

Appendix

Ducted (6 series) Type

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2. Dimension
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1. Specifications

Model	Indoor unit		RAV-SM	406BT-E	456BT-E	566BT-E	806BT-E	1106BT-E
	Outdoor unit		RAV-SP	404AT-E	454AT-E	564AT-E	804AT-E	1104AT-E
Cooling capacity			(kW)	3.6 (1.5 – 4.0)	4.0 (1.5 – 4.5)	5.0 (1.2 – 5.6)	7.1 (1.9 – 8.0)	10.0 (2.6 – 12.0)
Heating capacity			(kW)	4.0 (1.5 – 5.0)	4.5 (1.5 – 5.6)	5.6 (0.9 – 7.4)	8.0 (1.3 – 10.6)	11.2 (2.4 – 13.0)
Power supply	1 phase 230V (220 – 240V) 50Hz							
Electrical characteristics	Cooling	Running current	(A)	5.40 – 4.95	6.01 – 5.50	7.23 – 6.62	9.65 – 8.84	12.30 – 11.20
		Power consumption	(kW)	1.07	1.23	1.56	2.06	2.64
		Power factor	(%)	90	93	98	97	98
		EER		3.38	3.24	3.21	3.45	3.79
		Energy efficiency class *		A	A	A	A	A
	Heating	Running current	(A)	5.13 – 4.70	6.06 – 5.55	7.18 – 6.58	10.30 – 9.49	12.90 – 11.80
		Power consumption	(kW)	1.04	1.24	1.55	2.21	2.77
		Power factor	(%)	92	93	98	97	98
		COP		3.84	3.63	3.61	3.62	4.04
		Energy efficiency class *		A	A	A	A	A
Maximum current		(A)	11.2	11.2	13.7	20.7	22.3	
Appearance	Main unit		Zinc hot dipping steel plate					
Outer dimension	Main unit	Height	(mm)	275	275	275	275	275
		Width	(mm)	700	700	700	1000	1400
		Depth	(mm)	750	750	750	750	750
Total weight	Main unit		(kg)	23	23	23	30	40
Heat exchanger	Finned tube							
Fan unit	Fan		Centrifugal fan					
	Standard air flow	H/M/L	(m ³ /min.)	13.3/10.5/8.0	13.3/10.5/8.0	13.3/10.5/8.0	20.0/15.5/12.0	35.0/27.5/21.0
	Motor		(W)	150	150	150	150	250
	External static pressure	Standard (Upper – Lower)		(Pa)	30 (120 – 30)	30 (120 – 30)	30 (120 – 30)	30 (120 – 30)
Air filter	Long life filter							
Controller (Sold separately)	RBC-AMT32E, AMS41E, AS21E2							
Connecting pipe	Gas side		(mm)	12.7	12.7	12.7	15.9	15.9
	Liquid side		(mm)	6.4	6.4	6.4	9.5	9.5
	Drain port		(mm)	VP25				
Sound pressure level	H/M/L		(dB•A)	33/29/25	33/29/25	33/29/25	34/30/26	40/36/33
Sound power level	H/M/L		(dB•A)	48/44/40	48/44/40	48/44/40	49/45/41	55/51/48

* : IEC standard

*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 :

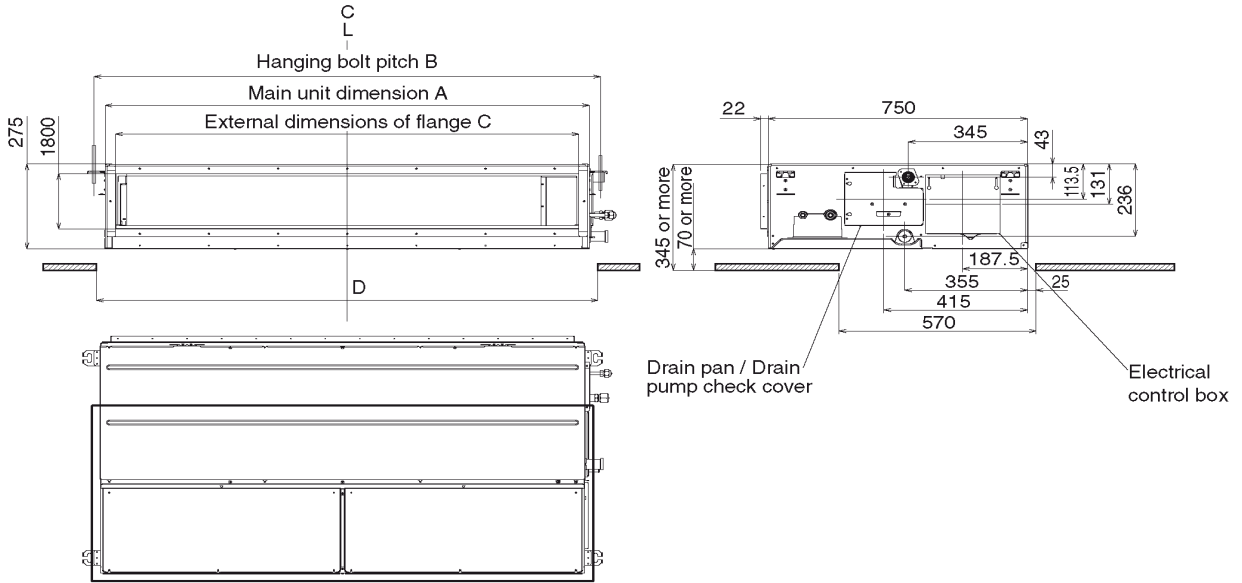
Rated conditions Cooling : Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB
 Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB/6°C WB

Model	Indoor unit 1		RAV-SM	1406BT-E	406BT-E	566BT-E	806BT-E
	Indoor unit 2		RAV-SM	-	406BT-E	566BT-E	806BT-E
	Outdoor unit		RAV-SP	1404AT-E	804AT-E	1104AT-E	1404AT-E
Cooling capacity		(kW)	12.5 (2.6 – 14.0)	7.1 (1.9 – 8.0)	10.0 (2.6 – 12.0)	12.5 (2.6 – 14.0)	
Heating capacity		(kW)	14.0 (2.4 – 16.5)	8.0 (1.3 – 10.6)	11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)	
Indoor unit							
Power supply			1 phase 230V (220 – 240V) 50Hz				
Electrical characteristics	Cooling	Running current (A)	17.70 – 16.20	9.65 – 8.84	12.30 – 11.20	17.70 – 16.20	
		Power consumption (kW)	3.83	2.06	2.64	3.83	
		Power factor (%)	98	97	98	98	
		EER	3.26	3.45	3.79	3.26	
		Energy efficiency class *	A	A	A	A	
	Heating	Running current (A)	17.00 – 15.50	10.30 – 9.49	12.90 – 11.80	17.00 – 15.50	
		Power consumption (kW)	3.67	2.21	2.77	3.67	
		Power factor (%)	98	97	98	98	
		COP	3.81	3.62	4.04	3.81	
		Energy efficiency class *	A	A	A	A	
Maximum current (A)			22.6	20.8	22.8	22.8	
Fan unit	Fan		Centrifugal fan				
	Standard air flow	H/M/L (m ³ /min.)	35.0/27.5/21.0	13.3/10.5/8.0	13.3/10.5/8.0	20.0/15.5/12.0	
	Motor (W)		250	150	150	150	
	External static pressure	Standard (Upper – Lower) (Pa)	50 (120 – 30)	30 (120 – 30)	30 (120 – 30)	30 (120 – 30)	
Sound pressure level		H/M/L (dB•A)	40/36/33	33/29/25	33/29/25	34/30/26	
Sound power level		H/M/L (dB•A)	55/51/48	48/44/40	48/44/40	49/45/41	
Outdoor unit							
Power supply			1 phase 230V (220 – 240V) 50Hz (Power exclusive to outdoor is required.)				
Refrigerant pipe	Standard length (m)		7.5	7.5	7.5	7.5	
	Max. total length (m)		75.0	75.0	50.0	50.0	
	Refrigerant charging amount (Charge-less up to 30m)		40g/m (31m to 50m)				
	Height difference	Outdoor lower (m)	30	30	30	30	
Outdoor higher (m)		30	30	30	30		
Fan unit	Fan		Propeller fan				
	Standard air flow (m ³ /min.)		103	50	101	103	
	Motor (W)		100+100	63	100+100	100+100	
Connecting pipe	Gas side	Main (mm)	15.9	15.9	15.9	15.9	
		Sub (mm)	-	12.7	12.7	15.9	
	Liquid side	Main (mm)	9.5	9.5	9.5	9.5	
		Sub (mm)	-	6.4	6.4	9.5	
Sound pressure level		Cooling/Heating (dB•A)	51/52	48/49	49/50	51/52	
Sound power level		Cooling/Heating (dB•A)	68/69	64/65	66/67	68/69	

* : IEC standard

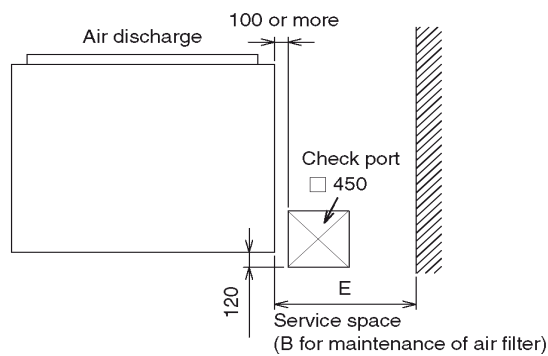
2. Dimension

RAV-SM406BT-E, RAV-SM456BT-E, RAV-SM566BT-E, RAV-SM806BT-E, RAV-SM1106BT-E, RAV-SM1406BT-E



Dimension

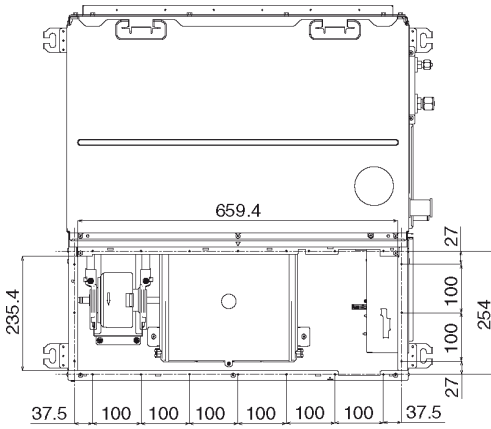
	A	B	C	D
RAV-SM406BT-E RAV-SM456BT-E RAV-SM566BT-E	700	765	640	750
RAV-SM806BT-E	1000	1065	940	1050
RAV-SM1106BT-E RAV-SM1406BT-E	1400	1465	1340	1450



	E
RAV-SM406BT-E RAV-SM456BT-E RAV-SM566BT-E	700
RAV-SM806BT-E	500
RAV-SM1106BT-E RAV-SM1406BT-E	700

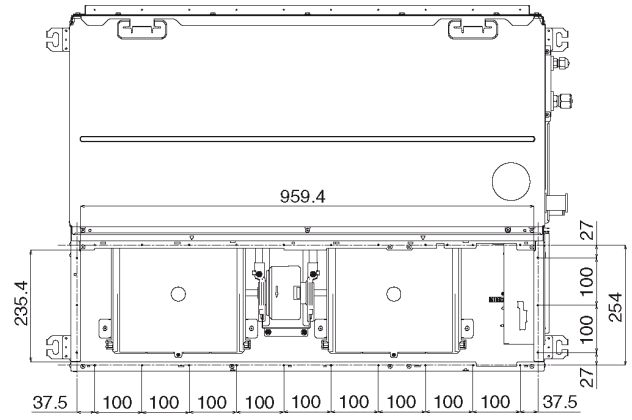
**RAV-SM406BT-E, RAV-SM456BT-E,
RAV-SM566BT-E**

<Under air intake>

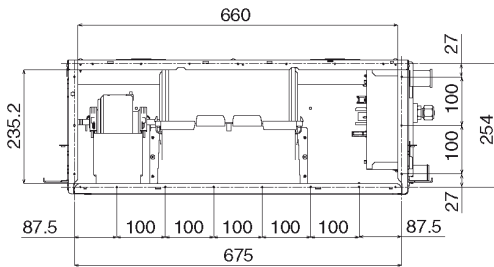


RAV-SM806BT-E

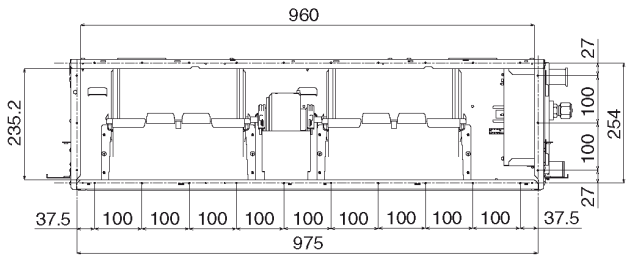
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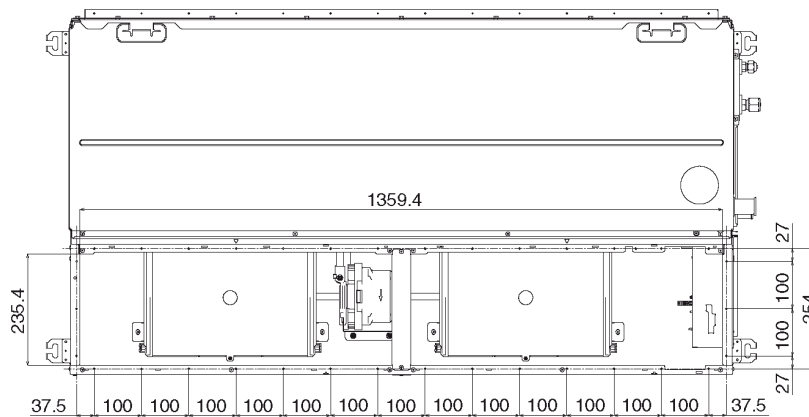


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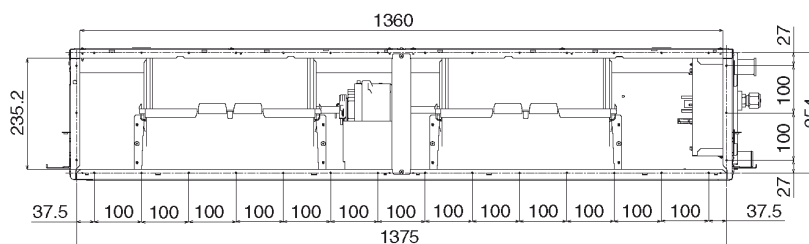


RAV-SM1106BT-E, RAV-SM1406BT-E

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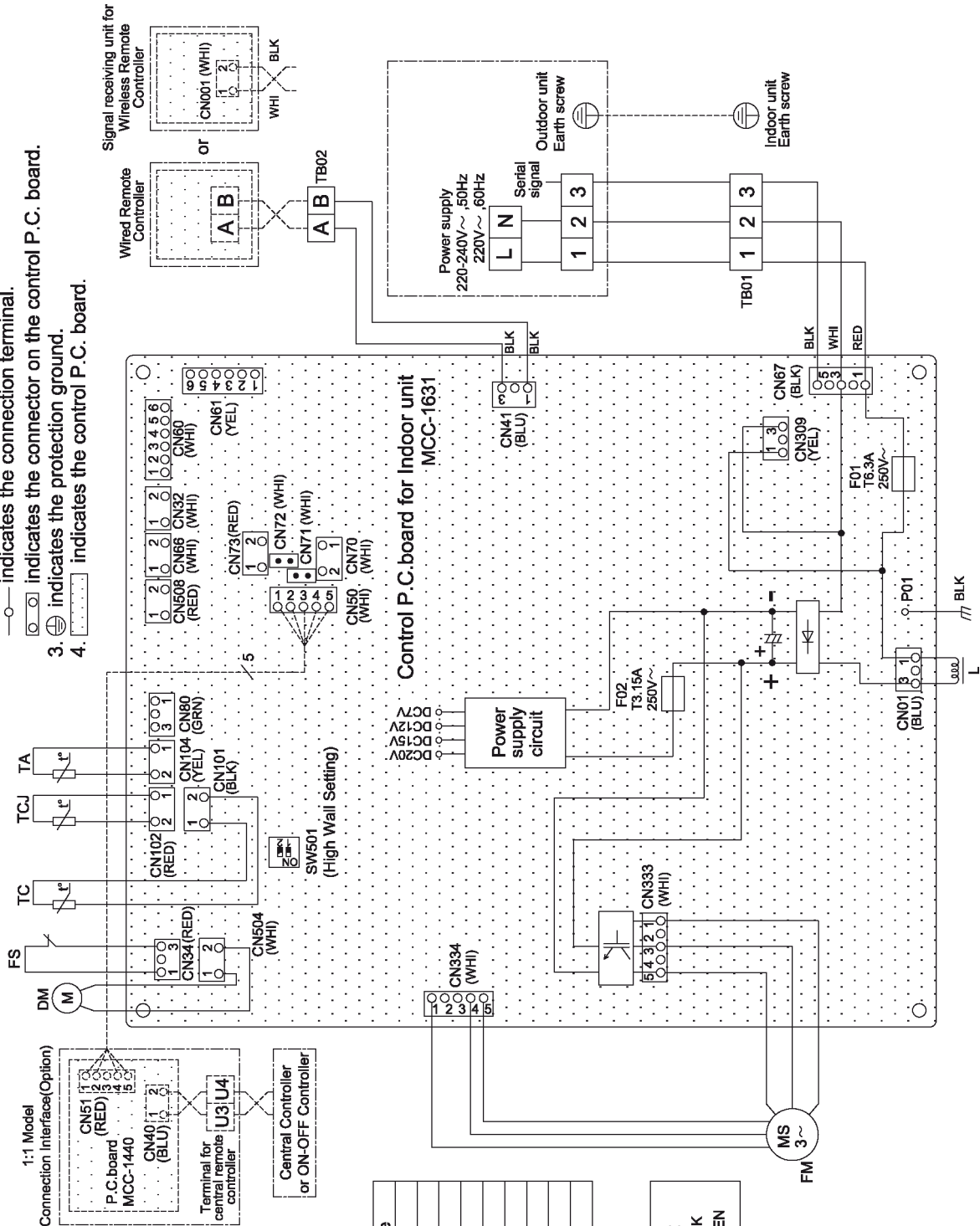
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3. Wiring diagrams

RAV-SM406BT-E, RAV-SM456BT-E, RAV-SM566BT-E, RAV-SM806BT-E, RAV-SM1106BT-E, RAV-SM1406BT-E

1. Broken line indicate the wiring at site.
- Long dashed short dashed line indicate the accessories.
2.  indicates the terminal block.
3.  indicates the connection terminal.
4.  indicates the protection ground.



Symbol	Parts name
CN**	Connector
DM	Drain pump Motor
F01,02	Fuse
FM	Fan Motor
FS	Float Switch
L	Reactor
TA	Indoor temp.sensor
TB01,TB02	Terminal Block
TC,TCJ	Temp.sensor

Color Indication	
RED : RED	BLU : BLUE
WHI : WHITE	BLK : BLACK
YEL : YELLOW	GRN : GREEN

		indoor air temp.																	
unit size	outdoor air temp. CDB	14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1106	10.0	9.4	8.3	9.9	8.6	10.4	8.9	10.8	9.1	11.1	9.4	11.4	9.4	11.8	9.4	12.5	9.2	13.0	9.0
	12.0	9.3	8.2	9.8	8.5	10.3	8.8	10.7	9.1	11.0	9.4	11.4	9.4	11.7	9.4	12.4	9.2	12.9	9.0
	14.0	9.3	8.2	9.8	8.5	10.2	8.8	10.6	9.0	11.0	9.2	11.3	9.2	11.6	9.2	12.3	9.1	12.9	9.0
	16.0	9.2	8.1	9.7	8.4	10.2	8.7	10.6	9.0	10.9	9.2	11.2	9.2	11.5	9.1	12.2	9.1	12.8	8.9
	18.0	9.1	8.1	9.6	8.3	10.1	8.5	10.5	8.8	10.8	9.1	11.1	9.1	11.4	9.1	12.1	9.0	12.7	8.8
	20.0	9.1	8.0	9.6	8.3	10.0	8.5	10.4	8.8	10.7	9.1	11.0	9.0	11.3	9.0	12.0	8.9	12.6	8.8
	21.0	9.0	8.0	9.5	8.3	10.0	8.5	10.4	8.8	10.7	9.0	11.0	9.0	11.3	9.0	12.0	8.9	12.5	8.7
	23.0	8.9	7.9	9.4	8.1	9.9	8.4	10.3	8.7	10.6	8.9	10.9	8.9	11.2	8.9	11.8	8.8	12.4	8.7
	25.0	8.8	7.9	9.3	8.1	9.8	8.3	10.1	8.6	10.4	8.9	10.8	8.8	11.1	8.8	11.7	8.7	12.2	8.5
	27.0	8.7	7.7	9.2	8.0	9.6	8.2	10.0	8.5	10.3	8.8	10.6	8.7	10.9	8.7	11.6	8.5	12.1	8.4
	29.0	8.6	7.6	9.1	7.9	9.5	8.1	9.9	8.4	10.2	8.7	10.5	8.5	10.8	8.5	11.4	8.4	11.9	8.3
	31.0	8.5	7.5	9.0	7.7	9.4	8.0	9.7	8.3	10.0	8.5	10.3	8.4	10.6	8.4	11.3	8.3	11.8	8.2
	33.0	8.4	7.4	8.8	7.6	9.2	7.9	9.6	8.1	9.9	8.3	10.2	8.3	10.5	8.3	11.1	8.2	11.6	8.1
	35.0	8.2	7.3	8.7	7.5	9.1	7.7	9.4	8.0	9.7	8.2	10.0	8.2	10.3	8.2	10.9	8.1	11.4	8.0
	37.0	8.1	7.2	8.5	7.4	8.9	7.6	9.2	7.9	9.5	8.1	9.8	8.1	10.1	8.1	10.7	8.0	11.2	7.7
	39.0	7.9	6.9	8.3	7.2	8.7	7.4	9.0	7.6	9.3	7.9	9.6	7.9	9.9	7.9	10.5	7.7	10.9	6.9

		indoor air temp.																	
unit size	outdoor air temp. CDB	14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
1406	10.0	11.7	9.4	12.4	9.7	13.0	10.1	13.5	10.4	13.9	10.7	14.3	10.6	14.7	10.6	15.6	10.5	16.3	10.3
	12.0	11.7	9.4	12.3	9.7	12.9	9.9	13.4	10.3	13.8	10.6	14.2	10.6	14.6	10.6	15.5	10.4	16.2	10.2
	14.0	11.6	9.3	12.2	9.6	12.8	9.9	13.3	10.2	13.7	10.5	14.1	10.5	14.5	10.5	15.4	10.4	16.1	10.2
	16.0	11.5	9.2	12.1	9.5	12.7	9.8	13.2	10.2	13.6	10.5	14.0	10.4	14.4	10.4	15.3	10.3	16.0	10.1
	18.0	11.4	9.2	12.0	9.5	12.6	9.7	13.1	10.1	13.5	10.4	13.9	10.4	14.3	10.4	15.1	10.2	15.8	9.9
	20.0	11.3	9.1	11.9	9.4	12.5	9.6	13.0	9.9	13.4	10.3	13.8	10.3	14.2	10.3	15.0	10.2	15.7	9.9
	21.0	11.3	9.1	11.9	9.4	12.4	9.6	12.9	9.9	13.3	10.3	13.7	10.2	14.1	10.2	15.0	10.1	15.6	9.8
	23.0	11.2	9.0	11.8	9.2	12.3	9.5	12.8	9.8	13.2	10.2	13.6	10.1	14.0	10.1	14.8	9.9	15.5	9.7
	25.0	11.0	8.9	11.6	9.1	12.2	9.4	12.7	9.7	13.1	10.1	13.4	9.9	13.8	9.9	14.6	9.8	15.3	9.6
	27.0	10.9	8.8	11.5	9.0	12.0	9.3	12.5	9.6	12.9	9.9	13.3	9.8	13.7	9.8	14.5	9.7	15.1	9.5
	29.0	10.8	8.7	11.4	8.9	11.9	9.2	12.3	9.5	12.7	9.7	13.1	9.7	13.5	9.7	14.3	9.6	14.9	9.4
	31.0	10.6	8.5	11.2	8.8	11.7	9.1	12.1	9.4	12.5	9.6	12.9	9.6	13.3	9.6	14.1	9.5	14.7	9.3
	33.0	10.4	8.3	11.0	8.6	11.5	8.9	11.9	9.2	12.3	9.5	12.7	9.4	13.1	9.4	13.8	9.3	14.5	9.2
	35.0	10.3	8.2	10.8	8.5	11.3	8.8	11.7	9.0	12.1	9.3	12.5	9.3	12.9	9.3	13.6	9.2	14.2	9.0
	37.0	10.1	8.1	10.6	8.4	11.1	8.7	11.5	8.9	11.9	9.2	12.3	9.1	12.6	9.1	13.4	9.0	14.0	8.9
	39.0	9.9	7.9	10.4	8.2	10.9	8.4	11.3	8.7	11.7	9.0	12.0	9.0	12.4	9.0	13.1	8.9	13.7	8.7

TC: Total Capacity [kW]
SHC: Sensible Heat Capacity [kW]

5. Part load performance

Combination

Indoor unit : RAV-SM406BT-E

Outdoor unit : RAV-SP404AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	370	1500	370
RATING	3600	1070	4000	1040

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	3420	3080	2740	2400	2050	1710	1430	1430	1430	1430
	W	1153	987	841	706	582	467	400	400	400	400
35	Q	3600	3240	2880	2520	2160	1800	1500	1500	1500	1500
	W	1070	918	780	654	538	431	370	370	370	370
30	Q	3750	3370	3000	2620	2250	1870	1560	1560	1560	1560
	W	987	852	717	603	499	395	340	340	340	340
25	Q	3870	3480	3100	2710	2320	1940	1610	1610	1610	1610
	W	914	790	665	561	457	374	320	320	320	320
20	Q	3970	3570	3180	2780	2380	1990	1650	1650	1650	1650
	W	852	727	623	519	426	343	290	290	290	290

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	5340	4800	4270	3740	3200	2670	2140	2000	2000	2000
	W	1217	1082	946	811	676	562	447	430	430	430
15	Q	4820	4340	3860	3380	2890	2410	1930	1810	1810	1810
	W	1144	1019	894	770	645	530	426	410	410	410
10	Q	4380	3940	3500	3070	2630	2190	1750	1640	1640	1640
	W	1092	967	853	728	614	499	406	390	390	390
7	Q	4000	3600	3200	2800	2400	2000	1600	1500	1500	1500
	W	1040	926	811	697	582	478	385	370	370	370
5	Q	3730	3360	2990	2610	2240	1870	1490	1400	1400	1400
	W	1009	894	790	676	562	468	374	360	360	360
2	Q	3340	3010	2680	2340	2010	1670	1340	1250	1250	1250
	W	957	853	749	645	541	437	354	340	340	340
0	Q	2610	2350	2090	1830	1570	1310	1040	980	980	980
	W	853	759	666	572	478	395	312	300	300	300
-5	Q	2610	2350	2090	1830	1570	1310	1040	980	980	980
	W	853	759	666	572	478	395	312	300	300	300
-7	Q	2460	2210	1960	1720	1470	1230	980	920	920	920
	W	822	738	645	551	458	385	302	290	290	290
-10	Q	2250	2020	1800	1570	1350	1120	900	840	840	840
	W	790	707	614	530	447	364	291	280	280	280
-15	Q	1900	1710	1520	1330	1140	950	760	710	710	710
	W	749	666	582	499	416	343	281	270	270	270

Combination

Indoor unit : RAV-SM456BT-E

Outdoor unit : RAV-SP454AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1500	370	1500	370
RATING	4000	1230	4500	1240

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	3800	3420	3040	2660	2280	1900	1520	1430	1430	1430
	W	1322	1097	902	738	584	461	420	400	400	400
35	Q	4000	3600	3200	2800	2400	2000	1600	1500	1500	1500
	W	1230	1020	839	684	549	429	389	370	370	370
30	Q	4160	3750	3330	2910	2500	2080	1670	1560	1560	1560
	W	1138	943	779	636	502	400	359	340	340	340
25	Q	4300	3870	3440	3010	2580	2150	1720	1610	1610	1610
	W	1056	871	718	584	472	369	336	320	320	320
20	Q	4410	3970	3530	3090	2650	2210	1760	1650	1650	1650
	W	974	810	666	543	441	338	305	290	290	290

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	6010	5410	4800	4200	3600	3000	2400	2000	2000	2000
	W	1445	1272	1111	949	798	647	507	430	430	430
15	Q	5430	4880	4340	3800	3260	2710	2170	1810	1810	1810
	W	1369	1197	1046	895	744	604	474	410	410	410
10	Q	4930	4430	3940	3450	2960	2460	1970	1640	1640	1640
	W	1294	1143	992	841	712	571	453	390	390	390
7	Q	4500	4050	3600	3150	2700	2250	1800	1500	1500	1500
	W	1240	1089	949	809	679	550	431	370	370	370
5	Q	4200	3780	3360	2940	2520	2100	1680	1400	1400	1400
	W	1197	1057	917	787	658	528	421	360	360	360
2	Q	3760	3390	3010	2630	2260	1880	1500	1250	1250	1250
	W	1143	1003	873	744	625	507	399	340	340	340
0	Q	2940	2640	2350	2060	1760	1470	1180	980	980	980
	W	1014	895	776	658	561	453	356	300	300	300
-5	Q	2940	2640	2350	2060	1760	1470	1180	980	980	980
	W	1014	895	776	658	561	453	356	300	300	300
-7	Q	2760	2490	2210	1930	1660	1380	1110	920	920	920
	W	981	863	755	647	539	431	345	290	290	290
-10	Q	2530	2280	2020	1770	1520	1270	1010	840	840	840
	W	949	830	722	615	518	421	323	280	280	280
-15	Q	2130	1920	1710	1490	1280	1070	850	710	710	710
	W	895	776	679	582	485	399	313	270	270	270

Combination

Indoor unit : RAV-SM566BT-E

Outdoor unit : RAV-SP564AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	240	900	190
RATING	5000	1560	5600	1550

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4730	4260	3780	3310	2840	2360	1890	1420	1140	1140
	W	1670	1510	1340	1160	970	770	570	360	263	263
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1200	1200
	W	1560	1407	1246	1078	903	720	530	332	240	240
30	Q	5270	4740	4220	3690	3160	2640	2110	1580	1270	1270
	W	1450	1310	1160	1000	840	670	490	310	217	217
25	Q	5540	4990	4430	3880	3330	2770	2220	1660	1330	1330
	W	1340	1210	1070	920	770	620	450	280	206	206
20	Q	5810	5230	4650	4070	3490	2910	2330	1740	1400	1400
	W	1220	1100	980	850	710	570	420	260	183	183

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	7470	6730	5980	5230	4480	3740	2990	2240	1490	1200
	W	1732	1521	1320	1129	947	756	584	411	258	223
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1636	1435	1244	1062	899	718	545	392	239	212
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1550	1359	1177	1014	852	679	517	373	230	201
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1483	1301	1129	966	813	651	498	354	220	190
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1435	1263	1091	938	785	631	478	344	210	178
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1368	1196	1043	890	746	603	459	325	201	178
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1215	1062	928	794	670	536	411	287	182	156
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1215	1062	928	794	670	536	411	287	182	156
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	1177	1033	899	765	641	517	392	277	172	145
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	1129	985	861	737	622	498	383	268	172	145
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	1062	938	813	689	584	469	354	258	163	134

Combination

Indoor unit : RAV-SM806BT-E

Outdoor unit : RAV-SP804AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1900	350	1300	320
RATING	7100	2060	8000	2210

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6720	6040	5370	4700	4030	3360	2690	2010	1800	1800
	W	2209	1874	1566	1277	1016	774	550	443	373	373
35	Q	7100	6390	5680	4970	4260	3550	2840	2130	1900	1900
	W	2060	1750	1461	1193	947	721	517	418	350	350
30	Q	7480	6740	5990	5240	4490	3740	2990	2250	2000	2000
	W	1911	1622	1352	1109	876	671	475	385	326	326
25	Q	7870	7080	6300	5510	4720	3930	3150	2360	2110	2110
	W	1762	1501	1249	1025	811	615	447	361	303	303
20	Q	8250	7430	6600	5780	4950	4130	3300	2480	2210	2210
	W	1613	1370	1147	932	746	569	410	326	280	280

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10680	9610	8540	7470	6410	5340	4270	3200	2140	1740
	W	2468	2181	1885	1617	1349	1091	851	612	392	380
15	Q	9650	8680	7720	6750	5790	4820	3860	2890	1930	1570
	W	2334	2057	1779	1531	1272	1033	804	584	373	356
10	Q	8760	7880	7010	6130	5260	4380	3500	2630	1750	1420
	W	2210	1952	1693	1454	1205	976	756	545	354	332
7	Q	8000	7200	6400	5600	4800	4000	3200	2400	1600	1300
	W	2114	1866	1617	1387	1158	938	727	526	335	320
5	Q	7460	6720	5970	5220	4480	3730	2990	2240	1490	1210
	W	2047	1808	1569	1349	1119	909	708	507	325	309
2	Q	6690	6020	5350	4680	4010	3340	2680	2010	1340	1090
	W	1952	1722	1492	1282	1072	861	670	488	306	297
0	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1732	1531	1320	1138	947	765	593	431	277	261
-5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1732	1531	1320	1138	947	765	593	431	277	261
-7	Q	4910	4420	3930	3440	2950	2460	1960	1470	980	800
	W	1674	1483	1282	1100	918	746	574	421	268	249
-10	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	730
	W	1607	1416	1234	1052	880	718	555	402	258	249
-15	Q	3790	3410	3030	2650	2280	1900	1520	1140	760	620
	W	1521	1339	1158	995	832	670	526	373	239	225

Combination

Indoor unit : RAV-SM1106BT-E

Outdoor unit : RAV-SP1104AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	750	2400	630
RATING	10000	2640	11200	2770

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9465	8507	7563	6620	5676	4732	3789	2831	2463	2463
	W	2831	2574	2324	2068	1819	1565	1300	1044	800	800
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	2600	2600
	W	2640	2404	2168	1931	1695	1459	1223	986	750	750
30	Q	10535	9493	8437	7380	6324	5268	4211	3169	2737	2737
	W	2449	2228	2006	1796	1569	1358	1124	906	700	700
25	Q	11085	9972	8873	7761	6648	5535	4437	3324	2887	2887
	W	2258	2061	1854	1660	1452	1245	1058	851	650	650
20	Q	11620	10465	9296	8141	6972	5817	4648	3493	3024	3024
	W	2067	1882	1701	1509	1335	1150	970	769	600	600

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	14952	13454	11956	10458	8974	7476	5978	4480	3210	3210
	W	3234	2858	2469	2118	1767	1429	1116	802	737	737
15	Q	13510	12152	10808	9450	8106	6748	5404	4046	2895	2895
	W	3058	2695	2331	2005	1667	1354	1053	765	702	702
10	Q	12264	11032	9814	8582	7364	6132	4900	3682	2625	2625
	W	2895	2557	2219	1905	1579	1278	990	714	666	666
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	2400	2400
	W	2770	2444	2118	1817	1517	1228	953	689	630	630
5	Q	10444	9408	8358	7308	6272	5222	4186	3136	2235	2235
	W	2682	2369	2056	1767	1466	1191	928	664	612	612
2	Q	9366	8428	7490	6552	5614	4676	3752	2814	2010	2010
	W	2557	2256	1955	1680	1404	1128	877	639	576	576
0	Q	7308	6580	5852	5124	4382	3654	2926	2198	1560	1560
	W	2269	2005	1730	1492	1241	1003	777	564	522	522
-5	Q	7308	6580	5852	5124	4382	3654	2926	2198	1560	1560
	W	2269	2005	1730	1492	1241	1003	777	564	522	522
-7	Q	6874	6188	5502	4816	4130	3444	2744	2058	1470	1470
	W	2193	1943	1680	1441	1203	978	752	551	504	504
-10	Q	6300	5670	5040	4410	3780	3150	2520	1890	1350	1350
	W	2106	1855	1617	1379	1153	940	727	526	486	486
-15	Q	5306	4774	4242	3710	3192	2660	2128	1596	1140	1140
	W	1993	1755	1517	1304	1090	877	689	489	450	450

Combination

Indoor unit : RAV-SM1406BT-E

Outdoor unit : RAV-SP1404AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	750	2400	630
RATING	12500	3830	14000	3670

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11831	10634	9454	8275	7095	5915	4736	3539	2463	2463
	W	4107	3483	2911	2374	1889	1438	1216	1032	800	800
35	Q	12500	11250	10000	8750	7500	6250	5000	3750	2600	2600
	W	3830	3254	2715	2218	1760	1341	1144	947	750	750
30	Q	13169	11866	10546	9225	7905	6585	5264	3961	2737	2737
	W	3553	3015	2513	2062	1629	1248	1051	909	700	700
25	Q	13856	12465	11092	9701	8310	6919	5546	4155	2887	2887
	W	3275	2790	2322	1906	1508	1144	990	841	650	650
20	Q	14525	13081	11620	10176	8715	7271	5810	4366	3024	3024
	W	2998	2548	2132	1733	1386	1057	907	779	600	600

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	18690	16818	14945	13073	11218	9345	7473	5600	3745	3745
	W	4284	3786	3271	2806	2341	1893	1478	1063	738	738
15	Q	16888	15190	13510	11813	10133	8435	6755	5058	3378	3378
	W	4052	3570	3089	2657	2209	1793	1395	1013	702	702
10	Q	15330	13790	12268	10728	9205	7665	6125	4603	3063	3063
	W	3836	3388	2939	2524	2092	1694	1312	947	666	666
7	Q	14000	12600	11200	9800	8400	7000	5600	4200	2800	2800
	W	3670	3238	2806	2408	2009	1627	1262	913	630	630
5	Q	13055	11760	10448	9135	7840	6528	5233	3920	2608	2608
	W	3554	3139	2723	2341	1943	1578	1229	880	612	612
2	Q	11708	10535	9363	8190	7018	5845	4690	3518	2345	2345
	W	3388	2989	2591	2225	1860	1495	1162	847	576	576
0	Q	9135	8225	7315	6405	5478	4568	3658	2748	1820	1820
	W	3006	2657	2292	1976	1644	1329	1030	747	522	522
-5	Q	9135	8225	7315	6405	5478	4568	3658	2748	1820	1820
	W	3006	2657	2292	1976	1644	1329	1030	747	522	522
-7	Q	8593	7735	6878	6020	5163	4305	3430	2573	1715	1715
	W	2906	2574	2225	1910	1594	1295	996	731	504	504
-10	Q	7875	7088	6300	5513	4725	3938	3150	2363	1575	1575
	W	2790	2458	2142	1827	1528	1245	963	697	486	486
-15	Q	6633	5968	5303	4638	3990	3325	2660	1995	1330	1330
	W	2640	2325	2009	1727	1445	1162	913	648	450	450

Combination

Indoor unit : RAV-SM406BT-E (Twin)

Outdoor unit : RAV-SP804AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1900	350	1300	320
RATING	7100	2060	8000	2210

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6720	6040	5370	4700	4030	3360	2690	2010	1800	1800
	W	2209	1874	1566	1277	1016	774	550	443	373	373
35	Q	7100	6390	5680	4970	4260	3550	2840	2130	1900	1900
	W	2060	1750	1461	1193	947	721	517	418	350	350
30	Q	7480	6740	5990	5240	4490	3740	2990	2250	2000	2000
	W	1911	1622	1352	1109	876	671	475	385	326	326
25	Q	7870	7080	6300	5510	4720	3930	3150	2360	2110	2110
	W	1762	1501	1249	1025	811	615	447	361	303	303
20	Q	8250	7430	6600	5780	4950	4130	3300	2480	2210	2210
	W	1613	1370	1147	932	746	569	410	326	280	280

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10680	9610	8540	7470	6410	5340	4270	3200	2140	1740
	W	2468	2181	1885	1617	1349	1091	851	612	392	380
15	Q	9650	8680	7720	6750	5790	4820	3860	2890	1930	1570
	W	2334	2057	1779	1531	1272	1033	804	584	373	356
10	Q	8760	7880	7010	6130	5260	4380	3500	2630	1750	1420
	W	2210	1952	1693	1454	1205	976	756	545	354	332
7	Q	8000	7200	6400	5600	4800	4000	3200	2400	1600	1300
	W	2114	1866	1617	1387	1158	938	727	526	335	320
5	Q	7460	6720	5970	5220	4480	3730	2990	2240	1490	1210
	W	2047	1808	1569	1349	1119	909	708	507	325	309
2	Q	6690	6020	5350	4680	4010	3340	2680	2010	1340	1090
	W	1952	1722	1492	1282	1072	861	670	488	306	297
0	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1732	1531	1320	1138	947	765	593	431	277	261
-5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1732	1531	1320	1138	947	765	593	431	277	261
-7	Q	4910	4420	3930	3440	2950	2460	1960	1470	980	800
	W	1674	1483	1282	1100	918	746	574	421	268	249
-10	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	730
	W	1607	1416	1234	1052	880	718	555	402	258	249
-15	Q	3790	3410	3030	2650	2280	1900	1520	1140	760	620
	W	1521	1339	1158	995	832	670	526	373	239	225

Combination

Indoor unit : RAV-SM566BT-E (Twin)

Outdoor unit : RAV-SP1104AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	750	2400	630
RATING	10000	2640	11200	2770

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9465	8507	7563	6620	5676	4732	3789	2831	2463	2463
	W	2831	2574	2324	2068	1819	1565	1300	1044	800	800
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	2600	2600
	W	2640	2404	2168	1931	1695	1459	1223	986	750	750
30	Q	10535	9493	8437	7380	6324	5268	4211	3169	2737	2737
	W	2449	2228	2006	1796	1569	1358	1124	906	700	700
25	Q	11085	9972	8873	7761	6648	5535	4437	3324	2887	2887
	W	2258	2061	1854	1660	1452	1245	1058	851	650	650
20	Q	11620	10465	9296	8141	6972	5817	4648	3493	3024	3024
	W	2067	1882	1701	1509	1335	1150	970	769	600	600

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	14952	13454	11956	10458	8974	7476	5978	4480	3210	3210
	W	3234	2858	2469	2118	1767	1429	1116	802	737	737
15	Q	13510	12152	10808	9450	8106	6748	5404	4046	2895	2895
	W	3058	2695	2331	2005	1667	1354	1053	765	702	702
10	Q	12264	11032	9814	8582	7364	6132	4900	3682	2625	2625
	W	2895	2557	2219	1905	1579	1278	990	714	666	666
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	2400	2400
	W	2770	2444	2118	1817	1517	1228	953	689	630	630
5	Q	10444	9408	8358	7308	6272	5222	4186	3136	2235	2235
	W	2682	2369	2056	1767	1466	1191	928	664	612	612
2	Q	9366	8428	7490	6552	5614	4676	3752	2814	2010	2010
	W	2557	2256	1955	1680	1404	1128	877	639	576	576
0	Q	7308	6580	5852	5124	4382	3654	2926	2198	1560	1560
	W	2269	2005	1730	1492	1241	1003	777	564	522	522
-5	Q	7308	6580	5852	5124	4382	3654	2926	2198	1560	1560
	W	2269	2005	1730	1492	1241	1003	777	564	522	522
-7	Q	6874	6188	5502	4816	4130	3444	2744	2058	1470	1470
	W	2193	1943	1680	1441	1203	978	752	551	504	504
-10	Q	6300	5670	5040	4410	3780	3150	2520	1890	1350	1350
	W	2106	1855	1617	1379	1153	940	727	526	486	486
-15	Q	5306	4774	4242	3710	3192	2660	2128	1596	1140	1140
	W	1993	1755	1517	1304	1090	877	689	489	450	450

Combination

Indoor unit : RAV-SM806BT-E (Twin)

Outdoor unit : RAV-SP1404AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	750	2400	630
RATING	12500	3830	14000	3670

Q: Capacity in W
W: Power Consumption in W

Cooling

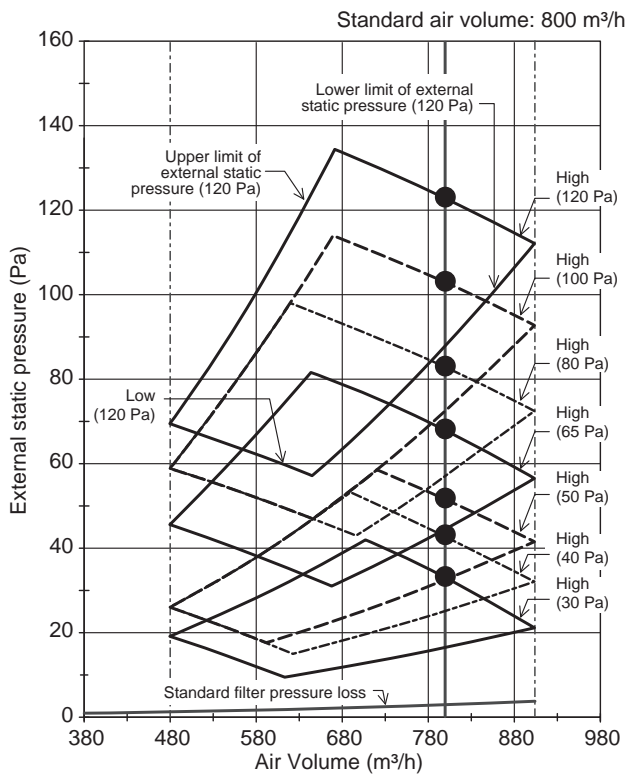
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11831	10634	9454	8275	7095	5915	4736	3539	2463	2463
	W	4107	3483	2911	2374	1889	1438	1216	1032	800	800
35	Q	12500	11250	10000	8750	7500	6250	5000	3750	2600	2600
	W	3830	3254	2715	2218	1760	1341	1144	947	750	750
30	Q	13169	11866	10546	9225	7905	6585	5264	3961	2737	2737
	W	3553	3015	2513	2062	1629	1248	1051	909	700	700
25	Q	13856	12465	11092	9701	8310	6919	5546	4155	2887	2887
	W	3275	2790	2322	1906	1508	1144	990	841	650	650
20	Q	14525	13081	11620	10176	8715	7271	5810	4366	3024	3024
	W	2998	2548	2132	1733	1386	1057	907	779	600	600

Heating

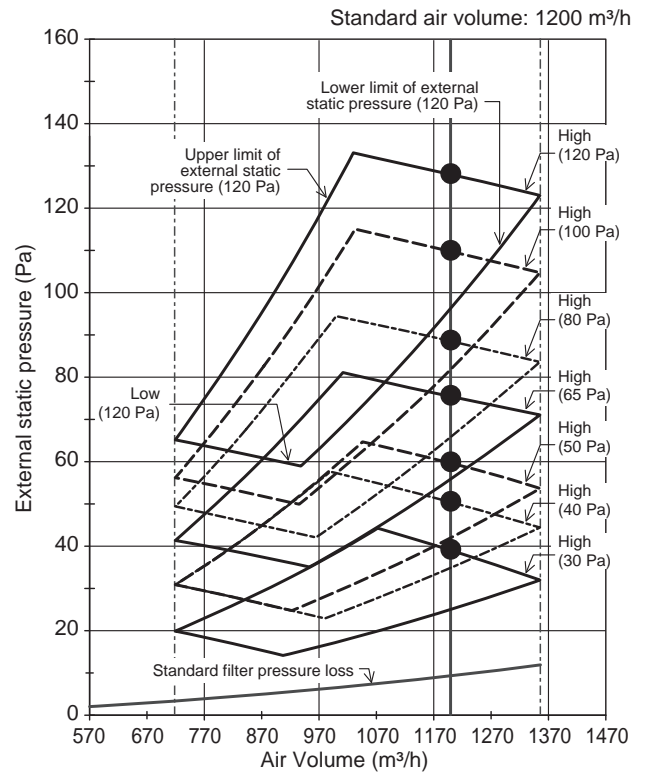
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	18690	16818	14945	13073	11218	9345	7473	5600	3745	3745
	W	4284	3786	3271	2806	2341	1893	1478	1063	738	738
15	Q	16888	15190	13510	11813	10133	8435	6755	5058	3378	3378
	W	4052	3570	3089	2657	2209	1793	1395	1013	702	702
10	Q	15330	13790	12268	10728	9205	7665	6125	4603	3063	3063
	W	3836	3388	2939	2524	2092	1694	1312	947	666	666
7	Q	14000	12600	11200	9800	8400	7000	5600	4200	2800	2800
	W	3670	3238	2806	2408	2009	1627	1262	913	630	630
5	Q	13055	11760	10448	9135	7840	6528	5233	3920	2608	2608
	W	3554	3139	2723	2341	1943	1578	1229	880	612	612
2	Q	11708	10535	9363	8190	7018	5845	4690	3518	2345	2345
	W	3388	2989	2591	2225	1860	1495	1162	847	576	576
0	Q	9135	8225	7315	6405	5478	4568	3658	2748	1820	1820
	W	3006	2657	2292	1976	1644	1329	1030	747	522	522
-5	Q	9135	8225	7315	6405	5478	4568	3658	2748	1820	1820
	W	3006	2657	2292	1976	1644	1329	1030	747	522	522
-7	Q	8593	7735	6878	6020	5163	4305	3430	2573	1715	1715
	W	2906	2574	2225	1910	1594	1295	996	731	504	504
-10	Q	7875	7088	6300	5513	4725	3938	3150	2363	1575	1575
	W	2790	2458	2142	1827	1528	1245	963	697	486	486
-15	Q	6633	5968	5303	4638	3990	3325	2660	1995	1330	1330
	W	2640	2325	2009	1727	1445	1162	913	648	450	450

6. Fan static characteristics

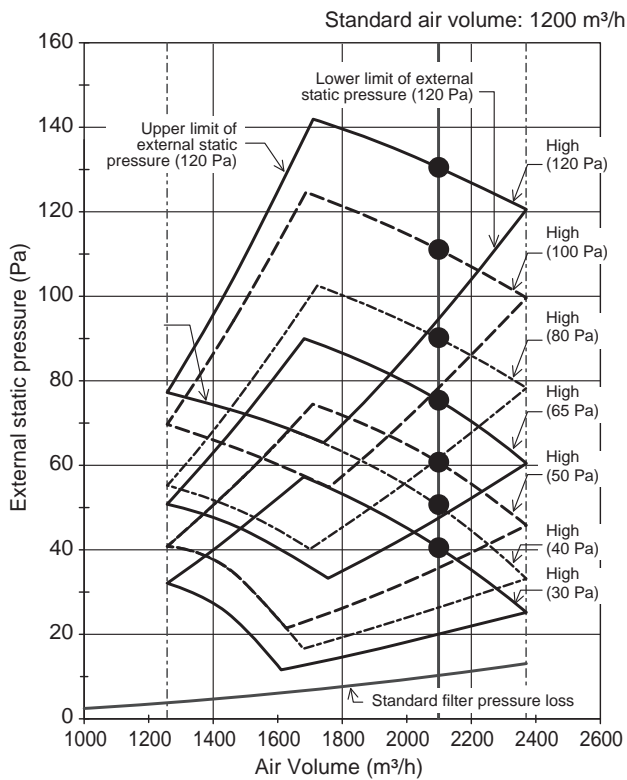
RAV-SM406BT-E, RAV-SM456BT-E,
RAV-SM566BT-E



RAV-SM806BT-E

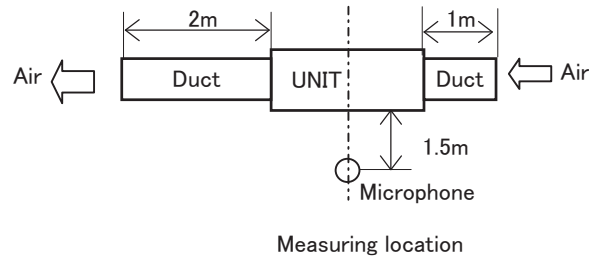


RAV-SM1106BT-E, RAV-SM1406BT-E



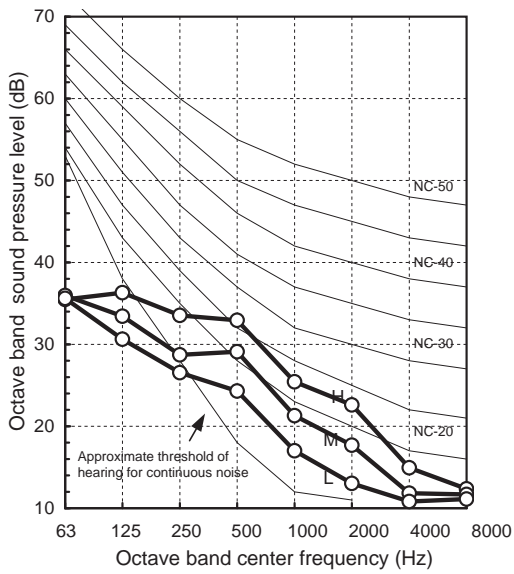
7. Sound characteristics (NC curve)

RAV-SM406BT-E, RAV-SM456BT-E, RAV-SM566BT-E



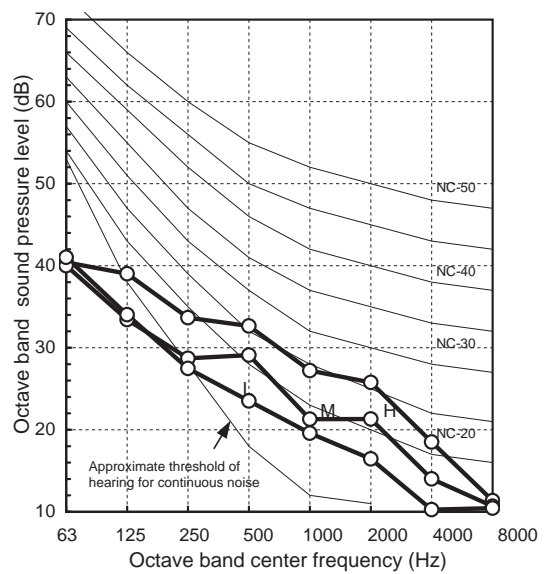
External static pressure 30Pa

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



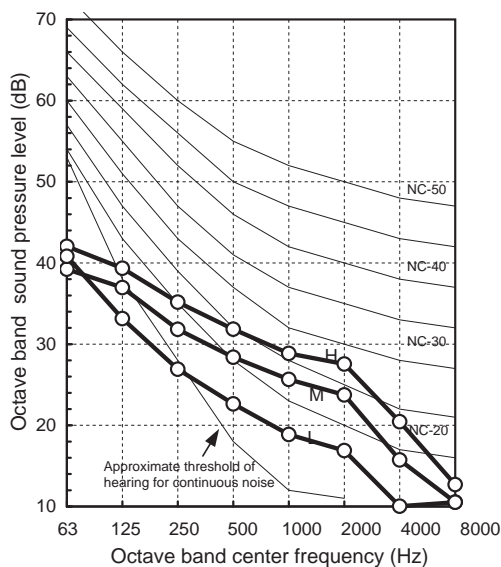
External static pressure 40Pa

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



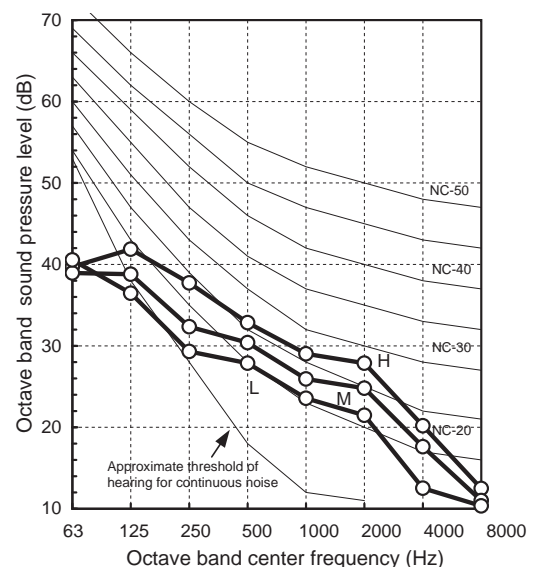
External static pressure 50Pa

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



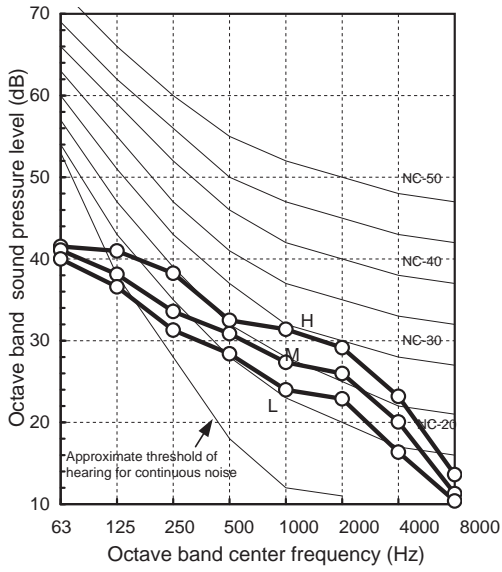
External static pressure 65Pa

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



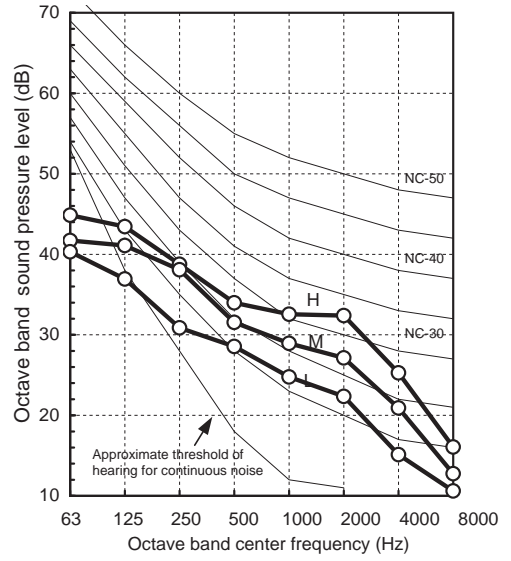
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	37	33	31



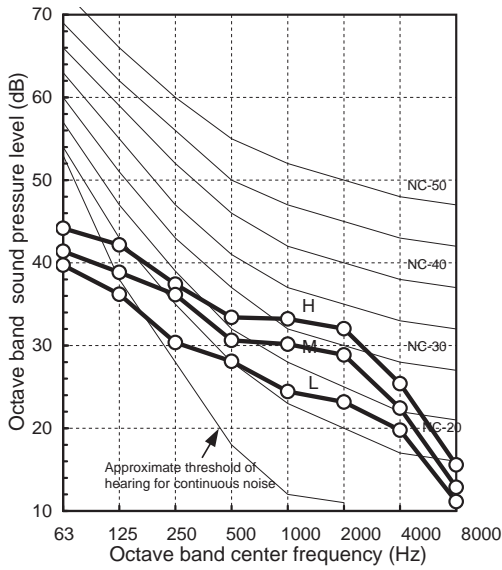
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	38	35	31



External static pressure 120Pa

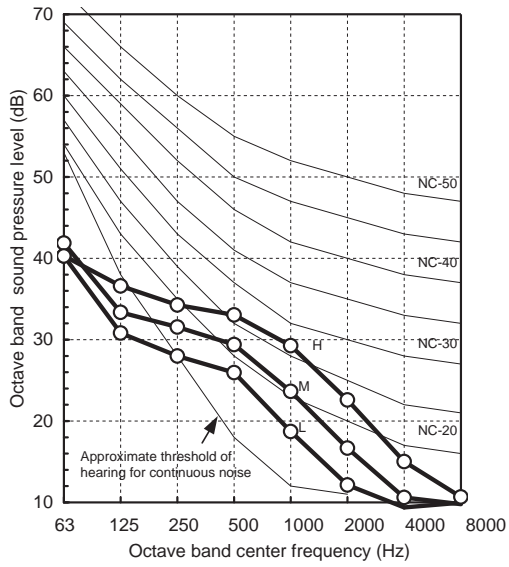
FAN tap	H	M	L
Sound pressure level (dB(A))	39	35	31



RAV-SM806BT-E

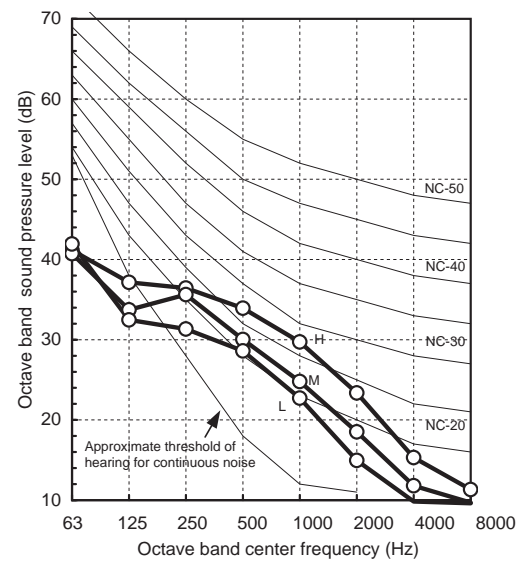
External static pressure 30Pa

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



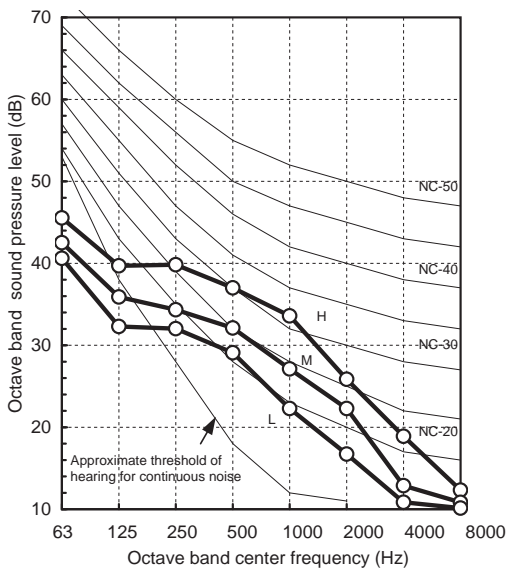
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	35	32	29



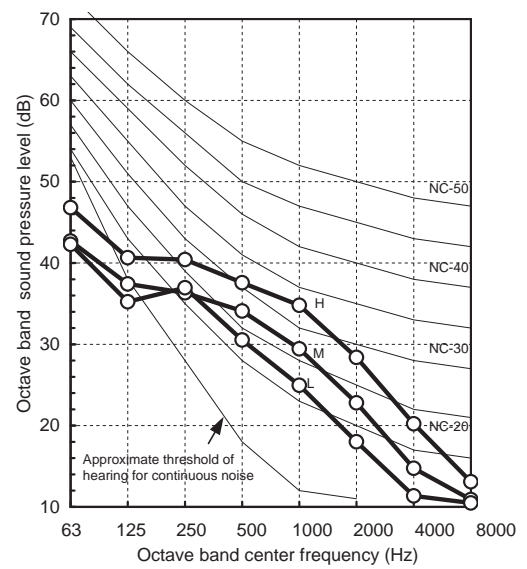
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	38	33	29



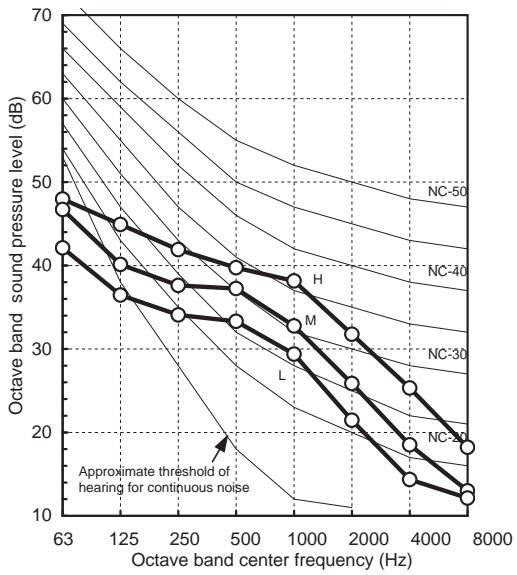
External static pressure 65Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	35	32



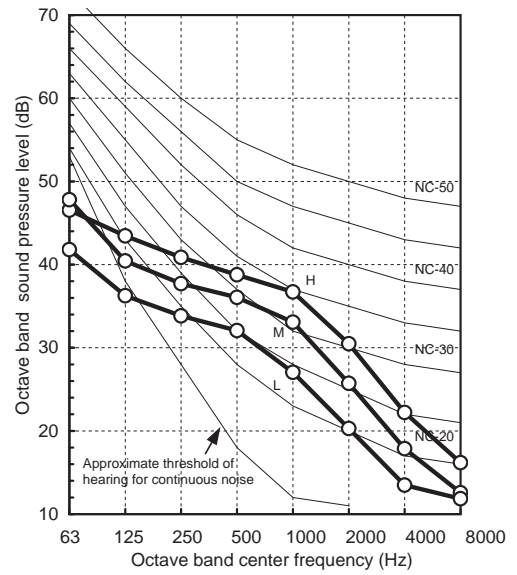
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	42	38	34



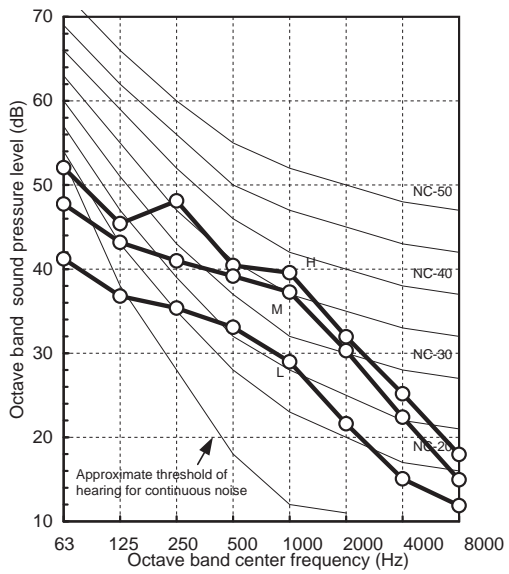
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	42	39	33



External static pressure 120Pa

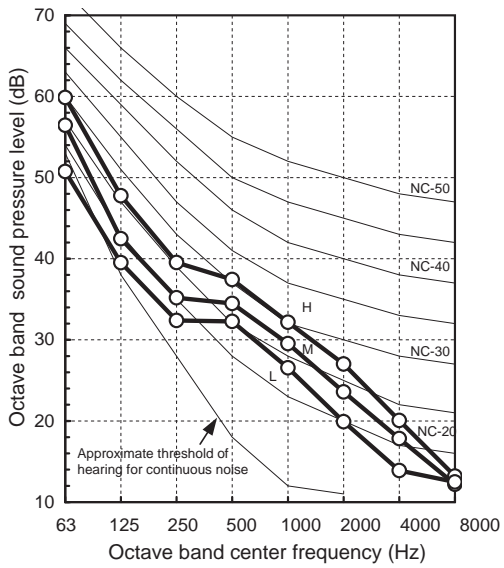
FAN tap	H	M	L
Sound pressure level (dB(A))	44	41	34



RAV-SM1106BT-E, RAV-SM1406BT-E

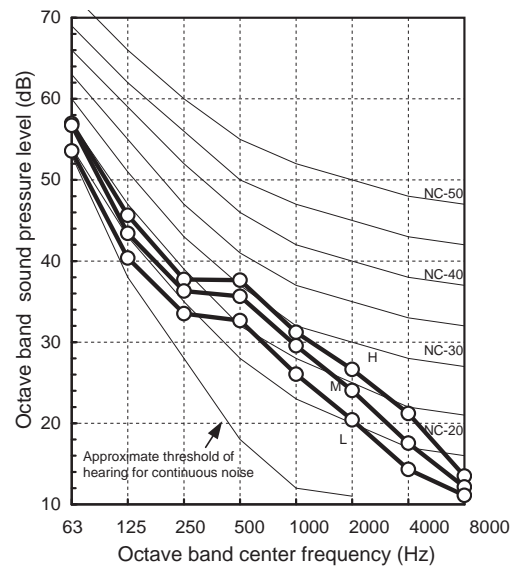
External static pressure 30Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	36	33



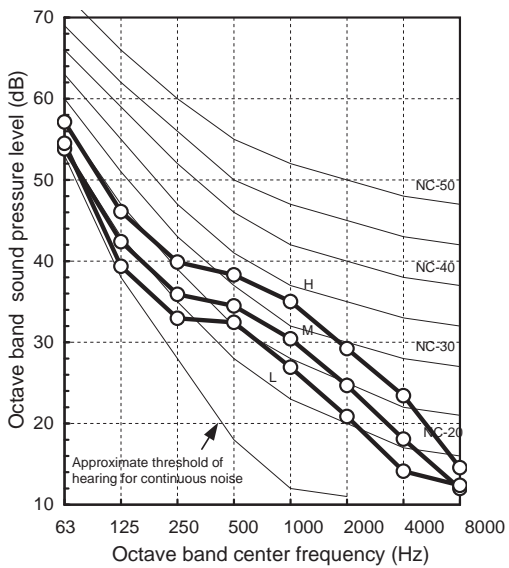
External static pressure 40Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	39	36	33



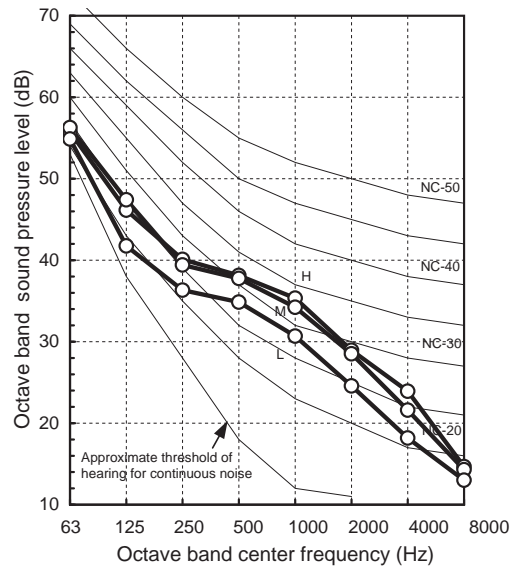
External static pressure 50Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	40	36	33



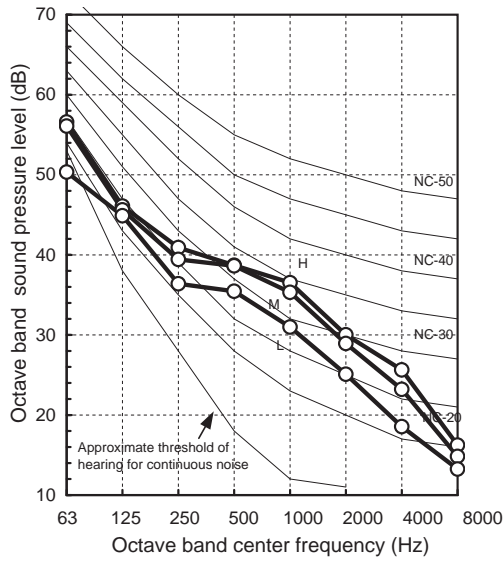
External static pressure 65Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	41	39	36



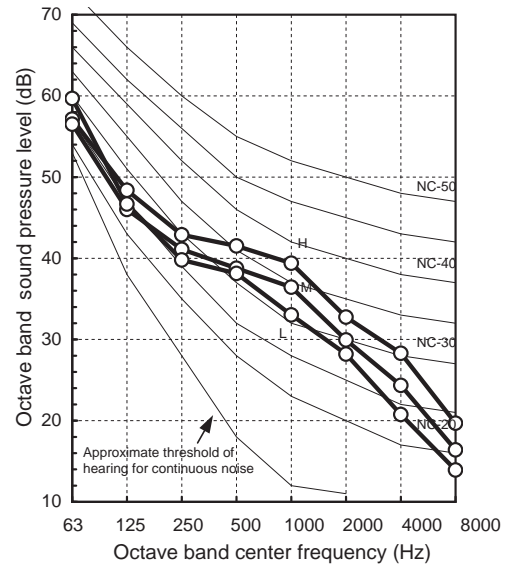
External static pressure 80Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	41	40	36



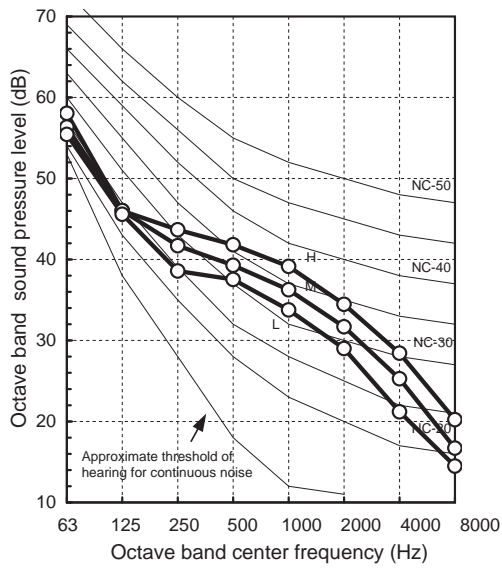
External static pressure 100Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	43	41	39



External static pressure 120Pa

FAN tap	H	M	L
Sound pressure level (dB(A))	44	42	39



High Wall (6 series) Type

1. Specifications
2. Dimension
3. Wiring diagrams
4. Sensible capacity table
5. Part load performance
6. Air throw distance chart
7. Sound characteristics (NC curve)

1. Specifications

<Single type>

Model	Indoor unit		RAV-SM	566KRT-E	806KRT-E
	Outdoor unit		RAV-SP	564AT-E	804AT-E
Cooling capacity			(kW)	5.0 (1.2 – 5.6)	7.1 (1.9 – 8.0)
Heating capacity			(kW)	5.6 (0.9 – 7.3)	8.0 (1.3 – 10.6)
Power supply				1 phase 230V (220V – 240V) 50Hz	
Electrical characteristics	Cooling	Running current	(A)	6.74 – 6.18	10.71 – 9.82
		Power consumption	(kW)	1.44	2.21
		Power factor	(%)	99	96
		EER		3.47	3.21
		Energy efficiency class *		A	A
	Heating	Running current	(A)	6.98 – 6.40	11.02 – 10.10
		Power consumption	(kW)	1.50	2.34
		Power factor	(%)	99	96
		COP		3.73	3.42
		Energy efficiency class *		A	B
Maximum current		(A)	13.4	20.4	
Appearance	Main unit			Pure white	
Outer dimension	Main unit	Height	(mm)	320	320
		Width	(mm)	1050	1050
		Depth	(mm)	228	228
Total weight	Main unit		(kg)	12	12
Fan unit	Fan			Cross flow fan	
	Standard air flow	H/M/L	(m ³ /min.)	14.0/12.5/11.0	17.0/12.5/11.0
	Motor		(W)	30	30
Controller				WH-L11SE	
Connecting pipe	Gas side		(mm)	12.7	15.9
	Liquid side		(mm)	6.4	9.5
	Drain port		(mm)	VP16	
Sound pressure level	H/M/L		(dB•A)	42/39/36	47/41/36
Sound power level	H/M/L		(dB•A)	57/54/51	62/56/51

* : IEC standard

*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

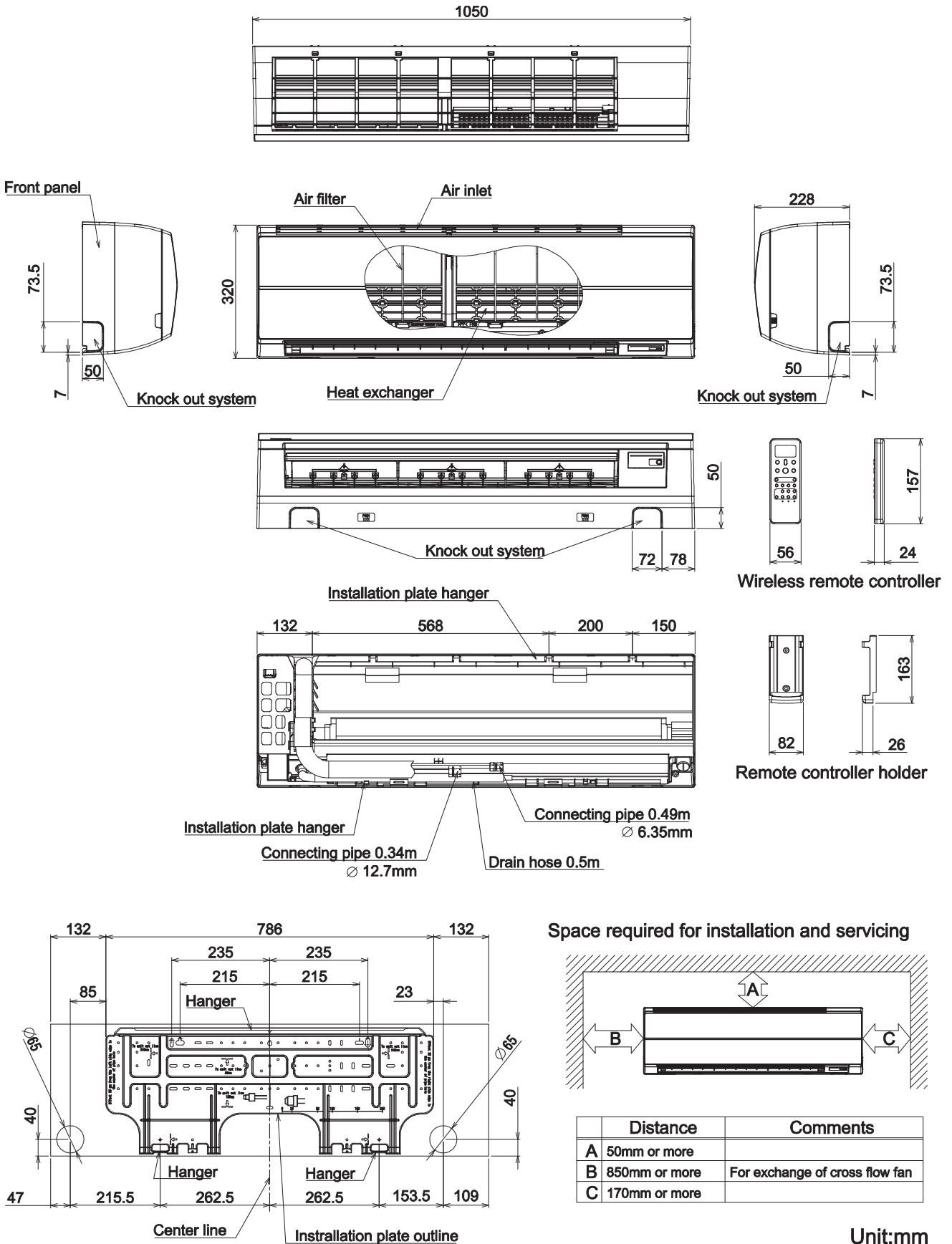
<Twin type>

Model	Indoor unit 1		RAV-SM	566KRT-E	806KRT-E
	Indoor unit 2		RAV-SM	566KRT-E	806KRT-E
	Outdoor unit		RAV-SP	1104AT-E	1404AT-E
Cooling capacity		(kW)		10.0 (2.6 – 12.0)	12.3 (2.6 – 13.5)
Heating capacity		(kW)		11.2 (2.4 – 13.0)	14.0 (2.4 – 16.5)
Indoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz		
Electrical characteristics	Cooling	Running current	(A)	12.98 – 11.90	18.00 – 16.50
		Power consumption	(kW)	2.77	3.88
		Power factor	(%)	97	98
		EER		3.61	3.17
		Energy efficiency class *		A	B
	Heating	Running current	(A)	13.12 – 12.03	17.76 – 16.28
		Power consumption	(kW)	2.80	3.83
		Power factor	(%)	97	98
		COP		4.00	3.66
		Energy efficiency class *		A	B
Maximum current		(A)	20.7	20.9	
Fan unit	Fan		Cross flow fan		
	Standard air flow	H/M/L (m ³ /min.)	14.0/12.5/11.0	17.0/12.5/11.0	
	Motor		(W)	30	30
Sound pressure level		H/M/L (dB•A)	42/39/36	47/41/36	
Sound power level		H/M/L (dB•A)	57/54/51	62/56/51	
Outdoor unit					
Power supply			1 phase 230V (220 – 240V) 50Hz (Power exclusive to outdoor is required.)		
Refrigerant pipe	Standard length		(m)	7.5	7.5
	Max. total length		(m)	50	50
	Refrigerant charging amount (Charge-less up to 30m)			40g/m (31m to 50m)	
	Height difference	Outdoor lower	(m)	30	30
		Outdoor higher	(m)	30	30
Fan unit	Fan		Propeller fan		
	Standard air flow		(m ³ /min.)	101	103
	Motor		(W)	100+100	100+100
Connecting pipe	Gas side	Main	(mm)	15.9	15.9
		Sub	(mm)	12.7	15.9
	Liquid side	Main	(mm)	9.5	9.5
		Sub	(mm)	6.4	9.5
Sound pressure level		Cooling/Heating (dB•A)	49/50	51/52	
Sound power level		Cooling/Heating (dB•A)	66/67	68/69	

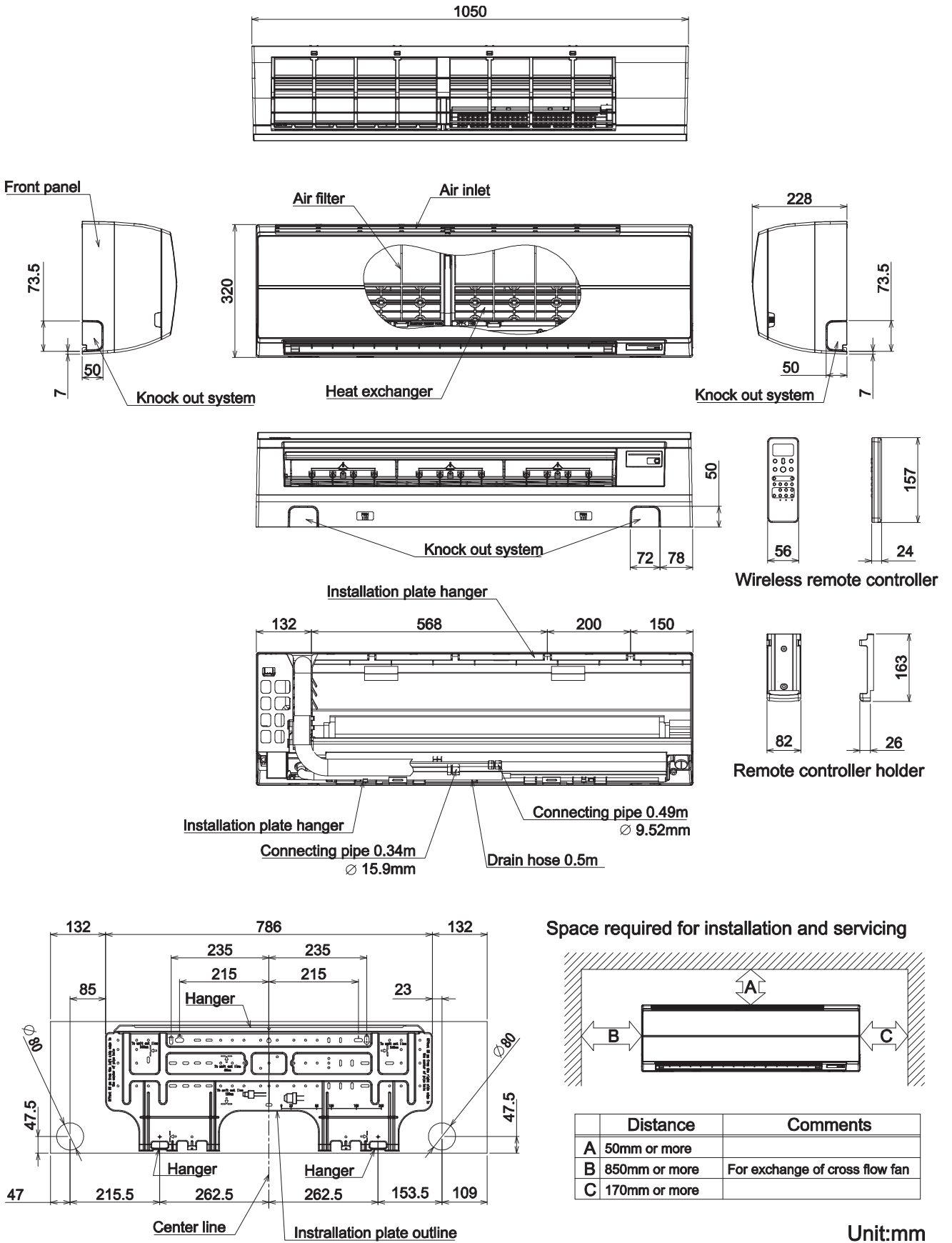
* : IEC standard

2. Dimension

RAV-SM566KRT-E

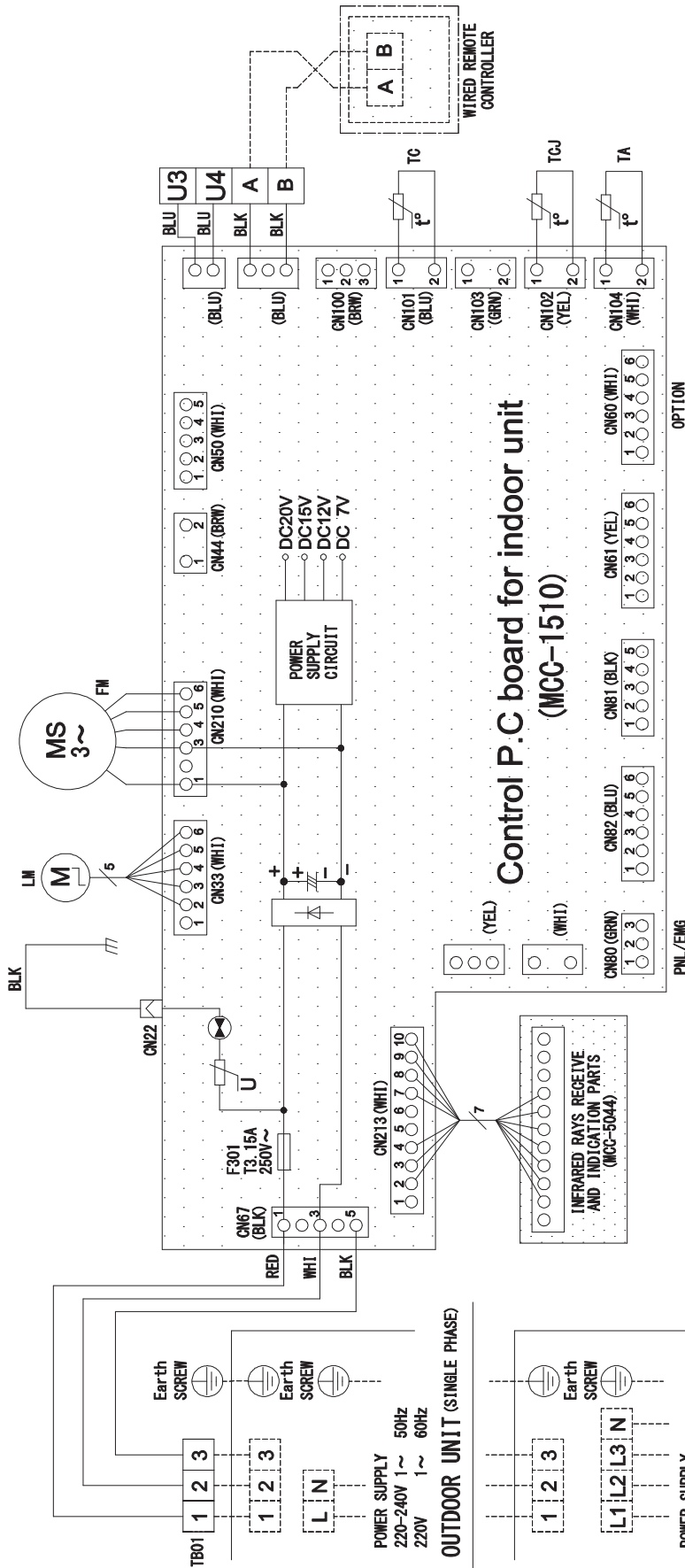


RAV-SM806KRT-E



3. Wiring diagrams

RAV-SM566KRT-E, RAV-SM806KRT-E



Control P.C board for indoor unit (MCC-1510)

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

COLOR IDENTIFICATION

RED	: RED
WHI	: WHITE
YEL	: YELLOW
BLU	: BLUE
BLK	: BLACK
GRY	: GRAY
PNK	: PINK
ORN	: ORANGE
BRW	: BROWN
GRN	: GREEN

Symbol	Parts Name
CN**	Connector
F301	Fuse
FM	Fan Motor
LM	Louver Motor
TA	Indoor temp sensor
TB01,02	Terminal Block
TC,TCJ	Temp sensor

4. Sensible capacity table

Super Digital Inverter 4 Series Sensible Heat Capacity : RAV-SM***KRT-E

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
566	10.0	4.7	3.4	4.9	3.6	5.2	3.7	5.4	3.9	5.6	4.0	5.7	4.1	5.9	4.2	6.2	4.5	6.5	4.7
	12.0	4.7	3.4	4.9	3.5	5.2	3.7	5.3	3.8	5.5	4.0	5.7	4.1	5.8	4.2	6.2	4.5	6.5	4.7
	14.0	4.6	3.3	4.9	3.5	5.1	3.7	5.3	3.8	5.5	3.9	5.6	4.1	5.8	4.2	6.1	4.4	6.4	4.6
	16.0	4.6	3.3	4.8	3.5	5.1	3.7	5.3	3.8	5.4	3.9	5.6	4.0	5.8	4.2	6.1	4.4	6.4	4.6
	18.0	4.6	3.3	4.8	3.5	5.0	3.6	5.2	3.8	5.4	3.9	5.6	4.0	5.7	4.1	6.1	4.4	6.3	4.6
	20.0	4.5	3.3	4.8	3.4	5.0	3.6	5.2	3.7	5.4	3.9	5.5	4.0	5.7	4.1	6.0	4.3	6.3	4.5
	21.0	4.5	3.2	4.7	3.4	5.0	3.6	5.2	3.7	5.3	3.8	5.5	4.0	5.6	4.1	6.0	4.3	6.3	4.5
	23.0	4.5	3.2	4.7	3.4	4.9	3.5	5.1	3.7	5.3	3.8	5.4	3.9	5.6	4.0	5.9	4.3	6.2	4.5
	25.0	4.4	3.2	4.6	3.3	4.9	3.5	5.0	3.6	5.2	3.8	5.4	3.9	5.5	4.0	5.9	4.2	6.1	4.4
	27.0	4.4	3.1	4.6	3.3	4.8	3.5	5.0	3.6	5.2	3.7	5.3	3.8	5.5	3.9	5.8	4.2	6.0	4.4
	29.0	4.3	3.1	4.5	3.3	4.8	3.4	4.9	3.5	5.1	3.7	5.2	3.8	5.4	3.9	5.7	4.1	6.0	4.3
	31.0	4.2	3.1	4.5	3.2	4.7	3.4	4.9	3.5	5.0	3.6	5.2	3.7	5.3	3.8	5.6	4.1	5.9	4.2
	33.0	4.2	3.0	4.4	3.2	4.6	3.3	4.8	3.4	4.9	3.6	5.1	3.7	5.2	3.8	5.5	4.0	5.8	4.2
	35.0	4.1	3.0	4.3	3.1	4.5	3.3	4.7	3.4	4.9	3.5	5.0	3.6	5.1	3.7	5.4	3.9	5.7	4.1
	37.0	4.0	2.9	4.2	3.1	4.4	3.2	4.6	3.3	4.8	3.4	4.9	3.5	5.0	3.6	5.3	3.8	5.6	4.0
	39.0	3.9	2.8	4.2	3.0	4.4	3.1	4.5	3.2	4.7	3.4	4.8	3.5	4.9	3.6	5.2	3.8	5.5	3.9

unit size	outdoor air temp. CDB	indoor air temp.																	
		14.0CWB 20.0CDB		15.0CWB 21.5CDB		16.0CWB 23.0CDB		17.0CWB 24.5CDB		18.0CWB 26.0CDB		19.0CWB 27.0CDB		20.0CWB 28.0CDB		22.0CWB 30.0CDB		24.0CWB 32.0CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
806	10.0	6.7	4.6	7.0	4.8	7.4	5.1	7.6	5.3	7.9	5.4	8.1	5.6	8.3	5.8	8.8	6.1	9.2	6.4
	12.0	6.6	4.6	7.0	4.8	7.3	5.0	7.6	5.2	7.8	5.4	8.1	5.6	8.3	5.7	8.8	6.1	9.2	6.3
	14.0	6.6	4.5	6.9	4.8	7.3	5.0	7.5	5.2	7.8	5.4	8.0	5.5	8.2	5.7	8.7	6.0	9.1	6.3
	16.0	6.5	4.5	6.9	4.7	7.2	5.0	7.5	5.2	7.7	5.3	8.0	5.5	8.2	5.6	8.7	6.0	9.1	6.3
	18.0	6.5	4.5	6.8	4.7	7.2	4.9	7.4	5.1	7.7	5.3	7.9	5.4	8.1	5.6	8.6	5.9	9.0	6.2
	20.0	6.4	4.4	6.8	4.7	7.1	4.9	7.4	5.1	7.6	5.3	7.8	5.4	8.1	5.6	8.5	5.9	8.9	6.2
	21.0	6.4	4.4	6.7	4.6	7.1	4.9	7.3	5.1	7.6	5.2	7.8	5.4	8.0	5.5	8.5	5.9	8.9	6.1
	23.0	6.3	4.4	6.7	4.6	7.0	4.8	7.2	5.0	7.5	5.2	7.7	5.3	7.9	5.5	8.4	5.8	8.8	6.1
	25.0	6.3	4.3	6.6	4.6	6.9	4.8	7.2	4.9	7.4	5.1	7.6	5.3	7.9	5.4	8.3	5.7	8.7	6.0
	27.0	6.2	4.3	6.5	4.5	6.8	4.7	7.1	4.9	7.3	5.1	7.5	5.2	7.8	5.4	8.2	5.7	8.6	5.9
	29.0	6.1	4.2	6.4	4.4	6.7	4.7	7.0	4.8	7.2	5.0	7.4	5.1	7.7	5.3	8.1	5.6	8.5	5.9
	31.0	6.0	4.2	6.3	4.4	6.7	4.6	6.9	4.8	7.1	4.9	7.3	5.1	7.5	5.2	8.0	5.5	8.4	5.8
	33.0	5.9	4.1	6.2	4.3	6.5	4.5	6.8	4.7	7.0	4.8	7.2	5.0	7.4	5.1	7.9	5.4	8.2	5.7
	35.0	5.8	4.0	6.1	4.2	6.4	4.4	6.7	4.6	6.9	4.8	7.1	4.9	7.3	5.0	7.7	5.3	8.1	5.6
	37.0	5.7	3.9	6.0	4.2	6.3	4.4	6.5	4.5	6.8	4.7	7.0	4.8	7.2	4.9	7.6	5.2	7.9	5.5
	39.0	5.6	3.9	5.9	4.1	6.2	4.3	6.4	4.4	6.6	4.6	6.8	4.7	7.0	4.8	7.4	5.1	7.8	5.4

TC: Total Capacity [kW]
 SHC: Sensible Heat Capacity [kW]

5. Part load performance

Combination

Indoor unit : RAV-SM566KRT-E

Outdoor unit : RAV-SP564AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1200	210	900	170
RATING	5000	1440	5600	1500

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4760	4280	3800	3330	2850	2380	1900	1430	1140	1140
	W	1550	1330	1130	940	780	620	480	350	230	230
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1200	1200
	W	1440	1236	1050	880	724	580	446	323	210	210
30	Q	5210	4680	4160	3640	3120	2600	2080	1560	1250	1250
	W	1330	1140	970	810	670	540	410	300	190	190
25	Q	5380	4840	4300	3760	3230	2690	2150	1610	1290	1290
	W	1230	1060	900	750	620	500	380	280	180	180
20	Q	5520	4960	4410	3860	3310	2760	2210	1650	1320	1320
	W	1140	980	830	700	580	460	350	260	170	170

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	7470	6730	5980	5230	4480	3740	2990	2240	1490	1200
	W	1750	1550	1350	1170	990	810	640	480	320	200
15	Q	6750	6080	5400	4730	4050	3380	2700	2030	1350	1090
	W	1650	1470	1280	1100	940	760	610	450	300	190
10	Q	6130	5520	4910	4290	3680	3070	2450	1840	1230	990
	W	1570	1390	1210	1050	890	720	570	430	280	180
7	Q	5600	5040	4480	3920	3360	2800	2240	1680	1120	900
	W	1500	1330	1160	1000	850	690	550	410	270	170
5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	840
	W	1450	1290	1120	970	820	670	530	400	260	160
2	Q	4680	4210	3750	3280	2810	2340	1870	1400	940	750
	W	1380	1230	1070	920	780	640	510	380	250	160
0	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1230	1090	950	820	700	570	450	340	220	140
-5	Q	3660	3290	2930	2560	2190	1830	1460	1100	730	590
	W	1230	1090	950	820	700	570	450	340	220	140
-7	Q	3440	3090	2750	2410	2060	1720	1380	1030	690	550
	W	1190	1060	920	790	670	550	440	330	210	130
-10	Q	3150	2830	2520	2200	1890	1570	1260	940	630	510
	W	1140	1010	880	760	650	530	420	310	210	130
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	530	430
	W	1080	950	830	720	610	500	390	290	190	120

Combination

Indoor unit : RAV-SM806KRT-E

Outdoor unit : RAV-SP804AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	1900	300	1300	270
RATING	7100	2210	8000	2340

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6750	6080	5400	4730	4050	3380	2700	2030	1810	1810
	W	2370	1970	1620	1320	1060	830	630	440	320	320
35	Q	7100	6390	5680	4970	4260	3550	2840	2130	1900	1900
	W	2210	1832	1507	1229	986	771	583	413	300	300
30	Q	7390	6650	5910	5170	4430	3700	2960	2220	1980	1980
	W	2040	1690	1390	1140	910	710	540	380	280	280
25	Q	7630	6870	6110	5340	4580	3820	3050	2290	2040	2040
	W	1890	1570	1290	1050	840	660	500	350	260	260
20	Q	7830	7050	6270	5480	4700	3920	3130	2350	2100	2100
	W	1760	1460	1200	980	780	610	460	330	240	240

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	10680	9610	8540	7470	6410	5340	4270	3200	2140	1740
	W	2730	2390	2090	1790	1490	1210	960	700	460	320
15	Q	9650	8680	7720	6750	5790	4820	3860	2890	1930	1570
	W	2580	2260	1970	1690	1410	1150	900	660	430	300
10	Q	8760	7880	7010	6130	5260	4380	3500	2630	1750	1420
	W	2450	2140	1870	1600	1340	1090	860	630	410	280
7	Q	8000	7200	6400	5600	4800	4000	3200	2400	1600	1300
	W	2340	2050	1790	1530	1280	1040	820	600	390	270
5	Q	7460	6720	5970	5220	4480	3730	2990	2240	1490	1210
	W	2270	1990	1730	1480	1240	1010	790	580	380	260
2	Q	6690	6020	5350	4680	4010	3340	2680	2010	1340	1090
	W	2160	1890	1650	1410	1180	960	760	550	360	250
0	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1920	1680	1470	1250	1050	850	670	490	320	220
-5	Q	5220	4700	4180	3660	3130	2610	2090	1570	1040	850
	W	1920	1680	1470	1250	1050	850	670	490	320	220
-7	Q	4910	4420	3930	3440	2950	2460	1960	1470	980	800
	W	1860	1630	1420	1210	1020	830	650	480	310	210
-10	Q	4500	4050	3600	3150	2700	2250	1800	1350	900	730
	W	1780	1560	1360	1160	970	790	620	460	300	210
-15	Q	3790	3410	3030	2650	2280	1900	1520	1140	760	620
	W	1680	1470	1280	1100	920	750	590	430	280	190

Combination

Indoor unit : RAV-SM566KRT-E (Twin)

Outdoor unit : RAV-SP1104AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	10000	2770	11200	2800

Q: Capacity in W
W: Power Consumption in W

Cooling

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9510	8560	7610	6660	5710	4760	3800	2850	2470	2470
	W	2970	2460	2030	1650	1330	1040	780	560	690	690
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	2600	2600
	W	2770	2296	1889	1540	1235	967	731	518	640	640
30	Q	10410	9370	8330	7290	6250	5210	4160	3120	2710	2710
	W	2560	2120	1750	1420	1140	890	680	480	590	590
25	Q	10750	9680	8600	7530	6450	5380	4300	3230	2800	2800
	W	2370	1970	1620	1320	1060	830	630	440	550	550
20	Q	11030	9930	8820	7720	6620	5520	4410	3310	2870	2870
	W	2200	1830	1500	1220	980	770	580	410	510	510

Heating

Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	14950	13450	11960	10460	8970	7470	5980	4480	3200	3200
	W	3270	2870	2500	2140	1790	1460	1140	840	610	610
15	Q	13510	12160	10810	9450	8100	6750	5400	4050	2890	2890
	W	3090	2710	2360	2020	1690	1380	1080	790	570	570
10	Q	12260	11040	9810	8580	7360	6130	4910	3680	2630	2630
	W	2930	2570	2240	1910	1600	1310	1020	750	540	540
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	2400	2400
	W	2800	2460	2140	1830	1530	1250	980	720	520	520
5	Q	10450	9400	8360	7310	6270	5220	4180	3130	2240	2240
	W	2710	2380	2070	1770	1480	1210	950	700	500	500
2	Q	9360	8430	7490	6550	5620	4680	3750	2810	2010	2010
	W	2580	2270	1970	1690	1410	1150	900	660	480	480
0	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	2290	2010	1750	1500	1250	1020	800	590	430	430
-5	Q	7310	6580	5850	5120	4390	3660	2930	2190	1570	1570
	W	2290	2010	1750	1500	1250	1020	800	590	430	430
-7	Q	6880	6190	5500	4810	4130	3440	2750	2060	1470	1470
	W	2220	1950	1700	1450	1210	990	780	570	410	410
-10	Q	6300	5670	5040	4410	3780	3150	2520	1890	1350	1350
	W	2130	1870	1630	1390	1160	950	750	550	400	400
-15	Q	5310	4780	4250	3720	3190	2650	2120	1590	1140	1140
	W	2010	1770	1540	1310	1100	900	700	520	370	370

Combination

Indoor unit : RAV-SM806KRT-E (Twin)

Outdoor unit : RAV-SP1404AT-E

	Cooling		Heating	
	Capacity Q (W)	Power consumption W (W)	Capacity Q (W)	Power consumption W (W)
MINIMUM	2600	640	2400	520
RATING	12300	3880	14000	3830

Q: Capacity in W
W: Power Consumption in W

Cooling

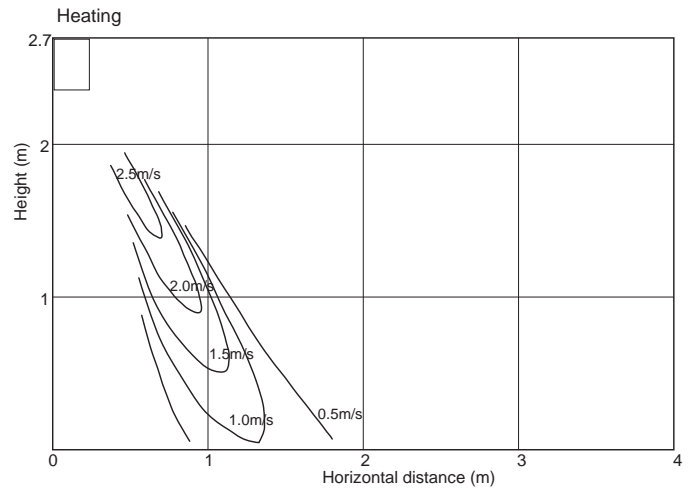
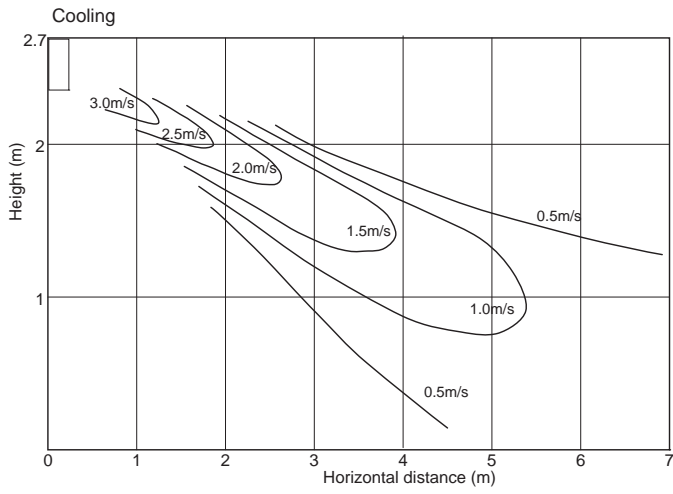
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11700	10530	9360	8190	7020	5850	4680	3510	2470	2470
	W	4160	3450	2840	2310	1860	1450	1100	780	690	690
35	Q	12300	11070	9840	8610	7380	6150	4920	3690	2600	2600
	W	3880	3217	2646	2157	1730	1354	1024	726	640	640
30	Q	12800	11520	10240	8960	7680	6400	5120	3840	2710	2710
	W	3590	2970	2450	1990	1600	1250	950	670	590	590
25	Q	13220	11900	10580	9260	7930	6610	5290	3970	2800	2800
	W	3330	2760	2270	1850	1480	1160	880	620	550	550
20	Q	13570	12210	10850	9500	8140	6780	5430	4070	2870	2870
	W	3080	2560	2100	1720	1380	1080	810	580	510	510

Heating

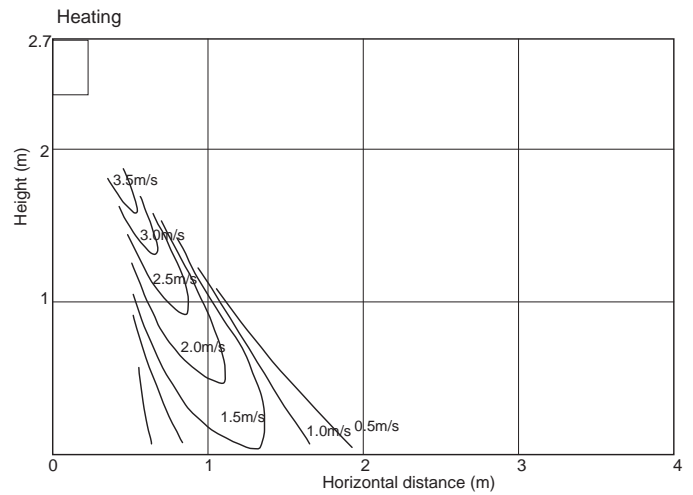
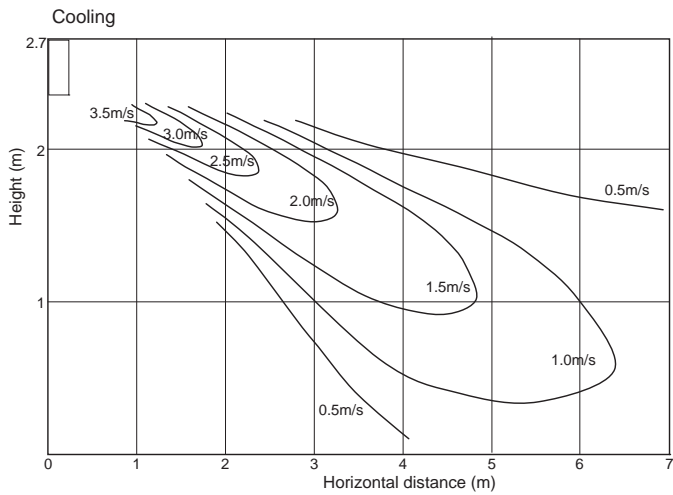
Outdoor temperature (°C)		Load (%)									
		100	90	80	70	60	50	40	30	20	10
20	Q	18690	16820	14950	13080	11210	9340	7470	5610	3740	3200
	W	4470	3920	3410	2920	2440	1980	1560	1140	750	610
15	Q	16880	15190	13510	11820	10130	8440	6750	5060	3380	2890
	W	4220	3710	3220	2760	2300	1870	1480	1080	710	570
10	Q	15330	13800	12260	10730	9200	7670	6130	4600	3070	2630
	W	4000	3510	3050	2610	2180	1780	1400	1020	670	540
7	Q	14000	12600	11200	9800	8400	7000	5600	4200	2800	2400
	W	3830	3360	2920	2500	2090	1700	1340	980	640	520
5	Q	13060	11760	10450	9140	7840	6530	5220	3920	2610	2240
	W	3710	3260	2830	2420	2030	1650	1300	950	620	500
2	Q	11700	10530	9360	8190	7020	5850	4680	3510	2340	2010
	W	3530	3100	2690	2310	1930	1570	1240	900	590	480
0	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	3140	2750	2390	2050	1710	1390	1100	800	520	430
-5	Q	9140	8230	7310	6400	5490	4570	3660	2740	1830	1570
	W	3140	2750	2390	2050	1710	1390	1100	800	520	430
-7	Q	8600	7740	6880	6020	5160	4300	3440	2580	1720	1470
	W	3040	2670	2320	1990	1660	1350	1060	780	510	410
-10	Q	7870	7090	6300	5510	4720	3940	3150	2360	1570	1350
	W	2910	2560	2220	1900	1590	1290	1020	750	490	400
-15	Q	6640	5970	5310	4650	3980	3320	2650	1990	1330	1140
	W	2750	2410	2100	1790	1500	1220	960	700	460	370

6. Air throw distance chart

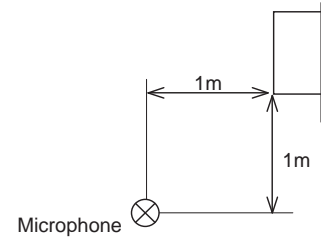
RAV-SM566KRT-E



RAV-SM806KRT-E

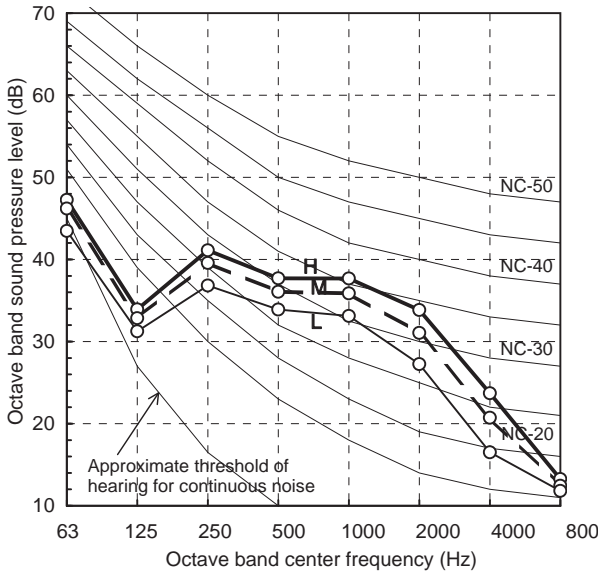


7. Sound characteristics (NC curve)



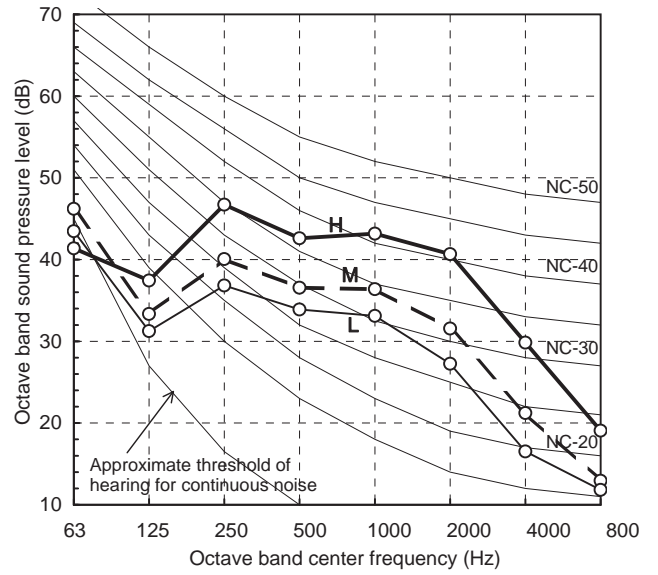
RAV-SM566KRT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	42	39	36



RAV-SM806KRT-E

Fan tap	H	M	L
Sound pressure level (dB(A))	47	41	36



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