

Digital Inverter Light Commercial Floor Standing

Indoor Unit

RAV-HM561FT-EN / ES / TR

RAV-HM801FT-EN / ES / TR

RAV-HM1101FT-EN / ES / TR

RAV-HM1401FT-EN / ES / TR

Outdoor Unit

RAV-GM561ATP(ATJP)-E / TR

RAV-GM801ATP(ATJP)-E / TR

RAV-GM1101ATP(ATJP)-E / TR

RAV-GM1401ATP(ATJP)-E / TR

RAV-GM1101AT8P(AT8JP)-E / TR

RAV-GM1401AT8P(AT8JP)-E / TR

RAV-SM564ATP(ATJP)-E / TR

RAV-SM804ATP(ATJP)-E / TR

RAV-SM1104ATP(ATJP)-E / TR

RAV-SM1404ATP(ATJP)-E / TR

RAV-SM1104AT8P(AT8JP)-E / TR

RAV-SM1404AT8P(AT8JP)-E / TR

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1. Line-up

Indoor unit

Capacity Type		**	56	80	110	140
(HP equivalent)			2.0	3.0	4.0	5.0
Floor standing type		RAV-HM**1FT-EN RAV-HM**1FT-ES RAV-HM**1FT-TR	56	80	110	140

Outdoor unit

Model name	RAV-GM561ATP-E RAV-GM801ATP-E RAV-GM1101ATP-E RAV-GM1401ATP-E RAV-GM1101AT8P-E RAV-GM1401AT8P-E	RAV-GM561ATJP-E RAV-GM801ATJP-E RAV-GM1101ATJP-E RAV-GM1401ATJP-E RAV-GM1101AT8JP-E RAV-GM1401AT8JP-E	RAV-GM561ATP-TR RAV-GM801ATP-TR RAV-GM1101ATP-TR RAV-GM1401ATP-TR RAV-GM1101AT8P-TR RAV-GM1401AT8P-TR
Appearance	 2 and 3 HP  4 and 5 HP		

Twin line-up

Indoor Unit	Model name	Unit	HP equivalent	Capacity Type		Outdoor unit
				56	80	
Floor standing	RAV-HM561FT-EN / ES / TR	2	2.0	56	-	RAV-GM1101AT(J)P-E/TP RAV-GM1101AT8(J)P-E/TP
	RAV-HM801FT-EN / ES / TR	2	3.0	-	80	RAV-GM1401AT(J)P-E/TP RAV-GM1401AT8(J)P-E/TP

2. Indoor Unit

Floor Standing Type

- 2-1. Specifications
- 2-2. Dimension
- 2-3. Wiring diagrams
- 2-4. Refrigerant cycle diagram
- 2-5. Sensible capacity table
- 2-6. Part load performance
- 2-7. Air throw distance chart
- 2-8. Sound data

2-1. Specifications

(Floor Standing type)

Model name		Indoor Unit		RAV-HM561FT-EN / ES / TR		RAV-HM801FT-EN / ES / TR		RAV-HM1101FT-EN / ES / TR		RAV-HM1401FT-EN / ES / TR	
		Outdoor Unit		RAV-GM561AT(J)P-E / TR		RAV-GM801AT(J)P-E / TR		RAV-GM1101AT(J)P-E / TR		RAV-GM1401AT(J)P-E / TR	
Cooling capacity (Rated (Min.-Max.))			kW	5.0 <1.5- 5.6 >		6.7 <1.5- 7.4 >		9.5 <3.0- 11.2 >		12.1 <3.0- 13.2 >	
Heating capacity (Rated (Min.-Max.))			kW	5.3 <1.5- 6.3 >		7.7 <1.5- 9.0 >		11.2 <3.0- 13.0 >		13.0 <3.0- 16.0 >	
Power supply				1-50-230 (220-240)		1-50-230 (220-240)		1-50-230 (220-240)		1-50-230 (220-240)	
Electrical characteristics	Cooling	Running current	A	8.39 - 7.69		14.90 - 13.66		14.80 - 13.56		22.10 - 20.66	
		Power consumption	kW	1.79 (0.30-2.34)		3.18 (0.31-3.31)		3.06 (0.60-4.30)		4.71 (0.60-4.83)	
		Power factor	%	97		97		94		95	
		EER		2.79		2.11		3.10		2.57	
	SEER		5.15		4.89		5.16		4.86		
	Heating	Running current	A	8.06 - 7.39		15.00 - 13.75		15.43 - 14.14		19.19 - 17.59	
		Power consumption	kW	1.72 (0.30-2.47)		3.20 (0.31-3.45)		3.19 (0.60-4.50)		4.01 (0.60-4.80)	
		Power factor	%	97		97		94		95	
		COP		3.08		2.41		3.51		3.24	
		SCOP		4.00		3.81		3.92		3.90	
Maximum current				12.4		14.4		22.1		22.1	
Indoor Unit											
Model name				RAV-HM561FT*		RAV-HM801FT*		RAV-HM1101FT*		RAV-HM1401FT*	
Appearance	Main Unit Zinc hot dipping steel plate										
Outer dimension	DIMENSION	H	mm	1750		1750		1750		1750	
		W	mm	600		600		600		600	
		D	mm	210		210		390		390	
Weight			kg	44		45		59		59	
Heat exchanger				Finned tube		Finned tube		Finned tube		Finned tube	
Fan unit	Fan			Centrifugal fan		Centrifugal fan		Centrifugal fan		Centrifugal fan	
	Standard air flow (M+ / M / L+ / L)		m³/h	820(760/700/640/600)		930(830/770/700/640)		1660(1550/1420/1300/1190)		1760(1630/1480/1370/1350)	
	Motor		W	62		62		109		109	
Sound pressure level High (M+ / M / L+ / L)			dB(A)	46(44/42/40/38)		50(47/45/43/41)		51(49/46/44/41)		53(51/48/46/45)	
Sound power level High (M+ / M / L+ / L)			dB(A)	60(58/56/54/52)		64(61/60/57/54)		65(63/61/58/55)		67(65/62/60/59)	
Outdoor Unit											
Model name				RAV-GM561ATP*		RAV-GM801ATP*		RAV-GM1101ATP*		RAV-GM1401ATP*	
dimension		H	mm	550		550		890		890	
		W	mm	780		780		900		900	
		D	mm	290		290		320		320	
Weight			kg	40		43		68		68	
compressor type				DC Twin Rotary		DC Twin Rotary		DC Twin Rotary		DC Twin Rotary	
Fan moter output			W	43		43		100		100	
Air flow			m3/h	2400		2700		4080		4200	
Refrigerant Quantity in Outdoor unit			kg	0.90		1.30		2.10		2.10	
Additional refrigerant charge			g/m	20		40		40		40	
Pipe connections		pipe length	m	7.5		7.5		7.5		7.5	
		Min. Length	m	5		5		5		5	
		Max. Length	m	30		30		50		50	
		Max. height difference	m	30		30		30		30	
		Chargeless	m	20		20		30		30	
Flare connection		Main pipe	m	12.7/6.4		15.9/9.5		15.9/9.5		15.9/9.5	
		Branch pipe	m	-/-		-/-		-/-		-/-	
Sound pressure level		Cooling/Heating	dB(A)	46 / 48		48 / 52		54 / 57		55 / 57	
Sound power level		Cooling/Heating	dB(A)	63 / 65		65 / 69		70 / 74		70 / 74	
Enegy label		Cooling/Heating		A / A+		B / A		A / A		-	
Operation Range		Cooling	℃	-15 to 46		-15 to 46		-15 to 46		-15 to 46	
		Heating	℃	-15 to 15		-15 to 15		-15 to 15		-15 to 15	

1 : The Cooling capacity and electrical characteristics are measured under the conditions specified by JIS B 8615-1 based on the reference piping.
The reference piping consists of 5m of main piping and 2.5m 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.

3 : Height from the ceiling. Depth doesn't include the electric parts box.

Notes ;

Rated conditions Cooling : Indoor air temperature 27°CDB/ 19 °CWB, Outdoor air temperature 35°CDB
Heating : Indoor air temperature 20°CDB, Outdoor air temperature 7°CDB/ 6 °CWB

(Floor Standing type)

Model name	Indoor Unit			RAV-HM561FT-EN / ES / TR			RAV-HM801FT-EN / ES / TR			
				RAV-HM561FT-EN / ES / TR			RAV-HM801FT-EN / ES / TR			
	Outdoor Unit			RAV-GM1101AT(J)P-E / TR			RAV-GM1401AT(J)P-E / TR			
Cooling capacity (Rated (Min.-Max.))				kW	9.5 <3.0- 11.2 >			12.1 <3.0- 13.2 >		
Heating capacity (Rated (Min.-Max.))				kW	11.2 <3.0- 13.0 >			13.0 <3.0- 16.0 >		
Power supply				1-50-230(220-240)			1-50-230(220-240)			
Electrical characteristics	Cooling	Running current	A	14.80 - 13.56			22.10 - 20.66			
		Power consumption	kW	3.06 (0.60-4.30)			4.71 (0.60-4.83)			
		Power factor	%	94			95			
		EER		3.10			2.57			
		SEER		5.16			4.86			
	Heating	Running current	A	15.43 - 14.14			19.19 - 17.59			
		Power consumption	kW	3.19 (0.60-4.50)			4.01 (0.60-4.80)			
		Power factor	%	94			95			
		COP		3.51			3.24			
		SCOP		3.92			3.90			
		Maximum current		22.1			22.1			
Indoor Unit										
Model name				RAV-HM561FT*			RAV-HM801FT*			
Appearance	Main Unit			Zinc hot dipping steel plate						
Outer dimension	DIMENSION	H	mm	1750			1750			
		W	mm	600			600			
		D	mm	210			210			
Weight			kg	44			45			
Heat exchanger				Finned tube			Finned tube			
Fan unit	Fan			Centrifugal fan			Centrifugal fan			
	Standard air flow (M+ / M / L+ / L)		m³/h	820(760/700/640/600)			930(830/770/700/640)			
	Motor		W	62			62			
Sound pressure level	High (M+ / M / L+ / L)		dB(A)	46(44/42/40/38)			50(47/45/43/41)			
Sound power level	High (M+ / M / L+ / L)		dB(A)	60(58/56/54/52)			64(61/60/57/54)			
Outdoor Unit										
Model name				RAV-GM1101ATP*			RAV-GM1401ATP*			
dimension		H	mm	890			890			
		W	mm	900			900			
		D	mm	320			320			
Weight			kg	68			68			
compressor type				DC Twin Rotary			DC Twin Rotary			
Fan moter output			W	100			100			
Air flow			m3/h	4080			4200			
Refrigerant Quantity in Outdoor unit			kg	2.10			2.10			
Additional refrigetant charge			g/m	40			40			
Pipe connections		pipe rength	m	7.5			7.5			
		Min. Length	m	5			5			
		Max. Length	m	50			50			
		Max. height difference	m	30			30			
		Chargeless	m	30			30			
Flare connection		Main pipe	m	15.9/9.5			15.9/9.5			
		Branch pipe	m	12.7/6.4			15.9/9.5			
Sound pressure level	Cooling/Heating	dB(A)	54 / 57			55 / 57				
Sound power level	Cooling/Heating	dB(A)	70 / 74			70 / 74				
Enegy label	Cooling/Heating			A / A			-			
Operation Range	Cooling	℃	-15 to 46			-15 to 46				
	Heating	℃	-15 to 15			-15 to 15				

1 : The Cooling capacity and electrical characteristics are measured under the conditions specified by JIS B 8615-1 based on the reference piping.
The reference piping consists of 5m of main piping and 2.5m 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.

3 : Height from the ceiling. Depth doesn't include the electric parts box.

Notes ;

Rated conditions Cooling : Indoor air temperature 27°CDB/ 19 °CWB, Outdoor air temperature 35°CDB
Heating : Indoor air temperature 20°CDB, Outdoor air temperature 7°CDB/ 6 °CWB

(Floor Standing type)

Model name		Indoor Unit		RAV-HM1101FT-EN / ES / TR		RAV-HM1401FT-EN / ES / TR			
		Outdoor Unit		RAV-GM1101AT8P-E / TR		RAV-GM1401AT8P-E / TR			
Cooling capacity (Rated (Min.-Max.))			kW	9.5 <3.0- 11.2 >		12.1 <3.0- 13.2 >			
Heating capacity (Rated (Min.-Max.))			kW	11.2 <3.0- 13.0 >		13.0 <3.0- 16.0 >			
Power supply				3N-50-380/415		3N-50-380/415			
Electrical characteristics	Cooling	Running current	A	5.74	-	5.26	8.23	-	7.53
		Power consumption	kW	3.06 (0.60-4.30)			4.71 (0.60-4.83)		
		Power factor	%	81			87		
		EER		3.10			2.57		
	Heating	Running current	A	5.98	-	5.48	7.00	-	6.41
		Power consumption	kW	3.19 (0.60-4.50)			4.01 (0.60-4.80)		
		Power factor	%	81			87		
		COP		3.51			3.24		
	Maximum current			14.1			14.1		
Indoor Unit									
Model name				RAV-HM1101FT*			RAV-HM1401FT*		
Appearance	Main Unit Zinc hot dipping steel plate								
Outer dimension	DIMENSION	H	mm	1750			1750		
		W	mm	600			600		
		D	mm	390			390		
Weight			kg	59			59		
Heat exchanger				Finned tube			Finned tube		
Fan unit	Fan			Centrifugal fan			Centrifugal fan		
	Standard air flow (M+ / M / L+ / L)		m³/h	1660(1550/1420/1300/1190)			1760(1630/1480/1370/1350)		
	Motor		W	109			109		
Sound pressure level	High (M+ / M / L+ / L)		dB(A)	51(49/46/44/41)			53(51/48/46/45)		
Sound power level	High (M+ / M / L+ / L)		dB(A)	65(63/61/58/55)			67(65/62/60/59)		
Outdoor Unit									
Model name				RAV-GM1101AT8P*			RAV-GM1401AT8P*		
dimension		H	mm	890			890		
		W	mm	900			900		
		D	mm	320			320		
Weight			kg	68			68		
compressor type				DC Twin Rotary			DC Twin Rotary		
Fan moter output			W	100			100		
Air flow			m3/h	4080			4200		
Refrigerant Quantity in Outdoor unit			kg	2.10			2.10		
Additional refrigetant charge			g/m	40			40		
Pipe connections		pipe length	m	7.5			7.5		
		Min. Length	m	5			5		
		Max. Length	m	50			50		
		Max. height difference	m	30			30		
		Chargeless	m	30			30		
Flare connection		Main pipe	m	15.9/9.5			15.9/9.5		
		Branch pipe	m	-/-			-/-		
Sound pressure level		Cooling/Heating	dB(A)	54	/	57	55	/	57
Sound power level		Cooling/Heating	dB(A)	70	/	74	70	/	74
Operation Range		Cooling	℃	-15 to 46			-15 to 46		
		Heating	℃	-15 to 15			-15 to 15		

1: The Cooling capacity and electrical characteristics are measured under the conditions specified by JIS B 8615-1 based on the reference piping.
The reference piping consists of 5m of main piping and 2.5m 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.

3: Height from the ceiling. Depth doesn't include the electric parts box.

Notes ;

Rated conditions Cooling : Indoor air temperature 27°CDB/ 19 °CWB, Outdoor air temperature 35°CDB
Heating : Indoor air temperature 20°CDB, Outdoor air temperature 7°CDB/ 6 °CWB

(Floor Standing type)

Model name		Indoor Unit		RAV-HM561FT-EN / ES / TR		RAV-HM801FT-EN / ES / TR			
				RAV-HM561FT-EN / ES / TR		RAV-HM801FT-EN / ES / TR			
		Outdoor Unit		RAV-GM1101AT8P-E / TR		RAV-GM1401AT8P-E / TR			
Cooling capacity (Rated (Min.-Max.))			kW	9.5 <3.0- 11.2 >		12.1 <3.0- 13.2 >			
Heating capacity (Rated (Min.-Max.))			kW	11.2 <3.0- 13.0 >		13.0 <3.0- 16.0 >			
Power supply				3N-50-380/415		3N-50-380/415			
Electrical characteristics	Cooling	Running current	A	5.74	-	5.26	8.23	-	7.53
		Power consumption	kW	3.06 (0.60-4.30)			4.71 (0.60-4.83)		
		Power factor	%	81			87		
		EER	3.10			2.57			
	Heating	Running current	A	5.98	-	5.48	7.00	-	6.41
		Power consumption	kW	3.19 (0.60-4.50)			4.01 (0.60-4.80)		
		Power factor	%	81			87		
		COP	3.51			3.24			
	Maximum current			14.1			14.1		
Indoor Unit									
Model name				RAV-HM561FT*			RAV-HM801FT*		
Appearance	Main Unit Zinc hot dipping steel plate								
Outer dimension	DIMENSION	H	mm	1750			1750		
		W	mm	600			600		
		D	mm	210			210		
Weight			kg	44			45		
Heat exchanger				Finned tube			Finned tube		
Fan unit	Fan			Centrifugal fan			Centrifugal fan		
	Standard air flow (M+ / M / L+ / L)		m³/h	820(760/700/640/600)			930(830/770/700/640)		
	Motor		W	62			62		
Sound pressure level High (M+ / M / L+ / L)			dB(A)	46(44/42/40/38)			50(47/45/43/41)		
Sound power level High (M+ / M / L+ / L)			dB(A)	60(58/56/54/52)			64(61/60/57/54)		
Outdoor Unit									
Model name				RAV-GM1101AT8P*			RAV-GM1401AT8P*		
dimension		H	mm	890			890		
		W	mm	900			900		
		D	mm	320			320		
Weight			kg	68			68		
compressor type				DC Twin Rotary			DC Twin Rotary		
Fan moter output			W	100			100		
Air flow			m3/h	4080			4200		
Refrigerant Quantity in Outdoor unit			kg	2.10			2.10		
Additional refrigetant charge			g/m	40			40		
Pipe connections		pipe rength	m	7.5			7.5		
		Min. Length	m	5			5		
		Max. Length	m	50			50		
		Max. height difference	m	30			30		
		Chargeless	m	30			30		
Flare connection		Main pipe	m	15.9/9.5			15.9/9.5		
		Branch pipe	m	12.7/6.4			15.9/9.5		
Sound pressure level		Cooling/Heating	dB(A)	54	/	57	55	/	57
Sound power level		Cooling/Heating	dB(A)	70	/	74	70	/	74
Operation Range		Cooling	℃	-15 to 46			-15 to 46		
		Heating	℃	-15 to 15			-15 to 15		

1 : The Cooling capacity and electrical characteristics are measured under the conditions specified by JIS B 8615-1 based on the reference piping.
The reference piping consists of 5m of main piping and 2.5m 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.

3 : Height from the ceiling. Depth doesn't include the electric parts box.

Notes :

Rated conditions Cooling : Indoor air temperature 27°CDB/ 19 °CWB, Outdoor air temperature 35°CDB
Heating : Indoor air temperature 20°CDB, Outdoor air temperature 7°CDB/ 6 °CWB

(Floor Standing type)

Model name		Indoor Unit		RAV-HM561FT-EN / ES / TR		RAV-HM801FT-EN / ES / TR		RAV-HM1101FT-EN / ES / TR		RAV-HM1401FT-EN / ES / TR	
		Outdoor Unit		RAV-SM564AT(J)P-E / TR		RAV-SM804AT(J)P-E / TR		RAV-SM1104AT(J)P-E / TR		RAV-SM1404AT(J)P-E / TR	
Cooling capacity (Rated (Min.-Max.))			kW	5.0 <1.5- 5.6 >		6.7 <1.5- 7.4 >		10.0 <3.0- 11.2 >		12.1 <3.0- 13.2 >	
Heating capacity (Rated (Min.-Max.))			kW	5.3 <1.5- 6.3 >		7.7 <1.5- 9.0 >		11.2 <3.0- 12.5 >		12.8 <3.0- 16.0 >	
Power supply				1-50-230(220-240)		1-50-230(220-240)		1-50-230(220-240)		1-50-230(220-240)	
Electrical characteristics	Cooling	Running current	A	8.39 - 7.69		14.90 - 13.66		15.62 - 14.32		22.10 - 20.66	
		Power consumption	kW	1.79 (0.30-2.34)		3.18 (0.31-3.31)		3.23 (0.60-4.50)		4.71 (0.60-4.83)	
		Power factor	%	97		97		94		95	
		EER	2.79		2.11		3.10		2.57		
	SEER	5.10		4.89		5.10		4.80			
	Heating	Running current	A	8.06 - 7.39		15.00 - 13.75		15.43 - 14.14		18.90 - 17.32	
		Power consumption	kW	1.72 (0.30-2.47)		3.20 (0.31-3.45)		3.19 (0.60-4.50)		3.95 (0.60-4.80)	
		Power factor	%	97		97		94		95	
		COP	3.08		2.41		3.51		3.24		
		SCOP	3.90		3.81		3.92		3.90		
Maximum current			12.4		14.4		22.1		22.1		
Indoor Unit											
Model name				RAV-HM561FT*		RAV-HM801FT*		RAV-HM1101FT*		RAV-HM1401FT*	
Appearance	Main Unit			Zinc hot dipping steel plate							
Outer dimension	DIMENSION	H	mm	1750		1750		1750		1750	
		W	mm	600		600		600		600	
		D	mm	210		210		390		390	
Weight			kg	44		45		59		59	
Heat exchanger				Finned tube		Finned tube		Finned tube		Finned tube	
Fan unit	Fan			Centrifugal fan		Centrifugal fan		Centrifugal fan		Centrifugal fan	
	Standard air flow (M+ / M / L+ / L)		m³/h	820(760/700/640/600)		930(830/770/700/640)		1660(1550/1420/1300/1190)		1760(1630/1480/1370/1350)	
	Motor		W	62		62		109		109	
Sound pressure level	High (M+ / M / L+ / L)		dB(A)	46(44/42/40/38)		50(47/45/43/41)		51(49/46/44/41)		53(51/48/46/45)	
Sound power level	High (M+ / M / L+ / L)		dB(A)	60(58/56/54/52)		64(61/60/57/54)		65(63/61/58/55)		67(65/62/60/59)	
Outdoor Unit											
Model name				RAV-SM564ATP*		RAV-SM804ATP*		RAV-SM1104ATP*		RAV-SM1404ATP*	
dimension		H	mm	550		550		890		890	
		W	mm	780		780		900		900	
		D	mm	290		290		320		320	
Weight			kg	40		44		68		68	
compressor type				DC Twin Rotary		DC Twin Rotary		DC Twin Rotary		DC Twin Rotary	
Fan moter output			W	43		43		100		100	
Air flow			m3/h	2400		2700		4080		4200	
Refrigerant Quantity in Outdoor unit			kg	1.10		1.70		2.80		2.80	
Additional refrigerant charge			g/m	20		40		40		40	
Pipe connections		pipe length	m	7.5		7.5		7.5		7.5	
		Min. Length	m	5		5		5		5	
		Max. Length	m	30		30		50		50	
		Max. height difference	m	30		30		30		30	
		Chargeless	m	20		20		30		30	
Flare connection		Main pipe	m	12.7/6.4		15.9/9.5		15.9/9.5		15.9/9.5	
		Branch pipe	m	-/-		-/-		-/-		-/-	
Sound pressure level		Cooling/Heating	dB(A)	46 / 48		48 / 52		53 / 54		54 / 55	
Sound power level		Cooling/Heating	dB(A)	63 / 65		65 / 69		70 / 71		70 / 71	
Energy label		Cooling/Heating		A / A		B / A		A / A		-	
Operation Range		Cooling	℃	-15 to 46		-15 to 46		-15 to 46		-15 to 46	
		Heating	℃	-15 to 15		-15 to 15		-15 to 15		-15 to 15	

1 : The Cooling capacity and electrical characteristics are measured under the conditions specified by JIS B 8615-1 based on the reference piping.
The reference piping consists of 5m of main piping and 2.5m 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.

3 : Height from the ceiling. Depth doesn't include the electric parts box.

Notes :

Rated conditions Cooling : Indoor air temperature 27°CDB/ 19 °CWB, Outdoor air temperature 35°CDB
Heating : Indoor air temperature 20°CDB, Outdoor air temperature 7°CDB/ 6 °CWB

(Floor Standing type)

Model name				Indoor Unit		RAV-HM561FT-EN / ES / TR		RAV-HM801FT-EN / ES / TR	
						RAV-HM561FT-EN / ES / TR		RAV-HM801FT-EN / ES / TR	
				Outdoor Unit		RAV-SM1104AT(J)P-E / TR		RAV-SM1404AT(J)P-E / TR	
Cooling capacity (Rated (Min.-Max.))				kW	10.0 <3.0- 11.2 >		12.1 <3.0- 13.2 >		
Heating capacity (Rated (Min.-Max.))				kW	11.2 <3.0- 12.5 >		12.8 <3.0- 16.0 >		
Power supply				1-50-230(220-240)		1-50-230(220-240)			
Electrical characteristics	Cooling	Running current		A	15.62 - 14.32		22.10 - 20.66		
		Power consumption		kW	3.23 (0.60-4.50)		4.71 (0.60-4.83)		
		Power factor		%	94		95		
		EER		3.10		2.57			
		SEER		5.10		4.80			
	Heating	Running current		A	15.43 - 14.14		18.90 - 17.32		
		Power consumption		kW	3.19 (0.60-4.50)		3.95 (0.60-4.80)		
		Power factor		%	94		95		
		COP		3.51		3.24			
		SCOP		3.92		3.90			
Maximum current		22.1		22.1					
Indoor Unit									
Model name				RAV-HM561FT*		RAV-HM801FT*			
Appearance	Main Unit			Zinc hot dipping steel plate					
Outer dimension	DIMENSION	H	mm	1750		1750			
		W	mm	600		600			
		D	mm	210		210			
Weight			kg	44		45			
Heat exchanger			Finned tube		Finned tube				
Fan unit	Fan		Centrifugal fan		Centrifugal fan				
	Standard air flow (M+ / M / L+ / L)		m³/h	820(760/700/640/600)		930(830/770/700/640)			
	Motor		W	62		62			
Sound pressure level	High (M+ / M / L+ / L)		dB(A)	46(44/42/40/38)		50(47/45/43/41)			
Sound power level	High (M+ / M / L+ / L)		dB(A)	60(58/56/54/52)		64(61/60/57/54)			
Outdoor Unit									
Model name				RAV-SM1104ATP*		RAV-SM1404ATP*			
dimension	H	mm	890		890				
	W	mm	900		900				
	D	mm	320		320				
Weight			kg	68		68			
compressor type			DC Twin Rotary		DC Twin Rotary				
Fan moter output			W	100		100			
Air flow			m3/h	4080		4200			
Refrigerant Quantity in Outdoor unit			kg	2.80		2.80			
Additional refigerant charge			g/m	40		40			
Pipe connections	pipe rength	m	7.5		7.5				
	Min. Length	m	3		5				
	Max. Length	m	50		50				
	Max. height difference	m	30		30				
	Chargeless	m	30		30				
Flare connection	Main pipe	m	15.9/9.5		15.9/9.5				
	Branch pipe	m	12.7/6.4		15.9/9.5				
Sound pressure level	Cooling/Heating	dB(A)	53 / 54		54 / 55				
Sound power level	Cooling/Heating	dB(A)	70 / 71		70 / 71				
Energy label	Cooling/Heating	A / A		-					
Operation Range	Cooling	℃	-15 to 46		-15 to 46				
	Heating	℃	-15 to 15		-15 to 15				

1 : The Cooling capacity and electrical characteristics are measured under the conditions specified by JIS B 8615-1 based on the reference piping.
The reference piping consists of 5m of main piping and 2.5m 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.

3 : Height from the ceiling. Depth doesn't include the electric parts box.

Notes ;

Rated conditions Cooling : Indoor air temperature 27°CDB/ 19 °CWB, Outdoor air temperature 35°CDB
Heating : Indoor air temperature 20°CDB, Outdoor air temperature 7°CDB/ 6 °CWB

(Floor Standing type)

Model name		Indoor Unit		RAV-HM1101FT-EN / ES / TR			RAV-HM1401FT-EN / ES / TR		
		Outdoor Unit		RAV-SM1104AT(J)8P-E / TR			RAV-SM1404AT(J)8P-E / TR		
Cooling capacity (Rated (Min.-Max.))			kW	10.0 <3.0- 11.2 >			12.1 <3.0- 13.2 >		
Heating capacity (Rated (Min.-Max.))			kW	11.2 <3.0- 12.5 >			12.8 <3.0- 16.0 >		
Power supply				3N-50-380/415			3N-50-380/415		
Electrical characteristics	Cooling	Running current	A	6.06 - 5.55			8.23 - 7.53		
		Power consumption	kW	3.23 (0.60-4.50)			4.71 (0.60-4.83)		
		Power factor	%	81			87		
		EER		3.10			2.57		
		SEER		3.10			2.57		
	Heating	Running current	A	5.98 - 5.48			6.90 - 6.32		
		Power consumption	kW	3.19 (0.60-4.50)			3.95 (0.60-4.80)		
		Power factor	%	81			87		
		COP		3.51			3.24		
		SCOP		3.51			3.24		
Maximum current			14.1			14.1			
Indoor Unit									
Model name			RAV-HM1101FT*			RAV-HM1401FT*			
Appearance	Main Unit						Zinc hot dipping steel plate		
Outer dimension	DIMENSION	H	mm	1750			1750		
		W	mm	600			600		
		D	mm	390			390		
Weight			kg	59			59		
Heat exchanger			Finned tube			Finned tube			
Fan unit	Fan		Centrifugal fan			Centrifugal fan			
	Standard air flow (M+ / M / L+ / L)		m³/h	1660(1550/1420/1300/1190)			1760(1630/1480/1370/1350)		
	Motor		W	109			109		
Sound pressure level High (M+ / M / L+ / L)			dB(A)	51(49/46/44/41)			53(51/48/46/45)		
Sound power level High (M+ / M / L+ / L)			dB(A)	65(63/61/58/55)			67(65/62/60/59)		
Outdoor Unit									
Model name			RAV-SM1104AT8P*			RAV-SM1404AT8P*			
dimension		H	mm	890			890		
		W	mm	900			900		
		D	mm	320			320		
Weight			kg	69			69		
compressor type				DC Twin Rotary			DC Twin Rotary		
Fan moter output			W	100			100		
Air flow			m3/h	4080			4200		
Refrigerant Quantity in Outdoor unit			kg	2.80			2.80		
Additional refrigetant charge			g/m	40			40		
Pipe connections		pipe length	m	7.5			7.5		
		Min. Length	m	5			5		
		Max. Length	m	50			50		
		Max. height difference	m	30			30		
		Chargeless	m	30			30		
Flare connection		Main pipe	m	15.9/9.5			15.9/9.5		
		Branch pipe	m	-/-			-/-		
Sound pressure level		Cooling/Heating	dB(A)	53 / 54			54 / 55		
Sound power level		Cooling/Heating	dB(A)	70 / 71			70 / 71		
Energy Label		Cooling/Heating		A / A			-		
Operation Range		Cooling	℃	-15 to 46			-15 to 46		
		Heating	℃	-15 to 15			-15 to 15		

1 : The Cooling capacity and electrical characteristics are measured under the conditions specified by JIS B 8615-1 based on the reference piping.
The reference piping consists of 5m of main piping and 2.5m 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.

3 : Height from the ceiling. Depth doesn't include the electric parts box.

Notes ;

Rated conditions Cooling : Indoor air temperature 27°CDB/ 19 °CWB, Outdoor air temperature 35°CDB
Heating : Indoor air temperature 20°CDB, Outdoor air temperature 7°CDB/ 6 °CWB

(Floor Standing type)

Model name		Indoor Unit		RAV-HM561FT-EN / ES / TR			RAV-HM801FT-EN / ES / TR			
				RAV-HM561FT-EN / ES / TR			RAV-HM801FT-EN / ES / TR			
		Outdoor Unit		RAV-SM1104AT(J)8P-E / TR			RAV-SM1404AT(J)8P-E / TR			
Cooling capacity (Rated (Min.-Max.))			kW	10.0 <3.0- 11.2 >			12.1 <3.0- 13.2 >			
Heating capacity (Rated (Min.-Max.))			kW	11.2 <3.0- 12.5 >			12.8 <3.0- 16.0 >			
Power supply				3N-50-380/415			3N-50-380/415			
Electrical characteristics	Cooling	Running current		A	6.06	-	5.55	8.23	-	7.53
		Power consumption		kW	3.23 (0.60-4.50)			4.71 (0.60-4.83)		
		Power factor		%	81			87		
		EER		3.10			2.57			
		SEER		5.10			4.80			
	Heating	Running current		A	5.98	-	5.48	6.90	-	6.32
		Power consumption		kW	3.19 (0.60-4.50)			3.95 (0.60-4.80)		
		Power factor		%	81			87		
		COP		3.51			3.24			
		SCOP		3.92			3.90			
Maximum current			14.1			14.1				
Indoor Unit										
Model name				RAV-HM561FT*			RAV-HM801FT*			
Appearance	Main Unit			Zinc hot dipping steel plate						
Outer dimension	DIMENSION	H	mm	1750			1750			
		W	mm	600			600			
		D	mm	210			210			
Weight			kg	44			45			
Heat exchanger				Finned tube			Finned tube			
Fan unit	Fan			Centrifugal fan			Centrifugal fan			
	Standard air flow (M+ / M / L+ / L)		m³/h	820(760/700/640/600)			930(830/770/700/640)			
	Motor		W	62			62			
Sound pressure level		High (M+ / M / L+ / L)		dB(A)	46(44/42/40/38)			50(47/45/43/41)		
Sound power level		High (M+ / M / L+ / L)		dB(A)	60(58/56/54/52)			64(61/60/57/54)		
Outdoor Unit										
Model name				RAV-SM1104AT8P*			RAV-SM1404AT8P*			
dimension		H	mm	890			890			
		W	mm	900			900			
		D	mm	320			320			
Weight			kg	69			69			
compressor type				DC Twin Rotary			DC Twin Rotary			
Fan moter output			W	100			100			
Air flow			m3/h	4080			4200			
Refrigerant Quantity in Outdoor unit			kg	2.80			2.80			
Additional refigretant charge			g/m	40			40			
Pipe connections		pipe rength	m	7.5			7.5			
		Min. Length	m	3			5			
		Max. Length	m	50			50			
		Max. height difference	m	30			30			
		Chargeless	m	30			30			
Flare connection		Main pipe	m	15.9/9.5			15.9/9.5			
		Branch pipe	m	12.7/6.4			15.9/9.5			
Sound pressure level		Cooling/Heating	dB(A)	53	/	54	54	/	55	
Sound power level		Cooling/Heating	dB(A)	70	/	71	70	/	71	
Energy label		Cooling/Heating		A / A			-			
Operation Range		Cooling	°C	-15 to 46			-15 to 46			
		Heating	°C	-15 to 15			-15 to 15			

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

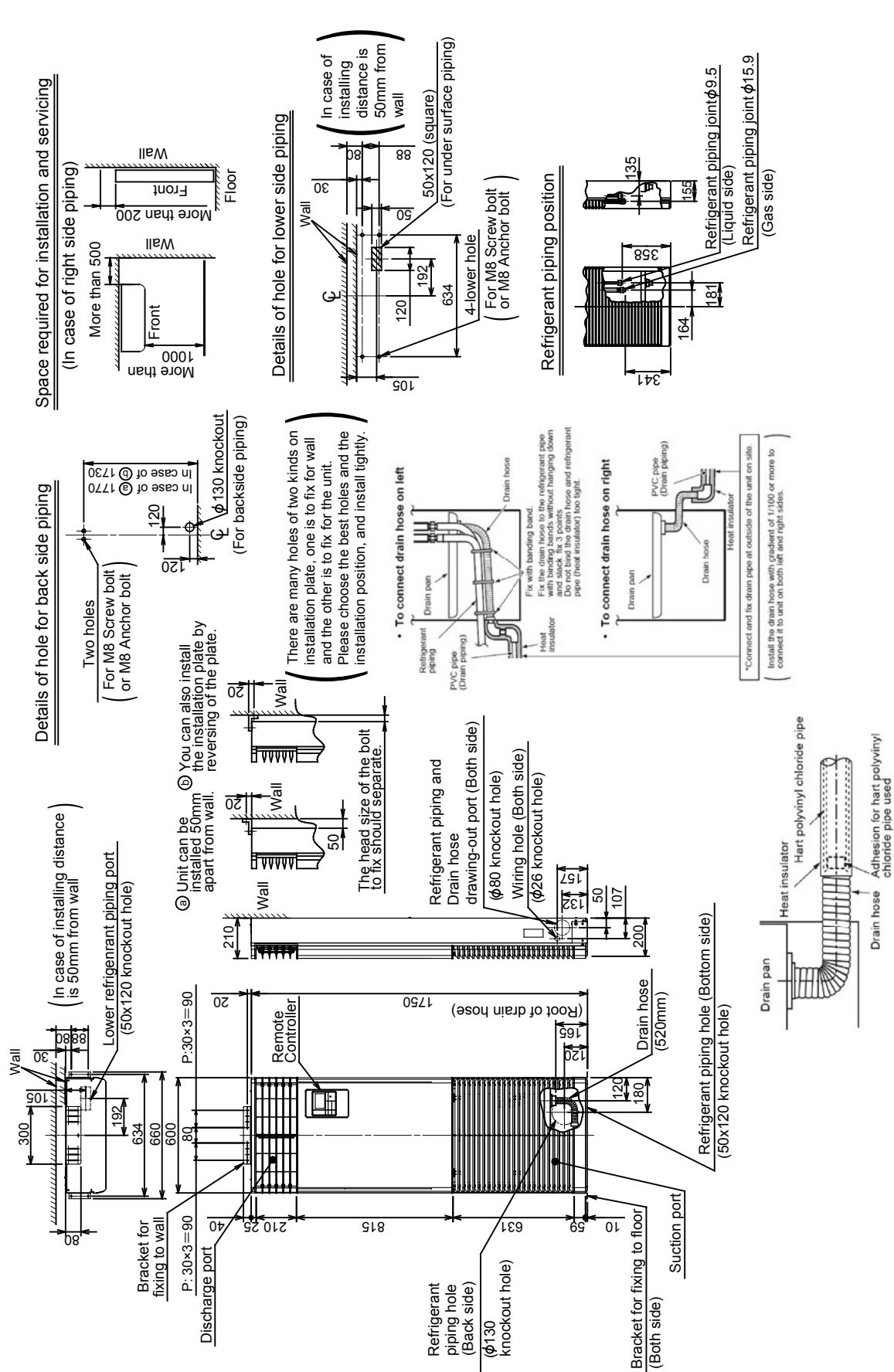
2 : The sound level are measured in an anechoic chamber in accordance with JIS B 8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

3 : Height from the ceiling. Depth doesn't include the electric parts box.

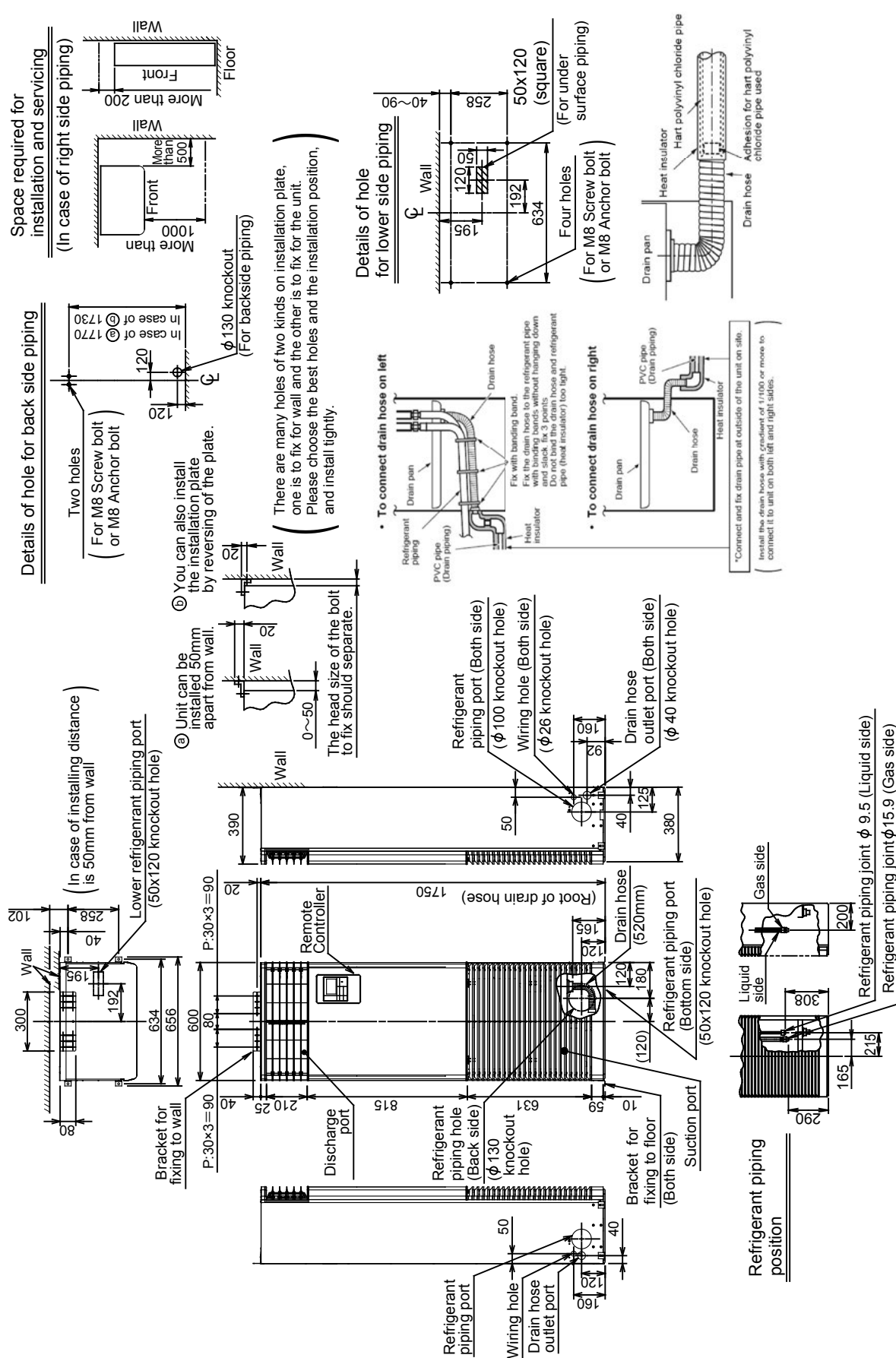
Notes ;

Rated conditions Cooling : Indoor air temperature 27°CDB/ 19 °CWB, Outdoor air temperature 35°CDB
Heating : Indoor air temperature 20°CDB, Outdoor air temperature 7°CDB/ 6 °CWB

RAV-HM801FT-EN / ES / TR



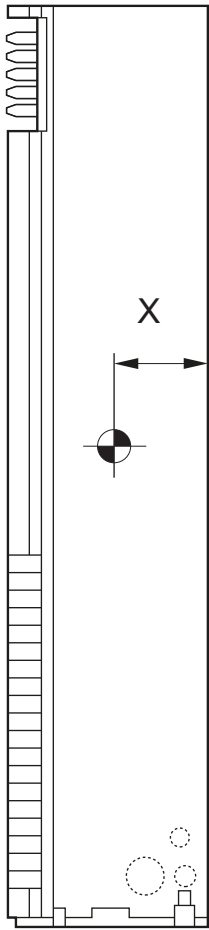
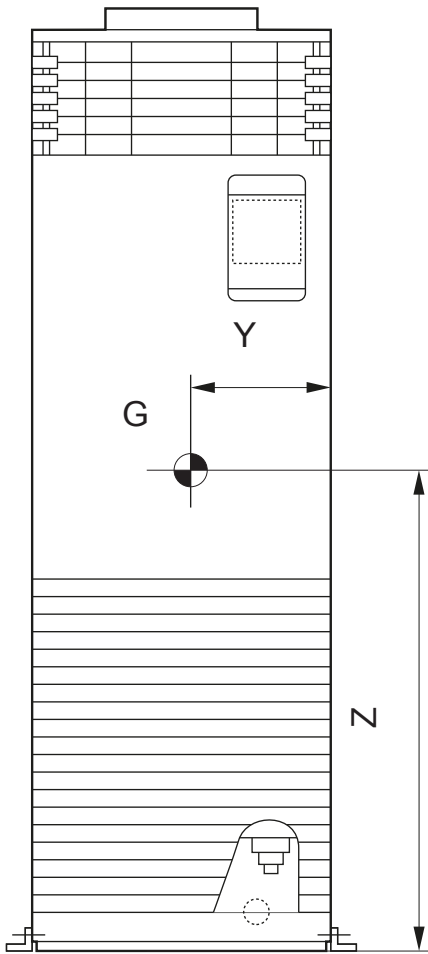
RAV-HM1101FT-EN / ES / TR, RAV-HM1401FT-EN / ES / TR



(Unit:mm)

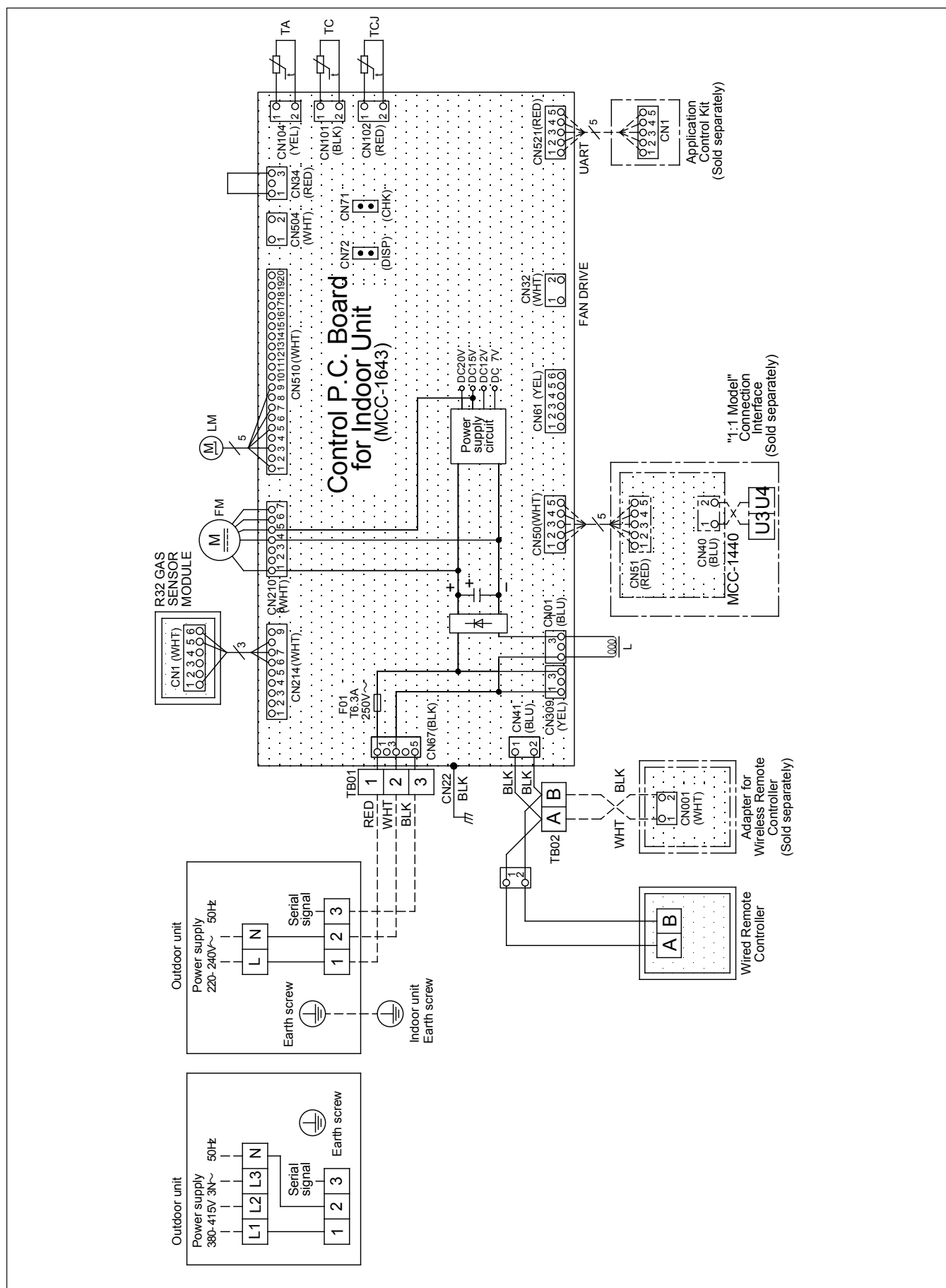
2-3. Center of gravity

Model name	X (mm)	Y (mm)	Z (mm)
RAV-HM561FT-EN / ES / TR	85	285	820
RAV-HM801FT-EN / ES / TR			
RAV-HM1101FT-EN / ES / TR	195	290	860
RAV-HM1401FT-EN / ES / TR			



2-4. Wiring diagram

RAV-HM561FT*, RAV-HM801FT*, RAV-HM1101FT*, RAV-HM1401FT* (-EN / ES / TR)



2-5. Sensible capacity table

Indoor unit : RAV-HM***1FT-EN / ES / TR

Outdoor unit : RAV-GM**1AT(J)P-E / TR, RAV-GM**1AT8(J)P-E / TR

RAV-SM**4AT(J)P-E / TR, RAV-SM**4AT8(J)P-E / TR

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
56	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
80	10.0	6.3	4.3	6.6	4.5	6.9	4.8	7.2	4.9	7.4	5.1	7.7	5.3	7.9	5.4	8.3	5.7	8.7	6.0
	12.0	6.3	4.3	6.6	4.5	6.9	4.7	7.1	4.9	7.4	5.1	7.6	5.2	7.8	5.4	8.3	5.7	8.7	6.0
	14.0	6.2	4.3	6.5	4.5	6.9	4.7	7.1	4.9	7.3	5.0	7.6	5.2	7.8	5.3	8.2	5.7	8.6	5.9
	16.0	6.2	4.2	6.5	4.5	6.8	4.7	7.1	4.8	7.3	5.0	7.5	5.2	7.7	5.3	8.2	5.6	8.6	5.9
	18.0	6.1	4.2	6.4	4.4	6.8	4.6	7.0	4.8	7.2	5.0	7.5	5.1	7.7	5.3	8.1	5.6	8.5	5.8
	20.0	6.1	4.2	6.4	4.4	6.7	4.6	6.9	4.8	7.2	4.9	7.4	5.1	7.6	5.2	8.1	5.5	8.4	5.8
	21.0	6.0	4.1	6.4	4.4	6.7	4.6	6.9	4.7	7.1	4.9	7.4	5.1	7.6	5.2	8.0	5.5	8.4	5.8
	23.0	6.0	4.1	6.3	4.3	6.6	4.5	6.8	4.7	7.1	4.9	7.3	5.0	7.5	5.1	7.9	5.4	8.3	5.7
	25.0	5.9	4.1	6.2	4.3	6.5	4.5	6.8	4.6	7.0	4.8	7.2	4.9	7.4	5.1	7.8	5.4	8.2	5.6
	27.0	5.8	4.0	6.1	4.2	6.5	4.4	6.7	4.6	6.9	4.7	7.1	4.9	7.3	5.0	7.8	5.3	8.1	5.6
	29.0	5.8	4.0	6.1	4.2	6.4	4.4	6.6	4.5	6.8	4.7	7.0	4.8	7.2	5.0	7.6	5.3	8.0	5.5
	31.0	5.7	3.9	6.0	4.1	6.3	4.3	6.5	4.5	6.7	4.6	6.9	4.8	7.1	4.9	7.5	5.2	7.9	5.4
	33.0	5.6	3.8	5.9	4.0	6.2	4.2	6.4	4.4	6.6	4.5	6.8	4.7	7.0	4.8	7.4	5.1	7.8	5.3
	35.0	5.5	3.8	5.8	4.0	6.1	4.2	6.3	4.3	6.5	4.5	6.7	4.6	6.9	4.7	7.3	5.0	7.6	5.2
	37.0	5.4	3.7	5.7	3.9	6.0	4.1	6.2	4.2	6.4	4.4	6.6	4.5	6.8	4.6	7.2	4.9	7.5	5.1
	39.0	5.3	3.6	5.6	3.8	5.8	4.0	6.0	4.2	6.3	4.3	6.4	4.4	6.6	4.5	7.0	4.8	7.3	5.0

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
110 (*1)	10.0	8.9	6.9	9.4	7.2	9.8	7.6	10.2	7.8	10.5	8.1	10.9	8.3	11.2	8.6	11.8	9.1	12.4	9.5
	12.0	8.9	6.8	9.3	7.2	9.8	7.5	10.1	7.8	10.5	8.1	10.8	8.3	11.1	8.5	11.8	9.0	12.3	9.4
	14.0	8.8	6.8	9.3	7.1	9.7	7.5	10.1	7.7	10.4	8.0	10.7	8.2	11.0	8.5	11.7	9.0	12.2	9.4
	16.0	8.7	6.7	9.2	7.1	9.7	7.4	10.0	7.7	10.3	7.9	10.6	8.2	11.0	8.4	11.6	8.9	12.1	9.3
	18.0	8.7	6.7	9.1	7.0	9.6	7.4	9.9	7.6	10.3	7.9	10.6	8.1	10.9	8.3	11.5	8.8	12.0	9.2
	20.0	8.6	6.6	9.1	7.0	9.5	7.3	9.8	7.6	10.2	7.8	10.5	8.1	10.8	8.3	11.4	8.8	11.9	9.2
	21.0	8.6	6.6	9.0	6.9	9.5	7.3	9.8	7.5	10.1	7.8	10.4	8.0	10.7	8.2	11.4	8.7	11.9	9.1
	23.0	8.5	6.5	8.9	6.9	9.4	7.2	9.7	7.5	10.0	7.7	10.3	7.9	10.6	8.2	11.2	8.6	11.8	9.0
	25.0	8.4	6.4	8.8	6.8	9.3	7.1	9.6	7.4	9.9	7.6	10.2	7.8	10.5	8.1	11.1	8.5	11.6	8.9
	27.0	8.3	6.4	8.7	6.7	9.2	7.0	9.5	7.3	9.8	7.5	10.1	7.8	10.4	8.0	11.0	8.4	11.5	8.8
	29.0	8.2	6.3	8.6	6.6	9.0	6.9	9.4	7.2	9.7	7.4	10.0	7.7	10.2	7.9	10.8	8.3	11.3	8.7
	31.0	8.1	6.2	8.5	6.5	8.9	6.8	9.2	7.1	9.5	7.3	9.8	7.5	10.1	7.8	10.7	8.2	11.2	8.6
	33.0	7.9	6.1	8.3	6.4	8.8	6.7	9.1	7.0	9.4	7.2	9.7	7.4	9.9	7.6	10.5	8.1	11.0	8.5
	35.0	7.8	6.0	8.2	6.3	8.6	6.6	8.9	6.9	9.2	7.1	9.5	7.3	9.8	7.5	10.3	8.0	10.8	8.3
	37.0	7.7	5.9	8.1	6.2	8.5	6.5	8.8	6.7	9.1	7.0	9.3	7.2	9.6	7.4	10.2	7.8	10.6	8.2
	39.0	7.5	5.8	7.9	6.1	8.3	6.4	8.6	6.6	8.9	6.8	9.1	7.0	9.4	7.2	9.9	7.6	10.4	8.0

*1:GM series

TC:Total Capacity [kW]

SHC:Sensible Heat Capacity [kW]

Indoor unit : RAV-HM***1FT-EN / ES / TR

Outdoor unit : RAV-GM**1AT(J)P-E / TR, RAV-GM**1AT8(J)P-E / TR

RAV-SM**4AT(J)P-E / TR, RAV-SM**4AT8(J)P-E / TR

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
110 (*2)	10.0	9.4	7.0	9.9	7.4	10.4	7.8	10.7	8.1	11.1	8.3	11.4	8.6	11.8	8.8	12.5	9.3	13.0	9.8
	12.0	9.3	7.0	9.8	7.4	10.3	7.7	10.7	8.0	11.0	8.3	11.4	8.5	11.7	8.8	12.4	9.3	12.9	9.7
	14.0	9.3	7.0	9.8	7.3	10.2	7.7	10.6	8.0	11.0	8.2	11.3	8.5	11.6	8.7	12.3	9.2	12.9	9.6
	16.0	9.2	6.9	9.7	7.3	10.2	7.6	10.5	7.9	10.9	8.2	11.2	8.4	11.5	8.6	12.2	9.2	12.8	9.6
	18.0	9.1	6.9	9.6	7.2	10.1	7.6	10.4	7.8	10.8	8.1	11.1	8.3	11.4	8.6	12.1	9.1	12.7	9.5
	20.0	9.1	6.8	9.5	7.1	10.0	7.5	10.4	7.8	10.7	8.0	11.0	8.3	11.3	8.5	12.0	9.0	12.6	9.4
	21.0	9.0	6.8	9.5	7.1	10.0	7.5	10.3	7.7	10.7	8.0	11.0	8.2	11.3	8.5	12.0	9.0	12.5	9.4
	23.0	8.9	6.7	9.4	7.0	9.9	7.4	10.2	7.7	10.6	7.9	10.9	8.2	11.2	8.4	11.8	8.9	12.4	9.3
	25.0	8.8	6.6	9.3	7.0	9.8	7.3	10.1	7.6	10.4	7.8	10.8	8.1	11.1	8.3	11.7	8.8	12.2	9.2
	27.0	8.7	6.5	9.2	6.9	9.6	7.2	10.0	7.5	10.3	7.7	10.6	8.0	10.9	8.2	11.6	8.7	12.1	9.1
	29.0	8.6	6.5	9.1	6.8	9.5	7.1	9.8	7.4	10.2	7.6	10.5	7.9	10.8	8.1	11.4	8.6	11.9	9.0
	31.0	8.5	6.4	8.9	6.7	9.4	7.0	9.7	7.3	10.0	7.5	10.3	7.7	10.6	8.0	11.3	8.4	11.8	8.8
	33.0	8.4	6.3	8.8	6.6	9.2	6.9	9.6	7.2	9.9	7.4	10.2	7.6	10.5	7.8	11.1	8.3	11.6	8.7
	35.0	8.2	6.2	8.6	6.5	9.1	6.8	9.4	7.0	9.7	7.3	10.0	7.5	10.3	7.7	10.9	8.2	11.4	8.5
	37.0	8.1	6.0	8.5	6.4	8.9	6.7	9.2	6.9	9.5	7.1	9.8	7.4	10.1	7.6	10.7	8.0	11.2	8.4
	39.0	7.9	5.9	8.3	6.2	8.7	6.5	9.0	6.8	9.3	7.0	9.6	7.2	9.9	7.4	10.5	7.9	10.9	8.2

*2:GM series

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
140	10.0	11.4	8.1	12.0	8.5	12.5	8.9	13.0	9.2	13.4	9.5	13.8	9.8	14.2	10.1	15.1	10.7	15.8	11.2
	12.0	11.3	8.0	11.9	8.4	12.5	8.9	12.9	9.2	13.4	9.5	13.7	9.8	14.1	10.0	15.0	10.6	15.7	11.1
	14.0	11.2	8.0	11.8	8.4	12.4	8.8	12.8	9.1	13.3	9.4	13.7	9.7	14.1	10.0	14.9	10.6	15.6	11.1
	16.0	11.1	7.9	11.7	8.3	12.3	8.7	12.7	9.1	13.2	9.4	13.6	9.6	14.0	9.9	14.8	10.5	15.5	11.0
	18.0	11.1	7.9	11.6	8.3	12.2	8.7	12.6	9.0	13.1	9.3	13.5	9.6	13.8	9.8	14.7	10.4	15.3	10.9
	20.0	11.0	7.8	11.5	8.2	12.1	8.6	12.5	8.9	13.0	9.2	13.3	9.5	13.7	9.8	14.5	10.3	15.2	10.8
	21.0	10.9	7.8	11.5	8.2	12.1	8.6	12.5	8.9	12.9	9.2	13.3	9.4	13.7	9.7	14.5	10.3	15.1	10.8
	23.0	10.8	7.7	11.4	8.1	11.9	8.5	12.4	8.8	12.8	9.1	13.2	9.3	13.5	9.6	14.3	10.2	15.0	10.7
	25.0	10.7	7.6	11.2	8.0	11.8	8.4	12.2	8.7	12.6	9.0	13.0	9.2	13.4	9.5	14.2	10.1	14.8	10.5
	27.0	10.6	7.5	11.1	7.9	11.7	8.3	12.1	8.6	12.5	8.9	12.9	9.1	13.2	9.4	14.0	9.9	14.6	10.4
	29.0	10.4	7.4	11.0	7.8	11.5	8.2	11.9	8.5	12.3	8.8	12.7	9.0	13.0	9.3	13.8	9.8	14.4	10.3
	31.0	10.3	7.3	10.8	7.7	11.3	8.1	11.7	8.3	12.1	8.6	12.5	8.9	12.9	9.1	13.6	9.7	14.2	10.1
	33.0	10.1	7.2	10.6	7.6	11.2	7.9	11.6	8.2	12.0	8.5	12.3	8.7	12.7	9.0	13.4	9.5	14.0	10.0
	35.0	9.9	7.1	10.5	7.4	11.0	7.8	11.4	8.1	11.8	8.4	12.1	8.6	12.4	8.8	13.2	9.4	13.8	9.8
	37.0	9.8	6.9	10.3	7.3	10.8	7.7	11.1	7.9	11.5	8.2	11.9	8.4	12.2	8.7	12.9	9.2	13.5	9.6
	39.0	9.6	6.8	10.0	7.1	10.5	7.5	10.9	7.8	11.3	8.0	11.6	8.3	12.0	8.5	12.7	9.0	13.2	9.4

TC:Total Capacity [kW]

SHC:Sensible Heat Capacity [kW]

2-6. Part load performance

Indoor unit : RAV-HM561FT-EN / ES / TR

Outdoor unit : RAV-GM561AT(J)P-E / TR

	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1500	300	1500	300
RATING	5000	1790	5300	1720

Cooling

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4630	4170	3710	3240	2780	2320	1850	1390	1390	1390
	W	1960	1570	1260	980	790	600	450	330	330	330
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1500	1500
	W	1790	1440	1150	900	720	550	410	300	300	300
30	Q	5270	4750	4220	3690	3160	2640	2110	1580	1580	1580
	W	1610	1300	1030	810	650	490	370	270	270	270
25	Q	5510	4960	4400	3850	3300	2750	2200	1650	1650	1650
	W	1440	1160	920	720	580	440	330	240	240	240
20	Q	5660	5090	4530	3960	3390	2830	2260	1700	1700	1700
	W	1300	1040	830	650	520	400	300	220	220	220

Heating

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6330	5700	5070	4430	3800	3170	2530	1900	1790	1790
	W	1820	1560	1300	1050	840	650	500	370	320	320
10	Q	5750	5170	4600	4020	3450	2870	2300	1720	1630	1630
	W	1750	1500	1250	1010	800	620	480	360	310	310
7	Q	5300	4770	4240	3710	3180	2650	2120	1590	1500	1500
	W	1720	1470	1230	990	790	610	470	350	300	300
5	Q	4080	3670	3260	2860	2450	2040	1630	1220	1160	1160
	W	1480	1260	1060	850	680	520	400	300	260	260
2	Q	3990	3590	3190	2790	2390	1990	1590	1200	1130	1130
	W	1450	1240	1040	840	670	520	400	300	250	250
0	Q	3930	3540	3150	2750	2360	1970	1570	1180	1110	1110
	W	1440	1230	1030	830	660	510	390	290	250	250
-5	Q	3790	3410	3030	2650	2270	1890	1520	1140	1070	1070
	W	1400	1200	1000	810	640	500	380	290	240	240
-7	Q	3730	3360	2990	2610	2240	1870	1490	1120	1060	1060
	W	1390	1190	990	800	640	490	380	280	240	240
-10	Q	3440	3100	2760	2410	2070	1720	1380	1030	970	970
	W	1340	1150	960	770	620	480	370	270	230	230
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	750	750
	W	1200	1030	860	690	550	430	330	240	210	210

Indoor unit : RAV-HM801FT-EN / ES / TR

Outdoor unit : RAV-GM801AT(J)P-E / TR

	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1500	310	1500	310
RATING	6700	3180	7700	3200

Cooling

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6330	5690	5060	4430	3800	3160	2530	1900	1420	1420
	W	3470	2820	2210	1690	1290	950	720	520	340	340
35	Q	6700	6030	5360	4690	4020	3350	2680	2010	1500	1500
	W	3180	2590	2030	1550	1180	870	660	480	310	310
30	Q	7080	6370	5670	4960	4250	3540	2830	2120	1590	1590
	W	2890	2360	1850	1410	1070	790	600	440	280	280
25	Q	7360	6620	5890	5150	4420	3680	2940	2210	1650	1650
	W	2620	2130	1670	1280	970	720	540	400	260	260
20	Q	7470	6720	5980	5230	4480	3730	2990	2240	1670	1670
	W	2360	1920	1510	1150	880	650	490	360	230	230

Heating

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9100	8190	7280	6370	5460	4550	3640	2730	1820	1770
	W	3490	2920	2390	1910	1500	1140	850	630	450	340
10	Q	8260	7440	6610	5780	4960	4130	3300	2480	1650	1610
	W	3320	2780	2270	1820	1430	1090	810	600	430	320
7	Q	7700	6930	6160	5390	4620	3850	3080	2310	1540	1500
	W	3200	2680	2190	1750	1380	1050	780	580	410	310
5	Q	5930	5340	4750	4150	3560	2970	2370	1780	1190	1160
	W	2750	2300	1880	1500	1190	900	670	500	350	270
2	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	1130
	W	2700	2260	1850	1480	1170	890	660	490	350	260
0	Q	5710	5140	4570	4000	3430	2860	2280	1710	1140	1110
	W	2690	2250	1840	1470	1160	880	660	490	340	260
-5	Q	5510	4960	4410	3860	3310	2760	2200	1650	1100	1070
	W	2610	2190	1790	1430	1130	860	640	470	330	250
-7	Q	5420	4880	4340	3800	3250	2710	2170	1630	1080	1060
	W	2600	2180	1780	1420	1120	850	630	470	330	250
-10	Q	5010	4510	4010	3510	3000	2500	2000	1500	1000	980
	W	2490	2090	1710	1360	1080	820	610	450	320	240
-15	Q	3850	3470	3080	2700	2310	1930	1540	1160	770	750
	W	2240	1870	1530	1220	970	730	550	410	290	220

Indoor unit : RAV-HM1101FT-EN / ES / TR, RAV-HM561FT-EN / ES / TR (Twin)

Outdoor unit : RAV-GM1101AT(8)(J)P-E / TR

	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	3000	600	3000	600
RATING	9500	3060	11200	3190

Cooling

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9000	8100	7200	6300	5400	4500	3600	2840	2840	2840
	W	3320	2650	2150	1740	1380	1080	850	650	650	650
35	Q	9500	8550	7600	6650	5700	4750	3800	3000	3000	3000
	W	3060	2440	1980	1600	1270	990	780	600	600	600
30	Q	9960	8960	7970	6970	5970	4980	3980	3140	3140	3140
	W	2780	2210	1800	1450	1150	900	710	540	540	540
25	Q	10330	9300	8270	7230	6200	5170	4130	3260	3260	3260
	W	2520	2010	1630	1320	1050	820	640	490	490	490
20	Q	10610	9550	8490	7430	6370	5310	4240	3350	3350	3350
	W	2280	1820	1480	1190	950	740	580	450	450	450

Heating

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10720	9380	8040	6700	5360	4020	3590	3590
	W	3510	3010	2540	2080	1650	1300	1010	780	660	660
10	Q	12190	10970	9750	8530	7310	6090	4870	3660	3260	3260
	W	3330	2860	2410	1970	1570	1230	960	740	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	3190	2740	2310	1890	1500	1180	920	710	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2590	2310	2310
	W	2730	2350	1980	1620	1290	1010	790	610	510	510
2	Q	8440	7590	6750	5910	5060	4220	3370	2530	2260	2260
	W	2700	2320	1960	1600	1270	1000	780	600	510	510
0	Q	8310	7480	6640	5810	4980	4150	3320	2490	2220	2220
	W	2680	2300	1940	1590	1260	990	770	600	500	500
-5	Q	8010	7210	6400	5600	4800	4000	3200	2400	2140	2140
	W	2610	2240	1890	1550	1230	970	750	580	490	490
-7	Q	7890	7100	6310	5520	4730	3940	3150	2370	2110	2110
	W	2580	2220	1870	1530	1210	950	740	570	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2490	2140	1810	1480	1170	920	720	550	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2220	1910	1610	1320	1040	820	640	490	420	420

Indoor unit : RAV-HM141FT-EN / ES / TR, RAV-HM801FT-EN / ES / TR (Twin)

Outdoor unit : RAV-GM1401AT(8)(J)P-E / TR

	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	3000	600	3000	600
RATING	12100	4710	13000	4010

Cooling

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10320	9170	8020	6880	5730	4590	3440	2840	2840
	W	5130	4140	3240	2490	1890	1430	1080	830	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4710	3800	2980	2290	1740	1310	990	760	600	600
30	Q	12690	11420	10150	8880	7610	6340	5070	3810	3150	3150
	W	4270	3450	2700	2080	1580	1190	900	690	540	540
25	Q	13160	11850	10530	9210	7900	6580	5270	3950	3260	3260
	W	3890	3140	2460	1890	1440	1080	820	630	500	500
20	Q	13520	12170	10820	9460	8110	6760	5410	4060	3350	3350
	W	3510	2830	2220	1710	1300	980	740	570	450	450

Heating

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15570	14010	12460	10900	9340	7790	6230	4670	3590	3590
	W	4400	3710	3080	2530	2050	1610	1240	940	660	660
10	Q	14140	12720	11310	9900	8480	7070	5660	4240	3260	3260
	W	4190	3530	2930	2410	1950	1530	1180	900	630	630
7	Q	13000	11700	10400	9100	7800	6500	5200	3900	3000	3000
	W	4010	3380	2810	2310	1870	1470	1130	860	600	600
5	Q	10010	9010	8010	7010	6010	5010	4000	3000	2310	2310
	W	3440	2900	2410	1980	1610	1260	970	740	520	520
2	Q	9790	8810	7830	6850	5870	4900	3920	2940	2260	2260
	W	3400	2860	2380	1960	1580	1250	960	730	510	510
0	Q	9640	8680	7710	6750	5790	4820	3860	2890	2230	2230
	W	3360	2830	2360	1940	1570	1230	950	720	500	500
-5	Q	9300	8370	7440	6510	5580	4650	3720	2790	2150	2150
	W	3280	2760	2300	1890	1530	1200	920	700	490	490
-7	Q	9160	8240	7330	6410	5500	4580	3660	2750	2110	2110
	W	3240	2730	2270	1870	1510	1190	910	700	490	490
-10	Q	8460	7610	6760	5920	5070	4230	3380	2540	1950	1950
	W	3130	2630	2190	1800	1460	1150	880	670	470	470
-15	Q	6500	5850	5200	4550	3900	3250	2600	1950	1500	1500
	W	2800	2360	1960	1610	1300	1020	790	600	420	420

Indoor unit : RAV-HM561FT-EN / ES / TR

Outdoor unit : RAV-SM564AT(J)P-E / TR

	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1500	300	1500	300
RATING	5000	1790	5300	1720

Cooling

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	4630	4170	3710	3240	2780	2320	1850	1390	1390	1390
	W	1960	1570	1260	980	790	600	450	330	330	330
35	Q	5000	4500	4000	3500	3000	2500	2000	1500	1500	1500
	W	1790	1440	1150	900	720	550	410	300	300	300
30	Q	5270	4750	4220	3690	3160	2640	2110	1580	1580	1580
	W	1610	1300	1030	810	650	490	370	270	270	270
25	Q	5510	4960	4400	3850	3300	2750	2200	1650	1650	1650
	W	1440	1160	920	720	580	440	330	240	240	240
20	Q	5660	5090	4530	3960	3390	2830	2260	1700	1700	1700
	W	1300	1040	830	650	520	400	300	220	220	220

Heating

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	6330	5700	5070	4430	3800	3170	2530	1900	1790	1790
	W	1820	1560	1300	1050	840	650	500	370	320	320
10	Q	5750	5170	4600	4020	3450	2870	2300	1720	1630	1630
	W	1750	1500	1250	1010	800	620	480	360	310	310
7	Q	5300	4770	4240	3710	3180	2650	2120	1590	1500	1500
	W	1720	1470	1230	990	790	610	470	350	300	300
5	Q	4080	3670	3260	2860	2450	2040	1630	1220	1160	1160
	W	1480	1260	1060	850	680	520	400	300	260	260
2	Q	3990	3590	3190	2790	2390	1990	1590	1200	1130	1130
	W	1450	1240	1040	840	670	520	400	300	250	250
0	Q	3930	3540	3150	2750	2360	1970	1570	1180	1110	1110
	W	1440	1230	1030	830	660	510	390	290	250	250
-5	Q	3790	3410	3030	2650	2270	1890	1520	1140	1070	1070
	W	1400	1200	1000	810	640	500	380	290	240	240
-7	Q	3730	3360	2990	2610	2240	1870	1490	1120	1060	1060
	W	1390	1190	990	800	640	490	380	280	240	240
-10	Q	3440	3100	2760	2410	2070	1720	1380	1030	970	970
	W	1340	1150	960	770	620	480	370	270	230	230
-15	Q	2650	2390	2120	1860	1590	1330	1060	800	750	750
	W	1200	1030	860	690	550	430	330	240	210	210

Indoor unit : RAV-HM801FT-EN / ES / TR

Outdoor unit : RAV-SM804AT(J)P-E / TR

	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	1500	310	1500	310
RATING	6700	3180	7700	3200

Cooling

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	6330	5690	5060	4430	3800	3160	2530	1900	1420	1420
	W	3470	2820	2210	1690	1290	950	720	520	340	340
35	Q	6700	6030	5360	4690	4020	3350	2680	2010	1500	1500
	W	3180	2590	2030	1550	1180	870	660	480	310	310
30	Q	7080	6370	5670	4960	4250	3540	2830	2120	1590	1590
	W	2890	2360	1850	1410	1070	790	600	440	280	280
25	Q	7360	6620	5890	5150	4420	3680	2940	2210	1650	1650
	W	2620	2130	1670	1280	970	720	540	400	260	260
20	Q	7470	6720	5980	5230	4480	3730	2990	2240	1670	1670
	W	2360	1920	1510	1150	880	650	490	360	230	230

Heating

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	9100	8190	7280	6370	5460	4550	3640	2730	1820	1770
	W	3490	2920	2390	1910	1500	1140	850	630	450	340
10	Q	8260	7440	6610	5780	4960	4130	3300	2480	1650	1610
	W	3320	2780	2270	1820	1430	1090	810	600	430	320
7	Q	7700	6930	6160	5390	4620	3850	3080	2310	1540	1500
	W	3200	2680	2190	1750	1380	1050	780	580	410	310
5	Q	5930	5340	4750	4150	3560	2970	2370	1780	1190	1160
	W	2750	2300	1880	1500	1190	900	670	500	350	270
2	Q	5800	5220	4640	4060	3480	2900	2320	1740	1160	1130
	W	2700	2260	1850	1480	1170	890	660	490	350	260
0	Q	5710	5140	4570	4000	3430	2860	2280	1710	1140	1110
	W	2690	2250	1840	1470	1160	880	660	490	340	260
-5	Q	5510	4960	4410	3860	3310	2760	2200	1650	1100	1070
	W	2610	2190	1790	1430	1130	860	640	470	330	250
-7	Q	5420	4880	4340	3800	3250	2710	2170	1630	1080	1060
	W	2600	2180	1780	1420	1120	850	630	470	330	250
-10	Q	5010	4510	4010	3510	3000	2500	2000	1500	1000	980
	W	2490	2090	1710	1360	1080	820	610	450	320	240
-15	Q	3850	3470	3080	2700	2310	1930	1540	1160	770	750
	W	2240	1870	1530	1220	970	730	550	410	290	220

Indoor unit : RAV-HM1101FT-EN / ES / TR, RAV-HM561FT-EN / ES / TR (Twin)

Outdoor unit : RAV-SM1104AT(8)(J)P-E / TR

	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	3000	600	3000	600
RATING	10000	3230	11200	3190

Cooling

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	9470	8520	7580	6630	5680	4740	3790	2840	2840	2840
	W	3510	2800	2270	1840	1460	1140	890	650	650	650
35	Q	10000	9000	8000	7000	6000	5000	4000	3000	3000	3000
	W	3230	2580	2090	1690	1340	1050	820	600	600	600
30	Q	10480	9430	8390	7340	6290	5240	4190	3140	3140	3140
	W	2930	2340	1900	1530	1220	950	740	540	540	540
25	Q	10880	9790	8700	7610	6530	5440	4350	3260	3260	3260
	W	2660	2130	1720	1390	1100	870	680	490	490	490
20	Q	11170	10050	8940	7820	6700	5580	4470	3350	3350	3350
	W	2410	1920	1560	1260	1000	780	610	450	450	450

Heating

Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	13410	12060	10720	9380	8040	6700	5360	4020	3590	3590
	W	3510	3010	2540	2080	1650	1300	1010	780	660	660
10	Q	12190	10970	9750	8530	7310	6090	4870	3660	3260	3260
	W	3330	2860	2410	1970	1570	1230	960	740	630	630
7	Q	11200	10080	8960	7840	6720	5600	4480	3360	3000	3000
	W	3190	2740	2310	1890	1500	1180	920	710	600	600
5	Q	8630	7760	6900	6040	5180	4310	3450	2590	2310	2310
	W	2730	2350	1980	1620	1290	1010	790	610	510	510
2	Q	8440	7590	6750	5910	5060	4220	3370	2530	2260	2260
	W	2700	2320	1960	1600	1270	1000	780	600	510	510
0	Q	8310	7480	6640	5810	4980	4150	3320	2490	2220	2220
	W	2680	2300	1940	1590	1260	990	770	600	500	500
-5	Q	8010	7210	6400	5600	4800	4000	3200	2400	2140	2140
	W	2610	2240	1890	1550	1230	970	750	580	490	490
-7	Q	7890	7100	6310	5520	4730	3940	3150	2370	2110	2110
	W	2580	2220	1870	1530	1210	950	740	570	490	490
-10	Q	7280	6550	5830	5100	4370	3640	2910	2180	1950	1950
	W	2490	2140	1810	1480	1170	920	720	550	470	470
-15	Q	5600	5040	4480	3920	3360	2800	2240	1680	1500	1500
	W	2220	1910	1610	1320	1040	820	640	490	420	420

Indoor unit : RAV-HM1401FT-EN / ES / TR, RAV-HM801FT-EN / ES/ TR (Twin)

Outdoor unit : RAV-SM1404AT(8)(J)P-E / TR

	Cooling		Heating	
	Capacity Q(W)	Power consumption W(W)	Capacity Q(W)	Power consumption W(W)
MINIMUM	3000	600	3000	600
RATING	12100	4710	12800	3950

Cooling

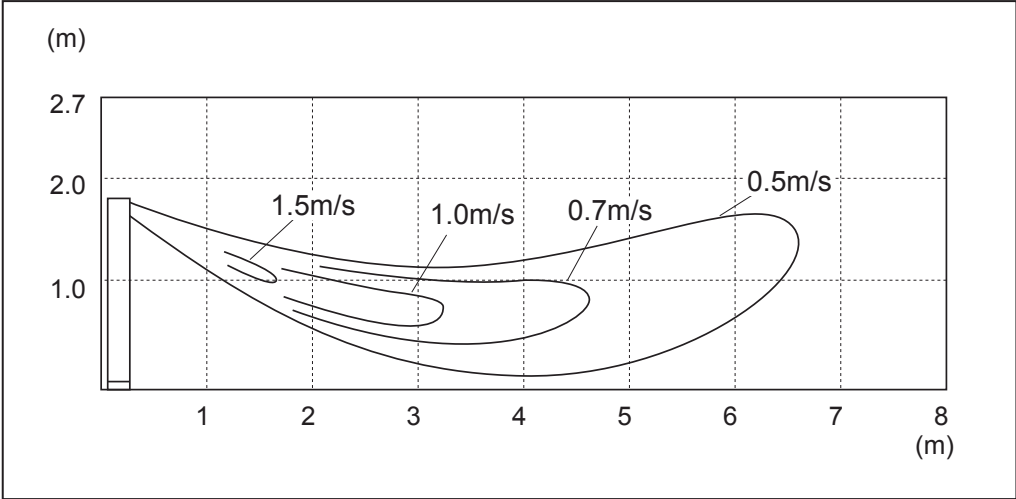
Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
40	Q	11460	10320	9170	8020	6880	5730	4590	3440	2840	2840
	W	5130	4140	3240	2490	1890	1430	1080	830	650	650
35	Q	12100	10890	9680	8470	7260	6050	4840	3630	3000	3000
	W	4710	3800	2980	2290	1740	1310	990	760	600	600
30	Q	12690	11420	10150	8880	7610	6340	5070	3810	3150	3150
	W	4270	3450	2700	2080	1580	1190	900	690	540	540
25	Q	13160	11850	10530	9210	7900	6580	5270	3950	3260	3260
	W	3890	3140	2460	1890	1440	1080	820	630	500	500
20	Q	13520	12170	10820	9460	8110	6760	5410	4060	3350	3350
	W	3510	2830	2220	1710	1300	980	740	570	450	450

Heating

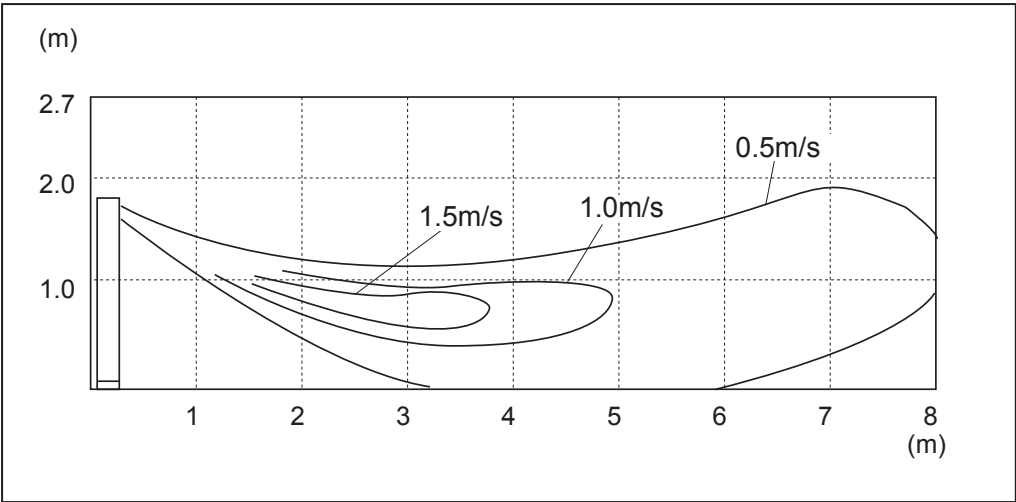
Outdoor temperature (°C)		Load(%)									
		100	90	80	70	60	50	40	30	20	10
15	Q	15330	13800	12260	10730	9200	7670	6130	4600	3590	3590
	W	4330	3650	3040	2500	2020	1590	1220	920	660	660
10	Q	13920	12530	11140	9740	8350	6960	5570	4180	3260	3260
	W	4120	3480	2890	2380	1920	1510	1160	880	630	630
7	Q	12800	11520	10240	8960	7680	6400	5120	3840	3000	3000
	W	3950	3330	2770	2280	1840	1450	1110	840	600	600
5	Q	9860	8870	7880	6900	5910	4930	3940	2960	2310	2310
	W	3390	2860	2380	1960	1580	1250	950	720	520	520
2	Q	9640	8680	7710	6750	5780	4820	3860	2890	2260	2260
	W	3350	2820	2350	1930	1560	1230	940	710	510	510
0	Q	9500	8550	7600	6650	5700	4750	3800	2850	2230	2230
	W	3310	2790	2320	1910	1540	1220	930	700	500	500
-5	Q	9160	8240	7320	6410	5490	4580	3660	2750	2150	2150
	W	3230	2720	2260	1860	1500	1190	910	690	490	490
-7	Q	9020	8120	7210	6310	5410	4510	3610	2710	2110	2110
	W	3190	2690	2240	1840	1490	1170	900	680	490	490
-10	Q	8330	7490	6660	5830	5000	4160	3330	2500	1950	1950
	W	3080	2600	2160	1780	1430	1130	870	650	470	470
-15	Q	6400	5760	5120	4480	3840	3200	2560	1920	1500	1500
	W	2750	2320	1930	1590	1280	1010	770	590	420	420

2-7. Air throw distance chart

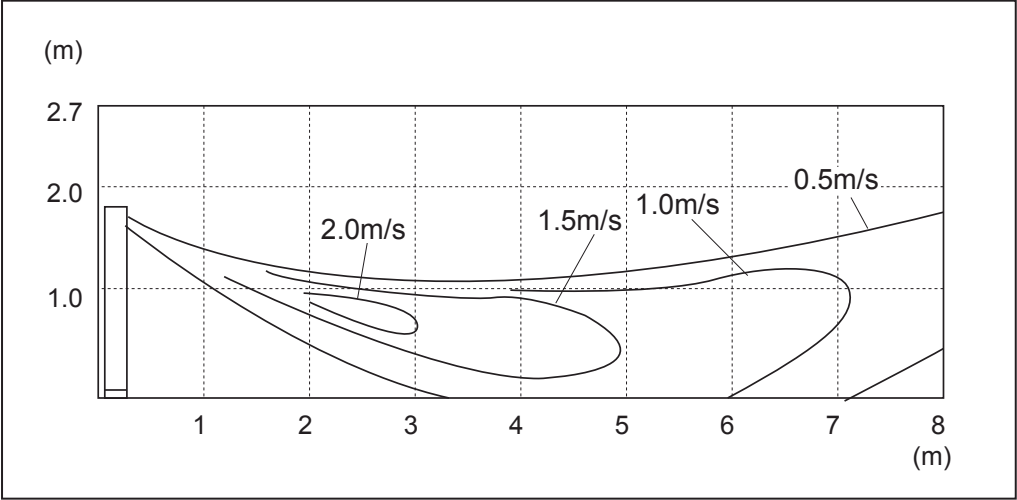
RAV-HM561FT-EN / ES / TR



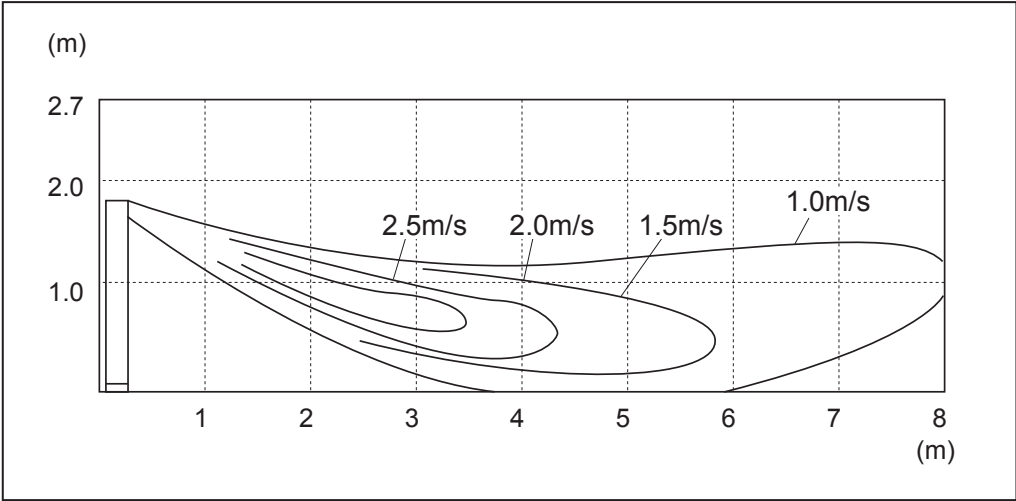
RAV-HM801FT-EN / ES / TR



RAV-HM1101FT-EN / ES / TR

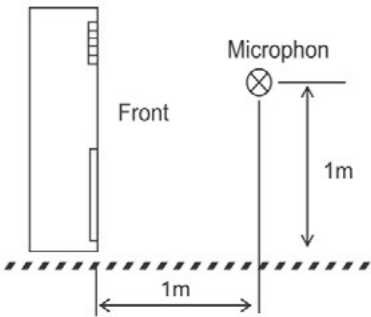


RAV-HM1401FT-EN / ES / TR



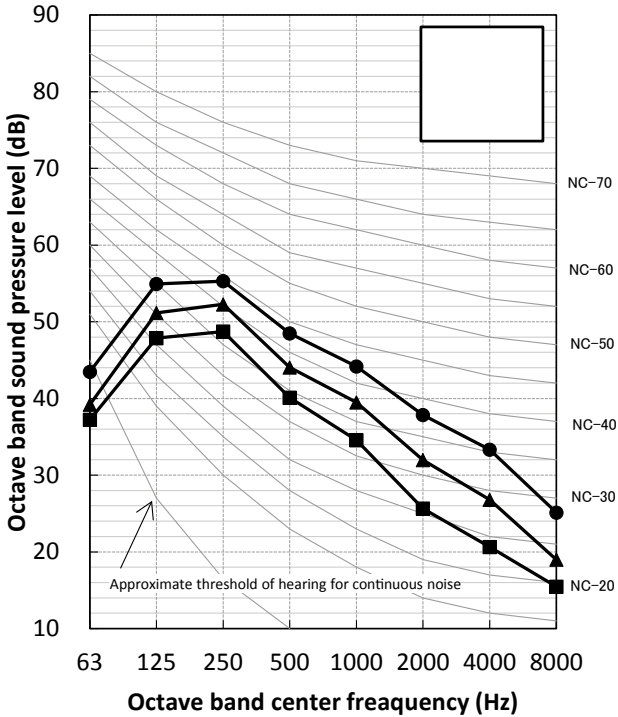
2-8. Sound data

2-8-1. Sound characteristics (NC curve)



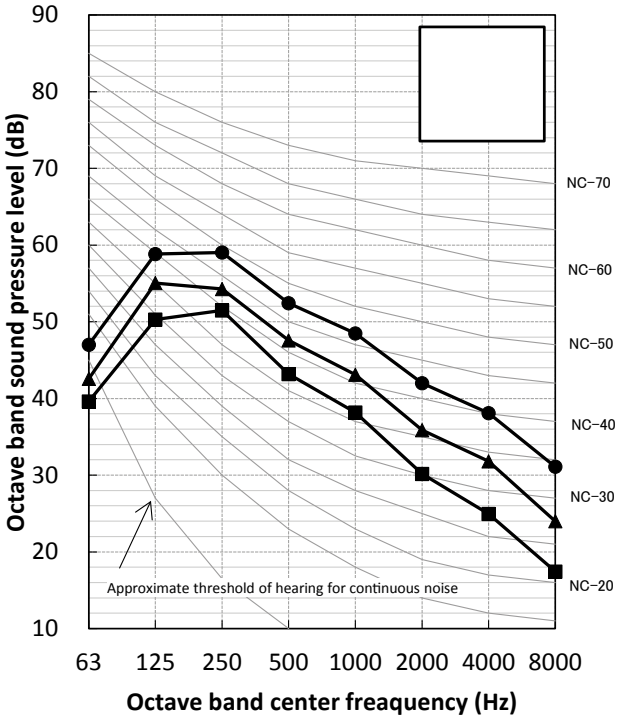
RAV-HM561FT-EN,ES,TR

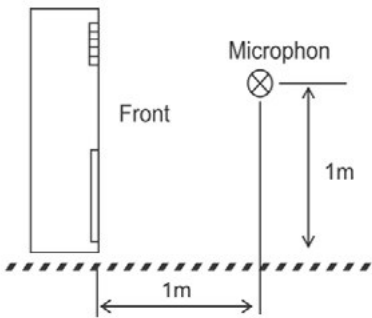
Fan tap	H	M	L
Sound pressure (dBA)	46	42	38



RAV-HM801FT-EN,ES,TR

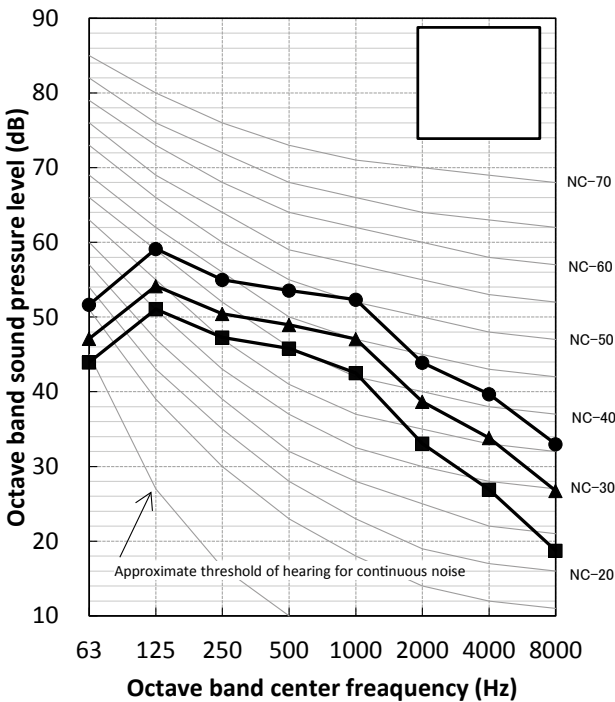
Fan tap	H	M	L
Sound pressure (dBA)	50	45	41





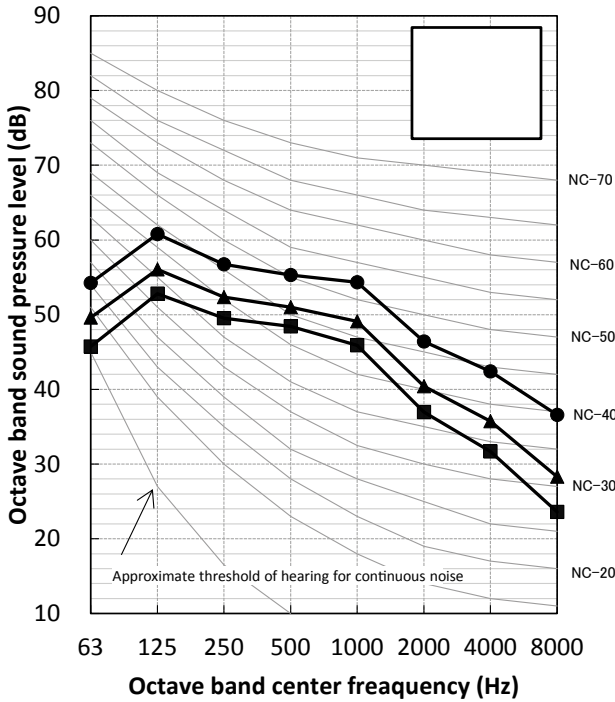
RAV-HM1101FT-EN,ES,TR

Fan tap	H	M	L
Sound pressure (dBA)	51	46	41



RAV-HM1401FT-EN,ES,TR

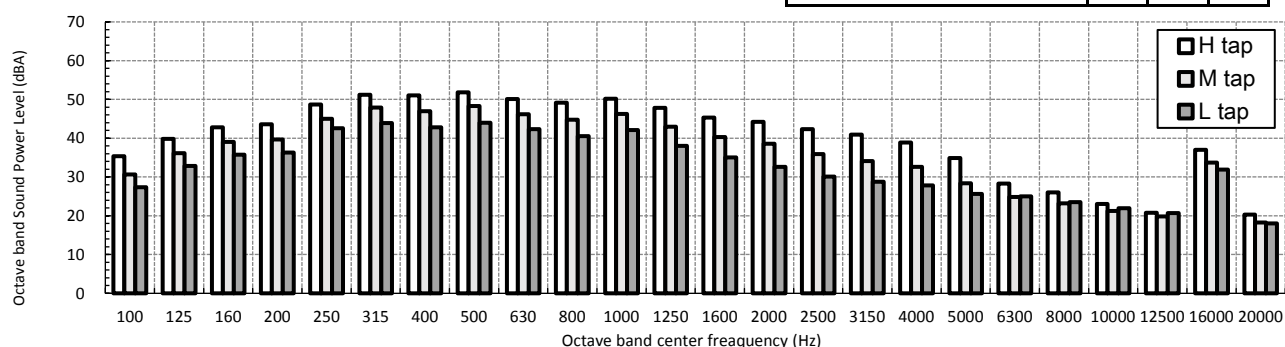
Fan tap	H	M	L
Sound pressure (dBA)	53	48	45



2-8-2. Sound power spectrum

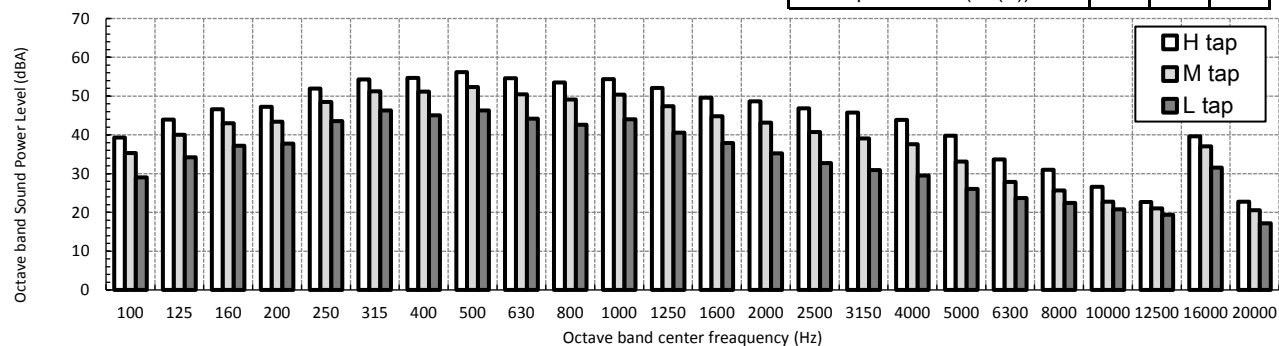
RAV-HM561FT-EN / ES / TR

FAN tap	H	M	L
Sound power level (dB(A))	60	56	52



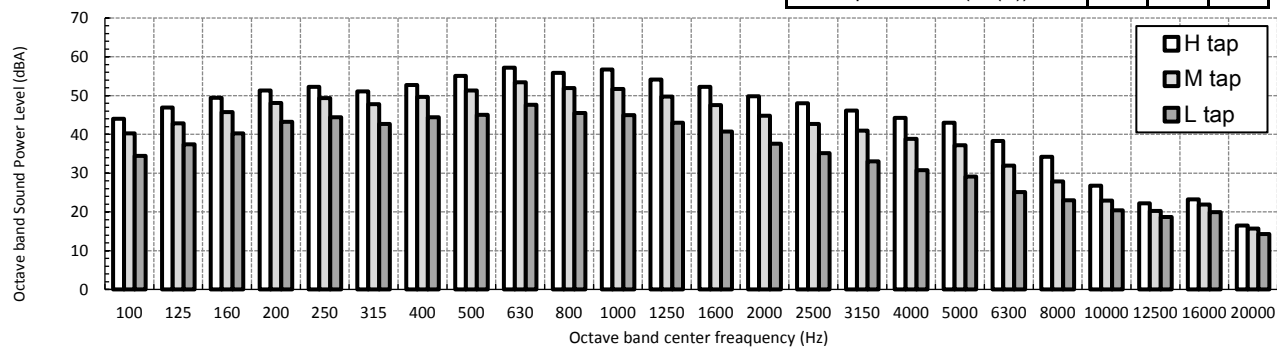
RAV-HM801FT-EN / ES / TR

FAN tap	H	M	L
Sound power level (dB(A))	64	60	54



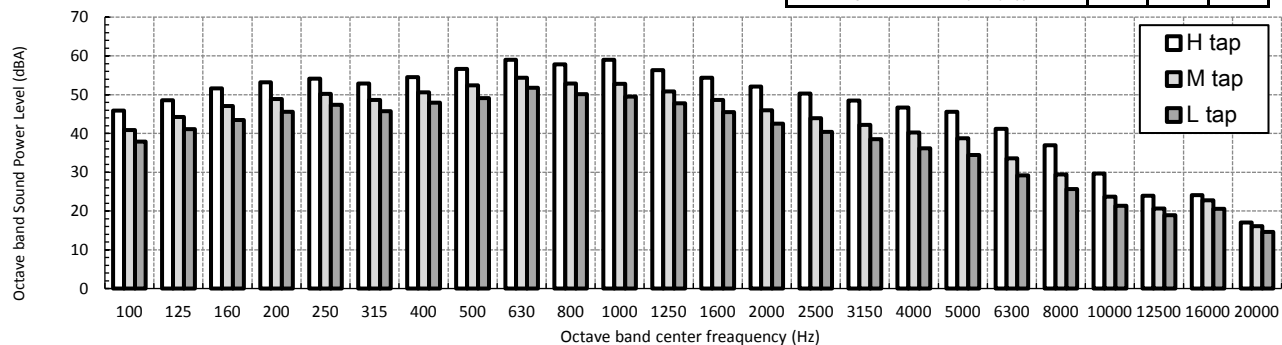
RAV-HM1101FT-EN / ES / TR

FAN tap	H	M	L
Sound power level (dB(A))	65	61	55



RAV-HM1401FT-EN / ES / TR

FAN tap	H	M	L
Sound power level (dB(A))	67	62	59



3. Outdoor Unit

- 3-1. Specifications
- 3-2. Dimension
- 3-3. Wiring diagrams
- 3-4. Refrigerant cycle diagram
- 3-5. Sound characteristics (NC curve)
- 3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

3-1. Specification

<Digital Inverter>

Model name	Outdoor unit		RAV-GM	561AT(J)P-E / TR	801AT(J)P-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	1.6
	Pole			4	4
Refrigerant charged			(kg)	0.9	1.3
Refrigerant control				Pulse motor valve	
Inter connecting pipe	Standard length (m)			7.5	7.5
	Min. length (m)			5	5
	Max. total length (m)			30	30
	Additional refrigerant charge under long piping connector			20g/m (21m to 30m)	35g/m (21m to 30m)
	Height difference	Outdoor lower (m)		30	30
		Outdoor higher (m)		30	30
Outer dimension	Height (mm)			550	550
	Width (mm)			780	780
	Depth (mm)			290	290
Appearance				Silky shade (Muncel 1Y8.5/0.5)	
Total weight			(kg)	40	43
Heat exchanger				Finned tube	
Fan unit	Fan			Propeller fan	
	Standard air flow high (m3/min.)			40	45
	Motor (W)			43	43
Connecting pipe	Gas side (mm)			12.7	15.9
	Liquid side (mm)			6.4	9.5
Sound pressure level			Cooling/Heating (dB·A)	46/48	48/52
Sound power level			Cooling/Heating (dB·A)	63/65	65/69
Outside air temperature, Cooling			°C (Dry bulb temp.)	46 to -15	
Outside air temperature, Heating			°C (Wet bulb temp.)	15 to -15	

<Digital Inverter>

Model name	Outdoor unit		RAV-GM	1101AT(J)P-E / TR	1401AT(J)P-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)		3.0	3.0	
	Pole		4	4	
Refrigerant charged			(kg)	2.1	2.1
Refrigerant control				Pulse motor valve	
Inter connecting pipe	Standard length		(m)	7.5	7.5
	Min. length		(m)	5	5
	Max. total length		(m)	50	50
	Additional refrigerant charge under long piping connector			35g/m (31m to 50m)	35g/m (31m to 50m)
	Height difference	Outdoor lower	(m)	30	30
		Outdoor higher	(m)	30	30
Outer dimension	Height		(mm)	890	890
	Width		(mm)	900	900
	Depth		(mm)	320	320
Appearance				Silky shade (Muncel 1Y8.5/0.5)	
Total weight			(kg)	68	68
Heat exchanger				Finned tube	
Fan unit	Fan		Propeller fan		
	Standard air flow high		(m3/min.)	68	70
	Motor		(W)	100	100
Connecting pipe	Gas side		(mm)	15.9	15.9
	Liquid side		(mm)	9.5	9.5
Sound pressure level			Cooling/Heating (dB·A)	54/57	55/57
Sound power level			Cooling/Heating (dB·A)	70/74	70/74
Outside air temperature, Cooling			°C (Dry bulb temp.)	46 to -15	
Outside air temperature, Heating			°C (Wet bulb temp.)	15 to -15	

<Digital Inverter>

Model name	Outdoor unit		RAV-GM	1101AT8(J)P-E / TR	1401AT8(J)P-E / TR
Power supply				3 phase 380-415V, 50Hz 3 phase 380V, 60Hz (Power exclusive to outdoor is required.)	
Compressor	Type			Hermetic compressor	
	Motor		(kW)	2.5	3.0
	Pole			4	4
Refrigerant charged			(kg)	2.1	2.1
Refrigerant control				Pulse motor valve	
Inter connecting pipe	Standard length		(m)	7.5	7.5
	Min. length		(m)	5	5
	Max. total length		(m)	50	50
	Additional refrigerant charge under long piping connector			35g/m (31m to 50m)	35g/m (31m to 50m)
	Height difference	Outdoor lower	(m)	30	30
		Outdoor higher	(m)	30	30
Outer dimension	Height		(mm)	890	890
	Width		(mm)	900	900
	Depth		(mm)	320	320
Appearance				Silky shade (Muncel 1Y8.5/0.5)	
Total weight			(kg)	68	68
Heat exchanger				Finned tube	
Fan unit	Fan			Propeller fan	
	Standard air flow high		(m3/min.)	68	70
	Motor		(W)	100	100
Connecting pipe	Gas side		(mm)	15.9	15.9
	Liquid side		(mm)	9.5	9.5
Sound pressure level			Cooling/Heating (dB·A)	54/57	55/57
Sound power level			Cooling/Heating (dB·A)	70/74	70/74
Outside air temperature, Cooling			°C (Dry bulb temp.)	46 to -15	
Outside air temperature, Heating			°C (Wet bulb temp.)	15 to -15	

<Digital Inverter>

Model name	Outdoor unit		RAV-SM	564AT(J)P-E / TR	804AT(J)P-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	1.6
	Pole			4	4
Refrigerant charged			(kg)	1.1	1.7
Refrigerant control				Pulse motor valve	
Inter connecting pipe	Standard length (m)			7.5	7.5
	Min. length (m)			5	5
	Max. total length (m)			30	30
	Additional refrigerant charge under long piping connector			20g/m (21m to 30m)	40g/m (21m to 30m)
	Height difference	Outdoor lower (m)		30	30
		Outdoor higher (m)		30	30
Outer dimension	Height (mm)			550	550
	Width (mm)			780	780
	Depth (mm)			290	290
Appearance				Silky shade (Muncel 1Y8.5/0.5)	
Total weight			(kg)	40	44
Heat exchanger				Finned tube	
Fan unit	Fan			Propeller fan	
	Standard air flow high (m3/min.)			40	45
	Motor (W)			43	43
Connecting pipe	Gas side (mm)			12.7	15.9
	Liquid side (mm)			6.4	9.5
Sound pressure level			Cooling/Heating (dB·A)	46/48	48/52
Sound power level			Cooling/Heating (dB·A)	63/65	65/69
Outside air temperature, Cooling			°C (Dry bulb temp.)	46 to -15	
Outside air temperature, Heating			°C (Wet bulb temp.)	15 to -15	

<Digital Inverter>

Model name	Outdoor unit		RAV-SM	1104AT(J)P-E / TR	1404AT(J)P-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)			2.5	3.0
	Pole			4	4
Refrigerant charged (kg)				2.8	2.8
Refrigerant control				Pulse motor valve	
Inter connecting pipe	Standard length (m)			7.5	7.5
	Min. length (m)			5	5
	Max. total length (m)			50	50
	Additional refrigerant charge under long piping connector			40g/m (31m to 50m)	40g/m (31m to 50m)
	Height difference	Outdoor lower (m)		30	30
		Outdoor higher (m)		30	30
Outer dimension	Height (mm)			890	890
	Width (mm)			900	900
	Depth (mm)			320	320
Appearance				Silky shade (Muncel 1Y8.5/0.5)	
Total weight (kg)				68	68
Heat exchanger				Finned tube	
Fan unit	Fan			Propeller fan	
	Standard air flow high (m3/min.)			70	70
	Motor (W)			100	100
Connecting pipe	Gas side (mm)			15.9	15.9
	Liquid side (mm)			9.5	9.5
Sound pressure level Cooling/Heating (dB·A)				53/54	54/55
Sound power level Cooling/Heating (dB·A)				70/71	70/71
Outside air temperature, Cooling °C (Dry bulb temp.)				46 to -15	
Outside air temperature, Heating °C (Wet bulb temp.)				15 to -15	

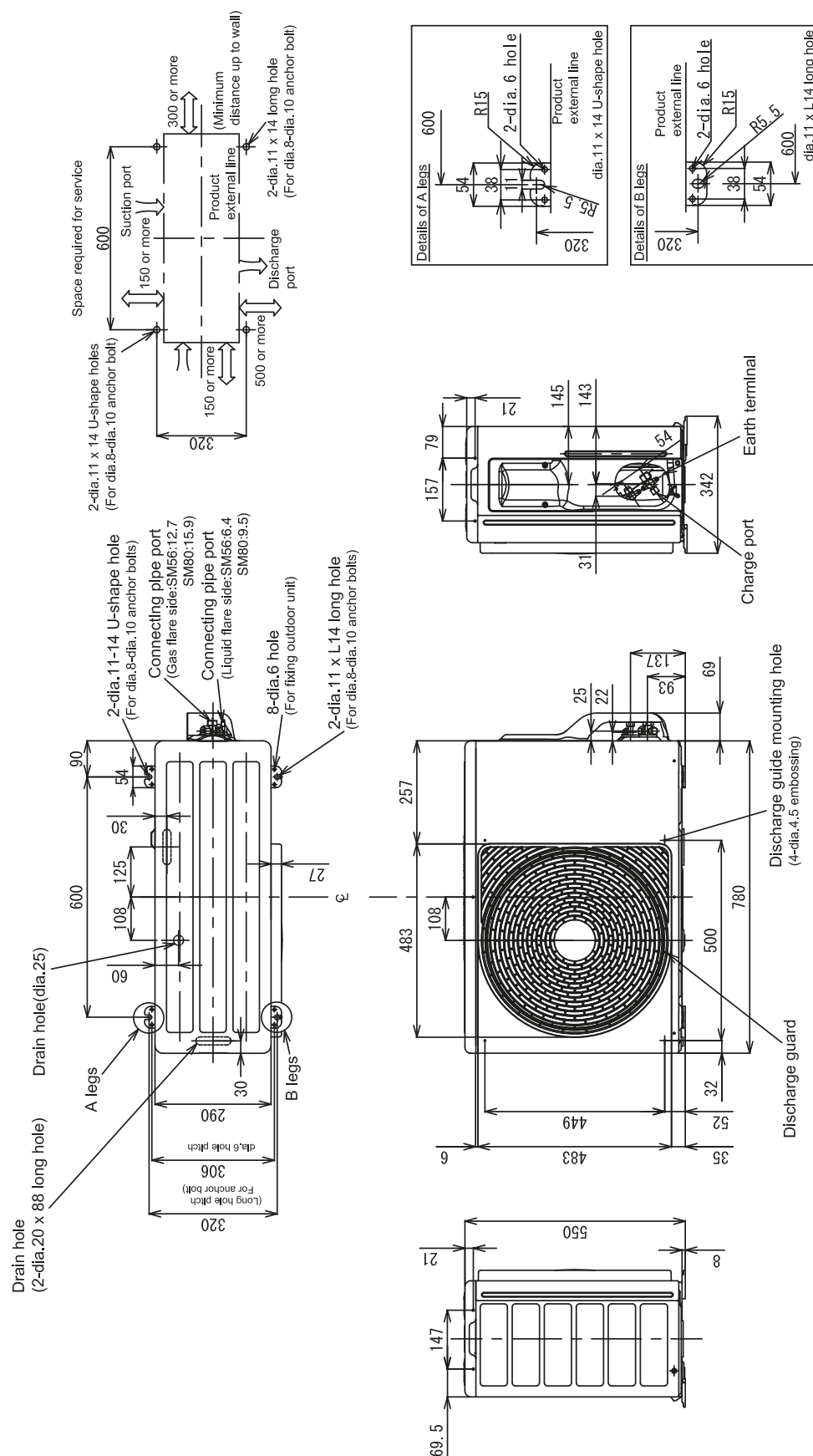
<Digital Inverter>

Model name	Outdoor unit		RAV-SM	1104AT8(J)P-E / TR	1404AT8(J)P-E / TR
Power supply				3 phase 380-415V, 50Hz 3 phase 380V, 60Hz (Power exclusive to outdoor is required.)	
Compressor	Type			Hermetic compressor	
	Motor (kW)			2.5	3.0
	Pole			4	4
Refrigerant charged (kg)				2.8	2.8
Refrigerant control				Pulse motor valve	
Inter connecting pipe	Standard length (m)			7.5	7.5
	Min. length (m)			5	5
	Max. total length (m)			50	50
	Additional refrigerant charge under long piping connector			40g/m (31m to 50m)	40g/m (31m to 50m)
	Height difference	Outdoor lower (m)		30	30
		Outdoor higher (m)		30	30
Outer dimension	Height (mm)			890	890
	Width (mm)			900	900
	Depth (mm)			320	320
Appearance				Silky shade (Muncel 1Y8.5/0.5)	
Total weight (kg)				69	69
Heat exchanger				Finned tube	
Fan unit	Fan			Propeller fan	
	Standard air flow high (m3/min.)			68	70
	Motor (W)			100	100
Connecting pipe	Gas side (mm)			15.9	15.9
	Liquid side (mm)			9.5	9.5
Sound pressure level Cooling/Heating (dB·A)				53/54	54/55
Sound power level Cooling/Heating (dB·A)				70/71	70/71
Outside air temperature, Cooling °C (Dry bulb temp.)				46 to -15	
Outside air temperature, Heating °C (Wet bulb temp.)				15 to -15	

3-2. Dimension

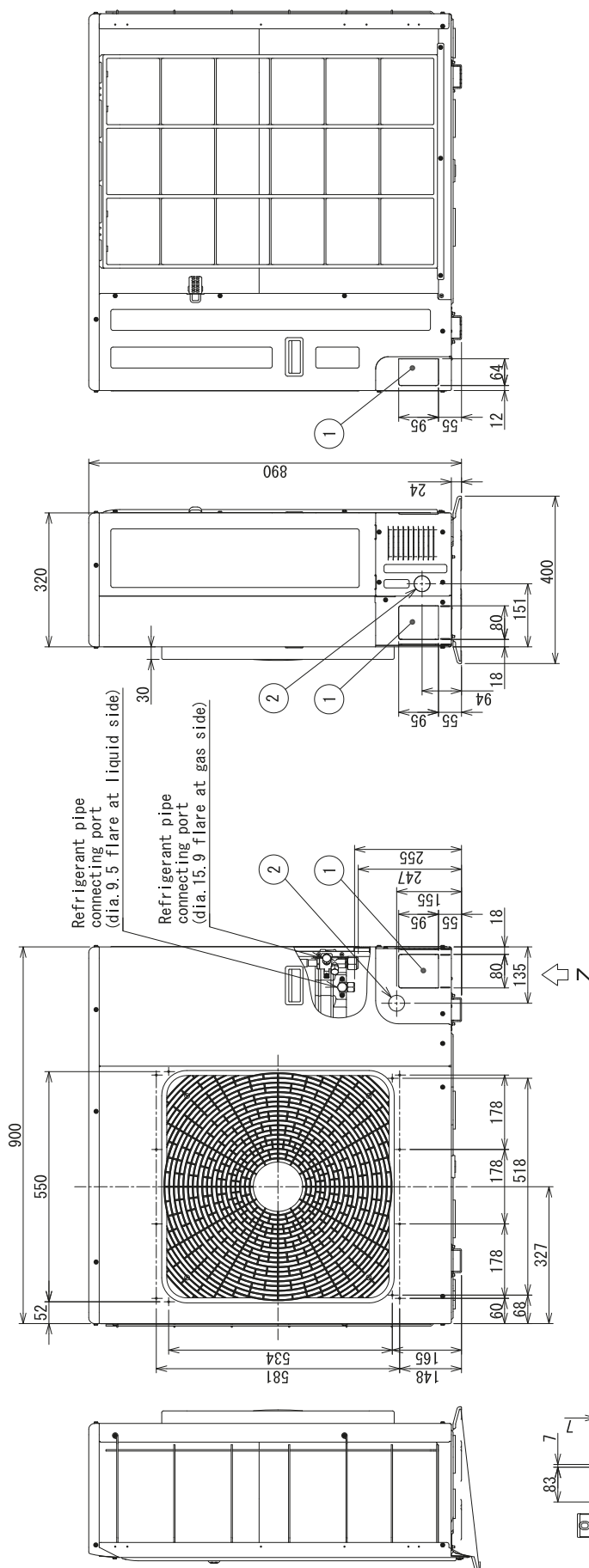
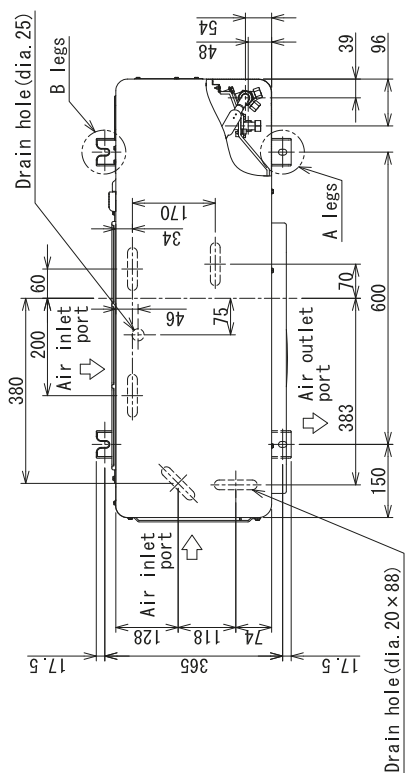
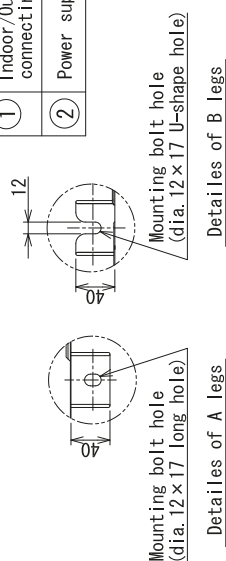
RAV-GM561AT(J)P-E / TR, RAV-GM801AT(J)P-E / TR

RAV-SM564AT(J)P-E / TR, RAV-SM804AT(J)P-E / TR



(Unit:mm)

	Name	Note
①	Refrigerant piping hole Indoor/Outdoor Unit connecting wire inlet hole	—
②	Power supply inlet hole	dia. 38 Knockout hole

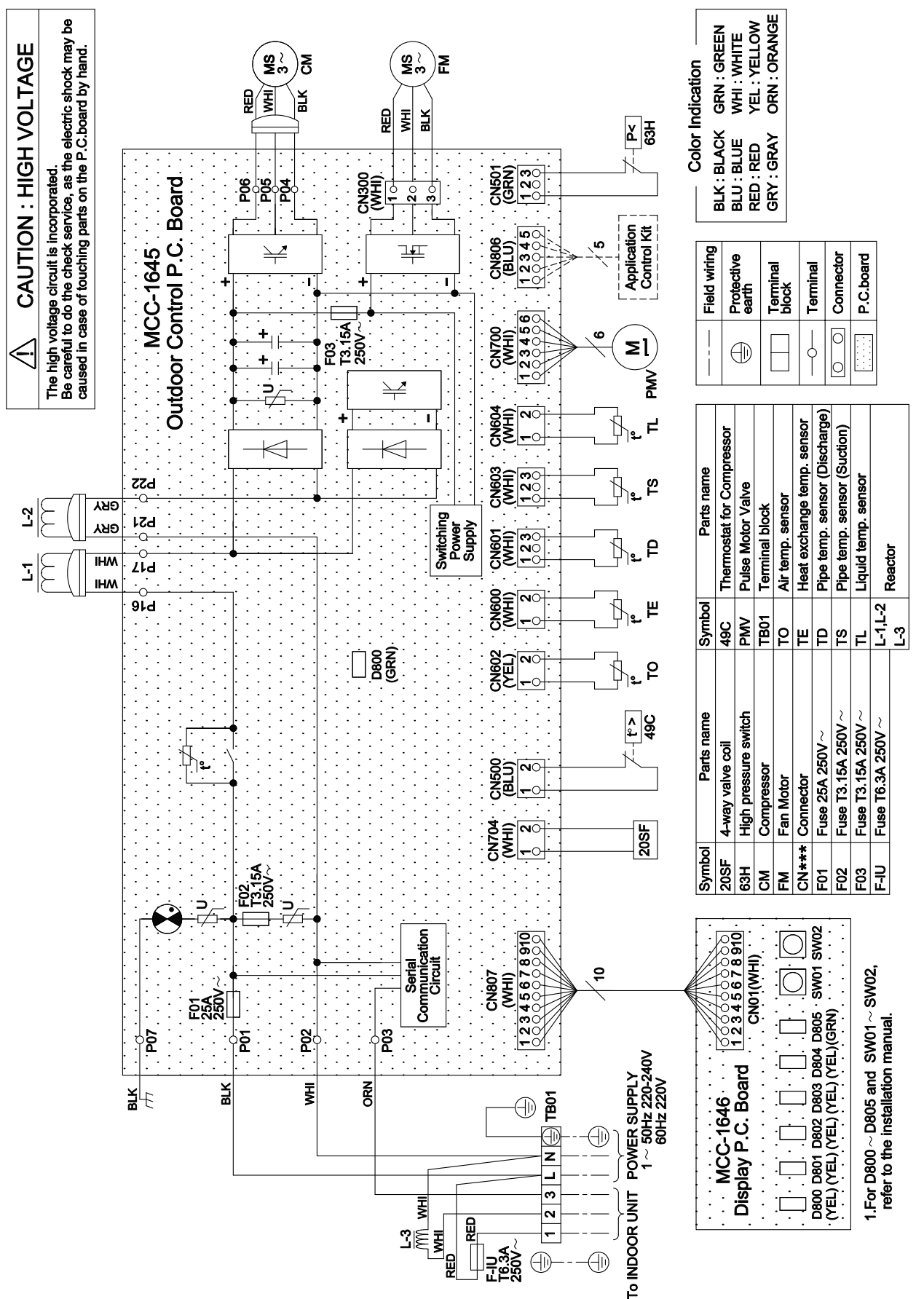


(Unit:mm)

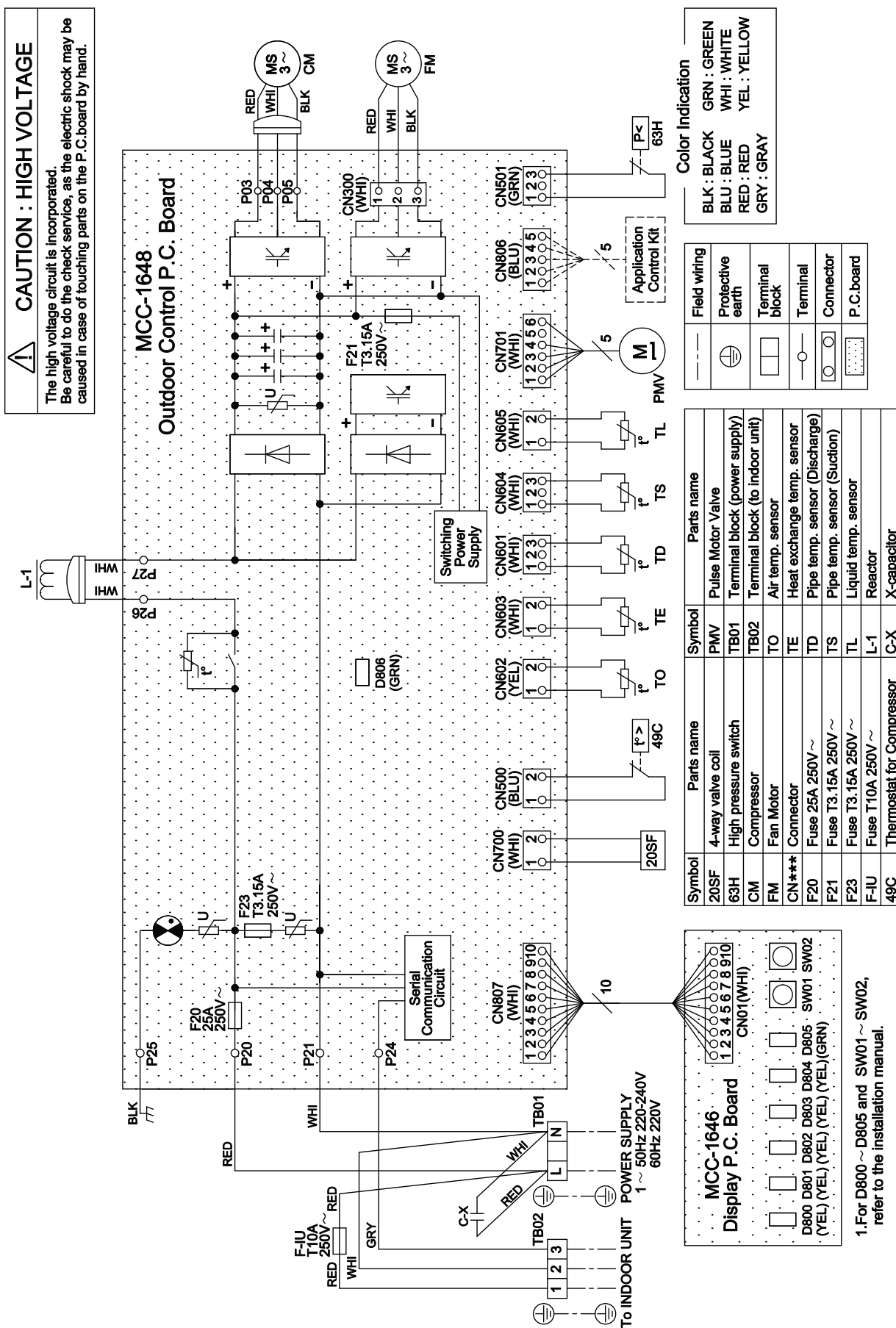
Z views

3-3. Wiring diagrams

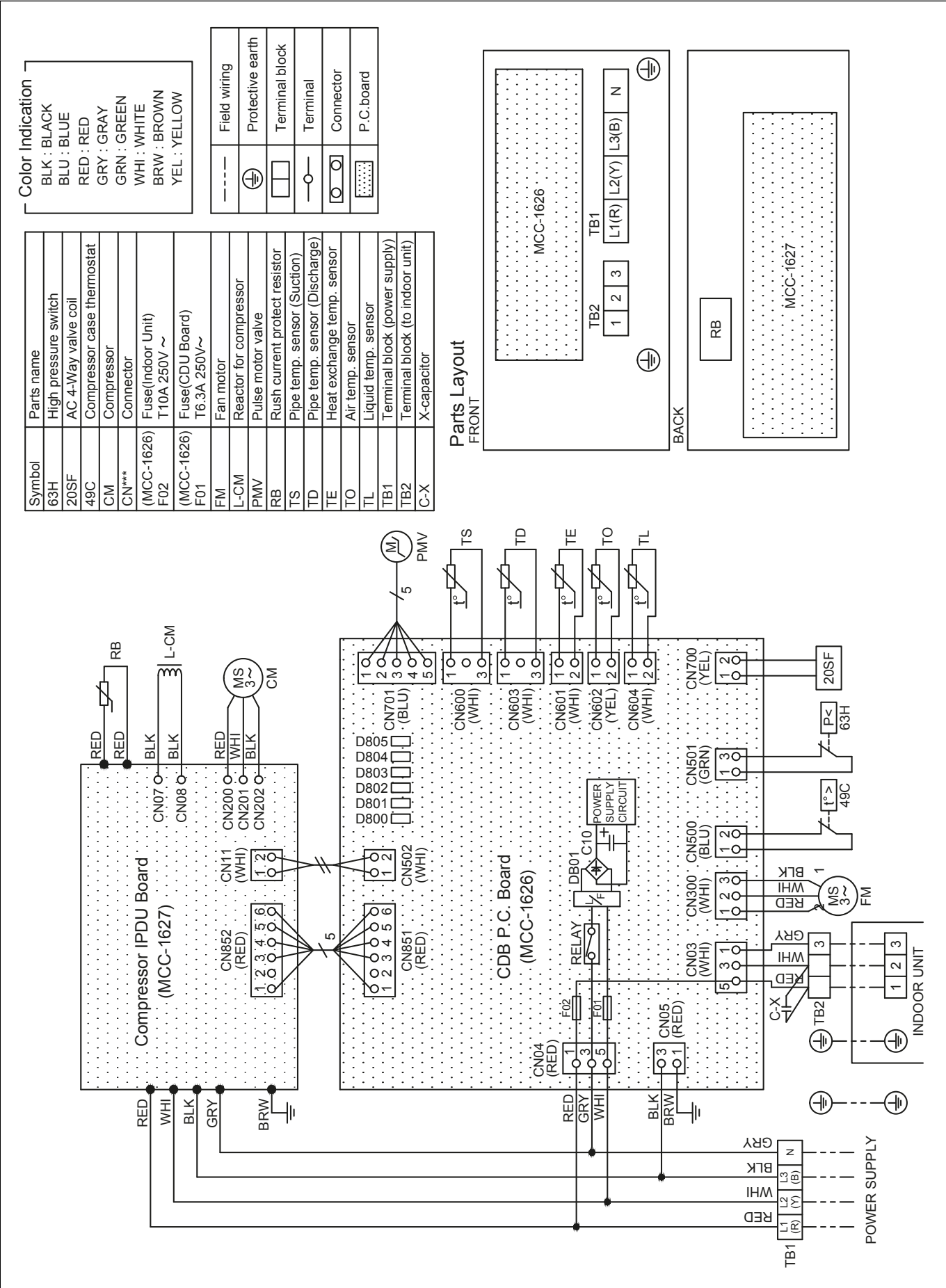
RAV-GM561AT(J)P-E / TR, RAV-GM801AT(J)P-E / TR
RAV-SM564AT(J)P-E / TR, RAV-SM804AT(J)P-E / TR



RAV-GM1101AT(J)P-E / TR, RAV-GM1401AT(J)P-E / TR
 RAV-SM1104AT(J)P-E / TR, RAV-SM1404AT(J)P-E / TR

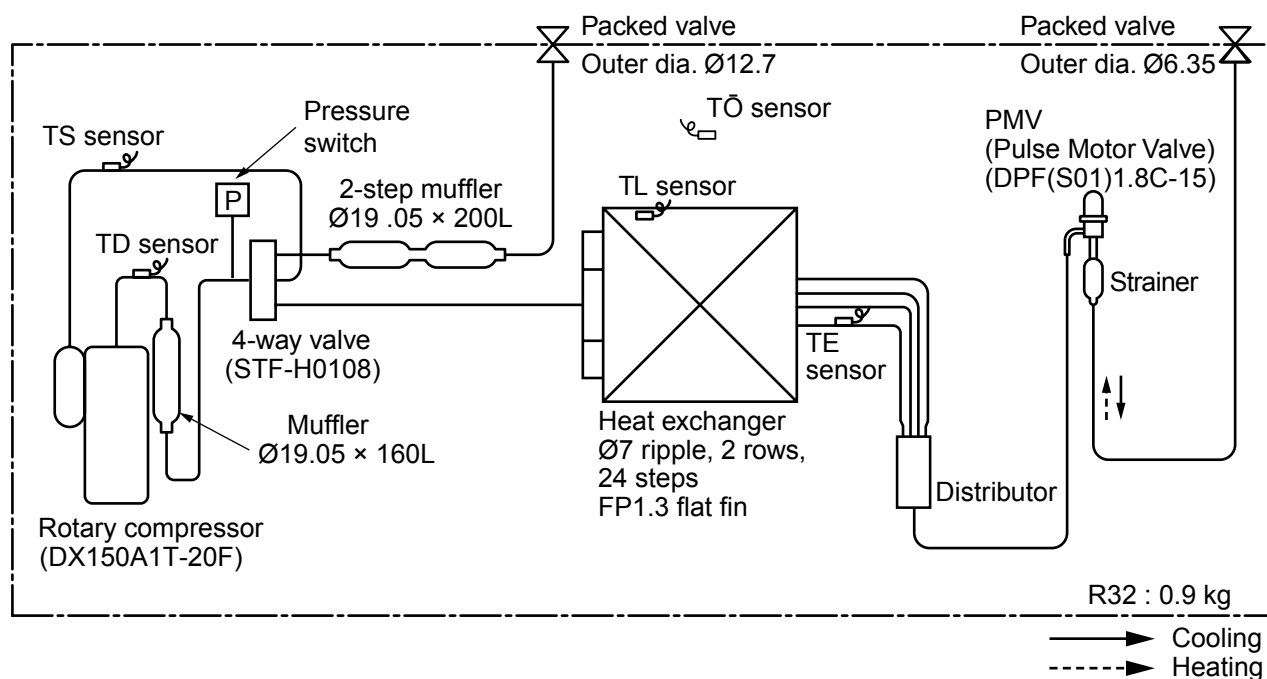


RAV-GM1101AT8(J)P-E / TR, RAV-GM1401AT8(J)P-E / TR
RAV-SM1104AT8(J)P-E / TR, RAV-SM1404AT8(J)P-E / TR



3-4. Refrigerant cycle diagrams

RAV-GM561ATP-E / TR

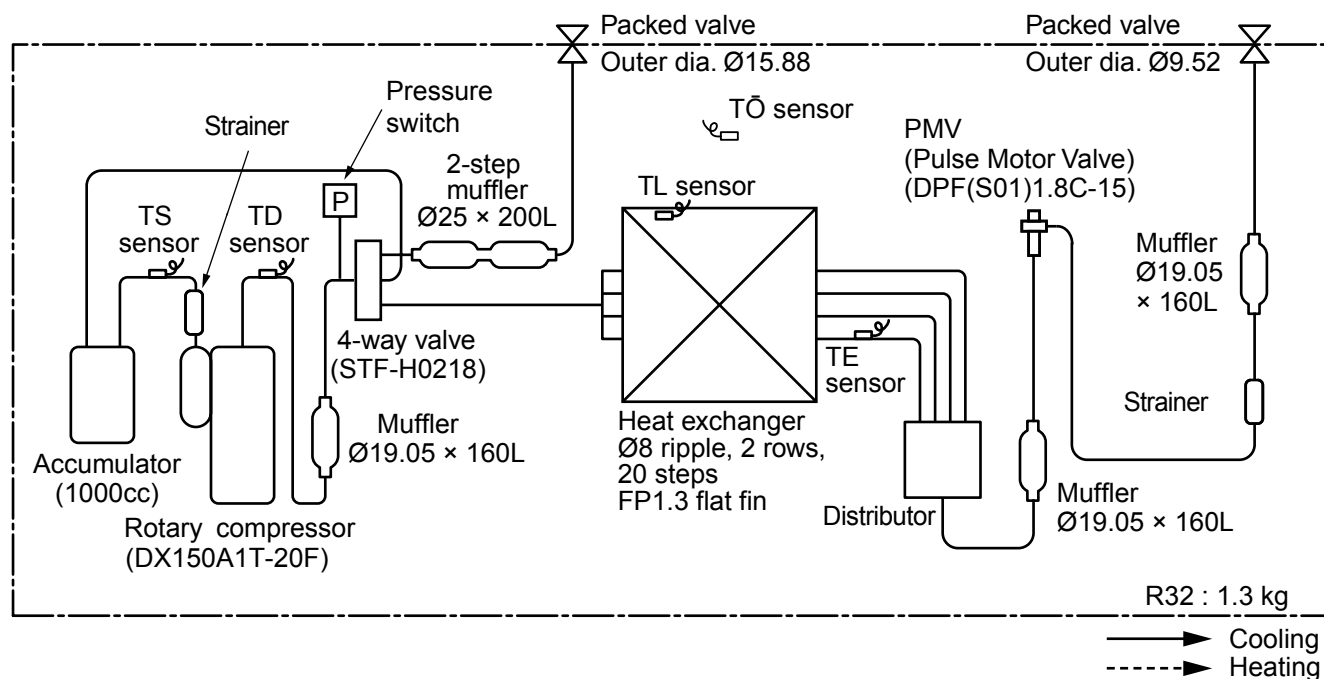


		Pressure				Pipe surface temperature (°C)				Compressor revolutions per second (rps) *	Indoor fan	Indoor/Outdoor temp. conditions (DB/WB) (°C)	
		(MPa)		(kg/cm²G)		Discharge (TD)	Suction (TS)	Indoor heat exchanger (TC)	Outdoor heat exchanger (TE)			Indoor	Outdoor
		Pd	Ps	Pd	Ps								
Cooling	Standard	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.

RAV-GM801ATP-E / TR

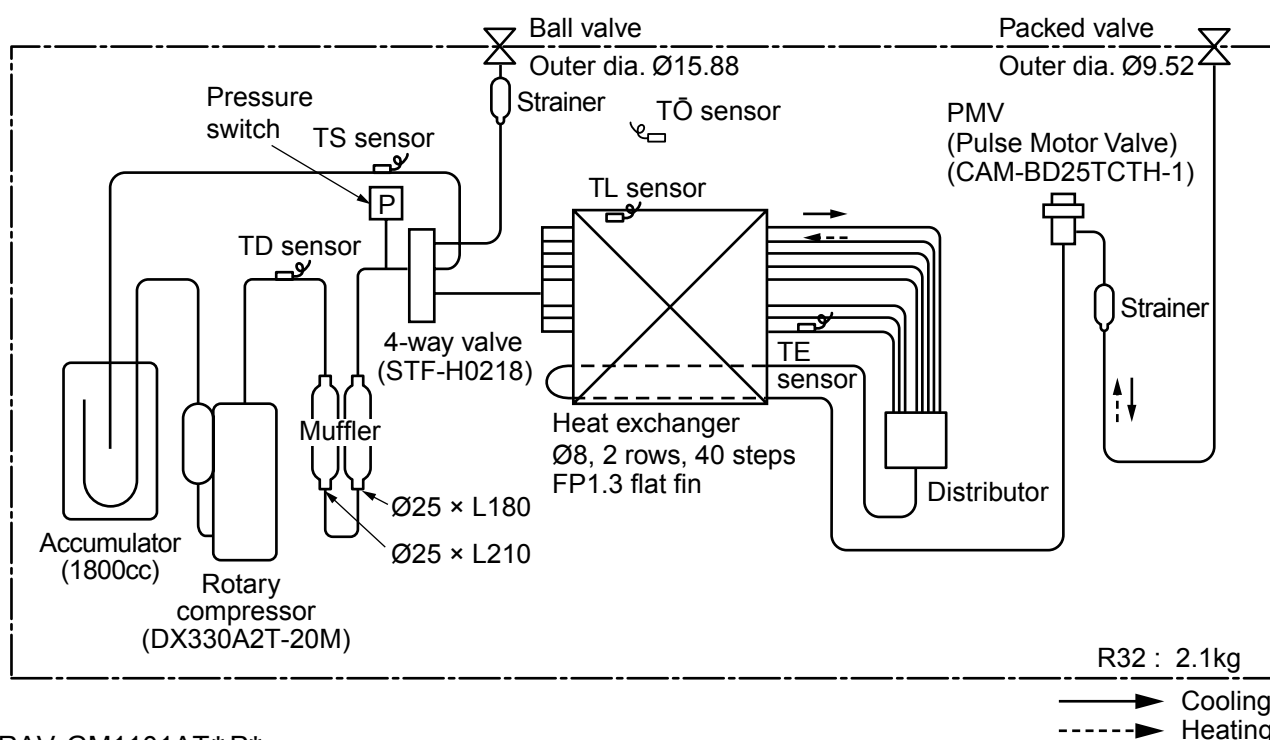


		Pressure				Pipe surface temperature (°C)				Compressor revolutions per second * (rps)	Indoor fan	Indoor/Outdoor temp. conditions (DB/WB) (°C)	
		(MPa)		(kg/cm²G)		Discharge (TD)	Suction (TS)	Indoor heat exchanger (TC)	Outdoor heat exchanger (TE)			Indoor	Outdoor
		Pd	Ps	Pd	Ps								
Cooling	Standard	3.27	0.89	33.3	9.1	95	11	10	41	80	HIGH	27/19	35/-
	Overload	3.63	1.26	37.0	10.2	80	19	18	51	53	HIGH	32/24	46/-
	Low load	1.96	0.85	20.0	8.7	53	4	3	16	72	HIGH	18/15.5	-5/-
Heating	Standard	2.61	0.64	26.6	6.5	88	3	41	1	90	HIGH	20/-	7/6
	Overload	3.24	0.94	33.0	9.6	84	13	53	11	76	HIGH	30/-	24/18
	Low load	1.76	0.20	17.9	2.0	90	-21	31	-20	120	HIGH	15/-	-15/-

* 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.

RAV-GM1101ATP-E / TR, RAV-GM1401ATP-E / TR



RAV-GM1101AT*P*

		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.10	0.94	31.6	9.6	90	12	11	39	47	HIGH	27/19	35/-
	Overload	3.60	1.13	36.7	11.5	78	16	18	54	50	HIGH	32/24	46/-
	Low load	2.03	0.82	20.7	8.4	55	11	8	4	30	LOW	18/15.5	-15/-
Heating	Standard	2.57	0.65	26.2	6.6	90	1	41	1	58	HIGH	20/-	7/6
	Overload	3.13	1.12	31.9	11.4	76	19	52	16	30	LOW	30/-	24/18
	Low load	2.15	0.24	21.9	2.4	82	-19	34	-17	79	HIGH	15/-	-15/-

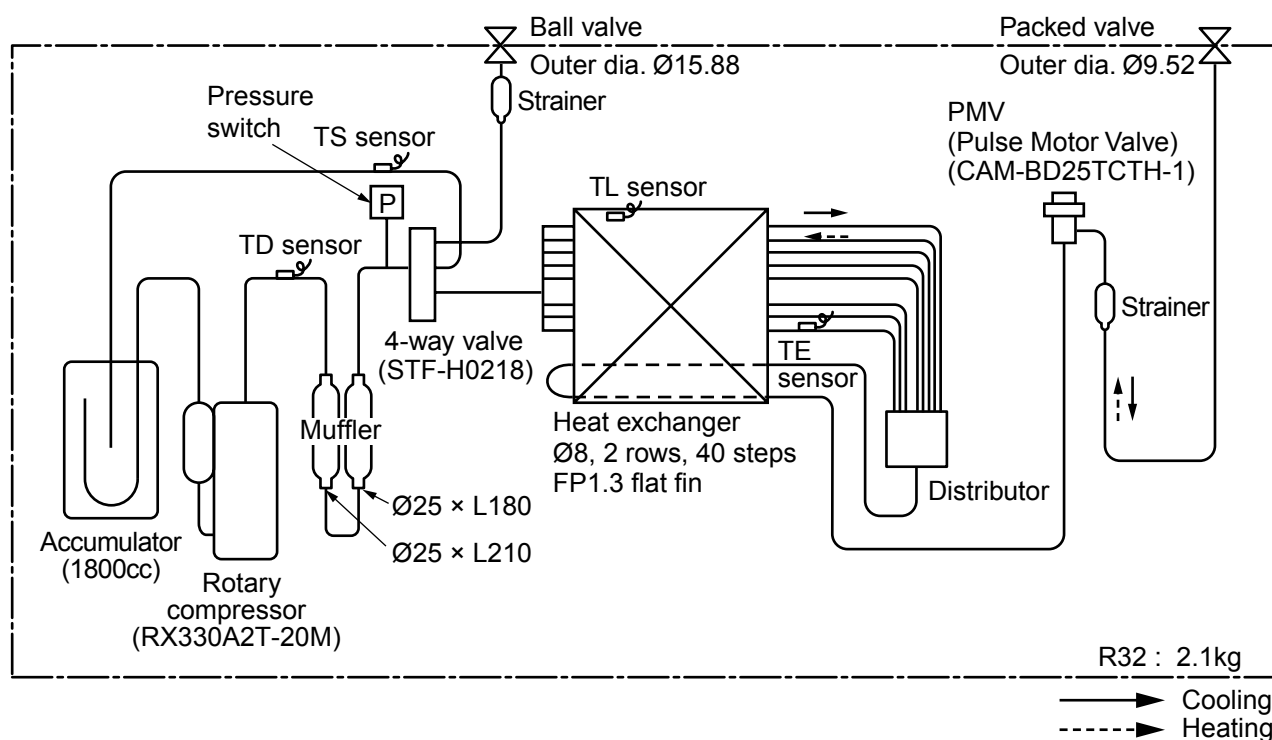
RAV-GM1401AT*P*

		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.37	0.85	34.4	8.7	92	9	10	44	68	HIGH	27/19	35/-
	Overload	3.65	1.07	37.2	10.9	80	16	18	54	53	HIGH	32/24	46/-
	Low load	2.05	0.83	20.9	8.5	56	10	8	4	30	LOW	18/15.5	-15/-
Heating	Standard	2.79	0.63	28.4	6.4	90	1	42	1	68	HIGH	20/-	7/6
	Overload	3.10	1.12	30.6	11.4	75	19	51	16	30	LOW	30/-	24/18
	Low load	2.30	0.23	23.5	2.3	86	-19	38	-17	99	HIGH	15/-	-15/-

* 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.

RAV-GM1101AT8P-E / TR, RAV-GM1401AT8P-E / TR



RAV-GM1101AT8* P*

		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.01	0.85	31.6	9.6	80	12	11	41	47	HIGH	27/19	35/-
	Overload	3.72	1.10	36.7	11.5	86	16	18	54	53	HIGH	32/24	46/-
	Low load	2.03	0.82	20.7	8.4	40	11	8	4	20	LOW	18/15.5	-15/-
Heating	Standard	2.51	0.63	26.2	6.6	75	1	41	1	58	HIGH	20/-	7/6
	Overload	3.37	1.01	31.9	11.4	82	17	55	14	40	LOW	30/-	24/18
	Low load	2.15	0.24	21.9	2.4	77	-19	55	-17	80	HIGH	15/-	-15/-

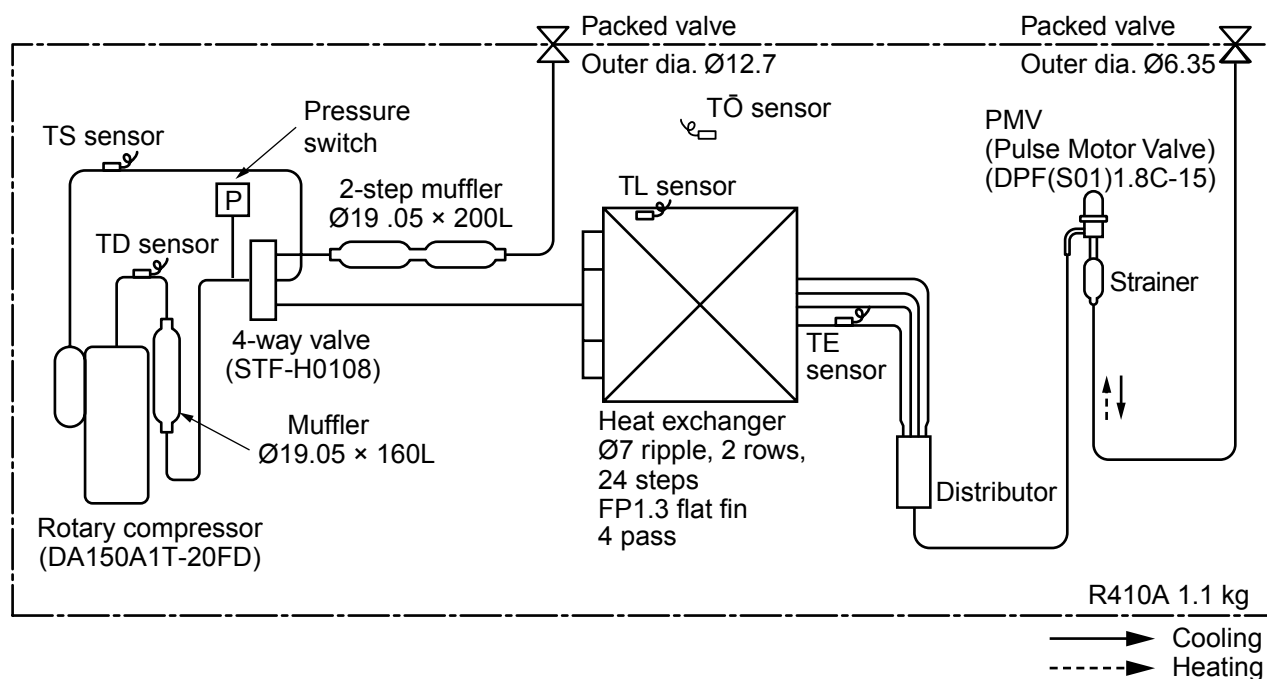
RAV-GM1401T8* P*

		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.24	0.73	34.4	8.7	92	8	10	45	68	HIGH	27/19	35/-
	Overload	3.72	1.10	37.2	10.9	86	16	18	54	53	HIGH	32/24	46/-
	Low load	2.05	0.83	20.9	8.5	41	10	8	4	20	LOW	18/15.5	-15/-
Heating	Standard	2.57	0.60	28.4	6.4	80	1	42	1	68	HIGH	20/-	7/6
	Overload	3.38	0.99	30.6	11.4	83	17	54	13	40	LOW	30/-	24/18
	Low load	2.30	0.23	23.5	2.3	78	-17	38	-17	92	HIGH	15/-	-15/-

* 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.

RAV-SM564ATP-E / TR

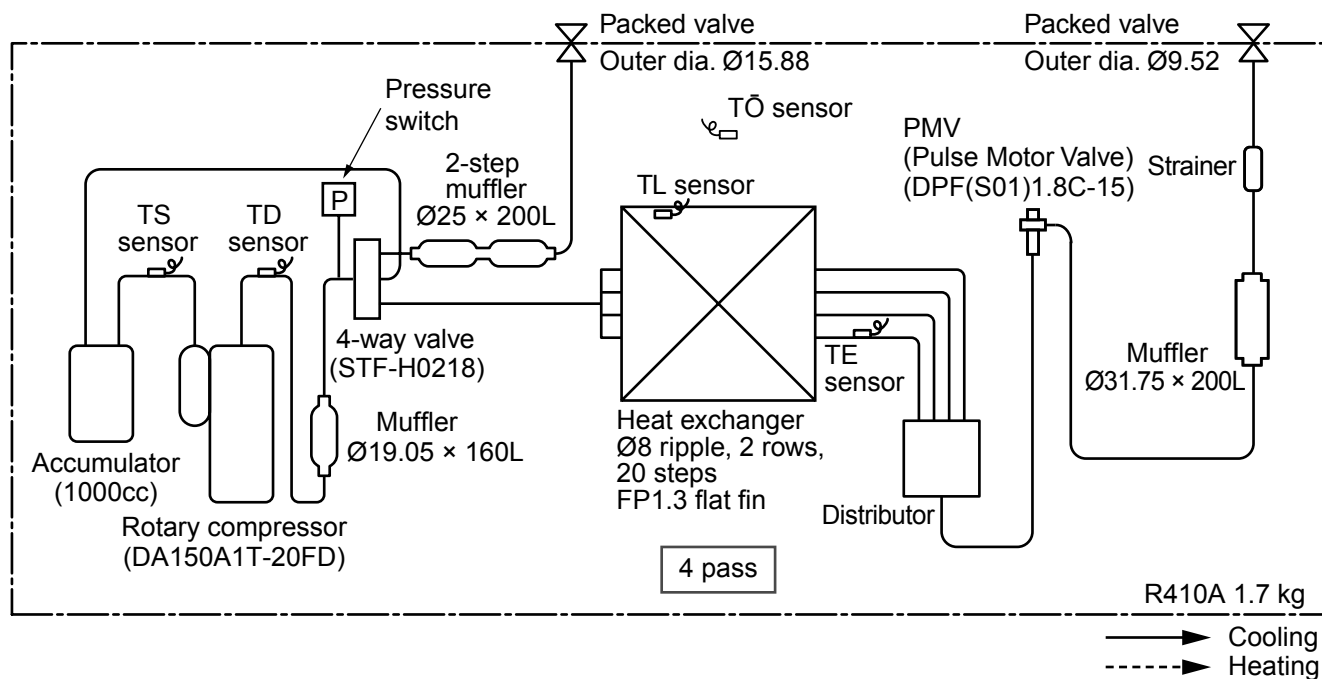


		Pressure				Pipe surface temperature (°C)				Compressor revolutions per second * (rps)	Indoor fan	Indoor/Outdoor temp. conditions (DB/WB) (°C)	
		(MPa)		(kg/cm²G)		Discharge (TD)	Suction (TS)	Indoor heat exchanger (TC)	Outdoor heat exchanger (TE)			Indoor	Outdoor
		Pd	Ps	Pd	Ps								
Cooling	Standard	3.11	0.96	31.7	9.8	80	17	13	42	63	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	68	5	37	1	66	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.

RAV-SM804ATP-E / TR

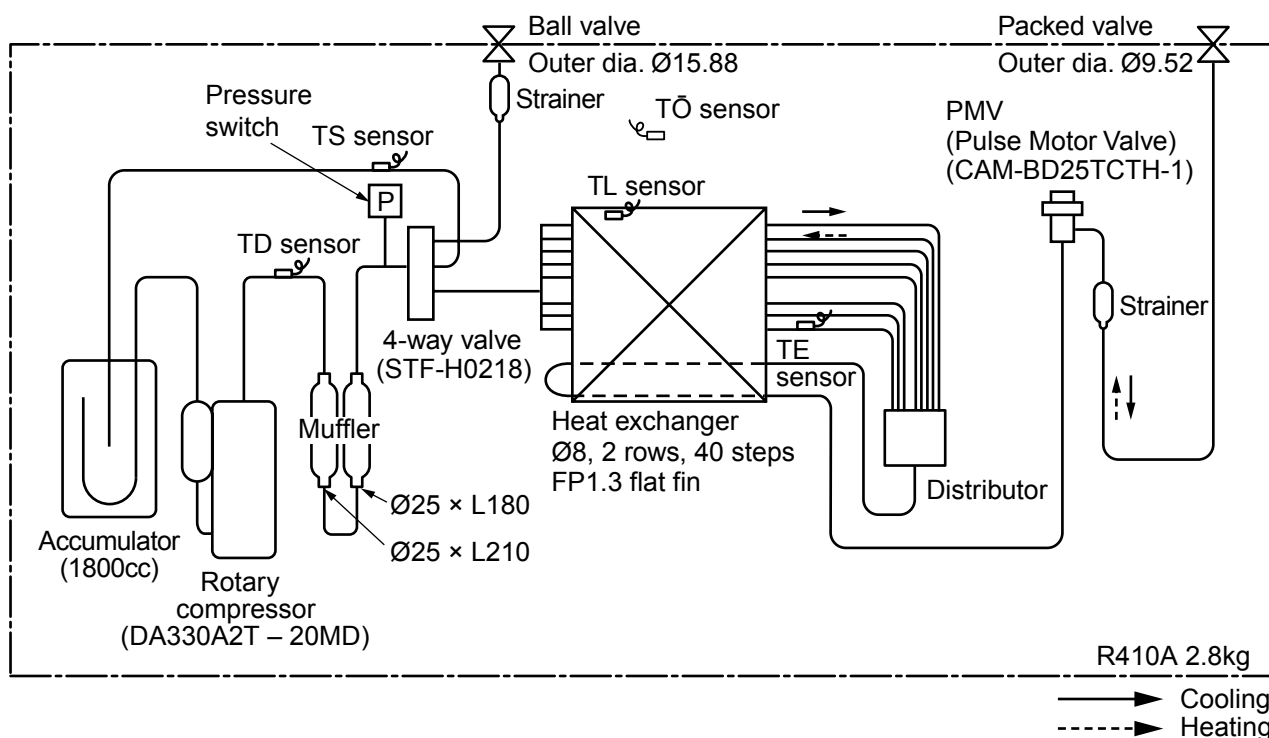


		Pressure				Pipe surface temperature (°C)				Compressor revolutions per second (rps) *	Indoor fan	Indoor/Outdoor temp. conditions (DB/WB) (°C)	
		(MPa)		(kg/cm²G)		Discharge (TD)	Suction (TS)	Indoor heat exchanger (TC)	Outdoor heat exchanger (TE)			Indoor	Outdoor
		Pd	Ps	Pd	Ps								
Cooling	Standard	3.27	0.89	33.3	9.1	82	12	10	41	80	HIGH	27/19	35/-
	Overload	3.63	1.26	37.0	10.2	80	19	18	51	53	HIGH	32/24	46/-
	Low load	1.96	0.85	20.0	8.7	53	4	3	16	72	HIGH	18/15.5	-5/-
Heating	Standard	2.61	0.64	26.6	6.5	74	3	43	2	92	HIGH	20/-	7/6
	Overload	3.24	0.94	33.0	9.6	84	13	53	11	76	HIGH	30/-	24/18
	Low load	1.76	0.20	17.9	2.0	90	-21	31	-20	120	HIGH	15/-	-15/-

* 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.

RAV-SM1104ATP-E / TR, RAV-SM1404ATP-E / TR



RAV-SM1104AT * P*

		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.10	0.94	31.6	9.6	81	15	12	39	55	HIGH	27/19	35/-
	Overload	3.60	1.13	36.7	11.5	78	16	18	54	50	HIGH	32/24	46/-
	Low load	2.03	0.82	20.7	8.4	55	11	8	4	30	LOW	18/15.5	-15/-
Heating	Standard	2.57	0.65	26.2	6.6	75	3	41	2	58	HIGH	20/-	7/6
	Overload	3.13	1.12	31.9	11.4	76	19	52	16	30	LOW	30/-	24/18
	Low load	2.15	0.24	21.9	2.4	82	-19	34	-17	79	HIGH	15/-	-15/-

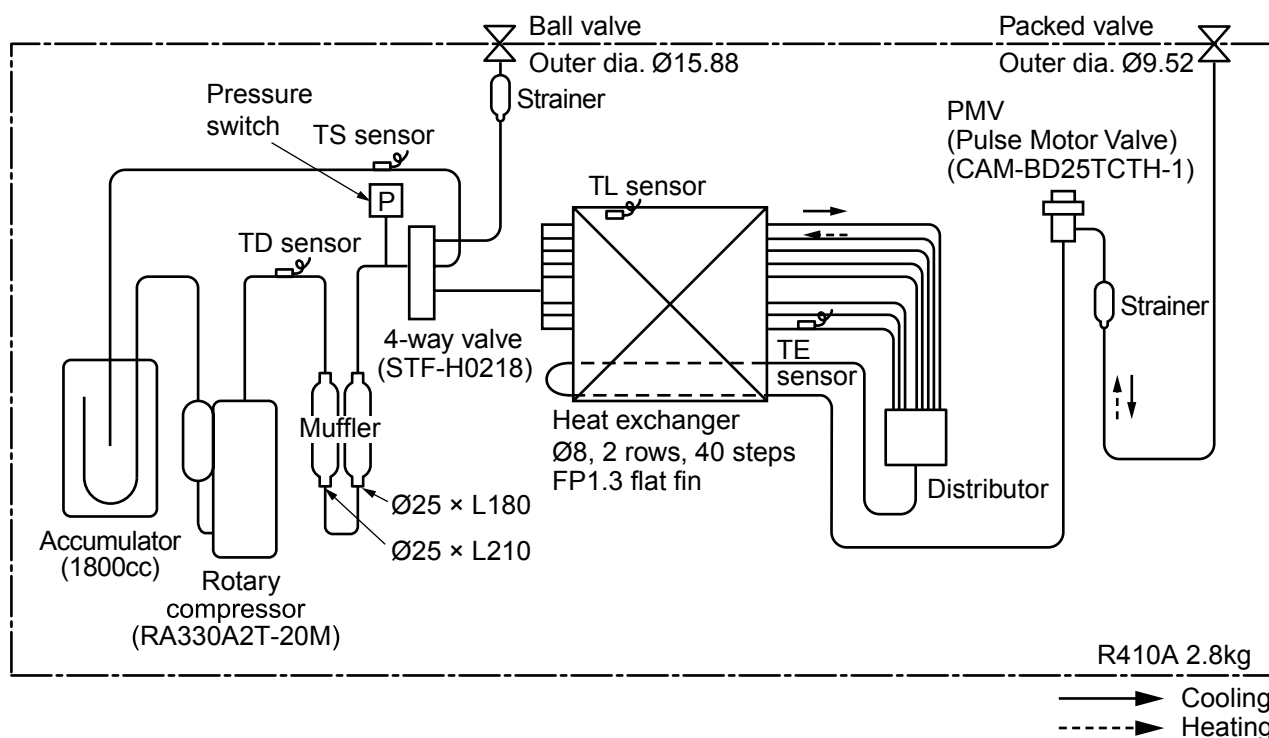
RAV-SM1404AT * P*

		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.37	0.85	34.4	8.7	89	13	11	40	70	HIGH	27/19	35/-
	Overload	3.65	1.07	37.2	10.9	80	16	18	54	53	HIGH	32/24	46/-
	Low load	2.05	0.83	20.9	8.5	56	10	8	4	30	LOW	18/15.5	-15/-
Heating	Standard	2.79	0.63	28.4	6.4	79	3	45	2	67	HIGH	20/-	7/6
	Overload	3.10	1.12	30.6	11.4	75	19	51	16	30	LOW	30/-	24/18
	Low load	2.30	0.23	23.5	2.3	86	-19	38	-17	99	HIGH	15/-	-15/-

* 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.

RAV-SM1104AT8P-E / TR, RAV-SM1404AT8P-E / TR



RAV-SM1104AT8*P*

		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.01	0.85	31.6	9.6	80	12	10	40	59	HIGH	27/19	35/-
	Overload	3.72	1.10	36.7	11.5	86	16	18	54	53	HIGH	32/24	46/-
	Low load	2.03	0.82	20.7	8.4	40	11	8	4	20	LOW	18/15.5	-15/-
Heating	Standard	2.51	0.63	26.2	6.6	72	3	39	1	63	HIGH	20/-	7/6
	Overload	3.37	1.01	31.9	11.4	82	17	55	14	40	LOW	30/-	24/18
	Low load	2.15	0.24	21.9	2.4	77	-19	55	-17	80	HIGH	15/-	-15/-

RAV-SM1404AT8*P*

		Pressure				Pipe surface temperature (°C)				* Comp. Hz	Fan	Temp	
		(MPa)		(kg/cm²G)								In	Out
		Pd	Ps	Pd	Ps	(TD)	(TS)	(TC)	(TE)				
Cooling	Standard	3.24	0.73	34.4	8.7	90	10	8	40	77	HIGH	27/19	35/-
	Overload	3.72	1.10	37.2	10.9	86	16	18	54	53	HIGH	32/24	46/-
	Low load	2.05	0.83	20.9	8.5	41	10	8	4	20	LOW	18/15.5	-15/-
Heating	Standard	2.57	0.60	28.4	6.4	69	1	40	1	72	HIGH	20/-	7/6
	Overload	3.38	0.99	30.6	11.4	83	17	54	13	40	LOW	30/-	24/18
	Low load	2.30	0.23	23.5	2.3	78	-17	38	-17	92	HIGH	15/-	-15/-

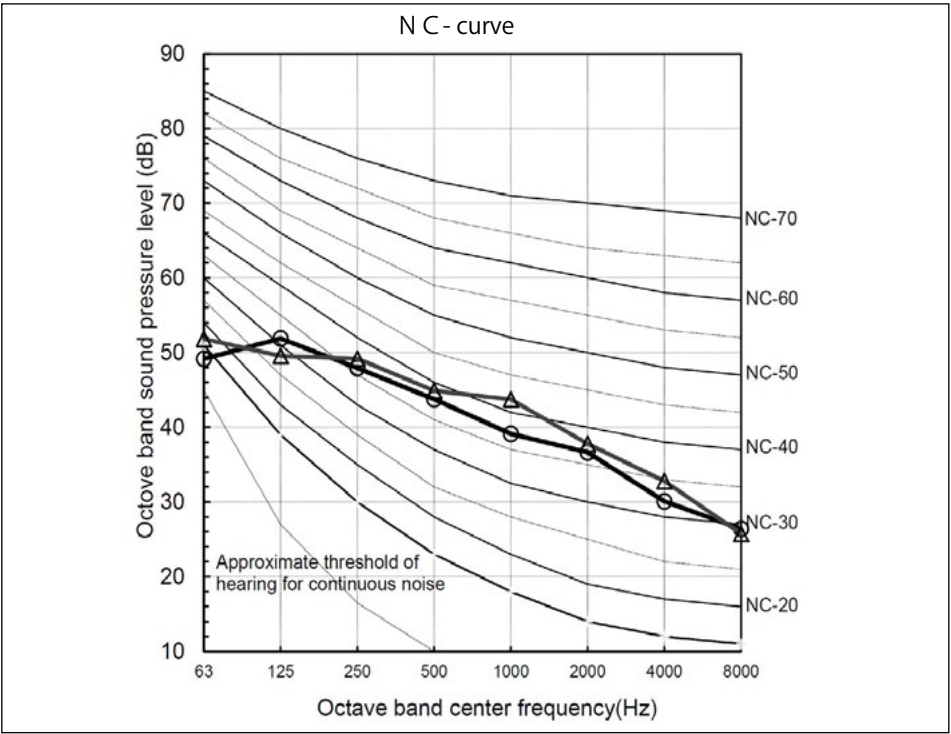
* 4 poles are provided to this compressor.

The compressor frequency (Hz) measured with a clamp meter is 2 times of revolutions (rps) of the compressor.

3-5. Sound characteristics (NC curve)

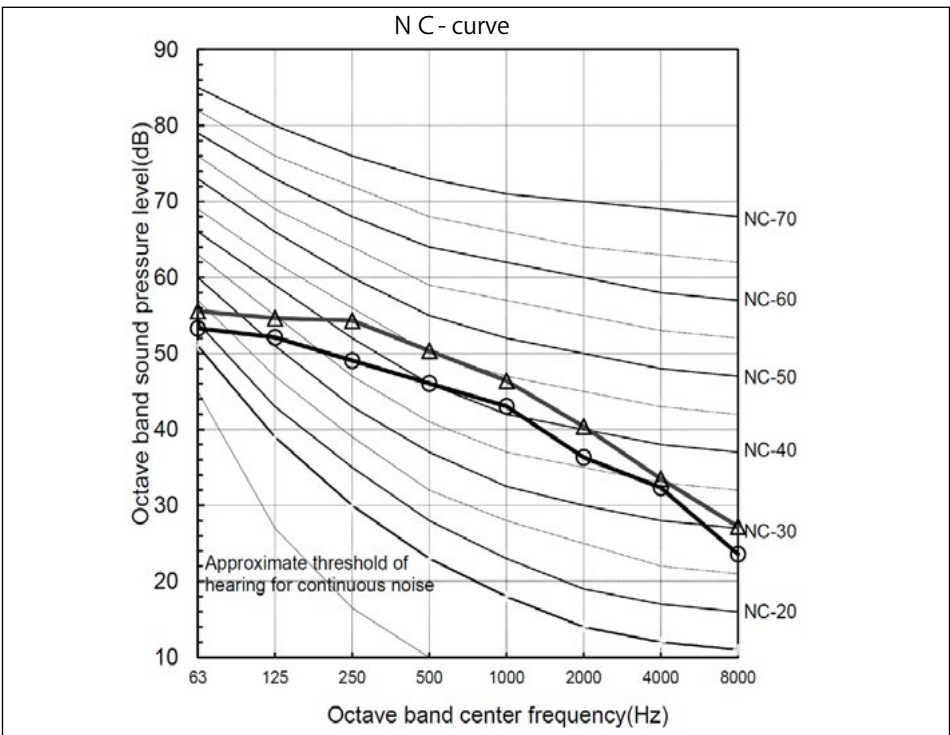
RAV-GM561ATP-E/TR (*ATJP-E)

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



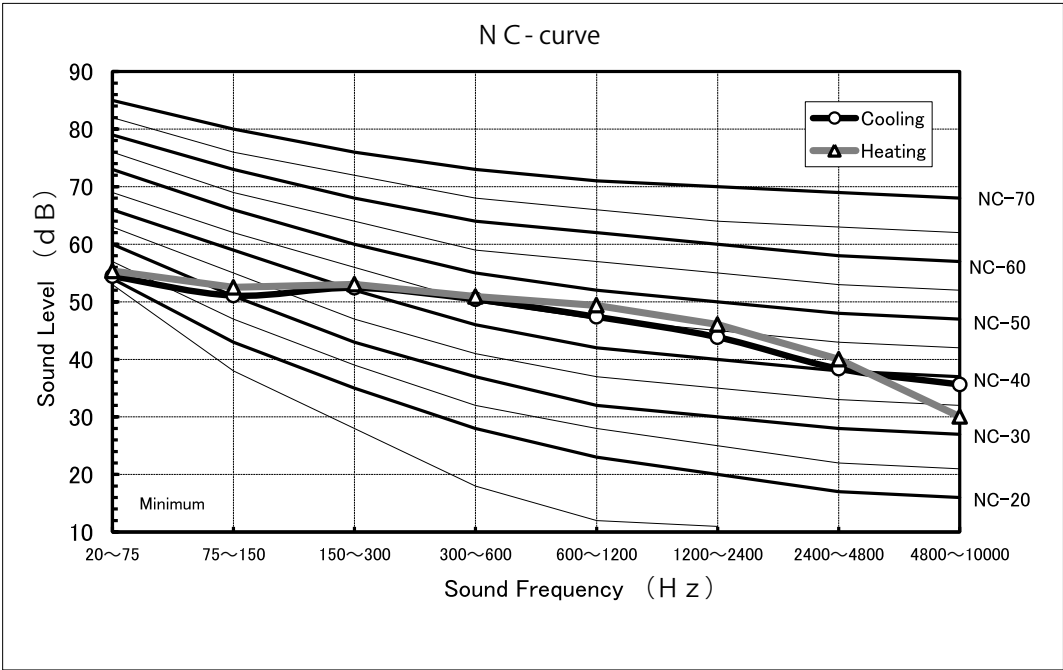
RAV-GM801ATP-E/TR (*ATJP-E)

Sound pressure level (dB(A))	Cooling	Heating
	48	52



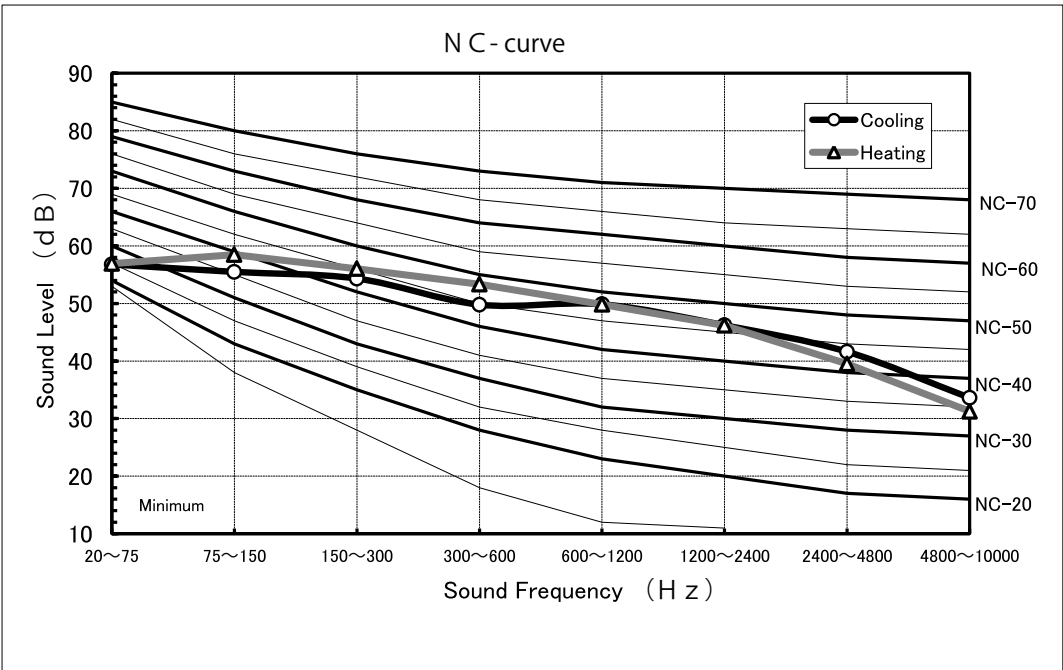
RAV-GM1101ATP-E/TR (*ATJP-E), RAV-GM1101AT8P-E/TR (*AT8JP-E)

Measured point	Specification (d B)	Specification (d B)
	Cooling	Heating
Horizontal 1.0 m	54	57



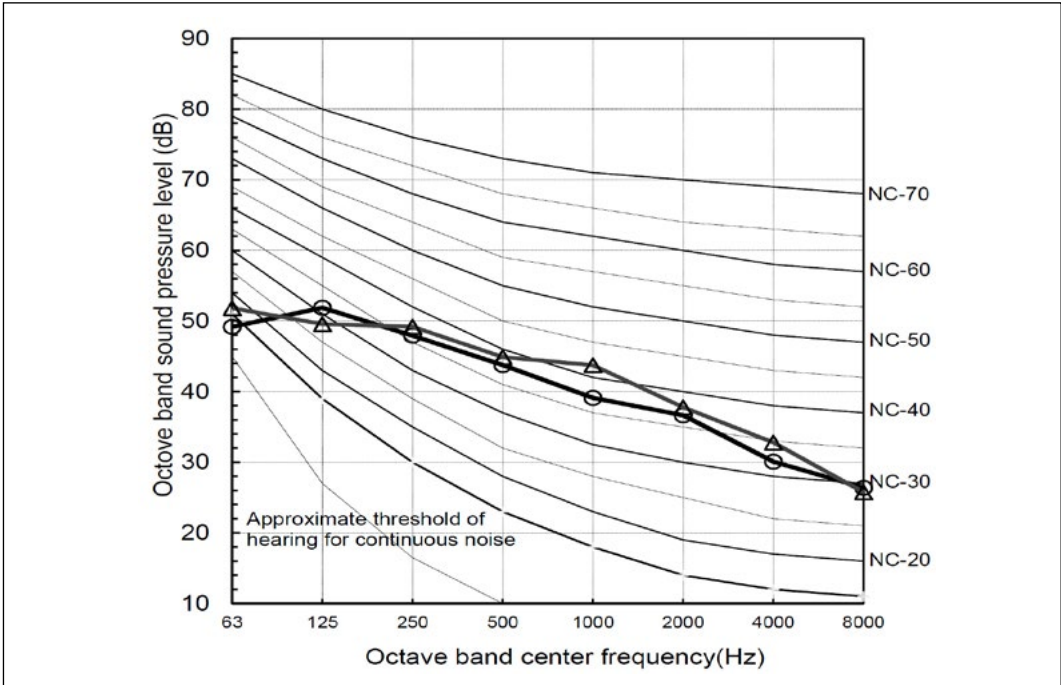
RAV-GM1401ATP-E/TR (*ATJP-E), RAV-GM1401AT8P-E/TR (*AT8JP-E)

Measured point	Specification (d B)	Specification (d B)
	Cooling	Heating
Horizontal 1.0 m	55	57



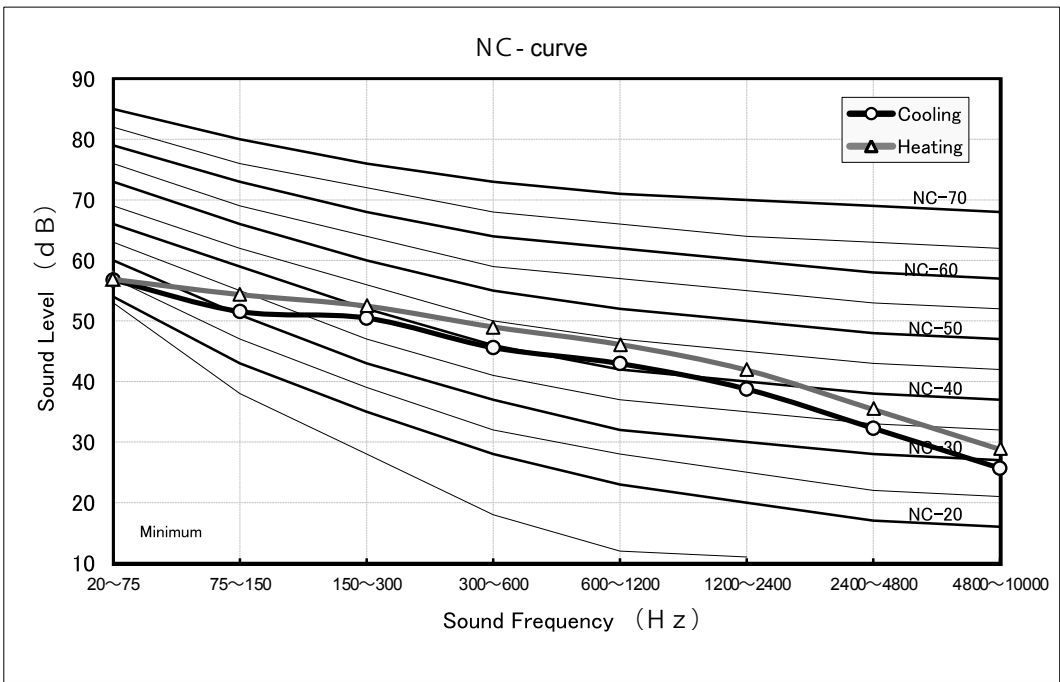
RAV-SM564ATP-E/TR (*ATJP-E)

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



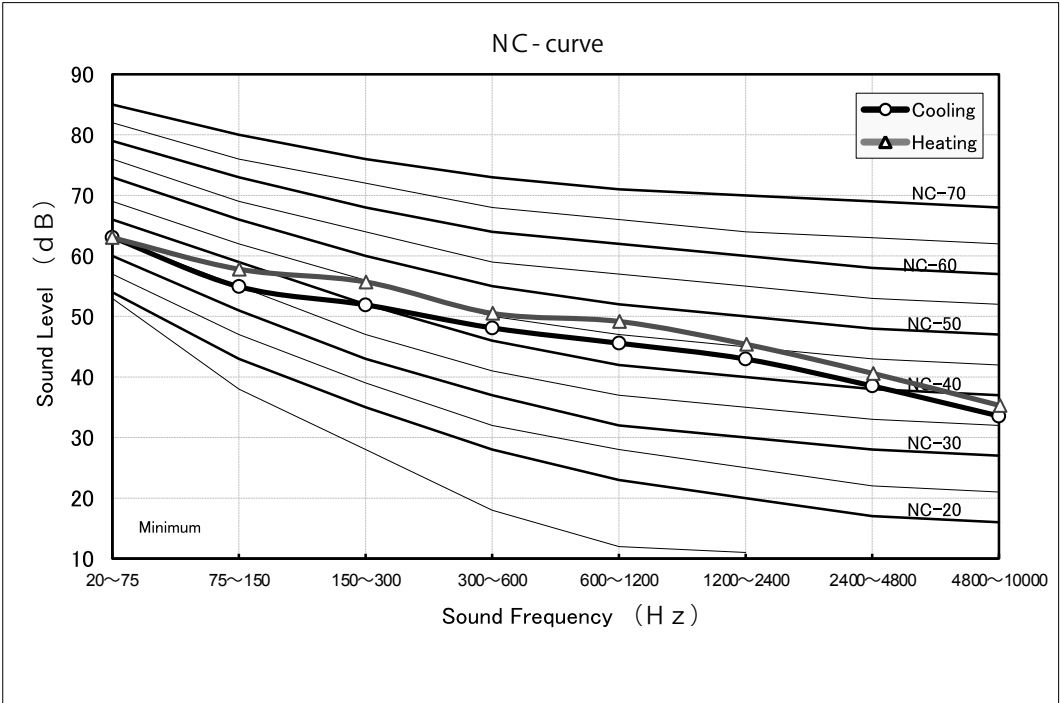
RAV-SM864ATP-E/TR (*ATJP-E)

Measured point	Specification (d B)	Specification (d B)
	Cooling	Heating
Horizontal 1.0 m	48	52



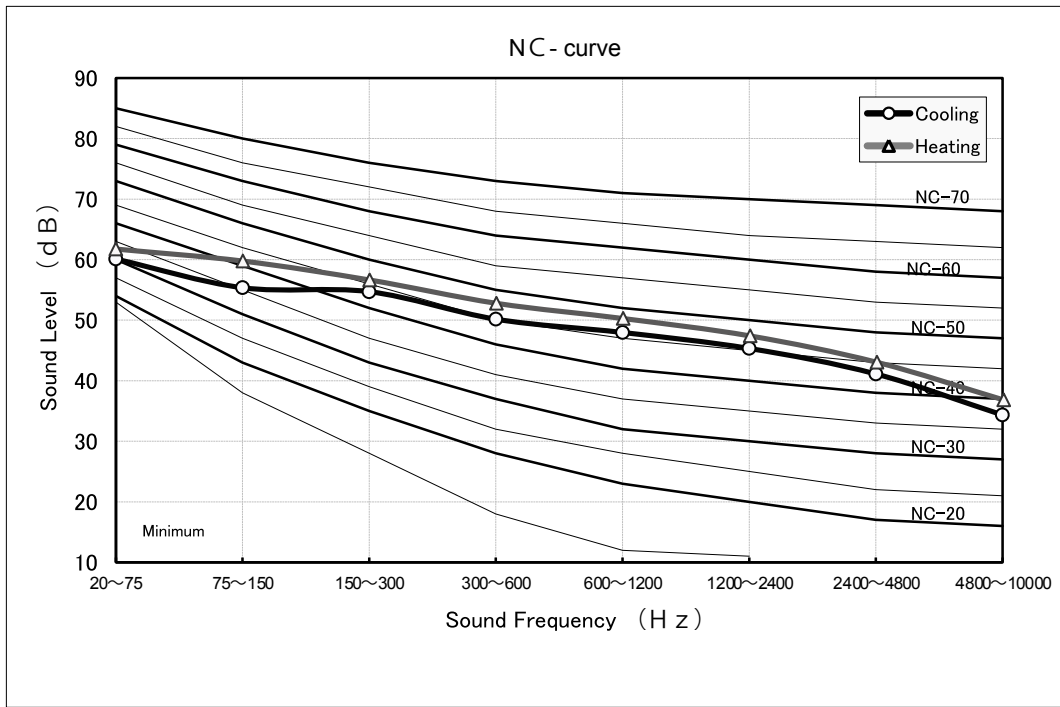
RAV-SM1104ATP-E/TR (*ATJP-E), RAV-SM1104AT8P-E/TR (*AT8JP-E)

Measured point	Specification (d B)	Specification (d B)
	Cooling	Heating
Horizontal 1.0 m	53	54



RAV-SM1404ATP-E/TR (*ATJP-E), RAV-SM1404AT8P-E/TR (*AT8JP-E)

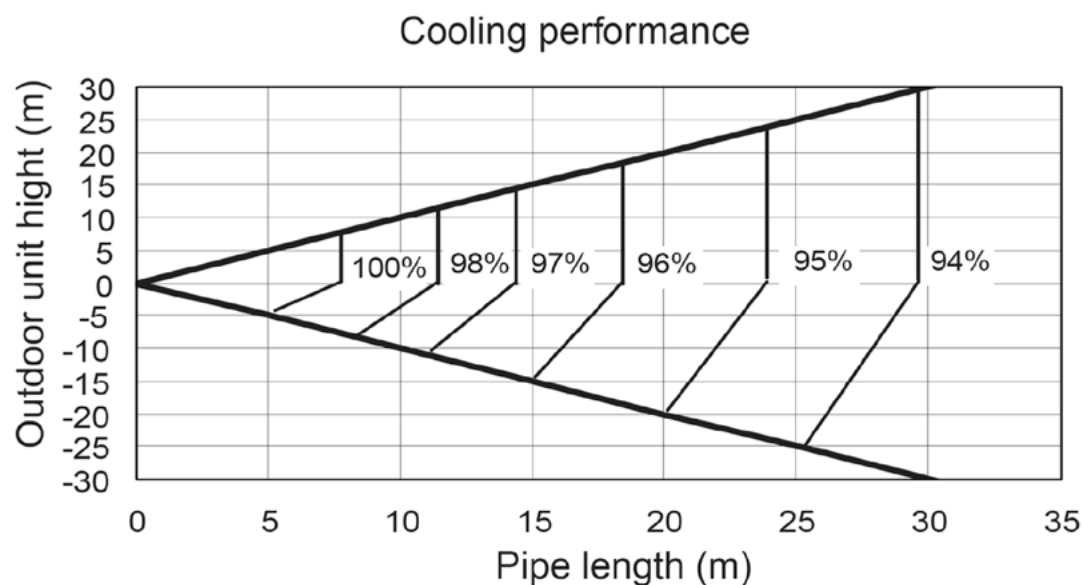
Measured point	Specification (d B)	Specification (d B)
	Cooling	Heating
Horizontal 1.0 m	54	55



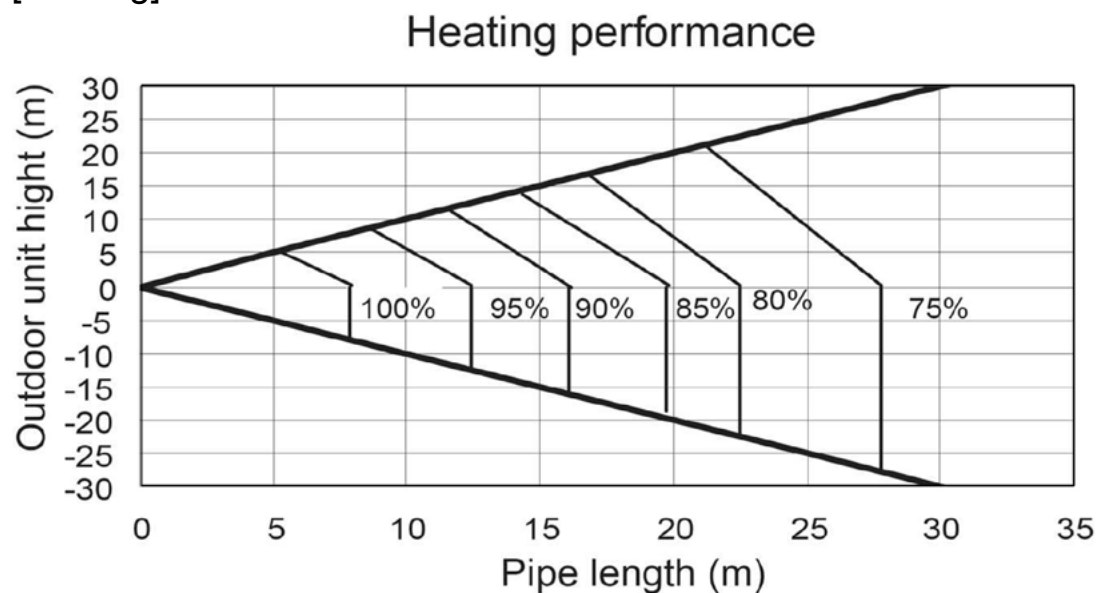
3-6. Connecting pipe length and lift difference between indoor units vs. capacity correction value

RAV-GM561ATP-E / TR (*ATJP-E)

[Cooling]

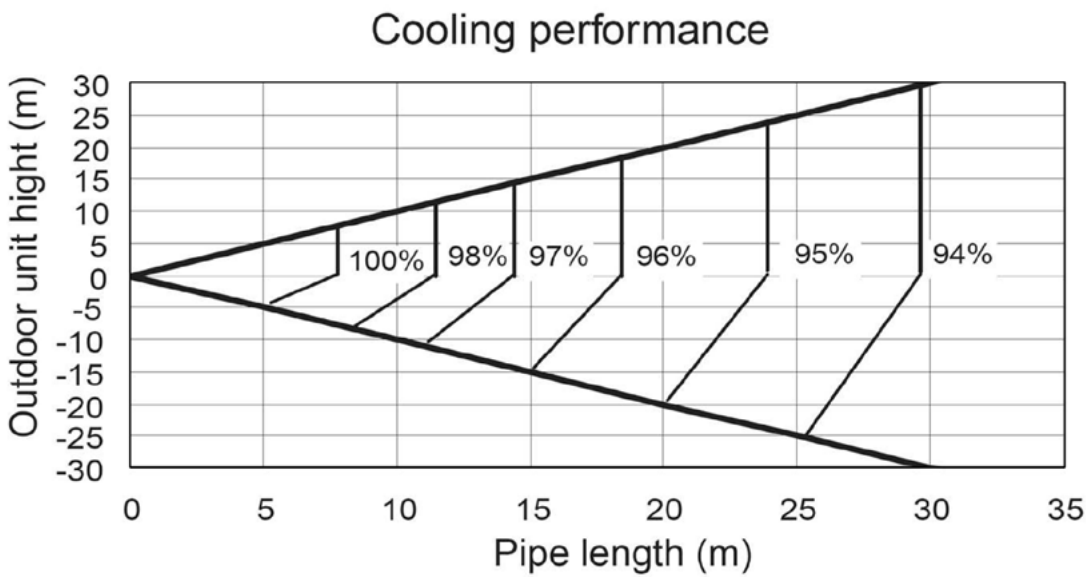


[Heating]

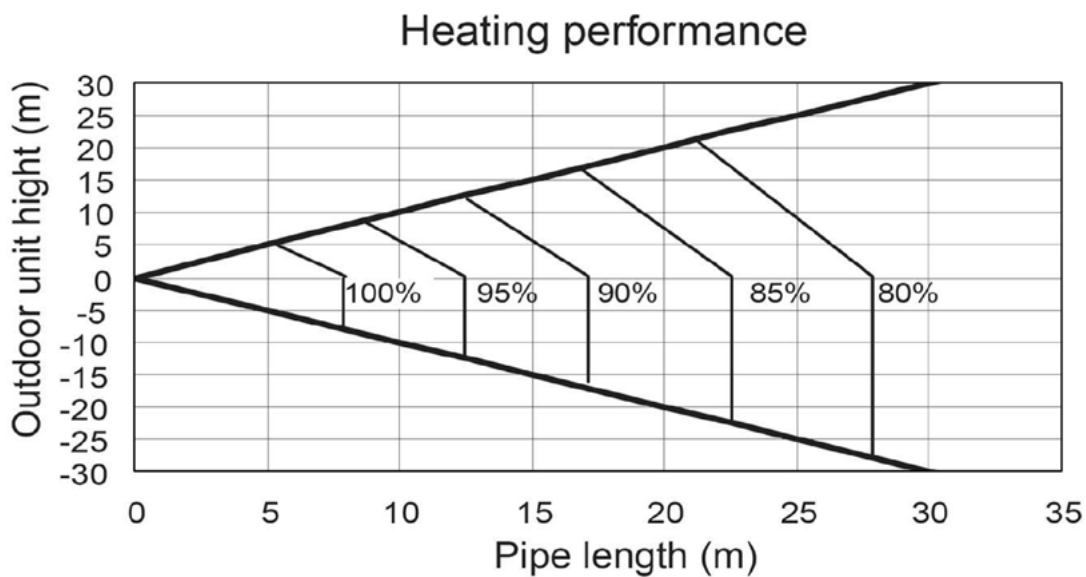


RAV-GM801ATP-E / TR (*ATJP-E)

[Cooling]

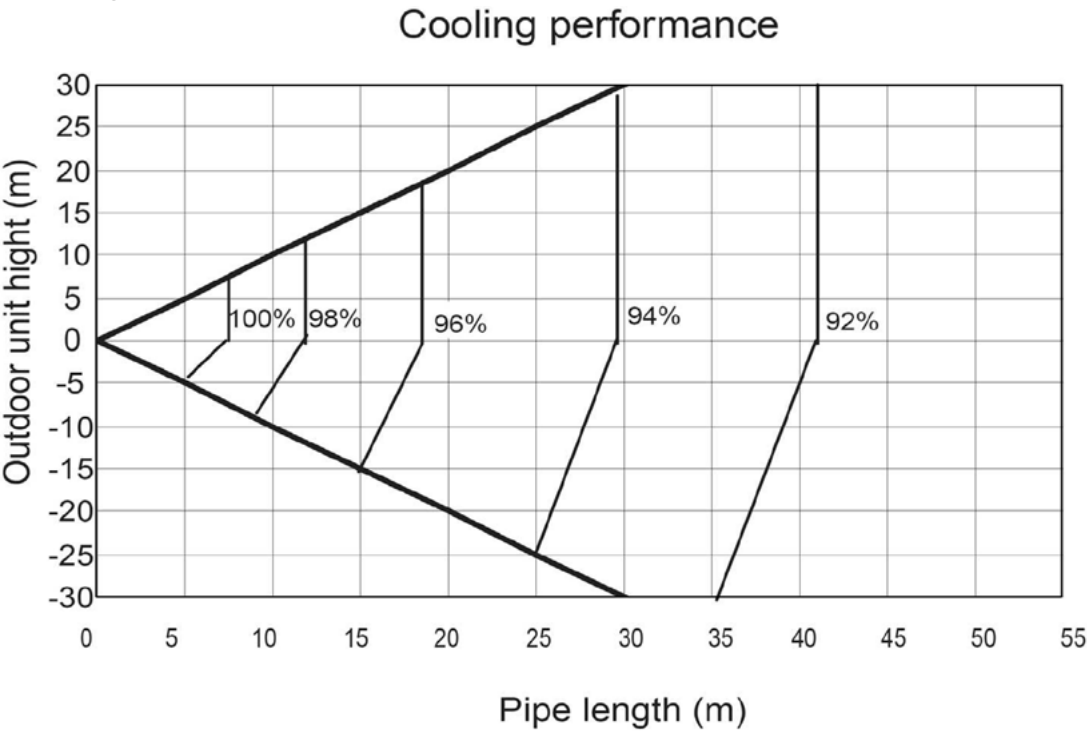


[Heating]

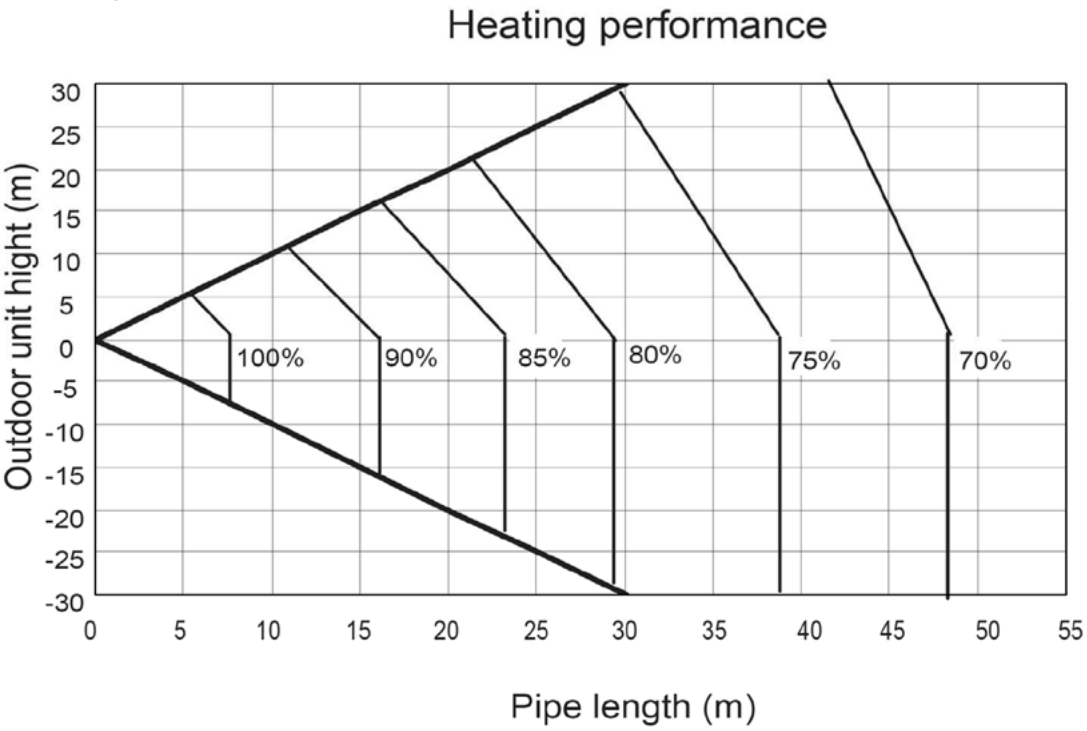


RAV-GM1101ATP-E / TR (*ATJP-E), RAV-GM1401ATP-E / TR (*ATJP-E)
RAV-GM1101AT8P-E / TR (*AT8JP-E), RAV-GM1401AT8P-E / TR (*AT8JP-E)

[Cooling]

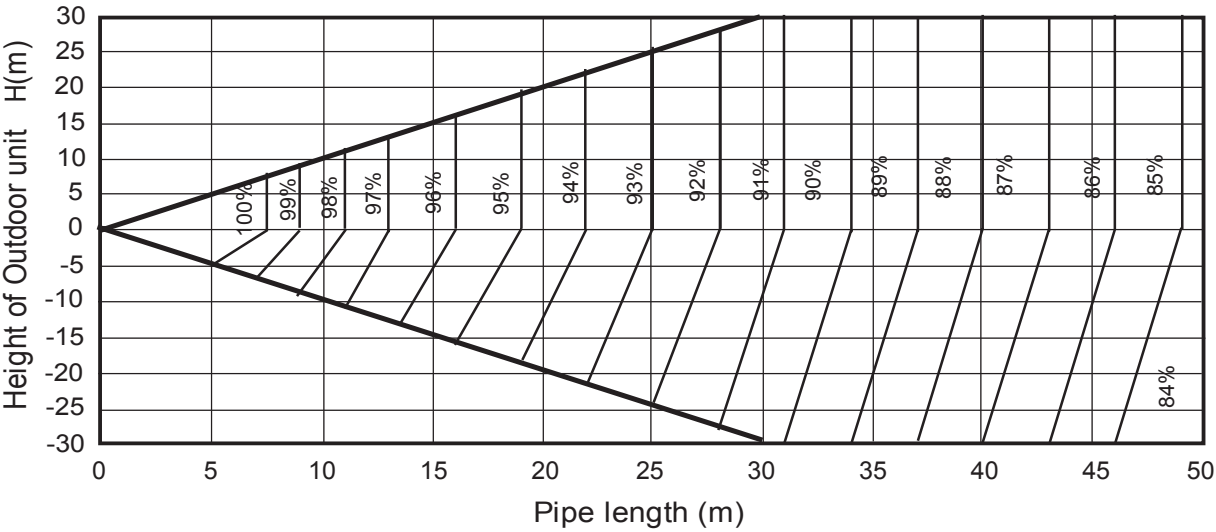


[Heating]

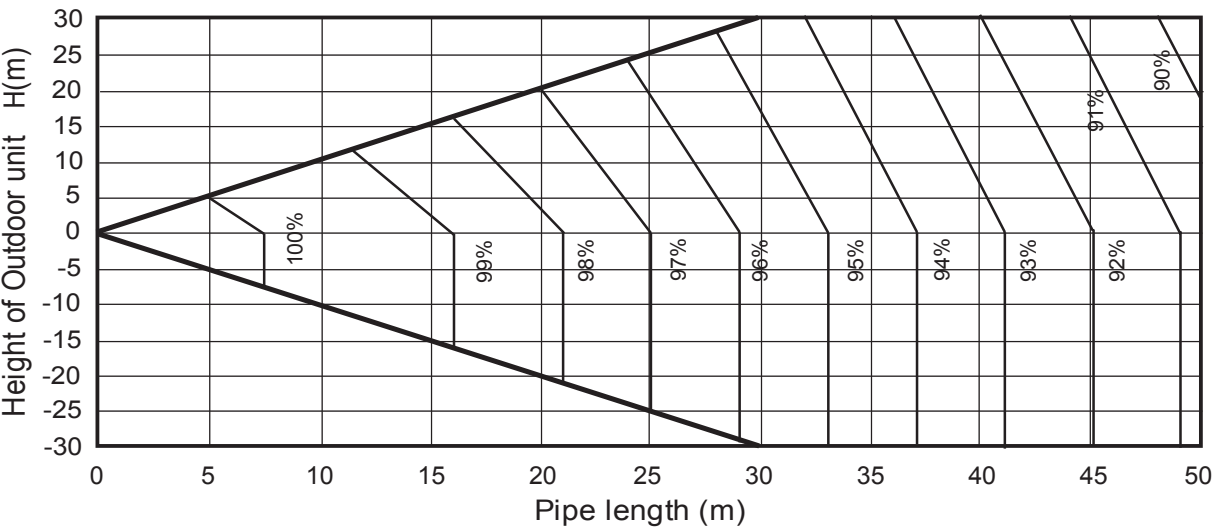


RAV-SM564ATP-E / TR (*ATJP-E)

[Cooling]

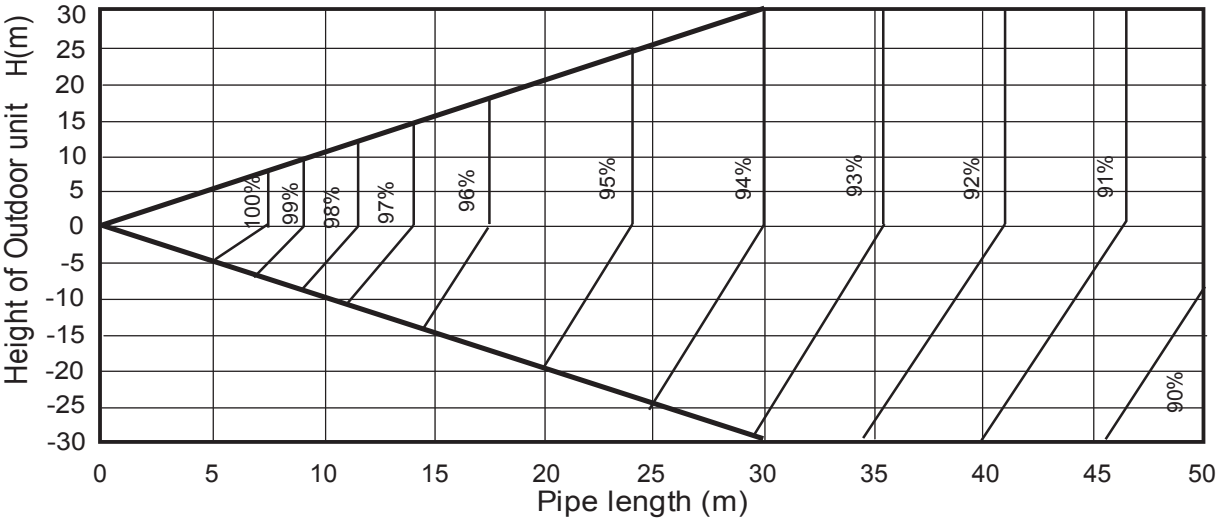


[Heating]

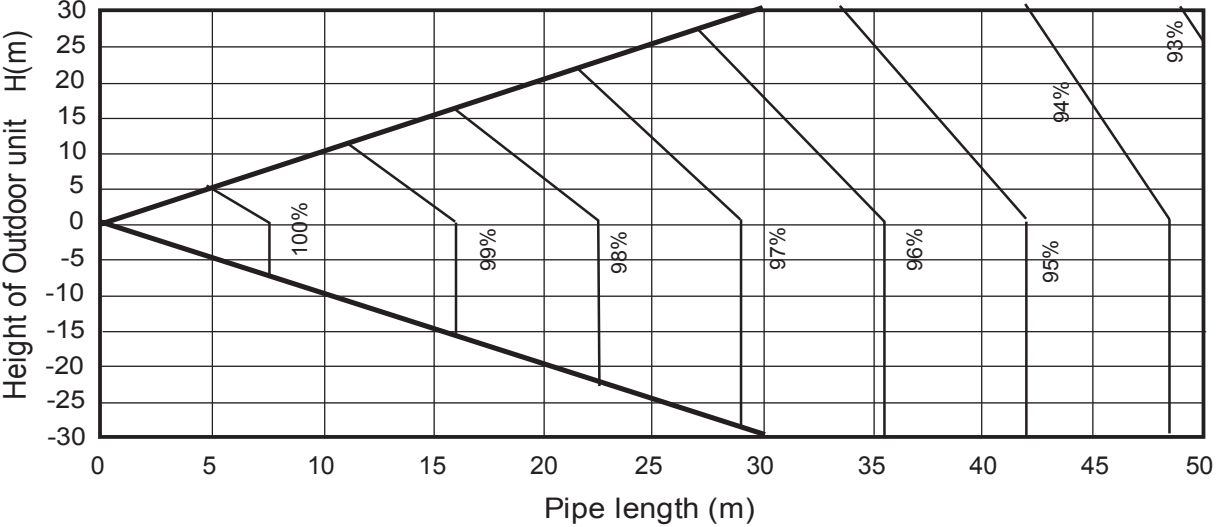


RAV-SM804ATP-E / TR (*ATJP-E)

[Cooling]

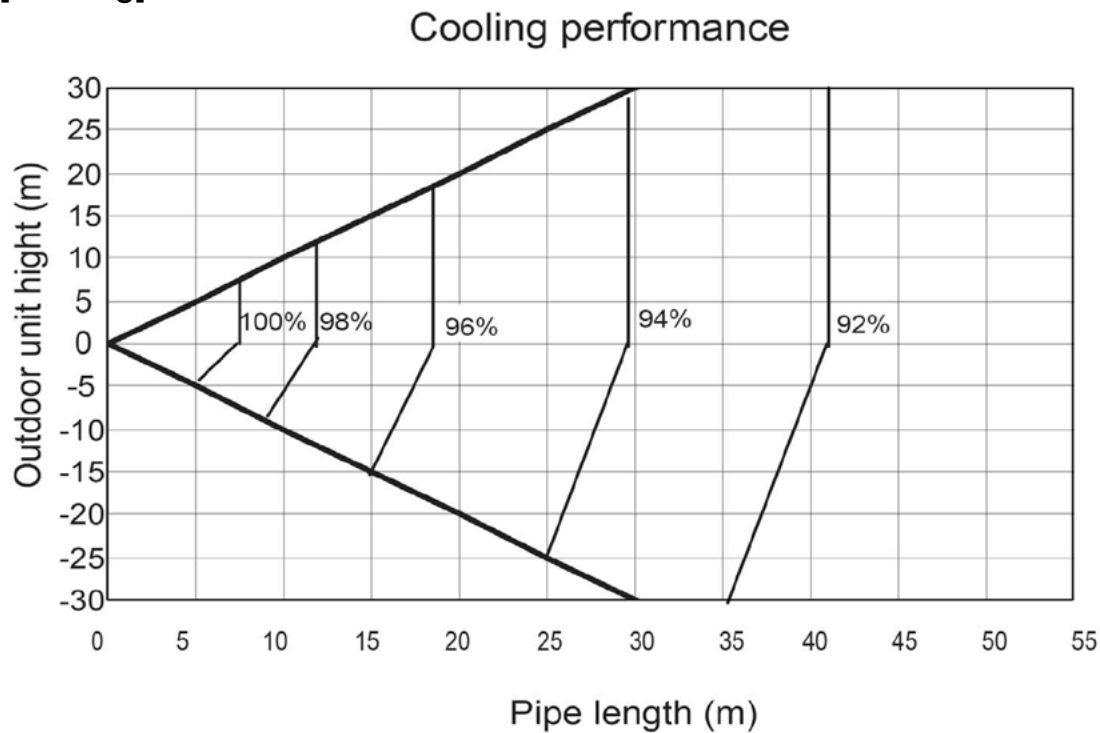


[Heating]

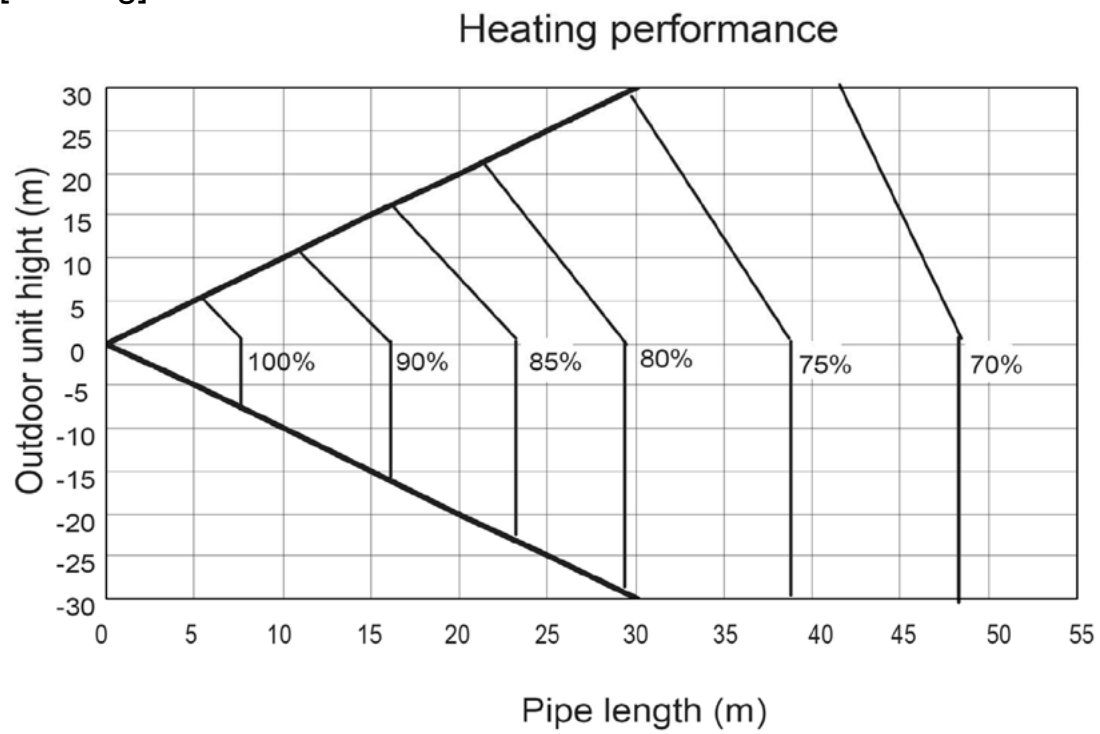


RAV-SM1104ATP-E / TR (*AT8JP-E), RAV-SM1404ATP-E / TR (*AT8JP-E)
RAV-SM1104AT8P-E / TR (*AT8JP-E), RAV-SM1404AT8P-E / TR (*AT8JP-E)

[Cooling]



[Heating]



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