E / TR

3-4. Refrigerant cycle diagram

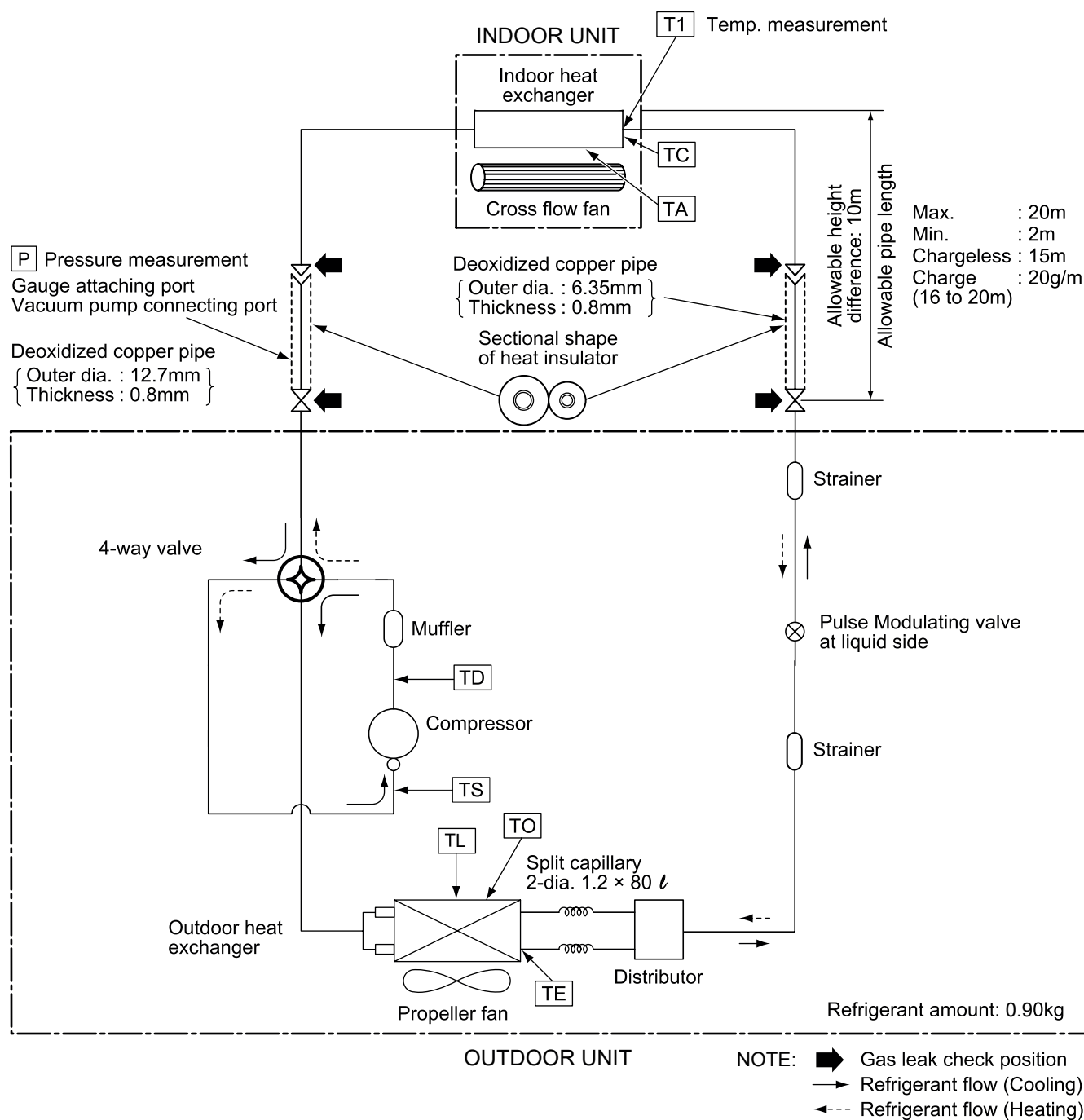
RAV-GM302ATP-E



NOTE :

- The maximum pipe length of this air conditioner is 20 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)

RAV-GM402ATP-E

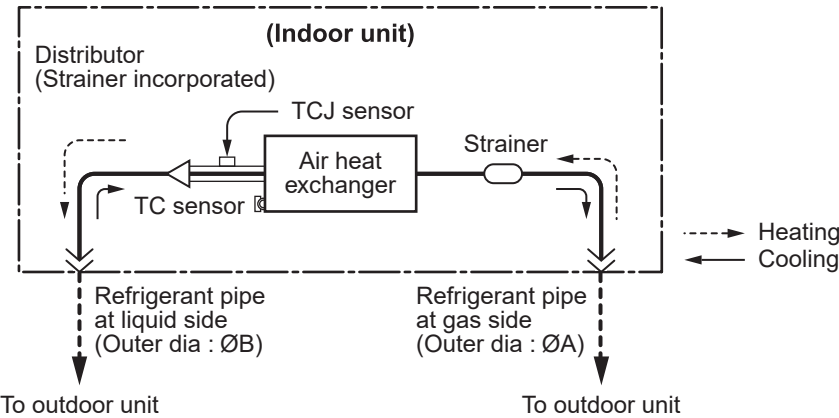


NOTE :

- The maximum pipe length of this air conditioner is 20m. 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)

RAV-GM562ATP-E / TR

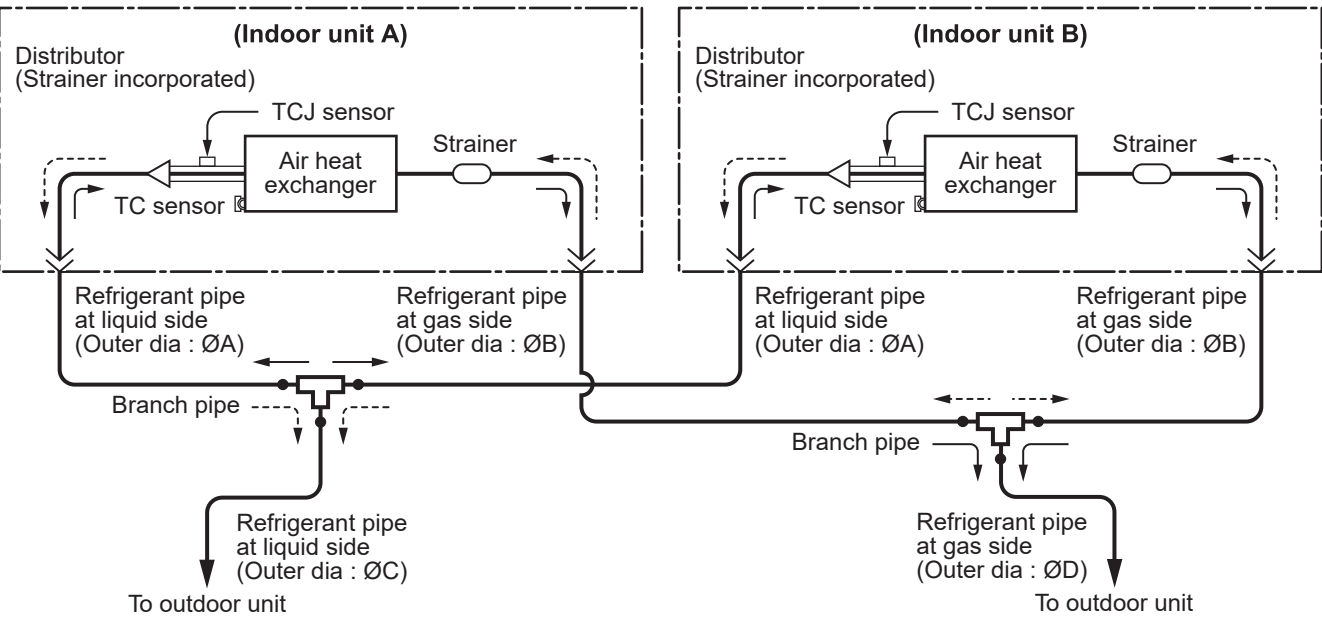
Single type (Combination of 1 indoor unit and 1 outdoor unit)



Dimension table

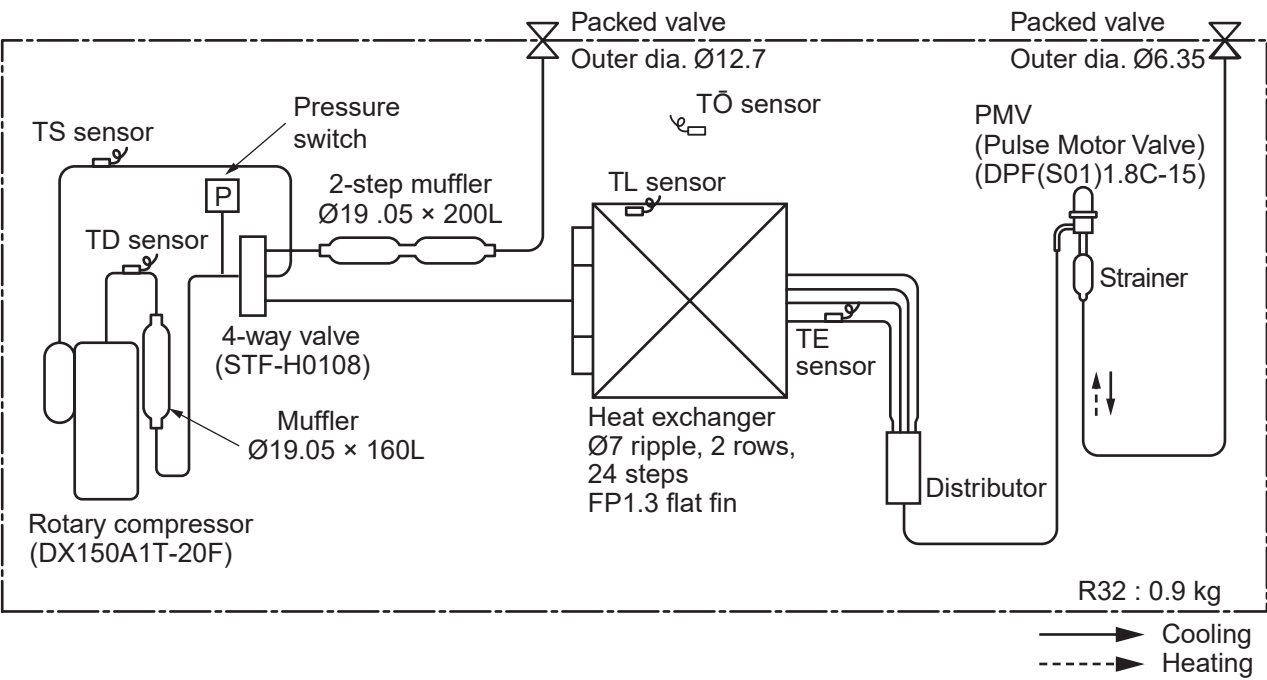
Indoor unit	Outer diameter of refrigerant pipe	
	Gas side ØA	Liquid side ØB
HM56 type	12.7	6.4

Twin type (Combination of 2 indoor units and 1 outdoor unit)



Indoor unit	Branch pipe RBC-	A	B	C	D
HM56 × 2	TWP30E2	6.4	12.7	9.5	15.9

RAV-GM562ATP-E / TR



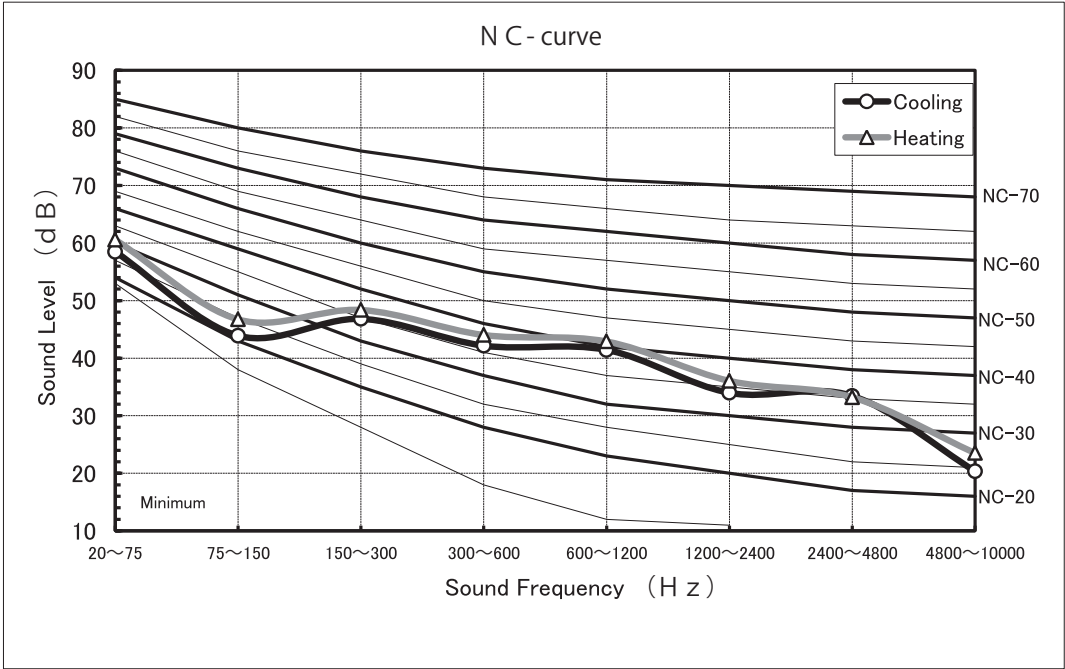
		Pressure				Pipe surface temperature (°C)				Compressor revolutions per second (rps) *	Indoor fan	Indoor/Outdoor temp. conditions (DB/WB) (°C)	
		(MPa)		(kg/cm²G)		Discharge (TD)	Suction (TS)	Indoor heat exchanger (TC)	Outdoor heat exchanger (TE)			Indoor	Outdoor
		Pd	Ps	Pd	Ps								
Cooling	Standard	3.11	0.96	31.7	9.8	90	13	12	43	60	HIGH	27/19	35/-
	Overload	3.37	1.08	34.4	11.0	77	21	17	53	35	HIGH	32/24	46/-
	Low load	1.90	0.70	19.4	7.1	48	7	5	30	50	LOW	18/15.5	-5/-
Heating	Standard	2.27	0.63	23.1	6.4	82	2	36	1	65	HIGH	20/-	7/6
	Overload	2.86	0.89	29.2	9.1	86	17	47	11	95	LOW	28/-	24/18
	Low load	1.86	0.25	19.0	2.6	69	-14	31	-15	98	HIGH	15/-	-10/(70%)

* 4 poles are provided to this compressor.
The compressor frequency (Hz) measured with a clamp meter is 2 times of revolutions (rps) of the compressor.

3-5. Sound Characteristic

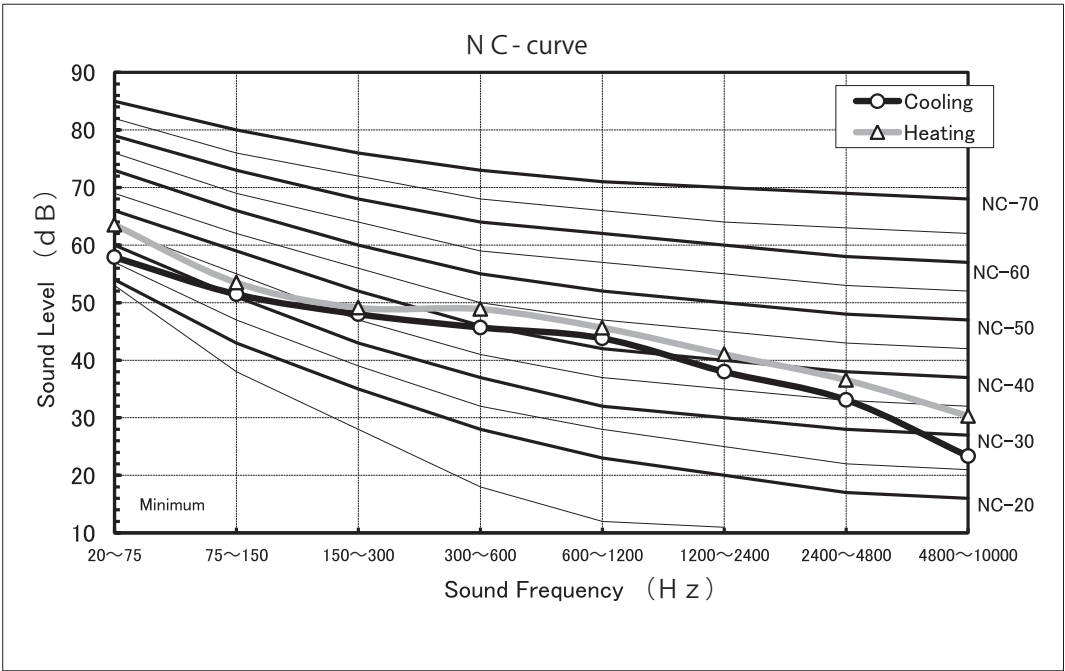
RAV-GM302ATP-E

Measured point	Specification (d B)	
	Cooling	Heating
Horizontal 1.0 m	46	47



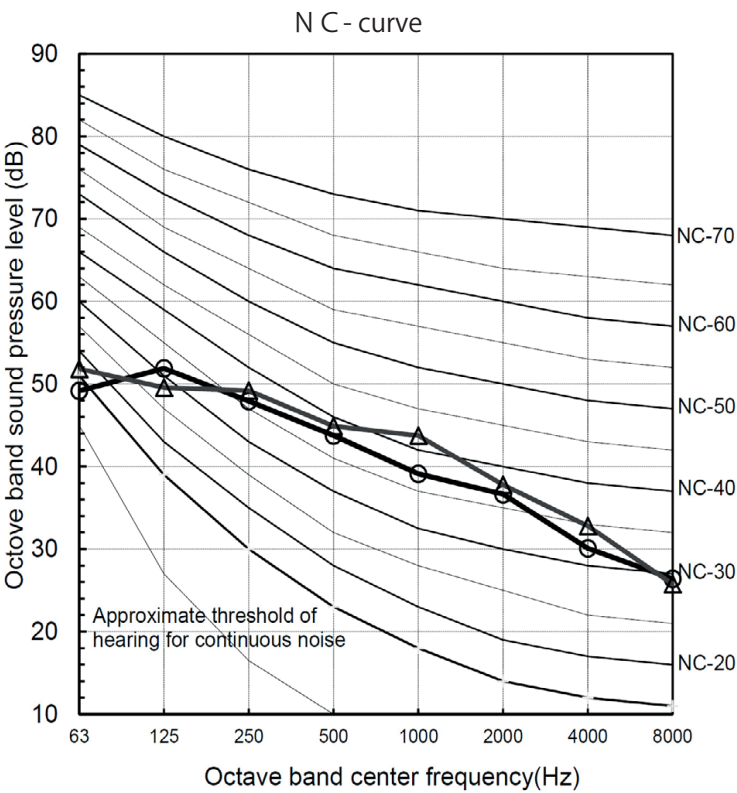
RAV-GM402ATP-E

Measured point	Specification (d B)	
	Cooling	Heating
Horizontal 1.0 m	49	50



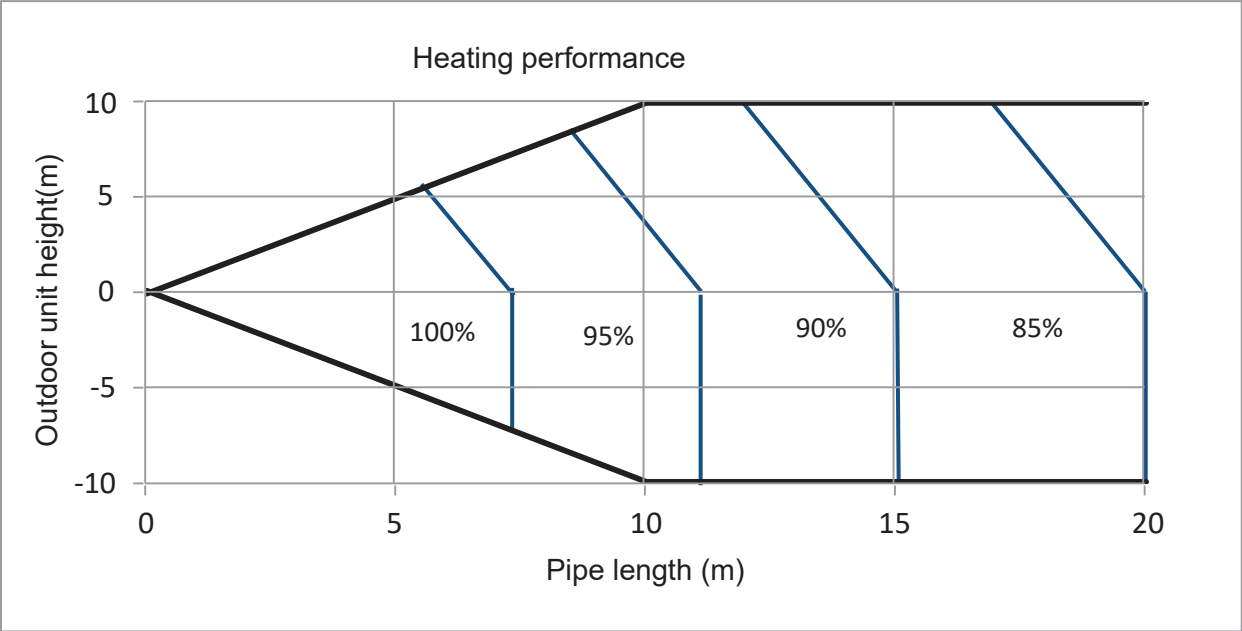
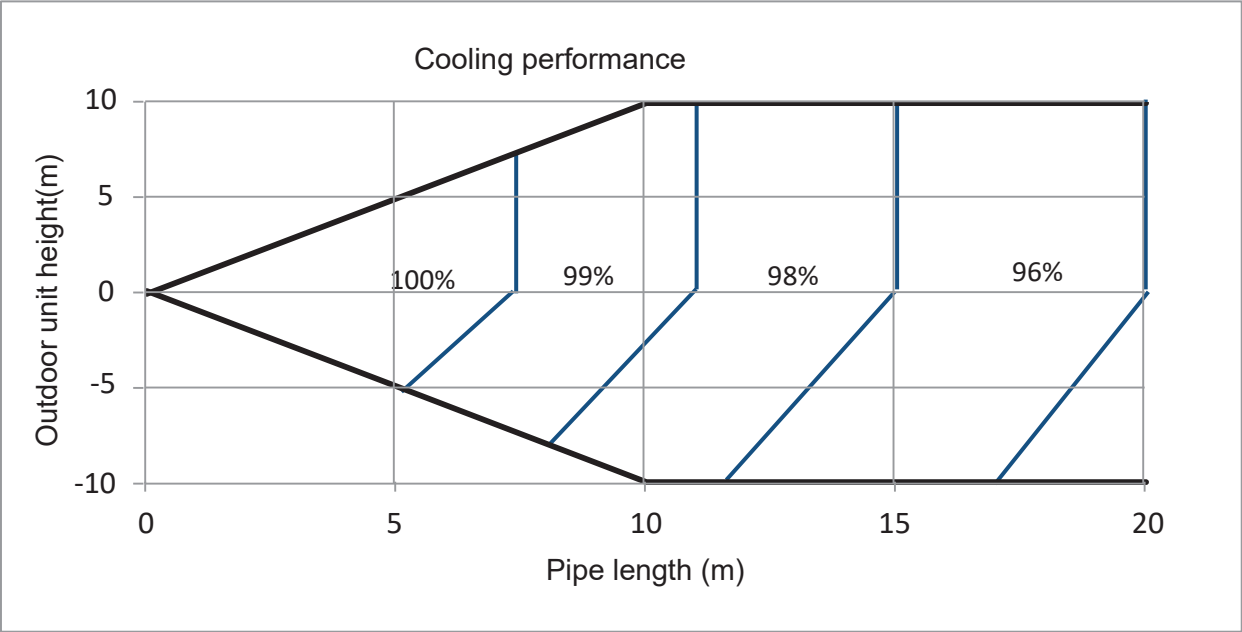
RAV-GM562ATP-E / TR

Sound pressure level (dB(A))	Cooling	Heating
	46	48

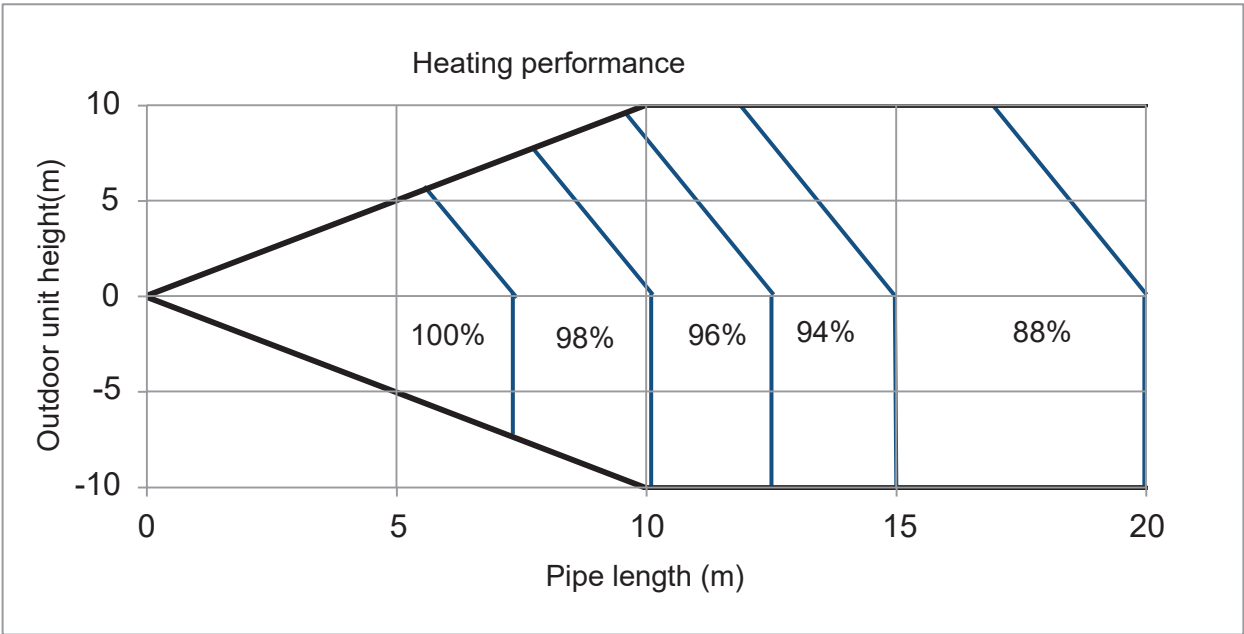
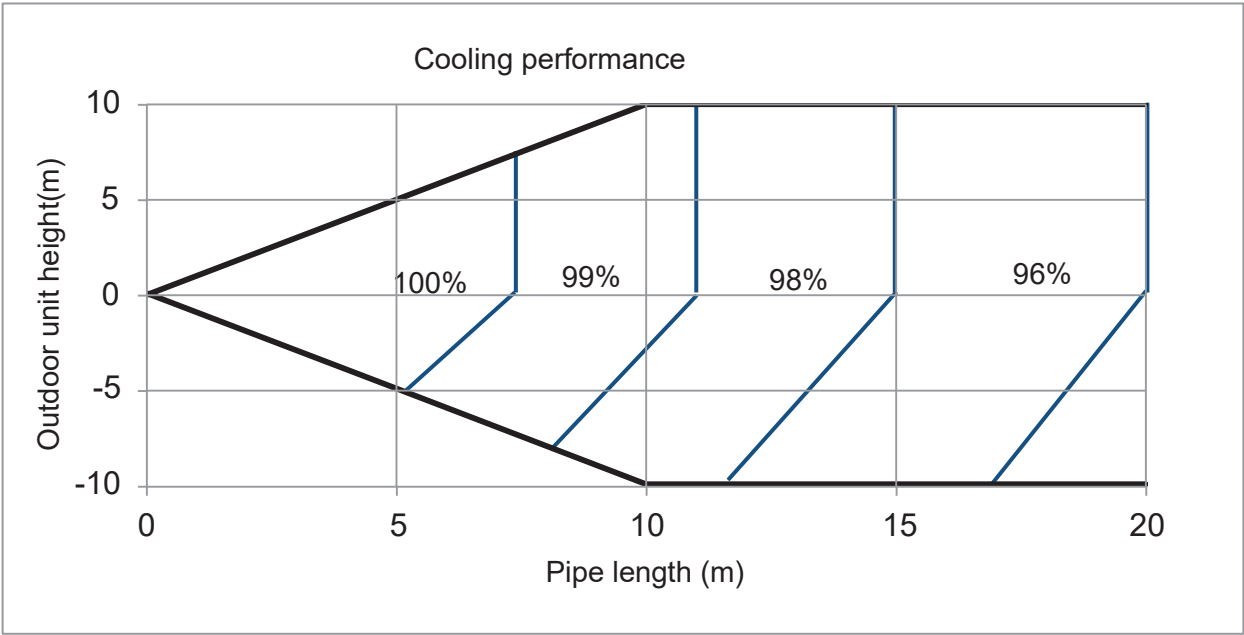


3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

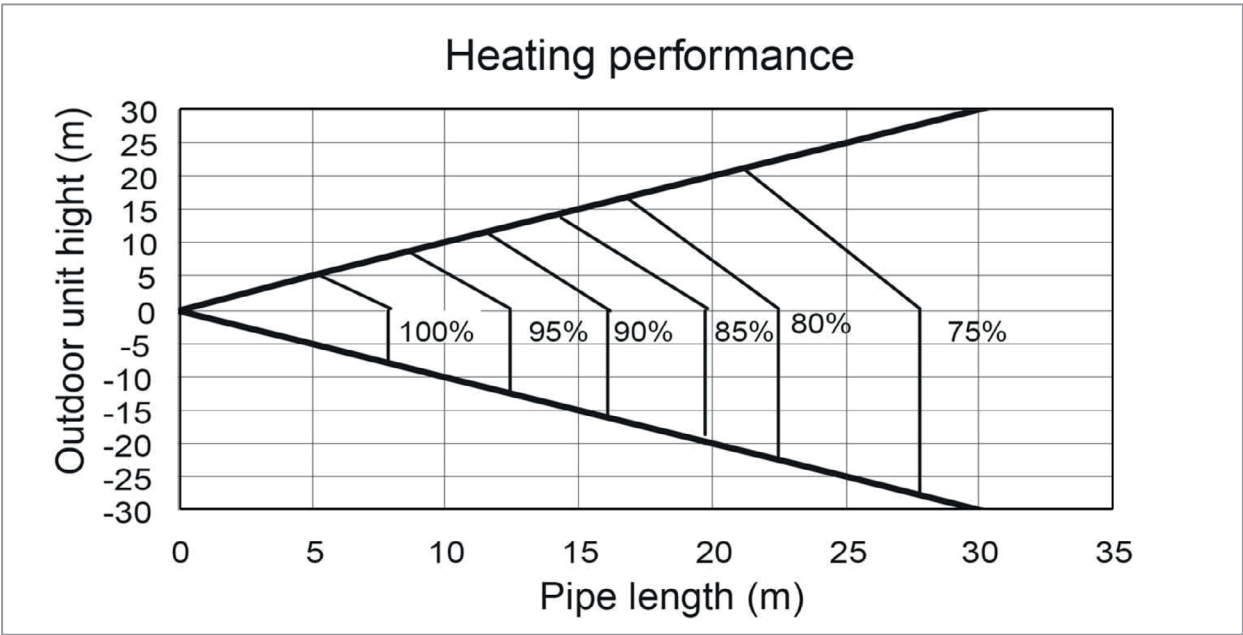
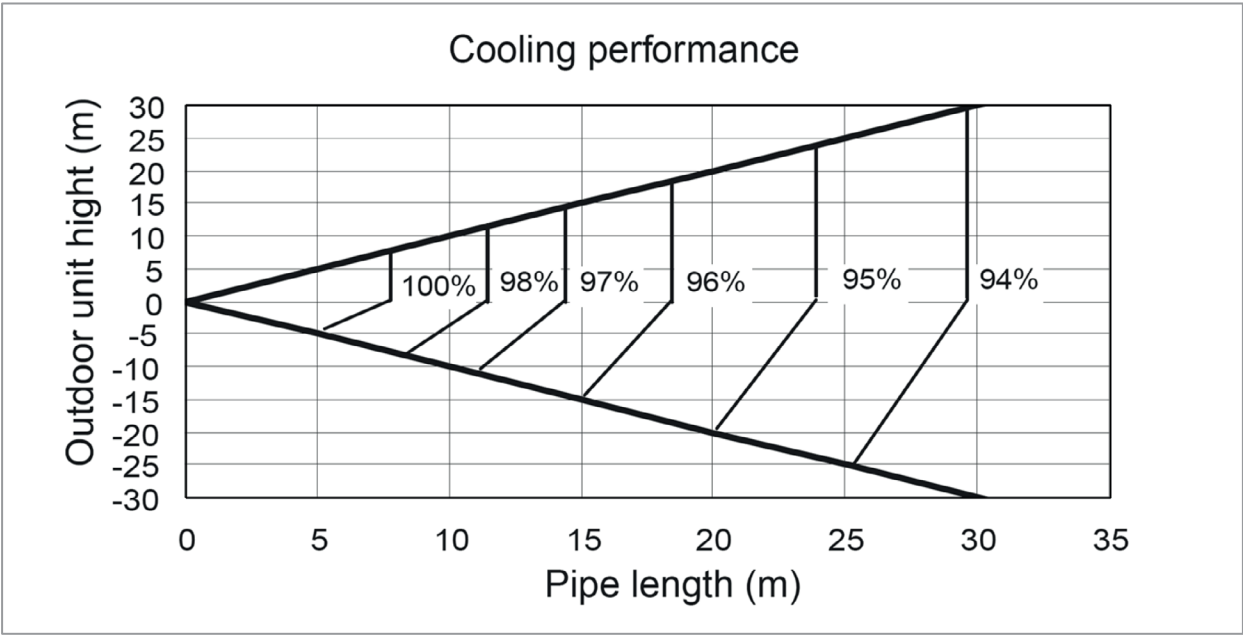
RAV-GM302ATP-E



RAV-GM402ATP-E



RAV-GM562ATP-E / TR



4. Optional Accessories

Type	Model name	Feature	Applied model	Factory
Ceiling Panel	RBC-U32PGP-E	Standard 4-Way cassette panel without receiver	4-Way cassette	TCTC
	RBC-U33P-E	Smart design 4-Way cassette panel without receiver	4-Way cassette	
	RBC-UY32P-E	1-Way cassette panel without receiver	1-Way cassette	
Wireless remote Controller kit	RBC-AXU31U-E	Wireless receiver and wireless remote controller	4-Way cassette with RBC-U32PGP-E	TCC
	RBC-AXU33UP-E		4-Way cassette with RBC-U33P-E	TCTC
	RBC-AXU31-E		Standard duct	TCC
	RBC-AXU31C-E		Under ceiling	TCC
	RBC-AX33UYP-E		1-Way cassette	TCTC
Wired Remote Controller	RBC-ASCU11-E	Standard wired remote controller	All FCU type	TCAC
	RBC-AMTU31-E	Wired remote controller		TCC
	RBC-AMSU51-EN/ES	Premium wired remote controller		
	RBC-AMSU52-E	New wired Remote without bluetooth		
	RBC-AWSU52-E	New wired Remote with bluetooth		
Occupancy sensor	TCB-SIR33UP-E	Occupancy sensor	4-Way cassette with RBC-U33P-E	TCTC
	TCB-SIR41UYP-E		1-Way cassette	
PM2.5 filter for 4Way cassette	TCB-PLFC1UPE-120	Before Pre-Filter type	4-Way cassette	TCTC
	TCB-PLFC2UPE-80	After Pre-Filter type		
Spigot shaped flange	TCB-SF56C6BPE	For duct chassis width 700mm	Duct	TCTC
	TCB-SF80C6BPE	For duct chassis width 1000mm		
	TCB-SF160C6BPE	For duct chassis width 1400mm		
Air purifier kit	TCB-EAPC1UYHP-E	Set of Plasma Air Purifier, Dust sensor, Air quality indicator and Wireless receiver	1-Way cassette	TCTC
Auxiliary fresh air flange	TCB-FF151US-E	Fresh air intake flange	Duct	TCC
	TCB-FF101URE2	Fresh air intake flange	4-Way cassette, under ceiling	
	TCB-GB1602UE	Fresh air intake box	4-Way cassette	

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