Horsepower			68	70	72	74	76
Outdoor Unit Model			RAS-680RNCCLW	RAS-700RNCCLW	RAS-720RNCCLW	RAS-740RNCCLW	RAS-760RNCCLW
	Configuring Outdoor Unit		RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW
			RAS-220RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW
			RAS-220RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacilty (kW)			190.0	195.5	201.0	207.0	213.0
Heating Capacity (kW)			215.5	224.0	232.5	236.5	240.5
Outer Dimensions W x D x H (mm)			4915×775×1805	4915×775×1805	4915×775×1805	4915×775×1805	4915×775×1805
Product Net Weight (kg)			368+368+368	368+368+368	368+368+368	393+368+368	393+393+368
Product Gross Weight (kg)			392+392+392	392+392+392	392+392+392	417+392+392	417+417+392
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	67	66	66	66
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		69	69	69	69	69
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		62	62	62	63	64
Electric Characteristics	Power Consumption (kW)	Cooling	43.9	46.2	48.5	51.1	53.6
		Heating	51.2	55.5	59.8	64.1	68.4
	Operating Current (A)	Cooling	81.2	85.6	90.0	94.7	99.4
		Heating	93.7	101.6	109.5	117.4	125.3
	MAX Input (kW)		82.6	88.7	94.9	98.0	101.2
	MAX Current (A)		138.4	148.7	159.0	164.3	169.6
Coefficient of Performance (Single Outdoor Unit)		Cooling EER	4.33	4.23	4.14	4.05	3.97
		Heating COP	4.21	4.04	3.89	3.69	3.52
		Cooling and Heating Average	4.27	4.14	4.02	3.87	3.75
Compressor	Motor Output (kW)		8.7×2+(6.77×2)×2	(8.7×2)×2+6.77×2	(8.7×2)×3	10.55×2+(8.7×2)×2	(10.55×2)×2+8.7×2
Fan	Rated Air Volume (m^3/min)		348+329×2	348×2+329	348×3	375+348×2	375×2+348
	Motor Output (kW)		0.47×2+(0.4×2)×2	(0.47×2)×2+0.4×2	(0.47×2)×3	0.58×2+(0.47×2)×2	(0.58×2)×2+0.47×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		33.9	34.2	34.5	34.5	34.5
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		25.2	25.2	25.2	25.2	25.2
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	44.45	44.45	44.45	50.8	50.8
		Gas Piping (High/Low Pressure)	38.1	38.1	38.1	44.45	44.45
		Liquid Piping	22.2	22.2	22.2	22.2	22.2

Horsepower			78	80	82	84	86
Outdoor Unit Model			RAS-780RNCCLW	RAS-800RNCCLW	RAS-820RNCCLW	RAS-840RNCCLW	RAS-860RNCCLW
	Configuring Outdoor Unit		RAS-260RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW	RAS-240RNCCLW
			RAS-260RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW	RAS-220RNCCLW
			RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW	RAS-220RNCCLW
			-	-	-	-	RAS-180RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacilty (kW)			219.0	223.5	228.0	232.5	240.4
Heating Capacity (kW)			244.5	249.0	253.5	258.0	271.5
Outer Dimensions W x D x H (mm)			4915×775×1805	4915×775×1805	4915×775×1805	4915×775×1805	6170×775×1805
Product Net Weight (kg)			393+393+393	393+393+393	393+393+393	393+393+393	368+368+368+286
Product Gross Weight (kg)			417+417+417	417+417+417	417+417+417	417+417+417	392+392+392+307
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	67	67	67	68
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		70	70	70	70	70
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		65	65	65	65	63
Electric Characteristics	Power Consumption (kW)	Cooling	56.2	58.2	60.2	62.3	55.6
		Heating	72.7	77.9	83.1	88.4	64.3
	Operating Current (A)	Cooling	104.1	107.8	111.5	115.2	103.4
		Heating	133.2	142.7	152.2	161.7	118.2
	MAX Input (kW)		104.4	105.0	105.7	106.3	106.3
	MAX Current (A)		174.9	176.0	177.1	178.2	178.1
Coefficient of Performance (Single Outdoor Unit)		Cooling EER	3.90	3.84	3.79	3.73	4.33
		Heating COP	3.36	3.21	3.05	2.92	4.23
		Cooling and Heating Average	3.63	3.53	3.42	3.33	4.28
Compressor	Motor Output (kW)		(10.55×2)×3	12.98×2+(10.55×2)×2	(12.98×2)×2+10.55×2	(12.98×2)×3	8.7×2+(6.77×2)×2+11.22
Fan	Rated Air Volume (m^3/min)		375×3	375+375×2	375×2+375	375×3	348+329×2+263
	Motor Output (kW)		(0.58×2)×3	0.58×2+(0.58×2)×2	(0.58×2)×2+0.58×2	(0.58×2)×3	0.47×2+(0.4×2)×2+0.38×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		34.5	34.5	34.5	34.5	44.1
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		25.2	25.2	25.2	25.2	32.1
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	50.8	50.8	50.8	50.8	50.8
		Gas Piping (High/Low Pressure)	44.45	44.45	44.45	44.45	44.45
		Liquid Piping	22.2	22.2	22.2	22.2	22.2

Horsepower			88	90	92	94	96
Outdoor Unit Model			RAS-880RNCCLW	RAS-900RNCCLW	RAS-920RNCCLW	RAS-940RNCCLW	RAS-960RNCCLW
	Configuring Outdoor Unit		RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW
			RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW
			RAS-220RNCCLW	RAS-240RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW
			RAS-180RNCCLW	RAS-180RNCCLW	RAS-220RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			245.9	251.4	257.0	262.5	268.0
Heating Capacity (kW)			280.0	288.5	293.0	301.5	310.0
Outer Dimensions W x D x H (mm)			6170×775×1805	6170×775×1805	6560×775×1805	6560×775×1805	6560×775×1805
Product Net Weight (kg)			368+368+368+286	368+368+368+286	368+368+368+368	368+368+368+368	368+368+368+368
Product Gross Weight (kg)			392+392+392+307	392+392+392+307	392+392+392+392	392+392+392+392	392+392+392+392
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		68	67	68	68	67
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		70	70	71	70	70
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		63	63	63	63	63
Electric Characteristics	Power Consumption (kW)	Cooling	57.9	60.2	60.0	62.4	64.7
		Heating	68.5	72.8	71.1	75.4	79.7
	Operating Current (A)	Cooling	107.8	112.2	111.2	115.6	120.0
		Heating	126.1	134.0	130.2	138.1	146.0
	MAX Input (kW)		112.4	118.6	114.2	120.3	126.5
	MAX Current (A)		188.4	198.7	191.4	201.7	212.0
Coefficient of Performance (Single Outdoor Unit)		Cooling EER	4.25	4.17	4.28	4.21	4.14
		Heating COP	4.09	3.96	4.12	4.00	3.89
		Cooling and Heating Average	4.17	4.07	4.20	4.11	4.02
Compressor	Motor Output (kW)		(8.7×2)×2+6.77×2 +11.22	(8.7×2)×3+11.22	(8.7×2)×2 +(6.77×2)×2	(8.7×2)×3+6.77×2	(8.7×2)×4
Fan	Rated Air Volume (m^3/min)		348×2+329+263	348×3+263	348×2+329×2	348×3+329	348×4
	Motor Output (kW)		(0.47×2)×2+0.4×2 +0.38×2	(0.47×2)×3+0.38×2	(0.47×2)×2 +(0.4×2)×2	(0.47×2)×3+0.4×2	(0.47×2)×4
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		44.4	44.7	45.4	45.7	46.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		32.1	32.1	33.6	33.6	33.6
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	50.8	50.8	50.8	50.8	50.8
		Gas Piping (High/Low Pressure)	44.45	44.45	44.45	44.45	44.45
		Liquid Piping	22.2	25.4	25.4	25.4	25.4

Horsepower			98	100	102	104	106
Outdoor Unit Model			RAS-980RNCCLW	RAS-H00RNCCLW	RAS-H02RNCCLW	RAS-H04RNCCLW	RAS-H06RNCCLW
	Configuring Outdoor Unit		RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW
			RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW
			RAS-240RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW
			RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			274.0	280.0	286.0	292.0	296.5
Heating Capacity (kW)			314.0	318.0	322.0	326.0	330.5
Outer Dimensions W x D x H (mm)			6560×775×1805	6560×775×1805	6560×775×1805	6560×775×1805	6560×775×1805
Product Net Weight (kg)			393+368+368+368	393+393+368+368	393+393+393+368	393+393+393+393	393+393+393+393
Product Gross Weight (kg)			417+392+392+392	417+417+392+392	417+417+417+392	417+417+417+417	417+417+417+417
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	68	68	68	68
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		70	71	71	71	71
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		64	65	65	66	66
Electric Characteristics	Power Consumption (kW)	Cooling	67.2	69.8	72.4	74.9	76.9
		Heating	84.0	88.3	92.6	96.9	102.1
	Operating Current (A)	Cooling	124.7	129.4	134.1	138.8	142.5
		Heating	153.9	161.8	169.7	177.6	187.1
	MAX Input (kW)		129.6	132.8	136.0	139.1	139.8
	MAX Current (A)		217.3	222.6	227.9	233.2	234.3
Coefficient of Performance (Single Outdoor Unit)		Cooling EER	4.07	4.01	3.95	3.90	3.85
		Heating COP	3.74	3.60	3.48	3.36	3.24
		Cooling and Heating Average	3.91	3.81	3.72	3.63	3.55
Compressor	Motor Output (kW)		10.55×2+(8.7×2)×3	(10.55×2)×2 +(8.7×2)×2	(10.55×2)×3+8.7×2	(10.55×2)×4	12.98×2+(10.55×2)×3
Fan	Rated Air Volume (m^3/min)		375+348×3	375×2+348×2	375×3+348	375×4	375+375×3
	Motor Output (kW)		0.58×2+(0.47×2)×3	(0.58×2)×2 +(0.47×2)×2	(0.58×2)×3+0.47×2	(0.58×2)×4	0.58×2+(0.58×2)×3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		46.0	46.0	46.0	46.0	46.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		33.6	33.6	33.6	33.6	33.6
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	54.0	54.0	54.0	54.0	54.0
		Gas Piping (High/Low Pressure)	50.8	50.8	50.8	50.8	50.8
		Liquid Piping	25.4	25.4	25.4	25.4	25.4

Horsepower			108	110	112
Outdoor Unit Model			RAS-H08RNCCLW	RAS-H10RNCCLW	RAS-H12RNCCLW
	Configuring Outdoor Unit		RAS-280RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW
			RAS-280RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW
			RAS-260RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW
			RAS-260RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			301.0	305.5	310.0
Heating Capacity (kW)			335.0	339.5	344.0
Outer Dimensions W x D x H (mm)			6560×775×1805	6560×775×1805	6560×775×1805
Product Net Weight (kg)			393+393+393+393	393+393+393+393	393+393+393+393
Product Gross Weight (kg)			417+417+417+417	417+417+417+417	417+417+417+417
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		68	68	68
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		71	71	71
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		66	66	66
Electric Characteristics	Power Consumption (kW)	Cooling	79.0	81.0	83.0
		Heating	107.4	112.6	117.8
	Operating Current (A)	Cooling	146.2	149.9	153.6
		Heating	196.6	206.1	215.6
	MAX Input (kW)		140.4	141.1	141.8
	MAX Current (A)		235.4	236.5	237.6
Coefficient of Performance (Single Outdoor Unit)		Cooling EER	3.81	3.77	3.73
		Heating COP	3.12	3.02	2.92
		Cooling and Heating Average	3.47	3.40	3.33
Compressor	Motor Output (kW)		(12.98×2)×2 +(10.55×2)×2	(12.98×2)×3+10.55×2	(12.98×2)×4
Fan	Rated Air Volume (m^3/min)		375×2+375×2	375×3+375	375×4
	Motor Output (kW)		(0.58×2)×2 +(0.58×2)×2	(0.58×2)×3+0.58×2	(0.58×2)×4
Refrigerant	Type		R410A	R410A	R410A
	Initial Charge Amount (kg)		46.0	46.0	46.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D
	Charge Amount (L)		33.6	33.6	33.6
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	54.0	54.0	54.0
		Gas Piping (High/Low Pressure)	50.8	50.8	50.8
		Liquid Piping	25.4	25.4	25.4

- ANZ (High Efficiency)

Horsepower			8	10	12	14	16
Outdoor Unit Model			RAS-080RNCBLW	RAS-100RNCBLW	RAS-120RNCBLW	RAS-140RNCBLW	RAS-160RNCBLW
	Configuring Outdoor Unit		-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			22.4	28.0	33.5	40.0	45.0
Heating Capacity (kW)			25.0	31.5	37.5	45.0	47.5
Outer Dimensions W x D x H (mm)			975×765×1795	975×765×1795	1235×765×1795	1235×765×1795	1235×765×1795
Product Net Weight (kg)			217	217	272	307	307
Product Gross Weight (kg)			236	236	293	328	328
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		52	55	59	61	61
	Operating Sound (dB(A), PWL)		78	81	83	85	85
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		54	57	61	62	62
	Operating Sound (dB(A), PWL)		78	81	84	86	86
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		50	51	55	53	54
	Operating Sound (dB(A), PWL)		74	75	79	77	78
Electric Characteristics	Power Consumption (kW)	Cooling	4.33	5.90	7.20	8.84	10.2
		Heating	5.09	6.63	7.94	10.1	12.1
	Power Consumption (kW)	Cooling (Including IDU)	4.50	6.11	7.44	9.15	10.6
		Heating (Including IDU)	5.26	6.84	8.18	10.4	12.5
	Operating Current (A)	Cooling	8.5	10.5	14.0	17.4	19.7
		Heating	10.0	11.7	15.1	19.3	22.6
	MAX Input (kW)		8.91	12.1	12.9	15.9	17.8
	MAX Current (A)		16.1	19.5	22.4	28.0	30.6
Energy Efficiency (Single Outdoor Unit)		Cooling EER	5.17	4.75	4.65	4.52	4.40
		Heating COP	4.91	4.75	4.72	4.47	3.94
		Cooling and Heating Average	5.04	4.75	4.69	4.50	4.17
Energy Efficiency (Including Indoor Unit)		Cooling EER	4.98	4.58	4.50	4.37	4.24
		Cooling AEER	4.63	4.32	4.22	3.95	3.88
		Heating COP	4.75	4.61	4.58	4.34	3.82
		Heating ACOP	4.43	4.32	4.31	4.01	3.65
		Cooling and Heating Average	4.87	4.60	4.54	4.36	4.03
Compressor	Motor Output (kW)		4.36	5.73	6.79	4.23×2	5.16×2
Fan	Rated Air Volume (m^3/min)		168	181	219	256	256
	Motor Output (kW)		0.27	0.34	0.24×2	0.35×2	0.35×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		8.3	8.3	9.3	10.3	10.3
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		6.0	6.0	6.9	8.4	8.4
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	19.05	22.2	25.4	25.4	28.58
		Gas Piping (High/Low Pressure)	15.88	19.05	22.2	22.2	22.2
		Liquid Piping	9.52	9.52	12.7	12.7	12.7
	Heat Pump	Gas Piping	19.05	22.2	25.4	25.4	28.58
		Liquid Piping	9.52	9.52	12.70	12.70	12.70

Horsepower			18	20	22	24	26
Outdoor Unit Model			RAS-180RNCBLW	RAS-200RNCBLW	RAS-220RNCBLW	RAS-240RNCBLW	RAS-260RNCBLW
	Configuring Outdoor Unit		-	-	RAS-120RNCBLW	RAS-120RNCBLW	RAS-140RNCBLW
			-	-	RAS-100RNCBLW	RAS-120RNCBLW	RAS-120RNCBLW
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			50.4	56.0	61.5	67.0	73.5
Heating Capacity (kW)			56.0	63.0	69.0	77.5	82.5
Outer Dimensions W x D x H (mm)			1625×765×1795	1625×765×1795	2230×765×1795	2490×765×1795	2490×765×1795
Product Net Weight (kg)			350	374	272+217	272+272	307+272
Product Gross Weight (kg)			374	398	293+236	293+293	328+293
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		62	62	60	62	63
	Operating Sound (dB(A), PWL)		86	86	85	86	87
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		63	64	62	64	65
	Operating Sound (dB(A), PWL)		88	88	86	87	88
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		58	60	56	58	57
	Operating Sound (dB(A), PWL)		79	84	80	82	81
Electric Characteristics	Power Consumption (kW)	Cooling	11.2	12.8	13.1	14.4	16.0
		Heating	12.0	13.7	14.6	15.9	18.0
	Power Consumption (kW)	Cooling (Including IDU)	11.7	13.3	13.6	14.9	16.6
		Heating (Including IDU)	12.5	14.2	15.0	16.4	18.6
	Operating Current (A)	Cooling	21.3	23.7	24.5	28.0	31.4
		Heating	22.5	25.0	26.8	30.2	34.4
	MAX Input (kW)		20.4	22.3	25.0	25.8	29.0
	MAX Current (A)		35.0	37.4	41.9	44.8	50.4
Energy Efficiency (Single Outdoor Unit)		Cooling EER	4.49	4.38	4.69	4.65	4.58
		Heating COP	4.66	4.62	4.74	4.72	4.58
		Cooling and Heating Average	4.58	4.50	4.72	4.69	4.58
Energy Efficiency (Including Indoor Unit)		Cooling EER	4.32	4.21	4.54	4.50	4.43
		Cooling AEER	3.99	3.94	4.26	4.22	4.07
		Heating COP	4.49	4.45	4.59	4.58	4.45
		Heating ACOP	4.17	4.15	4.32	4.31	4.14
		Cooling and Heating Average	4.41	4.33	4.57	4.54	4.44
Compressor	Motor Output (kW)		4.94×2	5.62×2	6.79+5.73	(6.79)×2	4.23×2+6.79
Fan	Rated Air Volume (m³/min)		362	375	219+161	219×2	256+219
	Motor Output (kW)		0.52×2	0.58×2	0.24×2+0.34	(0.24×2)×2	0.35×2+0.24×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		11.1	11.1	17.6	18.6	19.6
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		8.4	8.4	12.9	13.8	15.3
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	28.58	28.58	28.58	28.58	31.75
		Gas Piping (High/Low Pressure)	22.2	22.2	25.4	25.4	25.4
		Liquid Piping	15.88	15.88	15.88	15.88	19.05
	Heat Pump	Gas Piping	28.58	28.58	28.58	28.58	31.75
		Liquid Piping	15.88	15.88	15.88	15.88	19.05

Horsepower			28	30	32	34	36
Outdoor Unit Model			RAS-280RNCBLW	RAS-300RNCBLW	RAS-320RNCBLW	RAS-340RNCBLW	RAS-360RNCBLW
	Configuring Outdoor Unit		RAS-140RNCBLW	RAS-160RNCBLW	RAS-160RNCBLW	RAS-180RNCBLW	RAS-180RNCBLW
			RAS-140RNCBLW	RAS-140RNCBLW	RAS-160RNCBLW	RAS-160RNCBLW	RAS-180RNCBLW
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacilty (kW)			80.0	85.0	90.0	95.4	100.8
Heating Capacity (kW)			90.0	92.5	95.0	103.5	112.0
Outer Dimensions W x D x H (mm)			2490×765×1795	2490×765×1795	2490×765×1795	2880×765×1795	3270×765×1795
Product Net Weight (kg)			307+307	307+307	307+307	350+307	350+350
Product Gross Weight (kg)			328+328	328+328	328+328	374+328	374+374
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		64	64	64	65	65
	Operating Sound (dB(A), PWL)		88	88	88	89	89
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		65	65	65	66	66
	Operating Sound (dB(A), PWL)		89	89	89	90	91
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		56	57	57	59	61
	Operating Sound (dB(A), PWL)		80	81	81	82	82
Electric Characteristics	Power Consumption (kW)	Cooling	17.7	19.1	20.4	21.4	22.4
		Heating	20.1	22.1	24.1	24.1	24.0
	Power Consumption (kW)	Cooling (Including IDU)	18.3	19.8	21.2	22.3	23.3
		Heating (Including IDU)	20.7	22.8	24.9	24.9	24.9
	Operating Current (A)	Cooling	34.8	37.1	39.4	41.0	42.6
		Heating	38.6	41.9	45.2	45.1	45.0
	MAX Input (kW)		31.8	33.7	35.6	38.2	40.8
	MAX Current (A)		56.0	58.6	61.2	65.6	70.0
Energy Efficiency (Single Outdoor Unit)		Cooling EER	4.52	4.46	4.40	4.45	4.49
		Heating COP	4.47	4.18	3.94	4.30	4.66
		Cooling and Heating Average	4.50	4.32	4.17	4.38	4.58
Energy Efficiency (Including Indoor Unit)		Cooling EER	4.37	4.30	4.24	4.28	4.32
		Cooling AEER	3.95	3.91	3.88	3.94	3.99
		Heating COP	4.34	4.05	3.82	4.15	4.49
		Heating ACOP	4.01	3.82	3.65	3.91	4.17
		Cooling and Heating Average	4.36	4.18	4.03	4.22	4.41
Compressor	Motor Output (kW)		(4.23×2)×2	5.16×2+4.23×2	(5.16×2)×2	4.94×2+5.16×2	(4.94×2)×2
Fan	Rated Air Volume (m^3/min)		256×2	256+256	256×2	382+256	382×2
	Motor Output (kW)		(0.35×2)×2	0.35×2+0.35×2	(0.35×2)×2	0.52×2+0.35×2	(0.52×2)×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		20.6	20.6	20.6	21.4	22.2
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		16.8	16.8	16.8	16.8	16.8
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	31.75	31.75	31.75	31.75	38.1
		Gas Piping (High/Low Pressure)	28.58	28.58	28.58	28.58	28.58
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	31.75	31.75	31.75	31.75	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			38	40	42	44	46
Outdoor Unit Model			RAS-380RNCBLW	RAS-400RNCBLW	RAS-420RNCBLW	RAS-440RNCBLW	RAS-460RNCBLW
	Configuring Outdoor Unit		RAS-200RNCBLW	RAS-200RNCBLW	RAS-140RNCBLW	RAS-160RNCBLW	RAS-160RNCBLW
			RAS-180RNCBLW	RAS-200RNCBLW	RAS-140RNCBLW	RAS-140RNCBLW	RAS-160RNCBLW
			-	-	RAS-140RNCBLW	RAS-140RNCBLW	RAS-140RNCBLW
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			106.4	112.0	120.0	125.0	130.0
Heating Capacity (kW)			119.0	126.0	135.0	137.5	140.0
Outer Dimensions W x D x H (mm)			3270×765×1795	3270×765×1795	3745×765×1795	3745×765×1795	3745×765×1795
Product Net Weight (kg)			374+350	374+374	307+307+307	307+307+307	307+307+307
Product Gross Weight (kg)			398+374	398+398	328+328+328	328+328+328	328+328+328
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		65	65	66	66	66
	Operating Sound (dB(A), PWL)		89	89	90	90	90
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	67	67	67	67
	Operating Sound (dB(A), PWL)		91	91	91	91	91
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		62	63	58	58	58
	Operating Sound (dB(A), PWL)		85	87	82	82	82
Electric Characteristics	Power Consumption (kW)	Cooling	24.0	25.6	26.5	27.9	29.3
		Heating	25.7	27.3	30.2	32.2	34.2
	Power Consumption (kW)	Cooling (Including IDU)	25.0	26.6	27.5	28.9	30.4
		Heating (Including IDU)	26.6	28.3	31.1	33.2	35.3
	Operating Current (A)	Cooling	45.0	47.4	52.2	54.5	56.8
		Heating	47.5	50.0	57.9	61.2	64.5
	MAX Input (kW)		42.7	44.6	47.7	49.8	51.9
	MAX Current (A)		72.4	74.8	84.0	86.6	89.2
Energy Efficiency (Single Outdoor Unit)		Cooling EER	4.43	4.38	4.52	4.48	4.44
		Heating COP	4.64	4.62	4.47	4.27	4.10
		Cooling and Heating Average	4.54	4.50	4.50	4.38	4.27
Energy Efficiency (Including Indoor Unit)		Cooling EER	4.26	4.21	4.37	4.32	4.28
		Cooling AEER	3.96	3.94	3.95	3.92	3.90
		Heating COP	4.47	4.45	4.34	4.14	3.97
		Heating ACOP	4.16	4.15	4.01	3.88	3.76
		Cooling and Heating Average	4.37	4.33	4.36	4.23	4.13
Compressor	Motor Output (kW)		5.62×2+4.94×2	(5.62×2)×2	(4.23×2)×3	5.16×2+(4.23×2)×2	(5.16×2)×2+4.23×2
Fan	Rated Air Volume (m^3/min)		375+362	375×2	256×3	256+256×2	256×2+256
	Motor Output (kW)		0.58×2+0.52×2	(0.58×2)×2	(0.35×2)×3	0.35×2+(0.35×2)×2	(0.35×2)×2+0.35×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		22.2	22.2	30.9	30.9	30.9
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		16.8	16.8	25.2	25.2	25.2
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	38.1	38.1	38.1	38.1	38.1
		Gas Piping (High/Low Pressure)	31.75	31.75	31.75	31.75	31.75
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	38.1	38.1	38.1	38.1	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			48
Outdoor Unit Model			RAS-480RNCBLW
	Configuring Outdoor Unit		RAS-160RNCBLW
			RAS-160RNCBLW
			RAS-160RNCBLW
Power Source Specifications			3N~ 380-415V 50Hz
Cooling Capacilty (kW)			135.0
Heating Capacity (kW)			142.5
Outer Dimensions W x D x H (mm)			3745×765×1795
Product Net Weight (kg)			307+307+307
Product Gross Weight (kg)			328+328+328
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		66
	Operating Sound (dB(A), PWL)		90
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67
	Operating Sound (dB(A), PWL)		91
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		59
	Operating Sound (dB(A), PWL)		83
Electric Characteristics	Power Consumption (kW)	Cooling	30.7
		Heating	36.2
	Power Consumption (kW)	Cooling (Including IDU)	31.8
		Heating (Including IDU)	37.4
	Operating Current (A)	Cooling	59.1
		Heating	67.8
	MAX Input (kW)		53.5
	MAX Current (A)		91.8
Energy Efficiency (Single Outdoor Unit)		Cooling EER	4.40
		Heating COP	3.94
		Cooling and Heating Average	4.17
Energy Efficiency (Including Indoor Unit)		Cooling EER	4.24
		Cooling AEER	3.88
		Heating COP	3.82
		Heating ACOP	3.65
		Cooling and Heating Average	4.03
Compressor	Motor Output (kW)		(5.16×2)×3
Fan	Rated Air Volume (m^3/min)		256×3
	Motor Output (kW)		(0.35×2)×3
Refrigerant	Type		R410A
	Initial Charge Amount (kg)		30.9
Refrigerant Oil	Type		FVC68D
	Charge Amount (L)		25.2
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	38.1
		Gas Piping (High/Low Pressure)	31.75
		Liquid Piping	19.05
	Heat Pump	Gas Piping	38.1
		Liquid Piping	19.05

2. General Data

- ANZ (Standard)

Horsepower			8	10	12	14	16
Outdoor Unit Model			RAS-080RNCCLW	RAS-100RNCCLW	RAS-120RNCCLW	RAS-140RNCCLW	RAS-160RNCCLW
	Configuring Outdoor Unit		-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacilty (kW)			22.4	28.0	33.5	40.0	45.0
Heating Capacity (kW)			25.0	31.5	37.5	45.0	50.0
Outer Dimensions W x D x H (mm)			975×765×1795	975×765×1795	975×765×1795	1235×765×1795	1235×765×1795
Product Net Weight (kg)			197	203	217	271	272
Product Gross Weight (kg)			216	221	236	292	293
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		52	55	57	59	61
	Operating Sound (dB(A), PWL)		76	81	83	83	84
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		55	57	59	61	62
	Operating Sound (dB(A), PWL)		79	81	83	85	86
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		49	50	52	57	58
	Operating Sound (dB(A), PWL)		73	74	76	81	81
Electric Characteristics	Power Consumption (kW)	Cooling	4.36	6.37	8.14	9.68	11.8
		Heating	5.15	6.70	8.56	10.2	12.9
	Power Consumption (kW)	Cooling (Including IDU)	4.53	6.58	8.38	10.08	12.18
		Heating (Including IDU)	5.32	6.91	8.8	10.58	13.33
	Operating Current (A)	Cooling	7.4	11.4	15.9	19.1	22.7
		Heating	8.7	11.8	16.3	19.6	24.3
	MAX Input (kW)		10.4	12.4	13.4	15.7	19.0
	MAX Current (A)		16.1	20.0	23.3	27.7	32.7
Energy Efficiency (Single Outdoor Unit)		Cooling EER	5.14	4.40	4.12	4.13	3.82
		Heating COP	4.85	4.70	4.38	4.42	3.86
		Cooling and Heating Average	5.00	4.55	4.25	4.28	3.84
Energy Efficiency (Including Indoor Unit)		Cooling EER	4.94	4.26	4.00	3.97	3.69
		Cooling AEER	4.53	3.97	3.80	3.75	3.54
		Heating COP	4.70	4.66	4.26	4.25	3.76
		Heating ACOP	4.33	4.27	4.02	3.91	3.55
		Cooling and Heating Average	4.82	4.41	4.13	4.11	3.72
Compressor	Motor Output (kW)		4.44	5.88	7.42	8.76	11.2
Fan	Rated Air Volume (m^3/min)		175	175	198	239	256
	Motor Output (kW)		0.26	0.26	0.43	0.3×2	0.35×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		5.6	5.6	8.3	8.9	9.5
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		6.0	6.0	6.0	6.9	6.9
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	19.05	22.2	25.4	25.4	28.58
		Gas Piping (High/Low Pressure)	15.88	19.05	22.2	22.2	22.2
		Liquid Piping	9.52	9.52	12.7	12.7	12.7
	Heat Pump	Gas Piping	19.05	22.2	25.4	25.4	28.58
		Liquid Piping	9.52	9.52	12.7	12.7	12.7

Horsepower			18	20	22	24	26
Outdoor Unit Model			RAS-180RNCCLW	RAS-200RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW
	Configuring Outdoor Unit		-	-	-	-	RAS-140RNCCLW
			-	-	-	-	RAS-120RNCCLW
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacilty (kW)			50.4	56.0	61.5	67.0	73.5
Heating Capacity (kW)			56.0	63.0	69.0	77.5	82.5
Outer Dimensions W x D x H (mm)			1235×765×1795	1625×765×1795	1625×765×1795	1625×765×1795	2230×765×1795
Product Net Weight (kg)			272	350	350	375	271+217
Product Gross Weight (kg)			293	374	374	399	292+236
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		61	59	59	61	61
	Operating Sound (dB(A), PWL)		84	84	84	84	86
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		63	62	62	63	63
	Operating Sound (dB(A), PWL)		87	85	86	88	87
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		57	56	57	60	58
	Operating Sound (dB(A), PWL)		80	76	78	84	82
Electric Characteristics	Power Consumption (kW)	Cooling	12.7	12.9	15.2	18.1	17.8
		Heating	14.6	13.8	18.6	22.8	18.7
	Power Consumption (kW)	Cooling (Including IDU)	13.17	13.44	15.76	18.83	18.46
		Heating (Including IDU)	15.01	14.36	19.14	23.52	19.38
	Operating Current (A)	Cooling	24.2	23.9	28.2	33.6	35.0
		Heating	27.3	25.3	34.0	41.8	35.9
	MAX Input (kW)		23.1	23.9	25.5	31.6	29.0
	MAX Current (A)		39.7	40.0	42.7	53.0	51.0
Energy Efficiency (Single Outdoor Unit)		Cooling EER	3.96	4.33	4.04	3.70	4.12
		Heating COP	3.84	4.55	3.71	3.40	4.40
		Cooling and Heating Average	3.90	4.44	3.88	3.55	4.26
Energy Efficiency (Including Indoor Unit)		Cooling EER	3.83	4.17	3.90	3.56	3.98
		Cooling AEER	3.65	3.89	3.68	3.40	3.77
		Heating COP	3.73	4.39	3.61	3.30	4.26
		Heating ACOP	3.62	4.05	3.44	3.18	3.96
		Cooling and Heating Average	3.78	4.28	3.76	3.43	4.12
Compressor	Motor Output (kW)		12.65	5.93×2	8.15×2	10.03×2	8.76+7.42
Fan	Rated Air Volume (m^3/min)		263	329	329	348	239+198
	Motor Output (kW)		0.38×2	0.4×2	0.4×2	0.47×2	0.3×2+0.43
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		10.2	11.2	11.2	11.5	17.2
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		6.9	8.4	8.4	8.4	12.9
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	28.58	28.58	28.58	28.58	31.75
		Gas Piping (High/Low Pressure)	22.2	22.2	25.4	25.4	25.4
		Liquid Piping	15.88	15.88	15.88	15.88	19.05
	Heat Pump	Gas Piping	28.58	28.58	28.58	28.58	31.75
		Liquid Piping	15.88	15.88	15.88	15.88	19.05

Horsepower			28	30	32	34	36
Outdoor Unit Model			RAS-280RNCCLW	RAS-300RNCCLW	RAS-320RNCCLW	RAS-340RNCCLW	RAS-360RNCCLW
	Configuring Outdoor Unit		RAS-160RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW
			RAS-120RNCCLW	RAS-120RNCCLW	RAS-140RNCCLW	RAS-160RNCCLW	RAS-180RNCCLW
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			78.5	83.9	90.4	95.4	100.8
Heating Capacity (kW)			87.5	93.5	101.0	106.0	112.0
Outer Dimensions W x D x H (mm)			2230×765×1795	2230×765×1795	2490×765×1795	2490×765×1795	2490×765×1795
Product Net Weight (kg)			272+217	272+217	272+271	272+272	272+272
Product Gross Weight (kg)			293+236	293+236	293+292	293+293	293+293
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		62	62	63	64	64
	Operating Sound (dB(A), PWL)		87	87	87	87	87
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		64	64	65	66	66
	Operating Sound (dB(A), PWL)		88	88	89	90	90
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		59	58	60	61	60
	Operating Sound (dB(A), PWL)		82	81	84	84	83
Electric Characteristics	Power Consumption (kW)	Cooling	19.9	20.9	22.4	24.5	25.5
		Heating	21.5	23.1	24.8	27.5	29.1
	Power Consumption (kW)	Cooling (Including IDU)	20.56	21.55	23.25	25.35	26.34
		Heating (Including IDU)	22.13	23.81	25.59	28.34	30.02
	Operating Current (A)	Cooling	38.6	40.1	43.3	46.9	48.4
		Heating	40.6	43.6	46.9	51.6	54.6
	MAX Input (kW)		32.2	36.7	38.8	42.2	46.2
	MAX Current (A)		56.0	63.0	67.4	72.4	79.4
Energy Efficiency (Single Outdoor Unit)		Cooling EER	3.94	4.02	4.03	3.89	3.96
		Heating COP	4.07	4.04	4.08	3.85	3.84
		Cooling and Heating Average	4.01	4.03	4.06	3.87	3.90
Energy Efficiency (Including Indoor Unit)		Cooling EER	3.82	3.89	3.89	3.76	3.83
		Cooling AEER	3.65	3.71	3.69	3.60	3.65
		Heating COP	3.95	3.93	3.95	3.74	3.73
		Heating ACOP	3.74	3.77	3.74	3.59	3.62
		Cooling and Heating Average	3.89	3.91	3.92	3.75	3.78
Compressor	Motor Output (kW)		11.2+7.42	12.65+7.42	12.65+8.76	12.65+11.2	(12.65)×2
Fan	Rated Air Volume (m^3/min)		256+198	262+198	262+229	262+256	262×2
	Motor Output (kW)		0.35×2+0.43	0.38×2+0.43	0.38×2+0.3×2	0.38×2+0.35×2	(0.38×2)×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		17.8	18.5	19.1	19.7	20.4
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		12.9	12.9	13.8	13.8	13.8
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	31.75	31.75	31.75	31.75	38.1
		Gas Piping (High/Low Pressure)	28.58	28.58	28.58	28.58	28.58
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	31.75	31.75	31.75	31.75	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			38	40	42	44	46
Outdoor Unit Model			RAS-380RNCCLW	RAS-400RNCCLW	RAS-420RNCCLW	RAS-440RNCCLW	RAS-460RNCCLW
	Configuring Outdoor Unit		RAS-220RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW
			RAS-160RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-220RNCCLW	RAS-220RNCCLW
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			106.5	111.9	117.4	123.0	128.5
Heating Capacity (kW)			119.0	125.0	133.5	138.0	146.5
Outer Dimensions W x D x H (mm)			2880×765×1795	2880×765×1795	2880×765×1795	3270×765×1795	3270×765×1795
Product Net Weight (kg)			350+272	350+272	375+272	350+350	375+350
Product Gross Weight (kg)			374+293	374+293	399+293	374+374	399+374
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL) (Full-anechoic)		63	63	64	62	63
	Operating Sound (dB(A), PWL)		87	87	87	87	87
Heating Rating	Operating Sound (dB(A), SPL) (Full-anechoic)		66	66	66	66	66
	Operating Sound (dB(A), PWL)		89	90	91	89	90
Night Shift	Operating Sound (dB(A), SPL) (Full-anechoic)		61	60	62	60	62
	Operating Sound (dB(A), PWL)		83	82	85	81	85
Electric Characteristics	Power Consumption (kW)	Cooling	27.0	28.0	30.9	30.4	33.4
		Heating	31.5	33.2	37.4	37.2	41.4
	Power Consumption (kW)	Cooling (Including IDU)	27.94	28.93	32	31.52	34.59
		Heating (Including IDU)	32.47	34.16	38.53	38.28	42.66
	Operating Current (A)	Cooling	50.9	52.4	57.8	56.4	61.8
		Heating	58.3	61.3	69.1	68.0	75.8
	MAX Input (kW)		44.4	48.6	54.6	51.0	57.1
	MAX Current (A)		75.4	82.4	92.7	85.4	95.7
Energy Efficiency (Single Outdoor Unit)		Cooling EER	3.94	4.00	3.80	4.04	3.85
		Heating COP	3.77	3.77	3.57	3.71	3.54
		Cooling and Heating Average	3.86	3.89	3.69	3.88	3.70
Energy Efficiency (Including Indoor Unit)		Cooling EER	3.81	3.87	3.67	3.90	3.71
		Cooling AEER	3.62	3.67	3.50	3.68	3.53
		Heating COP	3.66	3.66	3.46	3.61	3.43
		Heating ACOP	3.49	3.52	3.35	3.44	3.30
		Cooling and Heating Average	3.74	3.77	3.57	3.76	3.57
Compressor	Motor Output (kW)		8.15×2+11.2	8.15×2+12.65	10.03×2+12.65	(8.15×2)×2	10.03×2+8.15×2
Fan	Rated Air Volume (m^3/min)		329+256	329+263	348+263	329×2	348+329
	Motor Output (kW)		0.4×2+0.35×2	0.4×2+0.38×2	0.47×2+0.38×2	(0.4×2)×2	0.47×2+0.4×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		20.7	21.4	21.7	22.4	22.7
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		15.3	15.3	15.3	16.8	16.8
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	38.1	38.1	38.1	38.1	38.1
		Gas Piping (High/Low Pressure)	31.75	31.75	31.75	31.75	31.75
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	38.1	38.1	38.1	38.1	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			48	50	52	54	56
Outdoor Unit Model			RAS-480RNCCLW	RAS-500RNCCLW	RAS-520RNCCLW	RAS-540RNCCLW	RAS-560RNCCLW
	Configuring Outdoor Unit		RAS-240RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-220RNCCLW
			RAS-240RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW
			-	RAS-140RNCCLW	RAS-160RNCCLW	RAS-180RNCCLW	RAS-160RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			134.0	140.8	145.8	151.2	156.9
Heating Capacity (kW)			155.0	157.0	162.0	168.0	175.0
Outer Dimensions W x D x H (mm)			3270×765×1795	3745×765×1795	3745×765×1795	3745×765×1795	4135×765×1795
Product Net Weight (kg)			375+375	272+272+271	272+272+272	272+272+272	350+272+272
Product Gross Weight (kg)			399+399	293+293+292	293+293+293	293+293+293	374+293+293
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL) (Full-anechoic)		64	65	66	66	65
	Operating Sound (dB(A), PWL)		87	88	89	89	89
Heating Rating	Operating Sound (dB(A), SPL) (Full-anechoic)		66	67	67	66	67
	Operating Sound (dB(A), PWL)		91	91	91	92	91
Night Shift	Operating Sound (dB(A), SPL) (Full-anechoic)		63	62	62	62	62
	Operating Sound (dB(A), PWL)		87	85	85	85	85
Electric Characteristics	Power Consumption (kW)	Cooling	36.3	35.1	37.3	38.2	39.7
		Heating	45.6	39.3	42.1	43.7	46.1
	Power Consumption (kW)	Cooling (Including IDU)	37.66	36.42	38.52	39.51	41.11
		Heating (Including IDU)	47.04	40.6	43.35	45.03	47.48
	Operating Current (A)	Cooling	67.2	67.5	71.1	72.6	75.1
		Heating	83.6	74.2	78.9	81.9	85.6
	MAX Input (kW)		63.2	62.4	65.3	69.3	67.8
	MAX Current (A)		106.0	107.1	112.1	119.1	115.1
Energy Efficiency (Single Outdoor Unit)		Cooling EER	3.70	4.01	3.91	3.96	3.95
		Heating COP	3.40	3.99	3.85	3.84	3.80
		Cooling and Heating Average	3.55	4.00	3.88	3.90	3.88
Energy Efficiency (Including Indoor Unit)		Cooling EER	3.56	3.87	3.79	3.83	3.82
		Cooling AEER	3.40	3.68	3.62	3.65	3.63
		Heating COP	3.30	3.87	3.74	3.73	3.69
		Heating ACOP	3.18	3.70	3.60	3.62	3.53
		Cooling and Heating Average	3.43	3.87	3.77	3.78	3.76
Compressor	Motor Output (kW)		(10.03×2)×2	(12.65)×2+8.76	(12.65)×2+11.2	(12.65)×3	8.15×2+12.65+11.2
Fan	Rated Air Volume (m^3/min)		348×2	263×2+239	263×2+256	263×3	329+263+256
	Motor Output (kW)		(0.47×2)×2	(0.38×2)×2+0.3×2	(0.38×2)×2+0.35×2	(0.38×2)×3	0.4×2+0.38×2 +0.35×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		23.0	29.3	29.9	30.6	30.9
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		16.8	20.7	20.7	20.7	22.2
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	38.1	38.1	38.1	38.1	44.45
		Gas Piping (High/Low Pressure)	31.75	31.75	31.75	31.75	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	38.1	38.1	38.1	38.1	44.45
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			58	60	62	64
Outdoor Unit Model			RAS-580RNCCLW	RAS-600RNCCLW	RAS-620RNCCLW	RAS-640RNCCLW
	Configuring Outdoor Unit		RAS-220RNCCLW	RAS-240RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW
			RAS-180RNCCLW	RAS-180RNCCLW	RAS-220RNCCLW	RAS-220RNCCLW
			RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz	3N~ 380-415V 50Hz
Cooling Capacity (kW)			162.3	167.8	173.4	178.9
Heating Capacity (kW)			181.0	189.5	194.0	202.5
Outer Dimensions W x D x H (mm)			4135×765×1795	4135×765×1795	4525×765×1795	4525×765×1795
Product Net Weight (kg)			350+272+272	375+272+272	350+350+272	375+350+272
Product Gross Weight (kg)			374+293+293	399+293+293	374+374+293	399+374+293
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		65	66	65	65
	Operating Sound (dB(A), PWL)		89	89	89	89
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	68	67	67
	Operating Sound (dB(A), PWL)		91	92	91	92
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		62	63	62	63
	Operating Sound (dB(A), PWL)		84	87	84	86
Electric Characteristics	Power Consumption (kW)	Cooling	40.7	43.6	43.2	46.1
		Heating	47.7	52.0	51.8	56.0
	Power Consumption (kW)	Cooling (Including IDU)	42.1	45.17	44.69	47.76
		Heating (Including IDU)	49.16	53.54	53.29	57.67
	Operating Current (A)	Cooling	76.6	82.0	80.6	86.0
		Heating	88.6	96.4	95.3	103.1
	MAX Input (kW)		72.0	78.0	74.6	80.8
	MAX Current (A)		122.1	132.4	125.1	135.4
Energy Efficiency (Single Outdoor Unit)		Cooling EER	3.99	3.85	4.02	3.88
		Heating COP	3.79	3.65	3.75	3.62
		Cooling and Heating Average	3.89	3.75	3.89	3.75
Energy Efficiency (Including Indoor Unit)		Cooling EER	3.86	3.71	3.88	3.75
		Cooling AEER	3.66	3.55	3.67	3.56
		Heating COP	3.68	3.54	3.64	3.51
		Heating ACOP	3.55	3.43	3.49	3.38
		Cooling and Heating Average	3.77	3.63	3.76	3.63
Compressor	Motor Output (kW)		8.15×2+(12.65)×2	10.03×2+(12.65)×2	(8.15×2)×2+12.65	10.03×2+8.15×2 +12.65
Fan	Rated Air Volume (m^3/min)		329+263×2	348+263×2	329×2+263	348+329+263
	Motor Output (kW)		0.4×2+(0.38×2)×2	0.47×2+(0.38×2)×2	(0.4×2)×2+0.38×2	0.47×2+0.4×2 +0.38×2
Refrigerant	Type		R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		31.6	31.9	32.6	32.9
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		22.2	22.2	23.7	23.7
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	44.45	44.45	44.45	44.45
		Gas Piping (High/Low Pressure)	38.1	38.1	38.1	38.1
		Liquid Piping	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	44.45	44.45	44.45	44.45
		Liquid Piping	19.05	19.05	19.05	19.05

- LA (Standard) (380V)

Horsepower			8	10	12	14	16
Outdoor Unit Model			RAS-080RNCCLW	RAS-100RNCCLW	RAS-120RNCCLW	RAS-140RNCCLW	RAS-160RNCCLW
	Configuring Outdoor Unit		-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacity (kW)			22.4	28.0	33.5	40.0	45.0
Heating Capacity (kW)			25.0	31.5	37.5	45.0	50.0
Outer Dimensions W x D x H (mm)			975×765×1795	975×765×1795	975×765×1795	1235×765×1795	1235×765×1795
Product Net Weight (kg)			197	203	217	271	272
Product Gross Weight (kg)			203	208	225	280	281
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		52	55	57	59	61
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		55	57	59	61	62
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		49	50	52	57	58
Electric Characteristics	Power Consumption (kW)	Cooling	4.00	5.73	7.21	8.55	9.91
		Heating	4.27	6.18	7.81	9.91	11.5
	Operating Current (A)	Cooling	6.8/6.8	10.2/10.0	14.0/13.5	16.9/16.4	19.1/18.6
		Heating	7.2/7.2	10.9/10.7	14.8/14.3	19.1/18.6	21.6/21.0
	MAX Input (kW)		10.4/10.4	12.4/12.7	13.4/13.9	15.7/16.1	19.0/19.5
	MAX Current (A)		16.1	20.0	23.3	27.7	32.7
Energy Efficiency(Single Outdoor Unit)		Cooling EER	5.60	4.89	4.65	4.68	4.54
		Heating COP	5.85	5.10	4.80	4.54	4.35
		Cooling and Heating Average	5.73	5.00	4.73	4.61	4.45
Compressor	Motor Output (kW)		3.63	5.40	6.72	8.48	9.84
Fan	Rated Air Volume (m^3/min)		175	176	198	239	256
	Motor Output (kW)		0.26	0.26	0.43	0.3×2	0.35×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		5.6	5.6	8.3	8.9	9.5
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		6.0	6.0	6.0	6.9	6.9
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	19.05	22.2	25.4	25.4	28.58
		Gas Piping (High/Low Pressure)	15.88	19.05	22.2	22.2	22.2
		Liquid Piping	9.52	9.52	12.7	12.7	12.7
	Heat Pump	Gas Piping	19.05	22.2	25.4	25.4	28.58
		Liquid Piping	9.52	9.52	12.7	12.7	12.7

Horsepower			18	20	22	24	26
Outdoor Unit Model			RAS-180RNCCLW	RAS-200RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW
	Configuring Outdoor Unit		-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacity (kW)			50.4	56.0	61.5	67.0	73.0
Heating Capacity (kW)			56.0	63.0	69.0	77.5	81.5
Outer Dimensions W x D x H (mm)			1235×765×1795	1625×765×1795	1625×765×1795	1625×765×1795	1625×765×1795
Product Net Weight (kg)			272	350	350	350	375
Product Gross Weight (kg)			282	361	361	362	386
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		61	63	63	61	62
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		63	65	65	64	65
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		57	56	57	57	60
Electric Characteristics	Power Consumption (kW)	Cooling	11.7	12.4	13.8	16.2	18.7
		Heating	12.4	12.9	15.6	19.9	24.2
	Operating Current (A)	Cooling	22.2/21.4	23.0/22.2	25.6/24.7	30.0/28.9	34.7/33.5
		Heating	23.2/22.4	23.6/22.8	28.6/27.6	36.4/35.1	44.4/42.8
	MAX Input (kW)		23.1/24.0	23.9/24.7	25.48/26.40	31.6/32.8	34.8/36.0
	MAX Current (A)		39.7	40.0	42.7	53.0	58.3
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.30	4.50	4.44	4.14	3.90
		Heating COP	4.53	4.88	4.41	3.90	3.36
		Cooling and Heating Average	4.42	4.69	4.43	4.02	3.63
Compressor	Motor Output (kW)		10.59	5.5×2	6.77×2	8.67×2	10.55×2
Fan	Rated Air Volume (m^3/min)		263	329	329	348	375
	Motor Output (kW)		0.38×2	0.4×2	0.4×2	0.47×2	0.58×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		10.2	11.2	11.2	11.5	11.5
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		6.9	8.4	8.4	8.4	8.4
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	28.58	28.58	28.58	28.58	31.75
		Gas Piping (High/Low Pressure)	22.2	22.2	25.4	25.4	25.4
		Liquid Piping	15.88	15.88	15.88	15.88	19.05
	Heat Pump	Gas Piping	28.58	28.58	28.58	28.58	31.75
		Liquid Piping	15.88	15.88	15.88	15.88	19.05

Horsepower			28	30	32	34	36
Outdoor Unit Model			RAS-280RNCCLW	RAS-300RNCCLW	RAS-320RNCCLW	RAS-340RNCCLW	RAS-360RNCCLW
	Configuring Outdoor Unit		-	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW
			-	RAS-120RNCCLW	RAS-140RNCCLW	RAS-160RNCCLW	RAS-180RNCCLW
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacity (kW)			77.5	83.9	90.4	95.4	100.8
Heating Capacity (kW)			86.0	93.5	101.0	106.0	112.0
Outer Dimensions W x D x H (mm)			1625×765×1795	2230×765×1795	2490×765×1795	2490×765×1795	2490×765×1795
Product Net Weight (kg)			375	272+217	272+271	272+272	272+272
Product Gross Weight (kg)			386	282+225	282+280	282+281	282+282
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		62	62	63	64	64
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		65	64	65	66	66
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		60	58	60	61	60
Electric Characteristics	Power Consumption (kW)	Cooling	20.8	18.9	20.3	21.6	23.4
		Heating	29.5	20.2	22.3	23.9	24.7
	Operating Current (A)	Cooling	38.4/37.1	36.2/34.9	39.1/37.8	41.3/40.0	44.4/42.8
		Heating	53.9/52.0	38.0/36.7	42.3/41.0	44.8/43.4	46.4/44.8
	MAX Input (kW)		35.4/36.7	36.7/38.0	38.8/40.2	42.2/43.2	46.2/48.0
	MAX Current (A)		59.4	63.0	67.4	72.4	79.4
Energy Efficiency(Single Outdoor Unit)		Cooling EER	3.73	4.43	4.46	4.41	4.30
		Heating COP	2.92	4.64	4.54	4.44	4.53
		Cooling and Heating Average	3.33	4.54	4.50	4.43	4.42
Compressor	Motor Output (kW)		12.98×2	10.59+6.72	10.59+8.48	10.59+9.84	(10.59)×2
Fan	Rated Air Volume (m^3/min)		375	263+198	263+239	263+256	263×2
	Motor Output (kW)		0.58×2	0.38×2+0.43	0.38×2+0.3×2	0.38×2+0.35×2	(0.38×2)×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		11.5	18.5	19.1	19.7	20.4
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		8.4	12.9	13.8	13.8	13.8
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	31.75	31.75	31.75	31.75	38.1
		Gas Piping (High/Low Pressure)	28.58	28.58	28.58	28.58	28.58
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	31.75	31.75	31.75	31.75	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			38	40	42	44	46
Outdoor Unit Model			RAS-380RNCCLW	RAS-400RNCCLW	RAS-420RNCCLW	RAS-440RNCCLW	RAS-460RNCCLW
	Configuring Outdoor Unit		RAS-220RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW
			RAS-160RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-220RNCCLW	RAS-220RNCCLW
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacity (kW)			106.5	111.9	117.4	123.0	128.5
Heating Capacity (kW)			119.0	125.0	133.5	138.0	146.5
Outer Dimensions W x D x H (mm)			2880×765×1795	2880×765×1795	2880×765×1795	3270×765×1795	3270×765×1795
Product Net Weight (kg)			350+272	350+272	350+272	350+350	350+350
Product Gross Weight (kg)			361+281	361+282	362+282	361+361	362+361
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		65	65	64	66	65
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	67	67	68	68
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		61	60	60	60	60
Electric Characteristics	Power Consumption (kW)	Cooling	23.8	25.6	27.9	27.7	30.0
		Heating	27.1	28.0	32.2	31.3	35.5
	Operating Current (A)	Cooling	44.7/43.3	47.8/46.1	52.2/50.3	51.2/49.4	56.6/53.6
		Heating	50.2/48.6	51.8/50.0	59.6/57.5	57.2/55.2	65.0/62.7
	MAX Input (kW)		44.4/46.1	48.6/50.3	54.6/56.6	51.0/52.8	57.1/59.2
	MAX Current (A)		75.4	82.4	92.7	85.4	95.7
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.48	4.38	4.21	4.44	4.28
		Heating COP	4.39	4.46	4.14	4.41	4.13
		Cooling and Heating Average	4.44	4.42	4.18	4.43	4.21
Compressor	Motor Output (kW)		6.77×2+9.84	6.77×2+10.59	8.67×2+10.59	(6.77×2)×2	8.67×2+6.77×2
Fan	Rated Air Volume (m^3/min)		329+256	329+263	348+263	329×2	348+329
	Motor Output (kW)		0.4×2+0.35×2	0.4×2+0.38×2	0.47×2+0.38×2	(0.4×2)×2	0.47×2+0.4×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		20.7	21.4	21.7	22.4	22.7
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		15.3	15.3	15.3	16.8	16.8
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	38.1	38.1	38.1	38.1	38.1
		Gas Piping (High/Low Pressure)	31.75	31.75	31.75	31.75	31.75
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	38.1	38.1	38.1	38.1	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			48	50	52	54	56
Outdoor Unit Model			RAS-480RNCCLW	RAS-500RNCCLW	RAS-520RNCCLW	RAS-540RNCCLW	RAS-560RNCCLW
	Configuring Outdoor Unit		RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW
			RAS-240RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacilty (kW)			134.0	140.0	146.0	150.5	155.0
Heating Capacity (kW)			155.0	159.0	163.0	167.5	172.0
Outer Dimensions W x D x H (mm)			3270×765×1795	3270×765×1795	3270×765×1795	3270×765×1795	3270×765×1795
Product Net Weight (kg)			350+350	375+350	375+375	375+375	375+375
Product Gross Weight (kg)			362+362	386+362	386+386	386+386	386+386
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		64	65	65	65	65
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	68	68	68	68
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		60	62	63	63	63
Electric Characteristics	Power Consumption (kW)	Cooling	32.3	34.9	37.5	39.5	41.5
		Heating	39.7	44.1	48.5	53.7	58.9
	Operating Current (A)	Cooling	60.0/57.8	64.7/62.4	69.4/67.0	73.1/70.6	76.8/74.2
		Heating	72.8/70.2	80.8/77.9	88.8/85.6	98.3/94.8	107.8/104.0
	MAX Input (kW)		63.2/65.5	66.4/68.8	69.56/72.1	70.2/72.8	70.9/73.4
	MAX Current (A)		106.0	111.3	116.6	117.7	118.8
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.14	4.01	3.90	3.81	3.73
		Heating COP	3.90	3.61	3.36	3.12	2.92
		Cooling and Heating Average	4.02	3.81	3.63	3.47	3.33
Compressor	Motor Output (kW)		(8.67×2)×2	10.56×2+8.67×2	(10.56×2)×2	12.98×2+10.56×2	(12.98×2)×2
Fan	Rated Air Volume (m³/min)		348×2	375+348	375×2	375+375	375×2
	Motor Output (kW)		(0.47×2)×2	0.58×2+0.47×2	(0.58×2)×2	0.58×2+0.58×2	(0.58×2)×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		23.0	23.0	23.0	23.0	23.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		16.8	16.8	16.8	16.8	16.8
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	38.1	38.1	38.1	38.1	44.45
		Gas Piping (High/Low Pressure)	31.75	31.75	31.75	31.75	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	38.1	38.1	38.1	38.1	44.45
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			58	60	62	64	66
Outdoor Unit Model			RAS-580RNCCLW	RAS-600RNCCLW	RAS-620RNCCLW	RAS-640RNCCLW	RAS-660RNCCLW
	Configuring Outdoor Unit		RAS-220RNCCLW	RAS-240RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW
			RAS-180RNCCLW	RAS-180RNCCLW	RAS-220RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW
			RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW	RAS-180RNCCLW
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacilty (kW)			162.3	167.8	173.4	178.9	184.4
Heating Capacity (kW)			181.0	189.5	194.0	202.5	211.0
Outer Dimensions W x D x H (mm)			4135×765×1795	4135×765×1795	4525×765×1795	4525×765×1795	4525×765×1795
Product Net Weight (kg)			350+272+272	350+272+272	350+350+272	350+350+272	350+350+272
Product Gross Weight (kg)			361+282+282	362+282+282	361+361+282	362+361+282	362+362+282
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	66	67	67	66
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		69	68	69	69	68
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		62	62	62	62	62
Electric Characteristics	Power Consumption (kW)	Cooling	37.3	39.6	39.4	41.7	44.1
		Heating	40.4	44.6	43.6	47.9	52.1
	Operating Current (A)	Cooling	70.0/67.5	74.4/71.7	73.4/70.8	77.8/75.0	82.2/79.2
		Heating	75.0/72.4	82.8/79.9	80.4/77.6	88.2/85.1	96.0/92.6
	MAX Input (kW)		72.0/74.6	78.0/80.9	73.7/76.4	79.8/82.7	85.9/89.0
	MAX Current (A)		122.1	132.4	125.1	135.4	145.7
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.36	4.24	4.40	4.29	4.19
		Heating COP	4.48	4.25	4.45	4.23	4.05
		Cooling and Heating Average	4.42	4.25	4.43	4.26	4.12
Compressor	Motor Output (kW)		6.77×2+(10.59)×2	8.67×2+(10.59)×2	(6.77×2)×2+10.59	8.67×2+6.77×2 +10.59	(8.67×2)×2+10.59
Fan	Rated Air Volume (m³/min)		329+263×2	348+263×2	329×2+263	348+329+263	348×2+263
	Motor Output (kW)		0.4×2+(0.38×2)×2	0.47×2+(0.38×2)×2	(0.4×2)×2+0.38×2	0.47×2+0.4×2 +0.38×2	(0.47×2)×2+0.38×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		31.6	31.9	32.6	32.9	33.2
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		22.2	22.2	23.7	23.7	23.7
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	44.45	44.45	44.45	44.45	44.45
		Gas Piping (High/Low Pressure)	38.1	38.1	38.1	38.1	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	44.45	44.45	44.45	44.45	44.45
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			68	70	72	74	76
Outdoor Unit Model			RAS-680RNCCLW	RAS-700RNCCLW	RAS-720RNCCLW	RAS-740RNCCLW	RAS-760RNCCLW
	Configuring Outdoor Unit		RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW
			RAS-220RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW
			RAS-220RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW
			-	-	-	-	-
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacity (kW)			190.0	195.5	201.0	207.0	213.0
Heating Capacity (kW)			215.5	224.0	232.5	236.5	240.5
Outer Dimensions W x D x H (mm)			4915×765×1795	4915×765×1795	4915×765×1795	4915×765×1795	4915×765×1795
Product Net Weight (kg)			350+350+350	350+350+350	350+350+350	375+350+350	375+375+350
Product Gross Weight (kg)			362+361+361	362+362+361	362+362+362	386+362+362	386+386+362
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	67	66	66	66
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		69	69	69	69	69
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		62	62	62	63	64
Electric Characteristics	Power Consumption (kW)	Cooling	43.9	46.2	48.5	51.1	53.6
		Heating	51.2	55.4	59.6	64.0	68.3
	Operating Current (A)	Cooling	81.2/78.3	85.6/82.5	90.0/86.7	94.7/91.3	99.4/95.9
		Heating	93.6/90.3	101.4/97.8	109.2/105.3	117.2/113.0	125.2/120.7
	MAX Input (kW)		82.6/85.6	88.7/91.9	94.9/98.3	98.0/101.6	101.2/104.8
	MAX Current (A)		138.4	148.7	159.0	164.3	169.6
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.33	4.23	4.14	4.05	3.97
		Heating COP	4.21	4.04	3.90	3.70	3.52
		Cooling and Heating Average	4.27	4.14	4.02	3.88	3.75
Compressor	Motor Output (kW)		8.67×2+(6.77×2)×2	(8.67×2)×2+6.77×2	(8.67×2)×3	10.55×2+(8.67×2)×2	(10.55×2)×2+8.67×2
Fan	Rated Air Volume (m^3/min)		348+329×2	348×2+329	348×3	375+348×2	375×2+348
	Motor Output (kW)		0.47×2+(0.4×2)×2	(0.47×2)×2+0.4×2	(0.47×2)×3	0.58×2+(0.47×2)×2	(0.58×2)×2+0.47×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		33.9	34.2	34.5	34.5	34.5
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		25.2	25.2	25.2	25.2	25.2
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	44.45	44.45	44.45	50.8	50.8
		Gas Piping (High/Low Pressure)	38.1	38.1	38.1	44.45	44.45
		Liquid Piping	22.2	22.2	22.2	22.2	22.2
	Heat Pump	Gas Piping	44.45	44.45	44.45	50.8	50.8
		Liquid Piping	22.20	22.20	22.20	22.2	22.2

Horsepower			78	80	82	84	86
Outdoor Unit Model			RAS-780RNCCLW	RAS-800RNCCLW	RAS-820RNCCLW	RAS-840RNCCLW	RAS-860RNCCLW
	Configuring Outdoor Unit		RAS-260RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW	RAS-240RNCCLW
			RAS-260RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW	RAS-220RNCCLW
			RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW	RAS-220RNCCLW
			-	-	-	-	RAS-180RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacity (kW)			219.0	223.5	228.0	232.5	240.4
Heating Capacity (kW)			244.5	249.0	253.5	258.0	271.5
Outer Dimensions W x D x H (mm)			4915×765×1795	4915×765×1795	4915×765×1795	4915×765×1795	6170×765×1795
Product Net Weight (kg)			375+375+375	375+375+375	375+375+375	375+375+375	350+350+350+272
Product Gross Weight (kg)			386+386+386	386+386+386	386+386+386	386+386+386	362+361+361+282
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	67	67	67	68
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		70	70	70	70	70
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		65	65	65	65	63
Electric Characteristics	Power Consumption (kW)	Cooling	56.2	58.2	60.2	62.3	55.6
		Heating	72.7	77.9	83.1	88.4	63.5
	Operating Current (A)	Cooling	104.1/100.5	107.8/104.1	111.5/107.7	115.2/111.3	103.4/99.7
		Heating	133.2/128.4	142.7/137.6	152.2/146.8	161.7/156.0	116.8/112.7
	MAX Input (kW)		104.4/108.1	105.0/108.8	105.7/109.5	106.3/110.2	106.3/110.1
	MAX Current (A)		174.9	176.0	177.1	178.2	178.1
Energy Efficiency(Single Outdoor Unit)		Cooling EER	3.90	3.84	3.79	3.73	4.33
		Heating COP	3.36	3.20	3.05	2.92	4.27
		Cooling and Heating Average	3.63	3.52	3.42	3.33	4.30
Compressor	Motor Output (kW)		(10.55×2)×3	12.98×2 +(10.55×2)×2	(12.98×2)×2 +10.55×2	(12.98×2)×3	8.67×2+(6.77×2)×2 +10.59
Fan	Rated Air Volume (m^3/min)		375×3	375+375×2	375×2+375	375×3	348+329×2+263
	Motor Output (kW)		(0.58×2)×3	0.58×2+(0.58×2)×2	(0.58×2)×2+0.58×2	(0.58×2)×3	0.47×2+(0.4×2)×2 +0.38×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		34.5	34.5	34.5	34.5	44.1
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		25.2	25.2	25.2	25.2	32.1
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	50.8	50.8	50.8	50.8	50.8
		Gas Piping (High/Low Pressure)	44.45	44.45	44.45	44.45	44.45
		Liquid Piping	22.2	22.2	22.2	22.2	22.2
	Heat Pump	Gas Piping	50.8	50.8	50.8	50.8	50.8
		Liquid Piping	22.2	22.2	22.2	22.2	22.2

Horsepower			88	90	92	94	96
Outdoor Unit Model			RAS-880RNCCLW	RAS-900RNCCLW	RAS-920RNCCLW	RAS-940RNCCLW	RAS-960RNCCLW
	Configuring Outdoor Unit		RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW
			RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW
			RAS-220RNCCLW	RAS-240RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW
			RAS-180RNCCLW	RAS-180RNCCLW	RAS-220RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacity (kW)			245.9	251.4	257.0	262.5	268.0
Heating Capacity (kW)			280.0	288.5	293.0	301.5	310.0
Outer Dimensions W x D x H (mm)			6170×765×1795	6170×765×1795	6560×765×1795	6560×765×1795	6560×765×1795
Product Net Weight (kg)			350+350+350+272	350+350+350+272	350+350+350+350	350+350+350+350	350+350+350+350
Product Gross Weight (kg)			362+362+361+282	362+362+362+282	362+362+361+361	362+362+362+361	362+362+362+362
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		69	67	69	69	67
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		70	70	71	70	70
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		63	63	63	63	63
Electric Characteristics	Power Consumption (kW)	Cooling	57.9	60.2	60.0	62.4	64.7
		Heating	67.7	72.0	71.0	75.3	79.5
	Operating Current (A)	Cooling	107.8/103.9	112.2/108.1	111.2/107.2	115.6/111.4	120.0/115.6
		Heating	124.6/120.2	132.4/127.7	130.0/125.4	137.8/132.9	145.6/140.4
	MAX Input (kW)		112.4/116.5	118.6/122.8	114.2/118.3	120.3/124.7	126.5/131.1
	MAX Current (A)		188.4	198.7	191.4	201.7	212.0
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.25	4.17	4.28	4.21	4.14
		Heating COP	4.13	4.01	4.13	4.01	3.90
		Cooling and Heating Average	4.19	4.09	4.21	4.11	4.02
Compressor	Motor Output (kW)		(8.67×2)×2+6.77×2 +10.59	(8.67×2)×3+10.59	(8.67×2)×2 +(6.77×2)×2	(8.67×2)×3+6.77×2	(8.67×2)×4
Fan	Rated Air Volume (m^3/min)		348×2+329+263	348×3+263	348×2+329×2	348×3+329	348×4
	Motor Output (kW)		(0.47×2)×2+0.4×2 +0.38×2	(0.47×2)×3+0.38×2	(0.47×2)×2 +(0.4×2)×2	(0.47×2)×3+0.4×2	(0.47×2)×4
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		44.4	44.7	45.4	45.7	46.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		32.1	32.1	33.6	33.6	33.6
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	50.8	50.8	50.8	50.8	50.8
		Gas Piping (High/Low Pressure)	44.45	44.45	44.45	44.45	44.45
		Liquid Piping	22.2	25.4	25.4	25.4	25.4
	Heat Pump	Gas Piping	50.8	50.8	50.8	50.8	50.8
		Liquid Piping	22.2	25.4	25.4	25.4	25.4

Horsepower			98	100	102	104	106
Outdoor Unit Model			RAS-980RNCCLW	RAS-H00RNCCLW	RAS-H02RNCCLW	RAS-H04RNCCLW	RAS-H06RNCCLW
	Configuring Outdoor Unit		RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW
			RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW
			RAS-240RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW
			RAS-240RNCCLW	RAS-240RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW	RAS-260RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacity (kW)			274.0	280.0	286.0	292.0	296.5
Heating Capacity (kW)			314.0	318.0	322.0	326.0	330.5
Outer Dimensions W x D x H (mm)			6560×765×1795	6560×765×1795	6560×765×1795	6560×765×1795	6560×765×1795
Product Net Weight (kg)			375+350+350+350	375+375+350+350	375+375+375+350	375+375+375+375	375+375+375+375
Product Gross Weight (kg)			386+362+362+362	386+386+362+362	386+386+386+362	386+386+386+386	386+386+386+386
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	68	68	68	68
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		70	71	71	71	71
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		64	65	65	66	66
Electric Characteristics	Power Consumption (kW)	Cooling	67.2	69.8	72.4	74.9	76.9
		Heating	83.8	88.2	92.6	96.9	102.1
	Operating Current (A)	Cooling	124.7/120.2	129.4/124.8	134.1/129.4	138.8/134.0	142.5/137.6
		Heating	153.6/148.1	161.6/155.8	169.6/163.5	177.6/171.2	187.1/180.4
	MAX Input (kW)		129.6/134.3	132.8/137.6	136.0/140.9	139.1/144.2	139.8/144.8
	MAX Current (A)		217.3	222.6	227.9	233.2	234.3
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.07	4.01	3.95	3.90	3.85
		Heating COP	3.75	3.61	3.48	3.36	3.24
		Cooling and Heating Average	3.91	3.81	3.72	3.63	3.55
Compressor	Motor Output (kW)		10.55×2+(8.67×2)×3	(10.55×2)×2 +(8.67×2)×2	(10.55×2)×3+8.67×2	(10.55×2)×4	12.98×2+(10.55×2)×3
Fan	Rated Air Volume (m^3/min)		375+348×3	375×2+348×2	375×3+348	375×4	375+375×3
	Motor Output (kW)		0.58×2+(0.47×2)×3	(0.58×2)×2 +(0.47×2)×2	(0.58×2)×3+0.47×2	(0.58×2)×4	0.58×2+(0.58×2)×3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		46.0	46.0	46.0	46.0	46.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		33.6	33.6	33.6	33.6	33.6
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	54.0	54.0	54.0	54.0	54.0
		Gas Piping (High/Low Pressure)	50.8	50.8	50.8	50.8	50.8
		Liquid Piping	25.4	25.4	25.4	25.4	25.4
	Heat Pump	Gas Piping	54.0	54.0	54.0	54.0	54.0
		Liquid Piping	25.4	25.4	25.4	25.4	25.4

Horsepower			108	110	112
Outdoor Unit Model			RAS-H08RNCCLW	RAS-H10RNCCLW	RAS-H12RNCCLW
	Configuring Outdoor Unit		RAS-280RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW
			RAS-280RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW
			RAS-260RNCCLW	RAS-280RNCCLW	RAS-280RNCCLW
			RAS-260RNCCLW	RAS-260RNCCLW	RAS-280RNCCLW
Power Source Specifications			3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz	3N~ 380-415V 50Hz 3N~ 380V 60Hz
Cooling Capacity (kW)			301.0	305.5	310.0
Heating Capacity (kW)			335.0	339.5	344.0
Outer Dimensions W x D x H (mm)			6560×765×1795	6560×765×1795	6560×765×1795
Product Net Weight (kg)			375+375+375+375	375+375+375+375	375+375+375+375
Product Gross Weight (kg)			386+386+386+386	386+386+386+386	386+386+386+386
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		68	68	68
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		71	71	71
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		66	66	66
Electric Characteristics	Power Consumption (kW)	Cooling	79.0	81.0	83.0
		Heating	107.4	112.6	117.8
	Operating Current (A)	Cooling	146.2/141.2	149.9/144.8	153.6/148.4
		Heating	196.6/189.6	206.1/198.8	215.6/208.0
	MAX Input (kW)		140.4/145.5	141.1/146.2	141.8/146.9
	MAX Current (A)		235.4	236.5	237.6
Energy Efficiency(Single Outdoor Unit)		Cooling EER	3.81	3.77	3.73
		Heating COP	3.12	3.02	2.92
		Cooling and Heating Average	3.47	3.40	3.33
Compressor	Motor Output (kW)		(12.98×2)×2 +(10.55×2)×2	(12.98×2)×3+10.55×2	(12.98×2)×4
Fan	Rated Air Volume (m^3/min)		375×2+375×2	375×3+375	375×4
	Motor Output (kW)		(0.58×2)×2 +(0.58×2)×2	(0.58×2)×3+0.58×2	(0.58×2)×4
Refrigerant	Type		R410A	R410A	R410A
	Initial Charge Amount (kg)		46.0	46.0	46.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D
	Charge Amount (L)		33.6	33.6	33.6
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	54.0	54.0	54.0
		Gas Piping (High/Low Pressure)	50.8	50.8	50.8
		Liquid Piping	25.4	25.4	25.4
	Heat Pump	Gas Piping	54.0	54.0	54.0
		Liquid Piping	25.4	25.4	25.4

- LA (Standard) (220V)

Horsepower			8	10	12	14	16
Outdoor Unit Model			RAS-080RNCCRW	RAS-100RNCCRW	RAS-120RNCCRW	RAS-140RNCCRW	RAS-160RNCCRW
	Configuring Outdoor Unit		-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			22.4	28.0	33.5	40.0	45.0
Heating Capacity (kW)			25.0	31.5	37.5	45.0	50.0
Outer Dimensions W x D x H (mm)			975×765×1795	975×765×1795	975×765×1795	1235×765×1795	1235×765×1795
Product Net Weight (kg)			222	227	245	302	303
Product Gross Weight (kg)			241	246	263	323	324
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		52	55	57	59	61
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		55	57	59	61	62
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		49	50	52	57	58
Electric Characteristics	Power Consumption (kW)	Cooling	4.00	5.73	7.21	8.55	9.91
		Heating	4.27	6.18	7.81	9.91	11.5
	Operating Current (A)	Cooling	11.4	16.5	20.6	24.4	28.3
		Heating	12.2	17.8	22.3	28.3	32.8
	MAX Input (kW)		8.31	11.4	13.4	16.0	18.8
	MAX Current (A)		23.7	32.9	38.2	45.5	53.7
Energy Efficiency(Single Outdoor Unit)		Cooling EER	5.60	4.89	4.65	4.68	4.54
		Heating COP	5.85	5.10	4.80	4.54	4.35
		Cooling and Heating Average	5.73	5.00	4.73	4.61	4.45
Compressor	Motor Output (kW)		3.63	5.40	6.72	8.48	9.84
Fan	Rated Air Volume (m^3/min)		175	175	198	239	256
	Motor Output (kW)		0.26	0.26	0.43	0.6×2	0.7×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		5.6	5.6	8.3	8.9	9.5
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		6.0	6.0	6.0	6.9	6.9
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	19.05	22.2	25.4	25.4	28.58
		Gas Piping (High/Low Pressure)	15.88	19.05	22.2	22.2	22.2
		Liquid Piping	9.52	9.52	12.7	12.7	12.7
	Heat Pump	Gas Piping	19.05	22.2	25.4	25.4	28.58
		Liquid Piping	9.52	9.52	12.7	12.7	12.7

Horsepower			18	20	22	24	26
Outdoor Unit Model			RAS-180RNCCRW	RAS-200RNCCRW	RAS-220RNCCRW	RAS-240RNCCRW	RAS-260RNCCRW
	Configuring Outdoor Unit		-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			50.4	56.0	61.5	67.0	73.0
Heating Capacity (kW)			56.0	63.0	69.0	77.5	81.5
Outer Dimensions W x D x H (mm)			1235×765×1795	1625×765×1795	1625×765×1795	1625×765×1795	1625×765×1795
Product Net Weight (kg)			304	386	386	386	392
Product Gross Weight (kg)			325	410	410	411	416
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		61	63	63	61	62
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		63	65	65	64	65
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		57	56	57	57	60
Electric Characteristics	Power Consumption (kW)	Cooling	11.7	12.4	13.8	16.2	18.7
		Heating	12.4	12.9	15.6	19.9	24.2
	Operating Current (A)	Cooling	33.4	35.5	39.5	46.1	53.4
		Heating	35.3	36.8	44.6	56.7	69.1
	MAX Input (kW)		22.9	23.0	24.6	30.5	33.6
	MAX Current (A)		65.3	65.7	70.1	87.0	95.7
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.30	4.50	4.44	4.14	3.90
		Heating COP	4.53	4.88	4.41	3.90	3.36
		Cooling and Heating Average	4.42	4.69	4.43	4.02	3.63
Compressor	Motor Output (kW)		10.59	11.00×2	13.54×2	17.34×2	21.11×2
Fan	Rated Air Volume (m^3/min)		263	329	329	348	375
	Motor Output (kW)		0.75×2	0.8×2	0.8×2	0.93×2	1.16×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		10.2	11.2	11.2	11.5	11.5
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		6.9	8.4	8.4	8.4	8.4
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	28.58	28.58	28.58	28.58	31.75
		Gas Piping (High/Low Pressure)	22.2	22.2	25.4	25.4	25.4
		Liquid Piping	15.88	15.88	15.88	15.88	19.05
	Heat Pump	Gas Piping	28.58	28.58	28.58	28.58	31.75
		Liquid Piping	15.88	15.88	15.88	15.88	19.05

Horsepower			28	30	32	34	36
Outdoor Unit Model			RAS-280RNCCRW	RAS-300RNCCRW	RAS-320RNCCRW	RAS-340RNCCRW	RAS-360RNCCRW
	Configuring Outdoor Unit		-	RAS-180RNCCRW	RAS-180RNCCRW	RAS-180RNCCRW	RAS-180RNCCRW
			-	RAS-120RNCCRW	RAS-140RNCCRW	RAS-160RNCCRW	RAS-180RNCCRW
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			77.5	83.9	90.4	95.4	100.8
Heating Capacity (kW)			86.0	93.5	101.0	106.0	112.0
Outer Dimensions W x D x H (mm)			1625×765×1795	2230×765×1795	2490×765×1795	2490×765×1795	2490×765×1795
Product Net Weight (kg)			392	304+245	304+302	304+303	304+304
Product Gross Weight (kg)			416	325+263	325+323	325+324	325+325
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		62	62	63	64	64
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		65	64	65	66	66
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		60	58	60	61	60
Electric Characteristics	Power Consumption (kW)	Cooling	20.8	18.9	20.3	21.6	23.4
		Heating	29.5	20.2	22.3	23.9	24.7
	Operating Current (A)	Cooling	59.2	54.0	57.8	61.7	66.8
		Heating	84.0	57.6	63.6	68.1	70.6
	MAX Input (kW)		34.2	36.3	38.8	41.7	45.8
	MAX Current (A)		97.6	103.5	110.8	119.0	130.6
Energy Efficiency(Single Outdoor Unit)		Cooling EER	3.73	4.43	4.46	4.41	4.30
		Heating COP	2.92	4.64	4.54	4.44	4.53
		Cooling and Heating Average	3.33	4.54	4.50	4.43	4.42
Compressor	Motor Output (kW)		26.91×2	10.59+6.72	10.59+8.48	10.59+9.84	(10.59)×2
Fan	Rated Air Volume (m^3/min)		375	263+198	263+239	263+256	263×2
	Motor Output (kW)		1.16×2	0.75×2+0.43	0.75×2+0.6×2	0.75×2+0.7×2	(0.75×2)×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		11.5	18.5	19.1	19.7	20.4
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		8.4	12.9	13.8	13.8	13.8
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	31.75	31.75	31.75	31.75	38.1
		Gas Piping (High/Low Pressure)	28.58	28.58	28.58	28.58	28.58
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	31.75	31.75	31.75	31.75	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			38	40	42	44	46
Outdoor Unit Model			RAS-380RNCCRW	RAS-400RNCCRW	RAS-420RNCCRW	RAS-440RNCCRW	RAS-460RNCCRW
	Configuring Outdoor Unit		RAS-220RNCCRW	RAS-220RNCCRW	RAS-240RNCCRW	RAS-220RNCCRW	RAS-240RNCCRW
			RAS-160RNCCRW	RAS-180RNCCRW	RAS-180RNCCRW	RAS-220RNCCRW	RAS-220RNCCRW
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			106.5	111.9	117.4	123.0	128.5
Heating Capacity (kW)			119.0	125.0	133.5	138.0	146.5
Outer Dimensions W x D x H (mm)			2880×765×1795	2880×765×1795	2880×765×1795	3270×765×1795	3270×765×1795
Product Net Weight (kg)			386+303	386+304	386+304	386+386	386+386
Product Gross Weight (kg)			410+324	410+325	411+325	410+410	411+410
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		65	65	64	66	65
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	67	67	68	68
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		61	60	60	60	60
Electric Characteristics	Power Consumption (kW)	Cooling	23.8	25.6	27.9	27.7	30.0
		Heating	27.1	28.0	32.2	31.3	35.5
	Operating Current (A)	Cooling	67.8	72.9	79.5	79.0	85.6
		Heating	77.4	79.9	92.0	89.2	101.3
	MAX Input (kW)		43.4	47.5	53.4	49.1	56.1
	MAX Current (A)		123.8	135.4	152.3	140.2	157.1
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.40	4.38	4.21	4.44	4.26
		Heating COP	4.39	4.46	4.14	4.41	4.13
		Cooling and Heating Average	4.44	4.42	4.18	4.43	4.21
Compressor	Motor Output (kW)		13.54×2+9.84	13.54×2+10.59	17.34×2+10.59	(13.54×2)×2	17.34×2+13.54×2
Fan	Rated Air Volume (m^3/min)		329+256	329+263	348+263	329×2	348+329
	Motor Output (kW)		0.8×2+0.7×2	0.8×2+0.75×2	0.93×2+0.75×2	(0.8×2)×2	0.93×2+0.8×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		20.7	21.4	21.7	22.4	22.7
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		15.3	15.3	15.3	16.8	16.8
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	38.1	38.1	38.1	38.1	38.1
		Gas Piping (High/Low Pressure)	31.75	31.75	31.75	31.75	31.75
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	38.1	38.1	38.1	38.1	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			48	50	52	54	56
Outdoor Unit Model			RAS-480RNCCRW	RAS-500RNCCRW	RAS-520RNCCRW	RAS-540RNCCRW	RAS-560RNCCRW
	Configuring Outdoor Unit		RAS-240RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW	RAS-280RNCCRW	RAS-280RNCCRW
			RAS-240RNCCRW	RAS-240RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW	RAS-280RNCCRW
			-	-	-	-	-
			-	-	-	-	-
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			134.0	140.0	146.0	150.5	156.0
Heating Capacity (kW)			155.0	159.0	163.0	167.5	172.0
Outer Dimensions W x D x H (mm)			3270×765×1795	3270×765×1795	3270×765×1795	3270×765×1795	3270×765×1795
Product Net Weight (kg)			386+386	392+386	392+392	392+392	392+392
Product Gross Weight (kg)			411+411	416+411	416+416	416+416	416+416
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		64	65	65	65	65
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	68	68	68	68
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		60	62	63	63	63
Electric Characteristics	Power Consumption (kW)	Cooling	32.3	34.9	37.5	39.5	41.5
		Heating	39.7	44.1	48.5	53.7	58.9
	Operating Current (A)	Cooling	92.2	99.5	106.8	112.6	118.4
		Heating	113.4	125.8	138.2	153.1	168.0
	MAX Input (kW)		61.0	64.1	67.1	67.8	68.4
	MAX Current (A)		174.0	182.7	191.4	193.3	195.2
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.14	4.01	3.90	3.81	3.73
		Heating COP	3.90	3.61	3.36	3.12	2.92
		Cooling and Heating Average	4.02	3.81	3.63	3.47	3.33
Compressor	Motor Output (kW)		(17.34×2)×2	21.11×2+17.34×2	(21.11×2)×2	26.91×2+21.11×2	(26.91×2)×2
Fan	Rated Air Volume (m³/min)		348×2	375+348	375×2	375+375	375×2
	Motor Output (kW)		(0.93×2)×2	1.16×2+0.93×2	(1.16×2)×2	1.16×2+1.16×2	(1.16×2)×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		23.0	23.0	23.0	23.0	23.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		16.8	16.8	16.8	16.8	16.8
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	38.1	38.1	38.1	38.1	44.45
		Gas Piping (High/Low Pressure)	31.75	31.75	31.75	31.75	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	38.1	38.1	38.1	38.1	44.45
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			58	60	62	64	66
Outdoor Unit Model			RAS-580RNCCRW	RAS-600RNCCRW	RAS-620RNCCRW	RAS-640RNCCRW	RAS-660RNCCRW
	Configuring Outdoor Unit		RAS-220RNCCRW	RAS-240RNCCRW	RAS-220RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW
			RAS-180RNCCRW	RAS-180RNCCRW	RAS-220RNCCRW	RAS-220RNCCRW	RAS-240RNCCRW
			RAS-180RNCCRW	RAS-180RNCCRW	RAS-180RNCCRW	RAS-180RNCCRW	RAS-180RNCCRW
			-	-	-	-	-
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			162.3	167.8	173.4	178.9	184.4
Heating Capacity (kW)			181.0	189.5	194.0	202.5	211.0
Outer Dimensions W x D x H (mm)			4135×765×1795	4135×765×1795	4525×765×1795	4525×765×1795	4525×765×1795
Product Net Weight (kg)			386+304+304	386+304+304	386+386+304	386+386+304	386+386+304
Product Gross Weight (kg)			410+325+325	411+325+325	410+410+325	411+410+325	411+411+325
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	66	67	67	66
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		69	68	69	69	68
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		62	62	62	62	62
Electric Characteristics	Power Consumption (kW)	Cooling	37.3	39.6	39.4	41.7	44.1
		Heating	40.4	44.6	43.6	47.9	52.1
	Operating Current (A)	Cooling	106.3	112.9	112.4	119.0	125.6
		Heating	115.2	127.3	124.5	136.6	148.7
	MAX Input (kW)		70.4	76.3	72.0	78.0	83.9
	MAX Current (A)		200.7	217.6	205.5	222.4	239.3
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.36	4.24	4.40	4.29	4.19
		Heating COP	4.48	4.25	4.45	4.23	4.05
		Cooling and Heating Average	4.42	4.25	4.43	4.26	4.12
Compressor	Motor Output (kW)		13.54×2+(10.59)×2	17.34×2+(10.59)×2	(13.54×2)×2+10.59	17.34×2+13.54×2 +10.59	(17.34×2)×2+10.59
Fan	Rated Air Volume (m³/min)		329+263×2	348+263×2	329×2+263	348+329+263	348×2+263
	Motor Output (kW)		0.8×2+(0.75×2)×2	0.93×2+(0.75×2)×2	(0.8×2)×2+0.75×2	0.93×2+0.8×2 +0.75×2	(0.93×2)×2+0.75×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		31.6	31.9	32.6	32.9	33.2
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		22.2	22.2	23.7	23.7	23.7
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	44.45	44.45	44.45	44.45	44.45
		Gas Piping (High/Low Pressure)	38.1	38.1	38.1	38.1	38.1
		Liquid Piping	19.05	19.05	19.05	19.05	19.05
	Heat Pump	Gas Piping	44.45	44.45	44.45	44.45	44.45
		Liquid Piping	19.05	19.05	19.05	19.05	19.05

Horsepower			68	70	72	74	76
Outdoor Unit Model			RAS-680RNCCRW	RAS-700RNCCRW	RAS-720RNCCRW	RAS-740RNCCRW	RAS-760RNCCRW
	Configuring Outdoor Unit		RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW
			RAS-220RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW	RAS-260RNCCRW
			RAS-220RNCCRW	RAS-220RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW
			-	-	-	-	-
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			190.0	195.5	201.0	207.0	213.0
Heating Capacity (kW)			215.5	224.0	232.5	236.5	240.5
Outer Dimensions W x D x H (mm)			4915×765×1795	4915×765×1795	4915×765×1795	4915×765×1795	4915×765×1795
Product Net Weight (kg)			386+386+386	386+386+386	386+386+386	392+386+386	392+392+386
Product Gross Weight (kg)			411+410+410	411+411+410	411+411+411	416+411+411	416+416+411
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL) (Full-anechoic)		67	67	66	66	66
Heating Rating	Operating Sound (dB(A), SPL) (Full-anechoic)		69	69	69	69	69
Night Shift	Operating Sound (dB(A), SPL) (Full-anechoic)		62	62	62	63	64
Electric Characteristics	Power Consumption (kW)	Cooling	43.9	46.2	48.5	51.1	53.6
		Heating	51.2	55.4	59.6	64.0	68.3
	Operating Current (A)	Cooling	125.1	131.7	138.3	145.6	152.9
		Heating	145.9	158.0	170.1	182.5	194.9
	MAX Input (kW)		79.6	85.6	91.5	94.6	97.6
	MAX Current (A)		227.2	244.1	261.0	269.7	278.4
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.33	4.23	4.14	4.05	3.97
		Heating COP	4.21	4.04	3.90	3.70	3.52
		Cooling and Heating Average	4.27	4.14	4.02	3.88	3.75
Compressor	Motor Output (kW)		17.34×2 +(13.54×2)×2	(17.34×2)×2 +13.54×2	(17.34×2)×3	21.11×2 +(17.34×2)×2	(21.11×2)×2 +17.34×2
Fan	Rated Air Volume (m^3/min)		348+329×2	348×2+329	348×3	375+348×2	375×2+348
	Motor Output (kW)		0.93×2+(0.8×2)×2	(0.93×2)×2+0.8×2	(0.93×2)×3	1.16×2+(0.93×2)×2	(1.16×2)×2+0.93×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		33.9	34.2	34.5	34.5	34.5
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		25.2	25.2	25.2	25.2	25.2
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	44.45	44.45	44.45	50.8	50.8
		Gas Piping (High/Low Pressure)	38.1	38.1	38.1	44.45	44.45
		Liquid Piping	22.2	22.2	22.2	22.2	22.2
	Heat Pump	Gas Piping	44.45	44.45	44.45	50.8	50.8
		Liquid Piping	22.20	22.20	22.20	22.2	22.2

Horsepower			78	80	82	84	86
Outdoor Unit Model			RAS-780RNCCRW	RAS-800RNCCRW	RAS-820NCCRW	RAS-840NCCRW	RAS-860RNCCRW
	Configuring Outdoor Unit		RAS-260RNCCRW	RAS-280RNCCRW	RAS-280RNCCRW	RAS-280RNCCRW	RAS-240NCCRW
			RAS-260RNCCRW	RAS-260RNCCRW	RAS-280RNCCRW	RAS-280RNCCRW	RAS-220NCCRW
			RAS-260RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW	RAS-280RNCCRW	RAS-220NCCRW
			-	-	-	-	RAS-180NCCRW
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			219.0	223.5	228.0	232.5	240.4
Heating Capacity (kW)			244.5	249.0	253.5	258.0	271.5
Outer Dimensions W x D x H (mm)			4915×765×1795	4915×765×1795	4915×765×1795	4915×765×1795	6170×765×1795
Product Net Weight (kg)			392+392+392	392+392+392	392+392+392	392+392+392	386+386+386+304
Product Gross Weight (kg)			416+416+416	416+416+416	416+416+416	416+416+416	411+410+410+325
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL) (Full-anechoic)		67	67	67	67	68
Heating Rating	Operating Sound (dB(A), SPL) (Full-anechoic)		70	70	70	70	70
Night Shift	Operating Sound (dB(A), SPL) (Full-anechoic)		65	65	65	65	63
Electric Characteristics	Power Consumption (kW)	Cooling	56.2	58.2	60.2	62.3	55.6
		Heating	72.7	77.9	83.1	88.4	63.5
	Operating Current (A)	Cooling	160.2	166.0	171.8	177.6	158.5
		Heating	207.3	222.2	237.1	252.0	181.2
	MAX Input (kW)		100.7	101.3	102.0	102.7	102.5
	MAX Current (A)		287.1	289.0	290.9	292.8	292.5
Energy Efficiency(Single Outdoor Unit)		Cooling EER	3.90	3.84	3.79	3.73	4.33
		Heating COP	3.36	3.20	3.05	2.92	4.27
		Cooling and Heating Average	3.63	3.52	3.42	3.33	4.30
Compressor	Motor Output (kW)		(21.11×2)×3	26.91×2 +(21.11×2)×2	(26.91×2)×2 +21.11×2	(26.91×2)×3	17.34×2 +(13.54×2)×2+10.59
Fan	Rated Air Volume (m^3/min)		375×3	375+375×2	375×2+375	375×3	348+329×2+263
	Motor Output (kW)		(1.16×2)×3	1.16×2+(1.16×2)×2	(1.16×2)×2+1.16×2	(1.16×2)×3	0.93×2+(0.8×2)×2 +0.75×2
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		34.5	34.5	34.5	34.5	44.1
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		25.2	25.2	25.2	25.2	32.1
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	50.8	50.8	50.8	50.8	50.8
		Gas Piping (High/Low Pressure)	44.45	44.45	44.45	44.45	44.45
		Liquid Piping	22.2	22.2	22.2	22.2	22.2
	Heat Pump	Gas Piping	50.8	50.8	50.8	50.8	50.8
		Liquid Piping	22.2	22.2	22.2	22.2	22.2

Horsepower			88	90	92	94	96
Outdoor Unit Model			RAS-880RNCCRW	RAS-900RNCCRW	RAS-920RNCCRW	RAS-940RNCCRW	RAS-960RNCCRW
	Configuring Outdoor Unit		RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW
			RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW
			RAS-220RNCCRW	RAS-240RNCCRW	RAS-220RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW
			RAS-180RNCCRW	RAS-180RNCCRW	RAS-220RNCCRW	RAS-220RNCCRW	RAS-240RNCCRW
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			245.9	251.4	257.0	262.5	268.0
Heating Capacity (kW)			280.0	288.5	293.0	301.5	310.0
Outer Dimensions W x D x H (mm)			6170×765×1795	6170×765×1795	6560×765×1795	6560×765×1795	6560×765×1795
Product Net Weight (kg)			386+386+386+304	386+386+386+304	386+386+386+386	386+386+386+386	386+386+386+386
Product Gross Weight (kg)			411+411+410+325	411+411+411+325	411+411+410+410	411+411+411+410	411+411+411+411
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		68	67	68	68	67
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		70	70	71	70	70
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		63	63	63	63	63
Electric Characteristics	Power Consumption (kW)	Cooling	57.9	60.2	60.0	62.4	64.7
		Heating	67.7	72.0	71.0	75.3	79.5
	Operating Current (A)	Cooling	165.1	171.7	171.2	177.8	184.4
		Heating	193.3	205.4	202.6	214.7	226.8
	MAX Input (kW)		108.5	114.4	110.1	116.1	122.0
	MAX Current (A)		309.4	326.3	314.2	331.1	348.0
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.25	4.17	4.28	4.21	4.14
		Heating COP	4.13	4.01	4.13	4.01	3.90
		Cooling and Heating Average	4.19	4.09	4.21	4.11	4.02
Compressor	Motor Output (kW)		(17.34×2)×2 +13.54×2+10.59	(17.34×2)×3+10.59	(17.34×2)×2 +(13.54×2)×2	(17.34×2)×3 +13.54×2	(17.34×2)×4
Fan	Rated Air Volume (m^3/min)		348×2+329+263	348×3+263	348×2+329×2	348×3+329	348×4
	Motor Output (kW)		(0.93×2)×2+0.8×2 +0.75×2	(0.93×2)×3+0.75×2	(0.93×2)×2 +(0.8×2)×2	(0.93×2)×3+0.8×2	(0.93×2)×4
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		44.4	44.7	45.4	45.7	46.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		32.1	32.1	33.6	33.6	33.6
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	50.8	50.8	50.8	50.8	50.8
		Gas Piping (High/Low Pressure)	44.45	44.45	44.45	44.45	44.45
		Liquid Piping	22.2	25.4	25.4	25.4	25.4
	Heat Pump	Gas Piping	50.8	50.8	50.8	50.8	50.8
		Liquid Piping	22.2	25.4	25.4	25.4	25.4

Horsepower			98	100	102	104	106
Outdoor Unit Model			RAS-980RNCCRW	RAS-H00RNCCRW	RAS-H02RNCCRW	RAS-H04RNCCRW	RAS-H06RNCCRW
	Configuring Outdoor Unit		RAS-260RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW	RAS-280RNCCRW
			RAS-240RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW
			RAS-240RNCCRW	RAS-240RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW
			RAS-240RNCCRW	RAS-240RNCCRW	RAS-240RNCCRW	RAS-260RNCCRW	RAS-260RNCCRW
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			274.0	280.0	286.0	292.0	296.5
Heating Capacity (kW)			314.0	318.0	322.0	326.0	330.5
Outer Dimensions W x D x H (mm)			6560×765×1795	6560×765×1795	6560×765×1795	6560×765×1795	6560×765×1795
Product Net Weight (kg)			392+386+386+386	392+392+386+386	392+392+392+386	392+392+392+392	392+392+392+392
Product Gross Weight (kg)			416+411+411+411	416+416+411+411	416+416+416+411	416+416+416+416	416+416+416+416
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		67	68	68	68	68
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		70	71	71	71	71
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		64	65	65	66	66
Electric Characteristics	Power Consumption (kW)	Cooling	67.2	69.8	72.4	74.9	76.9
		Heating	83.8	88.2	92.6	96.9	102.1
	Operating Current (A)	Cooling	191.7	199.0	206.3	213.6	219.4
		Heating	239.2	251.6	264.0	276.4	291.3
	MAX Input (kW)		125.1	128.1	131.2	134.2	134.9
	MAX Current (A)		356.7	365.4	374.1	382.8	384.7
Energy Efficiency(Single Outdoor Unit)		Cooling EER	4.07	4.01	3.95	3.90	3.85
		Heating COP	3.75	3.61	3.48	3.36	3.24
		Cooling and Heating Average	3.91	3.81	3.72	3.63	3.55
Compressor	Motor Output (kW)		21.11×2 +(17.34×2)×3	(21.11×2)×2 +(17.34×2)×2	(21.11×2)×3 +17.34×2	(21.11×2)×4	26.91×2 +(21.11×2)×3
Fan	Rated Air Volume (m^3/min)		375+348×3	375×2+348×2	375×3+348	375×4	375+375×3
	Motor Output (kW)		1.16×2+(0.93×2)×3	(1.16×2)×2 +(0.93×2)×2	(1.16×2)×3+0.93×2	(1.16×2)×4	1.16×2+(1.16×2)×3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Initial Charge Amount (kg)		46.0	46.0	46.0	46.0	46.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D	FVC68D	FVC68D
	Charge Amount (L)		33.6	33.6	33.6	33.6	33.6
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	54.0	54.0	54.0	54.0	54.0
		Gas Piping (High/Low Pressure)	50.8	50.8	50.8	50.8	50.8
		Liquid Piping	25.4	25.4	25.4	25.4	25.4
	Heat Pump	Gas Piping	54.0	54.0	54.0	54.0	54.0
		Liquid Piping	25.4	25.4	25.4	25.4	25.4

Horsepower			108	110	112
Outdoor Unit Model			RAS-H08RNCCRW	RAS-H10RNCCRW	RAS-H12RNCCRW
	Configuring Outdoor Unit		RAS-280RNCCRW	RAS-280RNCCRW	RAS-280RNCCRW
			RAS-280RNCCRW	RAS-280RNCCRW	RAS-280RNCCRW
			RAS-260RNCCRW	RAS-280RNCCRW	RAS-280RNCCRW
			RAS-260RNCCRW	RAS-260RNCCRW	RAS-280RNCCRW
Power Source Specifications			3~ 220V 60Hz	3~ 220V 60Hz	3~ 220V 60Hz
Cooling Capacity (kW)			301.0	305.5	310.0
Heating Capacity (kW)			335.0	339.5	344.0
Outer Dimensions W x D x H (mm)			6560×765×1795	6560×765×1795	6560×765×1795
Product Net Weight (kg)			392+392+392+392	392+392+392+392	392+392+392+392
Product Gross Weight (kg)			416+416+416+416	416+416+416+416	416+416+416+416
Exterior Color (Munsell Symbol)			Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)	Natural gray (1.0Y 8.5/0.5)
Cooling Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		68	68	68
Heating Rating	Operating Sound (dB(A), SPL)(Full-anechoic)		71	71	71
Night Shift	Operating Sound (dB(A), SPL)(Full-anechoic)		66	66	66
Electric Characteristics	Power Consumption (kW)	Cooling	79.0	81.0	83.0
		Heating	107.4	112.6	117.8
	Operating Current (A)	Cooling	225.2	231.0	236.8
		Heating	306.2	321.1	336.0
	MAX Input (kW)		135.5	136.2	136.9
	MAX Current (A)		386.6	388.5	390.4
Energy Efficiency(Single Outdoor Unit)		Cooling EER	3.81	3.77	3.73
		Heating COP	3.12	3.02	2.92
		Cooling and Heating Average	3.47	3.40	3.33
Compressor	Motor Output (kW)		(26.91×2)×2 +(21.11×2)×2	(26.91×2)×3 +21.11×2	(26.91×2)×4
Fan	Rated Air Volume (m^3/min)		375×2+375×2	375×3+375	375×4
	Motor Output (kW)		(1.16×2)×2 +(1.16×2)×2	(1.16×2)×3+1.16×2	(1.16×2)×4
Refrigerant	Type		R410A	R410A	R410A
	Initial Charge Amount (kg)		46.0	46.0	46.0
Refrigerant Oil	Type		FVC68D	FVC68D	FVC68D
	Charge Amount (L)		33.6	33.6	33.6
Main Pipe Size (mm)	Heat Recovery	Gas Piping (Low Pressure)	54.0	54.0	54.0
		Gas Piping (High/Low Pressure)	50.8	50.8	50.8
		Liquid Piping	25.4	25.4	25.4
	Heat Pump	Gas Piping	54.0	54.0	54.0
		Liquid Piping	25.4	25.4	25.4

NOTES:

- The cooling and heating performance are the values when combined with indoor units.

	Cooling Operation Conditions	Heating Operation Conditions
Indoor Air Inlet Temperature	27 °C DB / 19.0 °C WB	20 °C DB
Outdoor Air Inlet temperature	35 °C DB	7 °C DB / 6 °C WB
Piping Length (m)	7.5	
Piping Lift (m)	0	

- Sound pressure data was measured in a full anechoic chamber so that reflected sound should be taken into consideration in the field.
- Sound pressure and sound power data was measured at rated cooling and heating condition which same as performance measurement condition. If working condition is different against rated condition, sound may increase.
- If set to the high static mode, since the fan rotation speed will be increased, sound may increase 5 to 7 dBA.
- Regarding Performance values (EER, COP, CSPF, IEER, AEER and ACOP) conditions are as following.
  - Other than ANZ: EER and COP is not including Indoor unit power consumption.
  - ANZ: The above values indicate the EER/COP per system (outdoor unit + indoor units) when it is combined with specified number of 4-way cassette indoor unit.

2.2 CH-Box

Type				Single Branch		Multiple Branch			
Model Name				CH-AP160SSX	CH-AP280SSX	CH-AP04MSSX	CH-AP08MSSX	CH-AP12MSSX	CH-AP16MSSX
Appearance									
Electrical	Power Supply			1N~/1~230V/50Hz, 220-240V/50Hz, 220V/60Hz					
	Power Consumption		W	5	5	11.2	22.4	33.6	44.8
	Current		A	0.1	0.1	0.2	0.4	0.6	0.8
Maximum Total Capacity Index			kW	16	28	44.8	85	85	85
Number of Branches(for Indoor Unit)				1	1	4	8	12	16
Maximum Capacity Index per Branch			kW	-	-	16	16	16	16
Maximum Connectable Indoor Units Per Branch				7	8	6	6	6	6
Dimensions Height x Width x Depth			mm	191 x 301 x 214	191 x 301 x 214	260 x 303 x 352	260 x 543 x 352	260 x 783 x 352	260 x 1023 x 352
Refrigerant				R410A					
Refrigerant Piping	Outdoor Unit Side	Gas Line (High and Low pressure side)	mm (in.)	ϕ15.88 (5/8)	ϕ15.88 (5/8)	ϕ22.2 (7/8)	ϕ22.2 (7/8)	ϕ25.4 (1)	ϕ28.58 (1-1/8)
		Gas Line (Suction Gas)	mm (in.)	ϕ19.05 (3/4)	ϕ19.05 (3/4)	ϕ25.4 (1)	ϕ28.58 (1-1/8)	ϕ28.58 (1-1/8)	ϕ31.75 (1-1/4)
		Liquid Line	mm (in.)	Not included	Not included	ϕ12.7 (1/2)	ϕ12.7 (1/2)	ϕ15.88 (5/8)	ϕ19.05 (3/4)
	Indoor Unit Side	Gas Line	mm (in.)	ϕ15.88 (5/8)	ϕ19.05 (3/4)	ϕ15.88 (5/8)	ϕ15.88 (5/8)	ϕ15.88 (5/8)	ϕ15.88 (5/8)
		Liquid Line	mm (in.)	Not included	Not included	ϕ9.52 (3/8)	ϕ9.52 (3/8)	ϕ9.52 (3/8)	ϕ9.52 (3/8)
Net Weight			kg	6.0	6.0	14.0	25.0	36.0	47.0

3. Component Data

Outdoor Heat Exchanger and Fan

SEA,MEA,NEU,IN/SA,LA (Standard Type)

Model		RAS-080HNCCLW RAS-080HNCCLI RAS-080RNCCLW RAS-080RNCCRW	RAS-100HNCCLW RAS-100HNCCLI RAS-100RNCCLW RAS-100RNCCRW	RAS-120HNCCLW RAS-120HNCCLI RAS-120RNCCLW RAS-120RNCCRW	RAS-140HNCCLW RAS-140HNCCLI RAS-140RNCCLW RAS-140RNCCRW	RAS-160HNCCLW RAS-160HNCCLI RAS-160RNCCLW RAS-160RNCCRW	RAS-180HNCCLW RAS-180HNCCLI RAS-180RNCCLW RAS-180RNCCRW
Heat Exchanger Type		Multi-Path Cross Tinned Tube					
Tube Material		Copper Tube					
Outer Diameter	Φmm	7.0	7.0	7.0	7.0	7.0	7.0
Rows		2	2	3	3	3	3
Number of Tube/Coil		64	64	96	192	192	192
Fin Material		Aluminum					
Pitch		1.7	1.7	1.7	1.7	1.7	1.7
Maximum Operating Pressure	MPa	4.15	4.15	4.15	4.15	4.15	4.15
Total Face Area	m^2	2.44	2.44	2.41	3.19	3.19	3.19
Number of Coil/Unit		1	1	1	2	2	2
Outdoor Fan		Propeller Fan					
Number/Unit		1	1	1	2	2	2
Outer Diameter	Φmm	644	644	644	544	544	544
Revolution	rpm	822	894	972	1116	1194	1230
Nominal Air Flow	m^3/min	175	175	198	239	256	263
Outdoor Fan Motor		Drip-Proof Type Enclosure					
Starting Method		DC Motor					
Nominal Output	kW	0.26	0.26	0.43	0.6×2	0.7×2	0.75×2
Quantity		1	1	1	2	2	2
Insulation Class		E	E	E	E	E	E

Model		RAS-200HNCCLW RAS-200HNCCLI RAS-200RNCCLW RAS-200RNCCRW	RAS-220HNCCLW RAS-220HNCCLI RAS-220RNCCLW RAS-220RNCCRW	RAS-240HNCCLW RAS-240HNCCLI RAS-240RNCCLW RAS-240RNCCRW	RAS-260HNCCLW RAS-260HNCCLI RAS-260RNCCLW RAS-260RNCCRW	RAS-280HNCCLW RAS-280HNCCLI RAS-280RNCCLW RAS-280RNCCRW
Heat Exchanger Type		Multi-Path Cross Tinned Tube				
Tube Material		Copper Tube				
Outer Diameter	Φmm	7.0	7.0	7.0	7.0	7.0
Rows		3	3	3	3	3
Number of Tube/Coil		192	192	192	192	192
Fin Material		Aluminum				
Pitch		1.7	1.7	1.7	1.7	1.7
Maximum Operating Pressure	MPa	4.15	4.15	4.15	4.15	4.15
Total Face Area	m^2	3.69	3.69	3.69	3.69	3.69
Number of Coil/Unit		2	2	2	2	2
Outdoor Fan		Propeller Fan				
Number/Unit		2	2	2	2	2
Outer Diameter	Φmm	644	644	644	644	644
Revolution	rpm	1020	1020	936	1008	1008
Nominal Air Flow	m^3/min	329	329	348	375	375
Outdoor Fan Motor		Drip-Proof Type Enclosure				
Starting Method		DC Motor				
Nominal Output	kW	0.8×2	0.8×2	0.93×2	1.16×2	1.16×2
Quantity		2	2	2	2	2
Insulation Class		E	E	E	E	E

SEA (High Efficiency Type)

Model		RAS-080HNCBLW	RAS-100HNCBLW	RAS-120HNCBLW	RAS-140HNCBLW	RAS-160HNCBLW	RAS-180HNCBLW
Heat Exchanger Type		Multi-Path Cross Tinned Tube					
Tube Material		Copper Tube					
Outer Diameter	Φmm	7.0	7.0	7.0	7.0	7.0	7.0
Rows		3	3	3	3	3	3
Number of Tube/Coil		96	96	192	192	192	192
Fin Material		Aluminum					
Pitch		1.7	1.7	1.7	1.7	1.7	1.7
Maximum Operating Pressure	MPa	4.15	4.15	4.15	4.15	4.15	4.15
Total Face Area	m^2	2.41	2.41	3.19	3.19	3.19	3.69
Number of Coil/Unit		1	1	2	2	2	2
Outdoor Fan		Propeller Fan					
Number/Unit		1	1	2	2	2	2
Outer Diameter	Φmm	644	644	544	544	544	644
Revolution	rpm	822	888	1020	1194	1194	972
Nominal Air Flow	m^3/min	165	179	219	243	256	326
Outdoor Fan Motor Starting Method		Drip-Proof Type Enclosure DC Motor					
Nominal Output	kW	0.27	0.34	0.47×2	0.7×2	0.7×2	1.04×2
Quantity		1	1	2	2	2	2
Insulation Class		E	E	E	E	E	E

Model		RAS-200HNCBLW	RAS-220HNCBLW
Heat Exchanger Type		Multi-Path Cross Tinned Tube	
Tube Material		Copper Tube	
Outer Diameter	Φmm	7.0	7.0
Rows		3	3
Number of Tube/Coil		192	192
Fin Material		Aluminum	
Pitch		1.7	1.7
Maximum Operating Pressure	MPa	4.15	4.15
Total Face Area	m^2	3.69	3.69
Number of Coil/Unit		2	2
Outdoor Fan		Propeller Fan	
Number/Unit		2	2
Outer Diameter	Φmm	644	644
Revolution	rpm	1008	1008
Nominal Air Flow	m^3/min	362	376
Outdoor Fan Motor Starting Method		Drip-Proof Type Enclosure DC Motor	
Nominal Output	kW	1.16×2	1.16×2
Quantity		2	2
Insulation Class		E	E

MEA(High Ambient Type)

Model		RAS-080JNCBLI	RAS-100JNCBLI	RAS-120JNCBLI	RAS-140JNCBLI	RAS-160JNCBLI	RAS-180JNCBLI
Heat Exchanger Type		Multi-Path Cross Tinned Tube					
Tube Material		Copper Tube					
Outer Diameter	Φmm	7.0	7.0	7.0	7.0	7.0	7.0
Rows		3	3	3	3	3	3
Number of Tube/Coil		96	96	192	192	192	192
Fin Material		Aluminum					
Pitch		1.7	1.7	1.7	1.7	1.7	1.7
Maximum Operating Pressure	MPa	4.15	4.15	4.15	4.15	4.15	4.15
Total Face Area	m^2	2.41	2.41	3.19	3.19	3.19	3.69
Number of Coil/Unit		1	1	2	2	2	2
Outdoor Fan		Propeller Fan					
Number/Unit		1	1	2	2	2	2
Outer Diameter	Φmm	644	644	544	544	544	644
Revolution	rpm	822	888	1020	1194	1194	972
Nominal Air Flow	m^3/min	165	179	219	243	256	326
Outdoor Fan Motor		Drip-Proof Type Enclosure					
Starting Method		DC Motor					
Nominal Output	kW	0.27	0.34	0.47×2	0.7×2	0.7×2	1.04×2
Quantity		1	1	2	2	2	2
Insulation Class		E	E	E	E	E	E

Model		RAS-200JNCBLI	RAS-220JNCBLI
Heat Exchanger Type		Multi-Path Cross Tinned Tube	
Tube Material		Copper Tube	
Outer Diameter	Φmm	7.0	7.0
Rows		3	3
Number of Tube/Coil		192	192
Fin Material		Aluminum	
Pitch		1.7	1.7
Maximum Operating Pressure	MPa	4.15	4.15
Total Face Area	m^2	3.69	3.69
Number of Coil/Unit		2	2
Outdoor Fan		Propeller Fan	
Number/Unit		2	2
Outer Diameter	Φmm	644	644
Revolution	rpm	1008	1008
Nominal Air Flow	m^3/min	362	376
Outdoor Fan Motor		Drip-Proof Type Enclosure	
Starting Method		DC Motor	
Nominal Output	kW	1.16×2	1.16×2
Quantity		2	2
Insulation Class		E	E

ANZ (Standard Type)

Model		RAS-080RNCCLW	RAS-100RNCCLW	RAS-120RNCCLW	RAS-140RNCCLW	RAS-160RNCCLW	RAS-180RNCCLW
Heat Exchanger Type		Multi-Path Cross Tinned Tube					
Tube Material		Copper Tube					
Outer Diameter	Φmm	7.0	7.0	7.0	7.0	7.0	7.0
Rows		2	2	3	3	3	3
Number of Tube/Coil		64	64	96	192	192	192
Fin Material		Aluminum					
Pitch		1.7	1.7	1.7	1.7	1.7	1.7
Maximum Operating Pressure	MPa	4.15	4.15	4.15	4.15	4.15	4.15
Total Face Area	m^2	2.44	2.44	2.41	3.19	3.19	3.19
Number of Coil/Unit		1	1	1	2	2	2
Outdoor Fan		Propeller Fan					
Number/Unit		1	1	1	2	2	2
Outer Diameter	Φmm	644	644	644	544	544	544
Revolution	rpm	822	894	972	1116	1194	1230
Nominal Air Flow	m^3/min	175	175	198	239	256	263
Outdoor Fan Motor Starting Method		Drip-Proof Type Enclosure DC Motor					
Nominal Output	kW	0.26	0.26	0.43	0.6×2	0.7×2	0.75×2
Quantity		1	1	1	2	2	2
Insulation Class		E	E	E	E	E	E

Model		RAS-200RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW
Heat Exchanger Type		Multi-Path Cross Tinned Tube		
Tube Material		Copper Tube		
Outer Diameter	Φmm	7.0	7.0	7.0
Rows		3	3	3
Number of Tube/Coil		192	192	192
Fin Material		Aluminum		
Pitch		1.7	1.7	1.7
Maximum Operating Pressure	MPa	4.15	4.15	4.15
Total Face Area	m^2	3.69	3.69	3.69
Number of Coil/Unit		2	2	2
Outdoor Fan		Propeller Fan		
Number/Unit		2	2	2
Outer Diameter	Φmm	644	644	644
Revolution	rpm	1020	1020	936
Nominal Air Flow	m^3/min	329	329	348
Outdoor Fan Motor Starting Method		Drip-Proof Type Enclosure DC Motor		
Nominal Output	kW	0.8×2	0.8×2	0.93×2
Quantity		2	2	2
Insulation Class		E	E	E

ANZ (High Efficiency Type)

Model		RAS-080RNCBLW	RAS-100RNCBLW	RAS-120RNCBLW	RAS-140RNCBLW	RAS-160RNCBLW	RAS-180RNCBLW
Heat Exchanger Type		Multi-Path Cross Tinned Tube					
Tube Material		Copper Tube					
Outer Diameter	Φmm	7.0	7.0	7.0	7.0	7.0	7.0
Rows		3	3	3	3	3	3
Number of Tube/Coil		96	96	192	192	192	192
Fin Material		Aluminum					
Pitch		1.7	1.7	1.7	1.7	1.7	1.7
Maximum Operating Pressure	MPa	4.15	4.15	4.15	4.15	4.15	4.15
Total Face Area	m^2	2.41	2.41	3.19	3.19	3.19	3.69
Number of Coil/Unit		1	1	2	2	2	2
Outdoor Fan		Propeller Fan					
Number/Unit		1	1	2	2	2	2
Outer Diameter	Φmm	644	644	544	544	544	644
Revolution	rpm	822	888	1020	1194	1194	972
Nominal Air Flow	m^3/min	165	179	219	243	256	326
Outdoor Fan Motor		Drip-Proof Type Enclosure					
Starting Method		DC Motor					
Nominal Output	kW	0.27	0.34	0.47×2	0.7×2	0.7×2	1.04×2
Quantity		1	1	2	2	2	2
Insulation Class		E	E	E	E	E	E

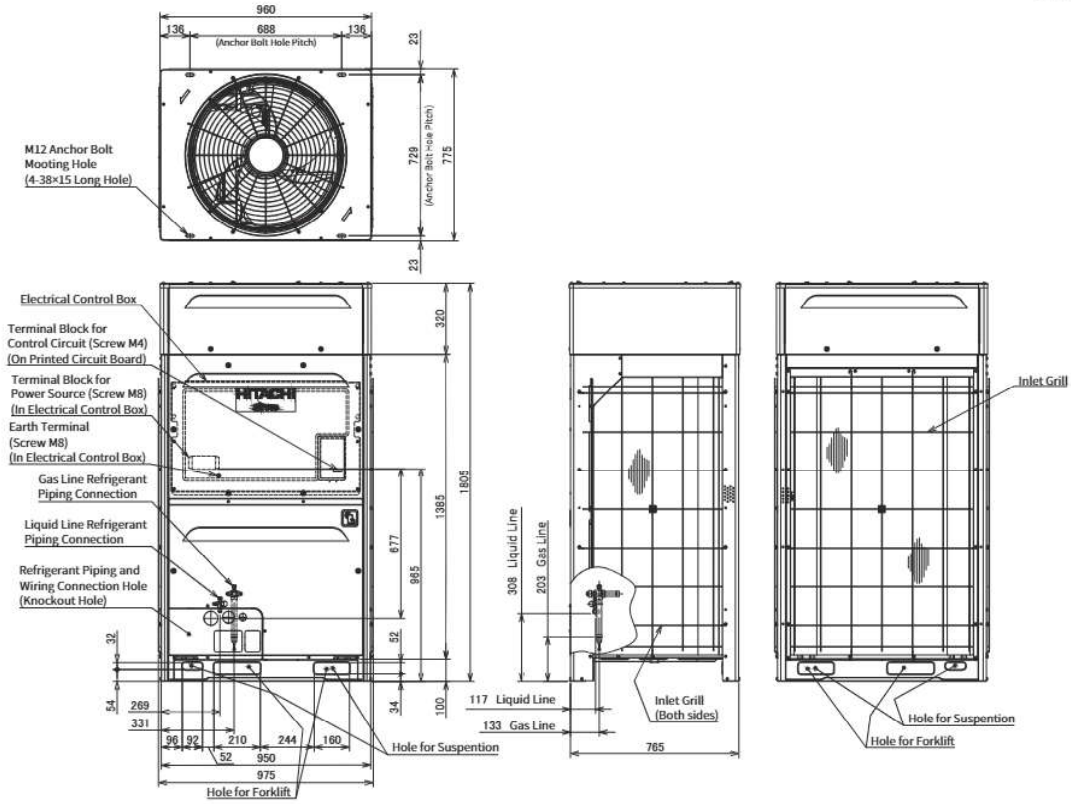
Model		RAS-200RNCBLW
Heat Exchanger Type		Multi-Path Cross Tinned Tube
Tube Material		Copper Tube
Outer Diameter	Φmm	7.0
Rows		3
Number of Tube/Coil		192
Fin Material		Aluminum
Pitch		1.7
Maximum Operating Pressure	MPa	4.15
Total Face Area	m^2	3.69
Number of Coil/Unit		2
Outdoor Fan		Propeller Fan
Number/Unit		2
Outer Diameter	Φmm	644
Revolution	rpm	1008
Nominal Air Flow	m^3/min	362
Outdoor Fan Motor		Drip-Proof Type Enclosure
Starting Method		DC Motor
Nominal Output	kW	1.16×2
Quantity		2
Insulation Class		E

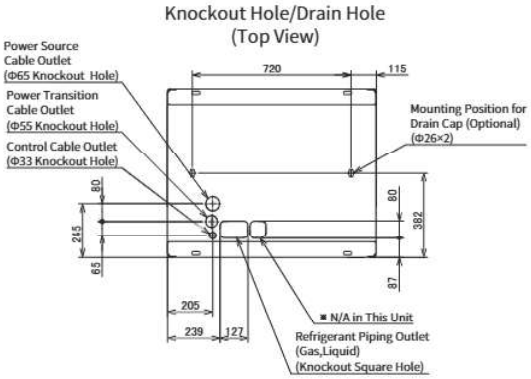
4. Dimensional Data

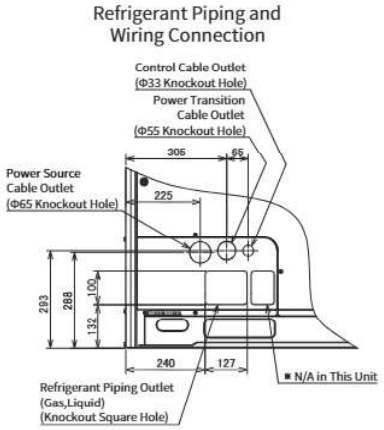
4.1 Outdoor Units

Region	Model
MEA, NEU	RAS-080HNCCLW, RAS-100HNCCLW and RAS-120HNCCLW
IN/SA	RAS-080HNCCLI, RAS-100HNCCLI and RAS-120HNCCLI
MEA	RAS-080JNCBLI and RAS-100JNCBLI

Unit: mm





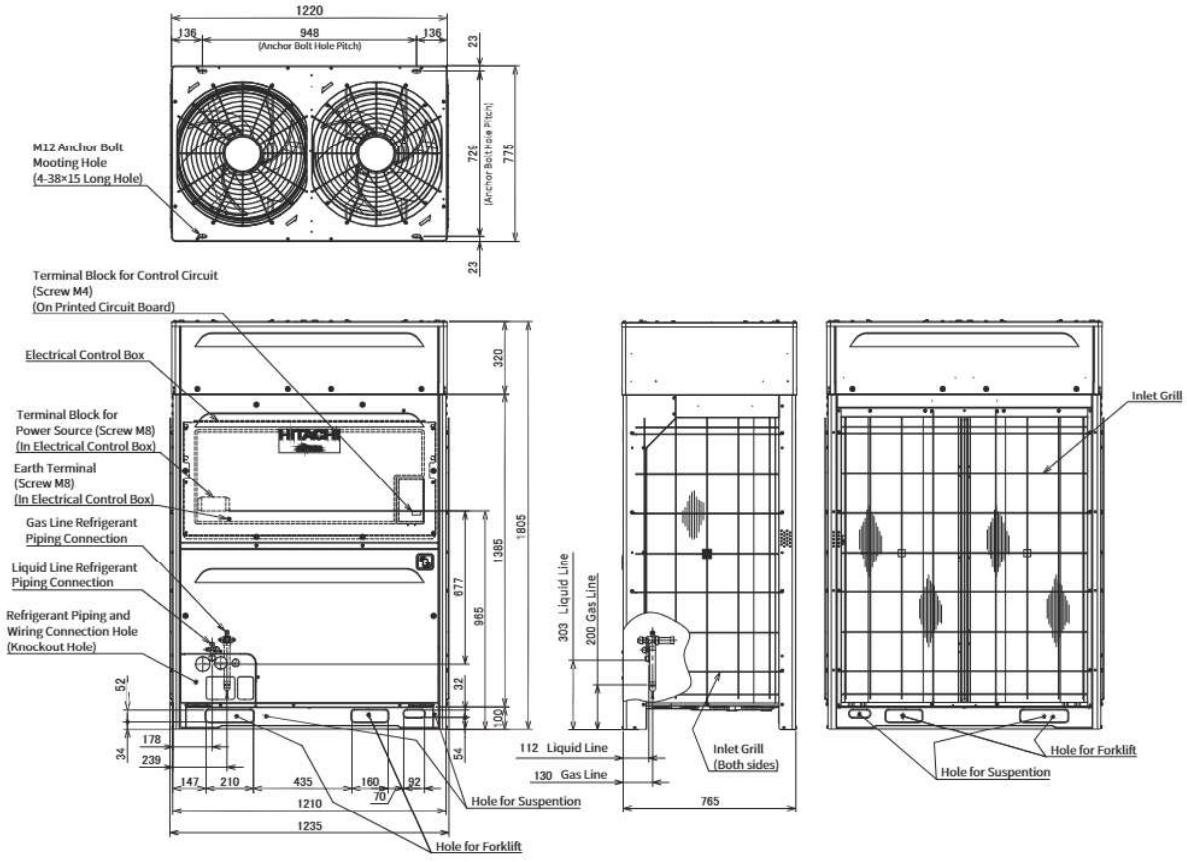


NOTES:

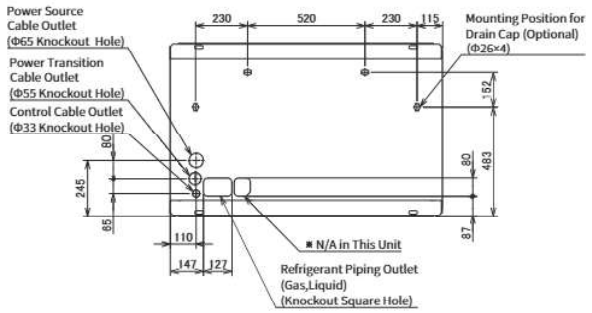
1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

Region	Model
MEA, NEU	RAS-140HNCCLW, RAS-160HNCCLW and RAS-180HNCCLW
IN/SA	RAS-140HNCCLI, RAS-160HNCCLI and RAS-180HNCCLI
MEA	RAS-120JNCBLI, RAS-140JNCBLI and RAS-160JNCBLI

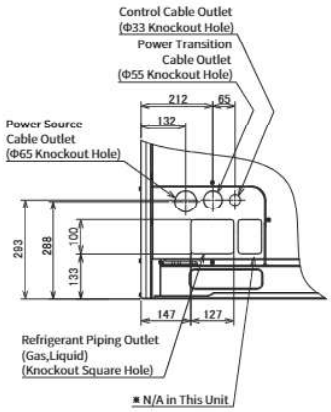
Unit: mm



Knockout Hole/Drain Hole
(Top View)



Refrigerant Piping and
Wiring Connection



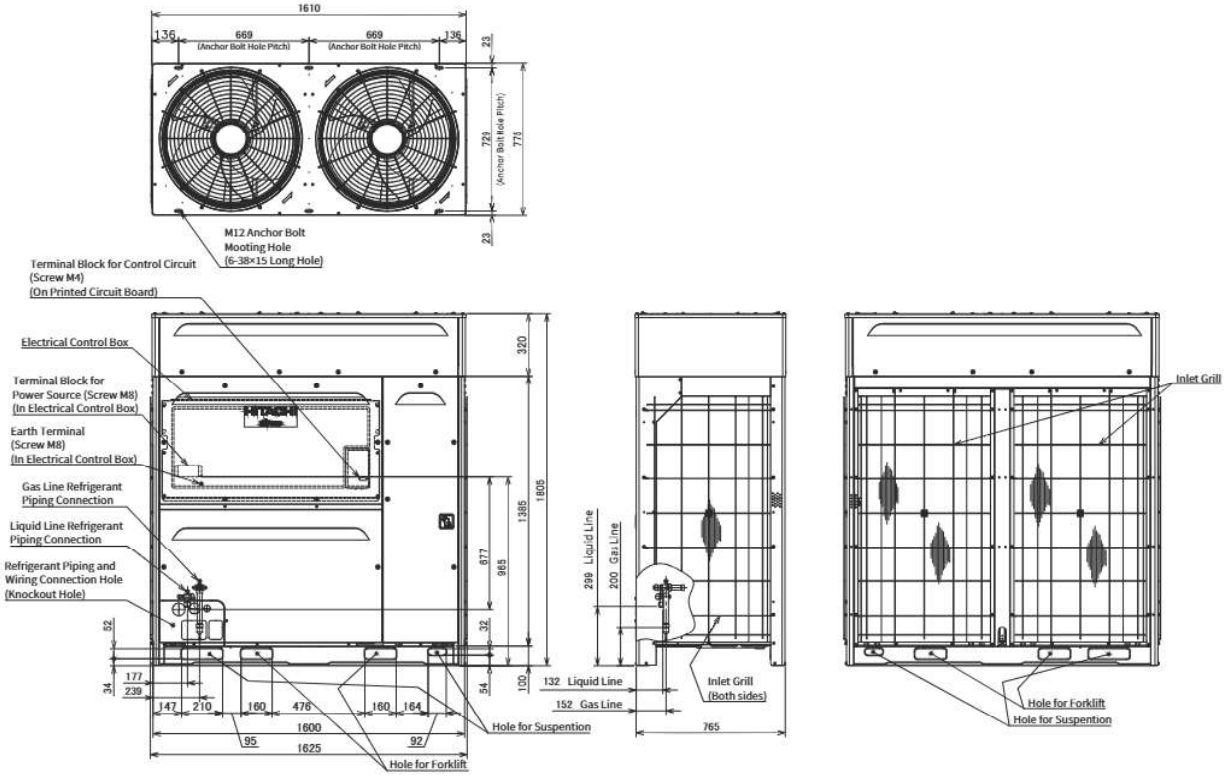
NOTES:

1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

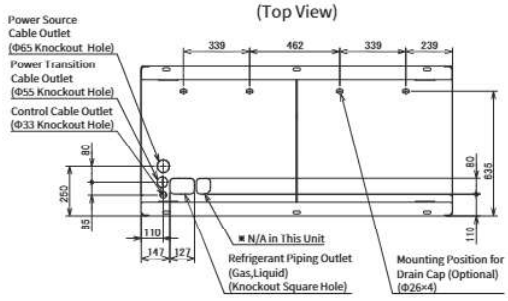
4. Dimensional Data

Region	Model
MEA, NEU	RAS-200HNCCLW, RAS-220HNCCLW,RAS-240HNCCLW, RAS-260HNCCLW and RAS-280HNCCLW
IN/SA	RAS-200HNCCLI, RAS-220HNCCLI, RAS-240HNCCLI, RAS-260HNCCLI and RAS-280HNCCLI
MEA	RAS-180JNCBLI, RAS-200JNCBLI and RAS-220JNCBLI

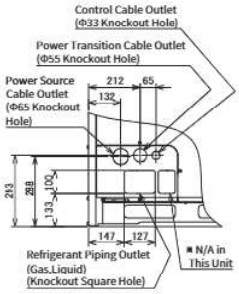
Unit: mm



Knockout Hole/Drain Hole
(Top View)



Refrigerant Piping and
Wiring Connection

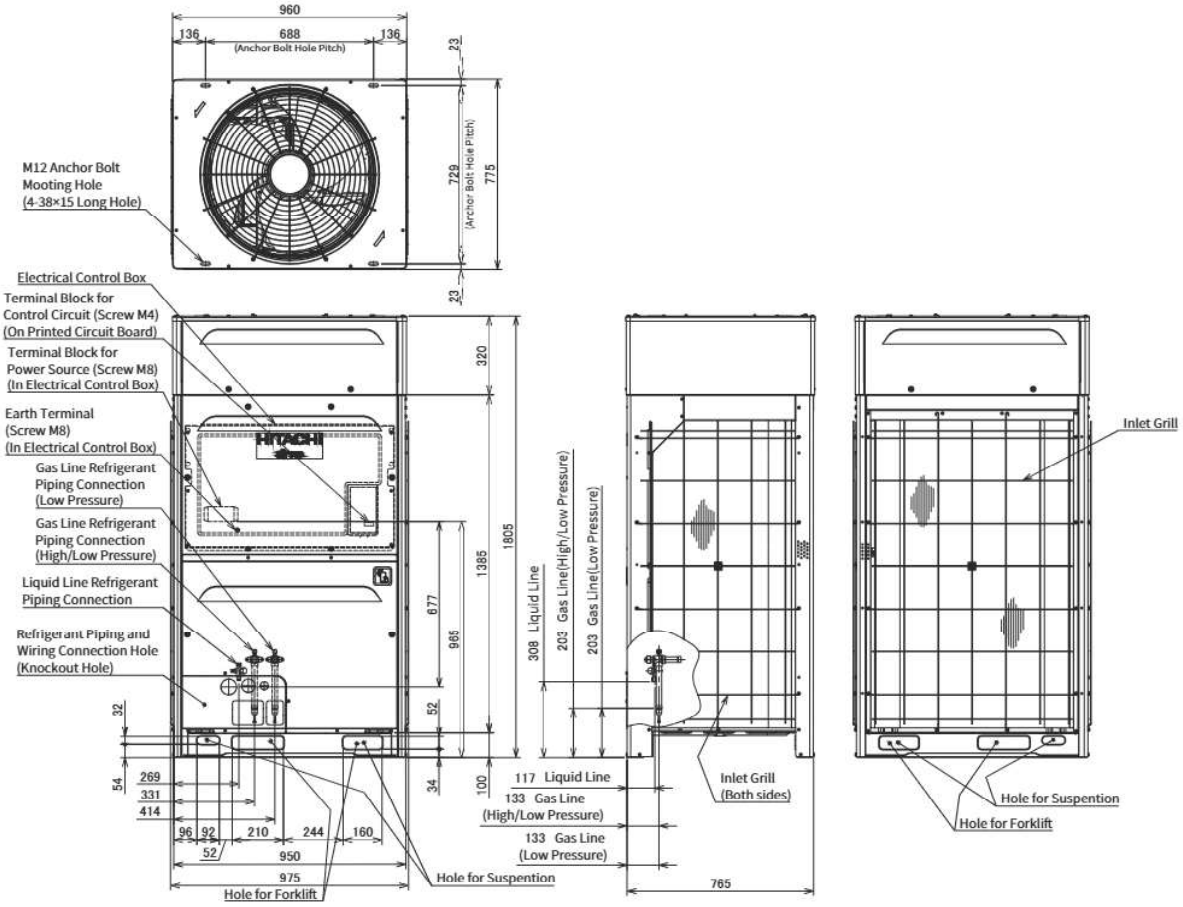


NOTES:

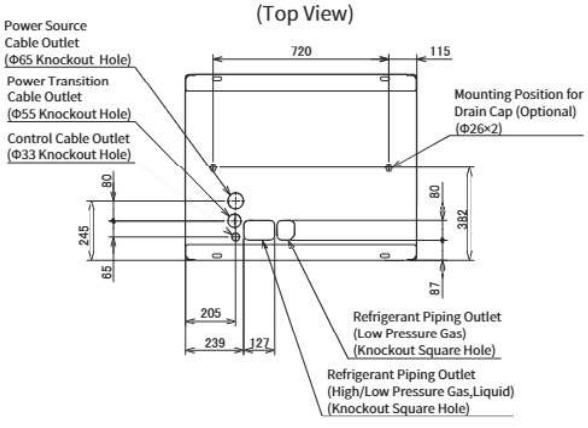
1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

Region	Model
MEA	RAS-080RNCCLW, RAS-100RNCCLW and RAS-120RNCCLW

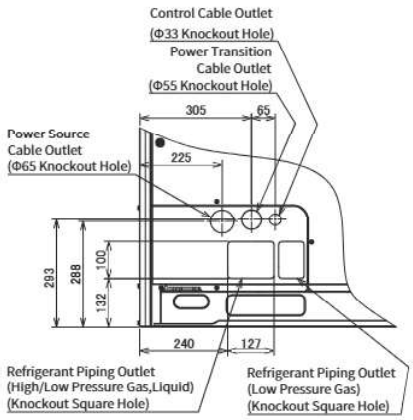
Unit: mm



Knockout Hole/Drain Hole
(Top View)



Refrigerant Piping and
Wiring Connection



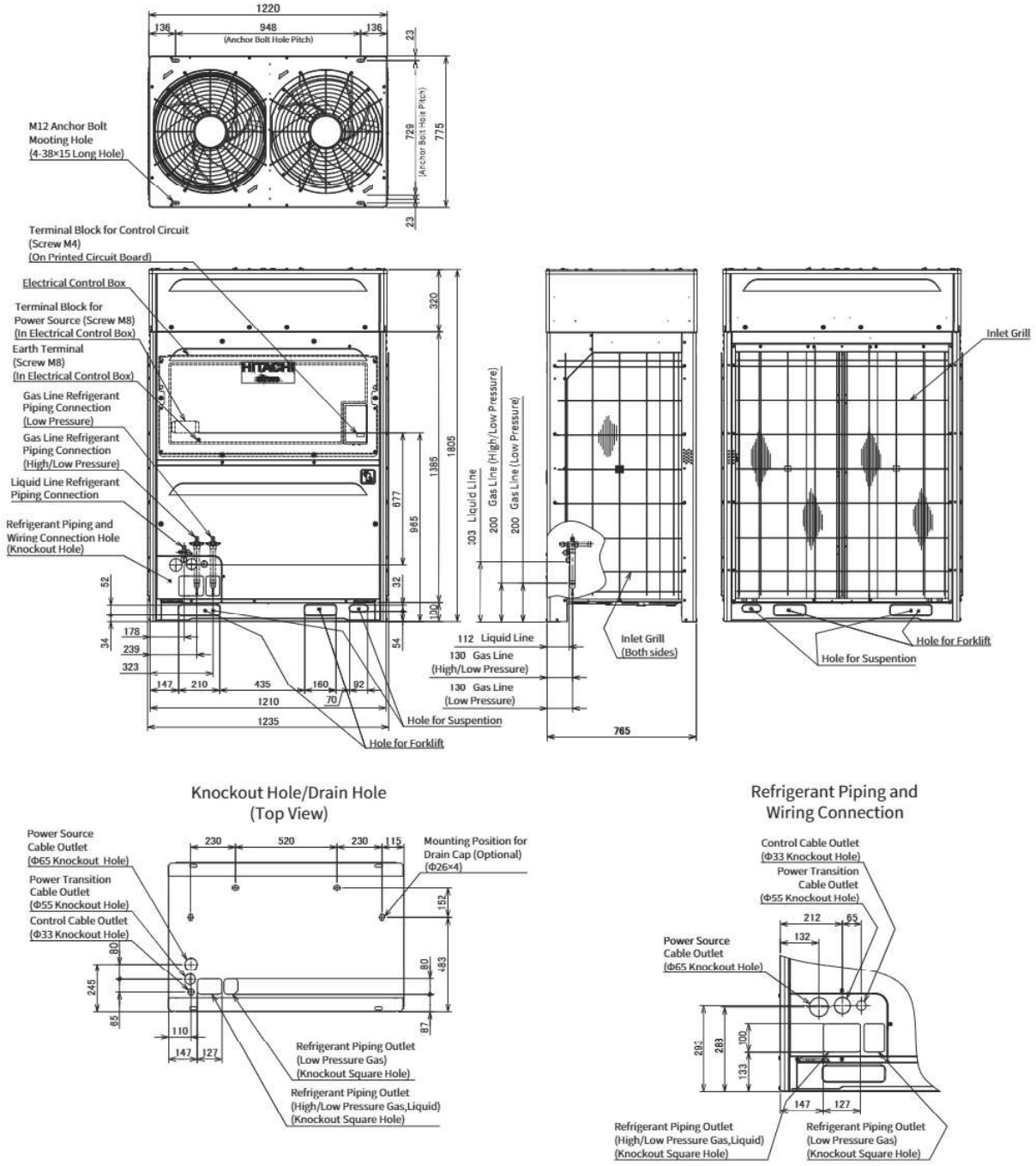
NOTES:

1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

4. Dimensional Data

Region	Model
MEA	RAS-140RNCCLW, RAS-160RNCCLW and RAS-180RNCCLW

Unit: mm



Knockout Hole/Drain Hole
(Top View)

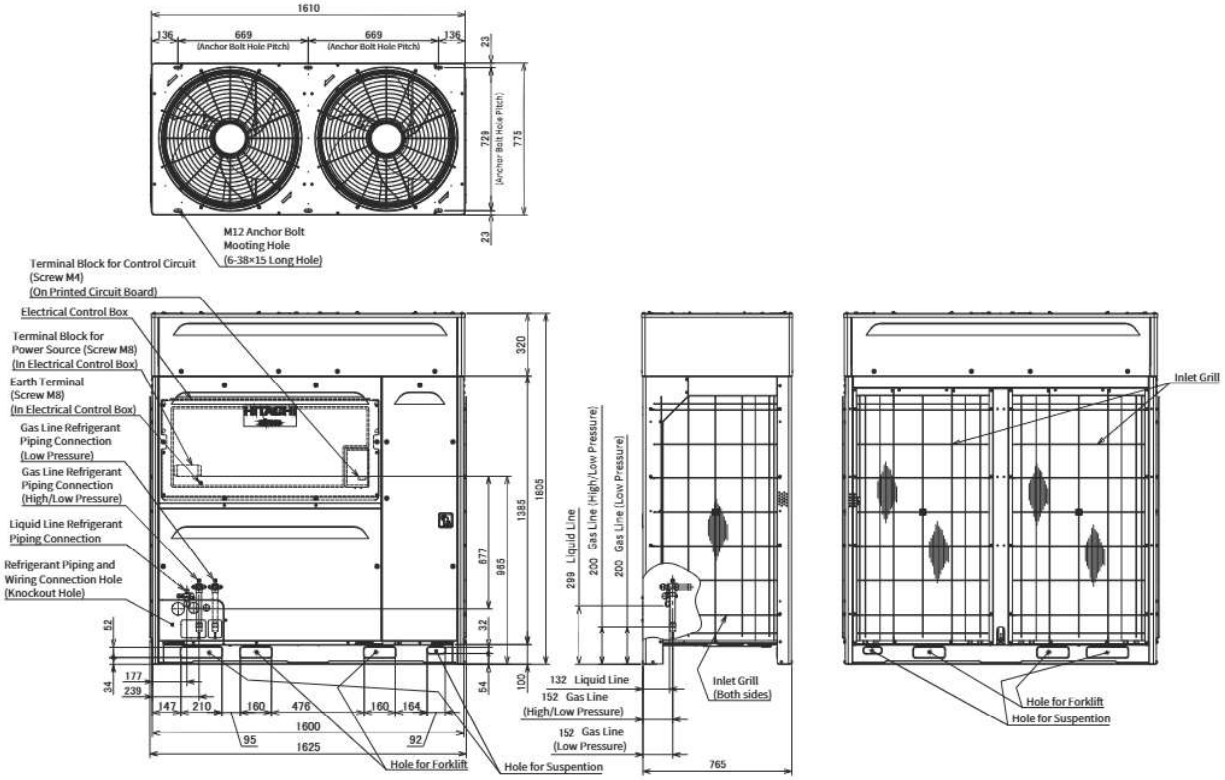
Refrigerant Piping and
Wiring Connection

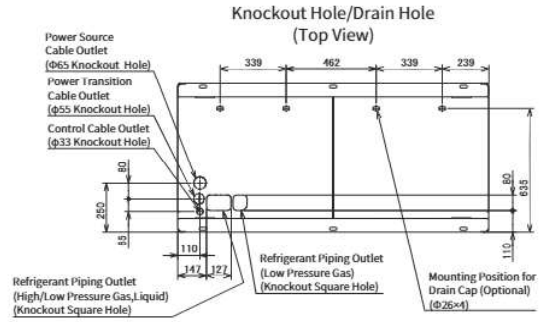
NOTES:

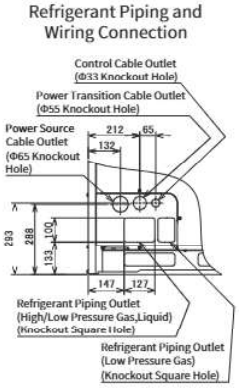
1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

Region	Model
MEA	RAS-200RNCCLW, RAS-220RNCCLW, RAS-240RNCCLW, RAS-260RNCCLW and RAS-280RNCCLW

Unit: mm







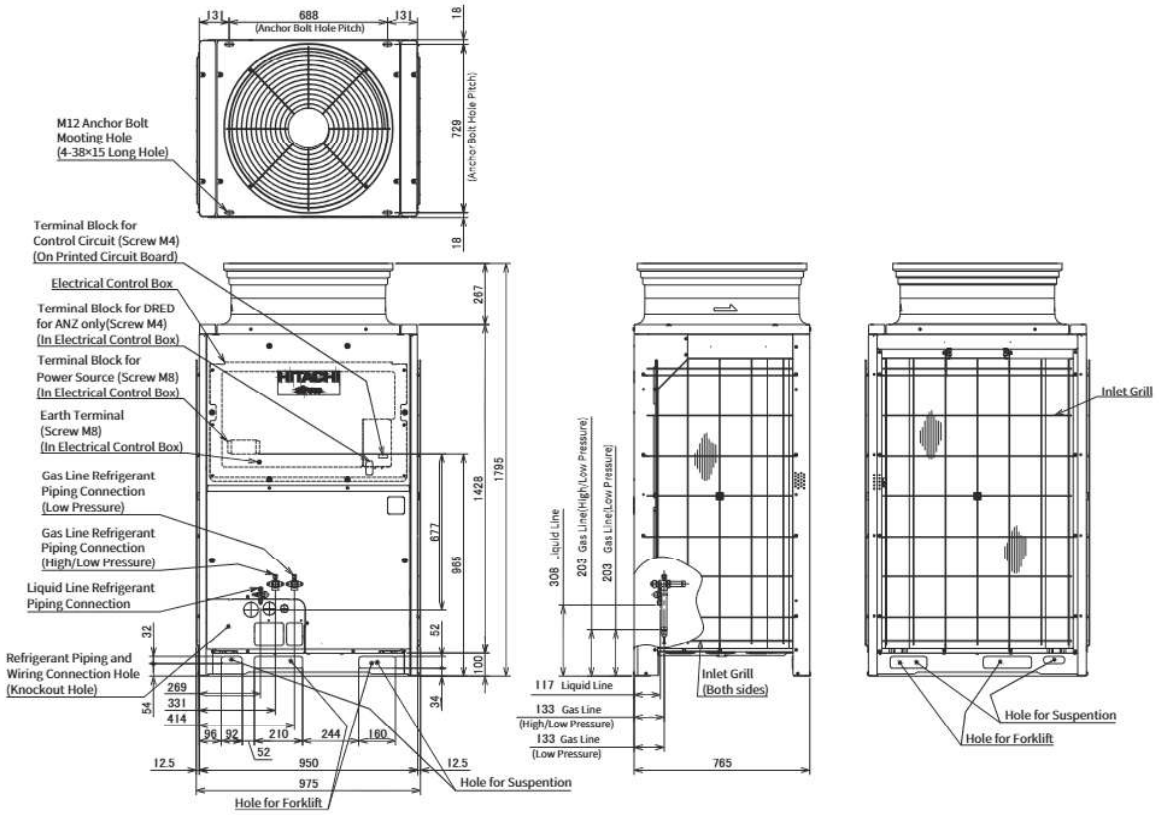
NOTES:

1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

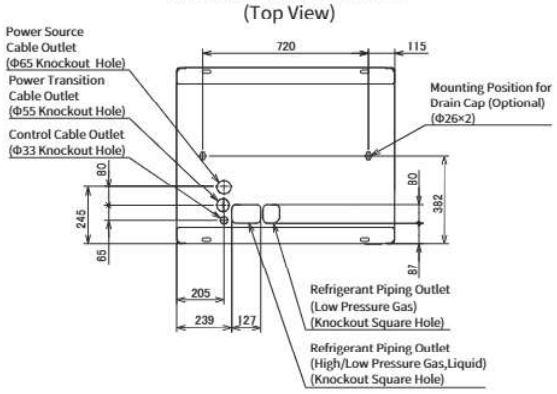
4. Dimensional Data

Region	Model
ANZ	RAS-080RNCCLW, RAS-100RNCCLW and RAS-120RNCCLW
LA	RAS-080RNCC(L/R)W, RAS-100RNCC(L/R)W and RAS-120RNCC(L/R)W
ANZ	RAS-080RNCBLW and RAS-100RNCBLW

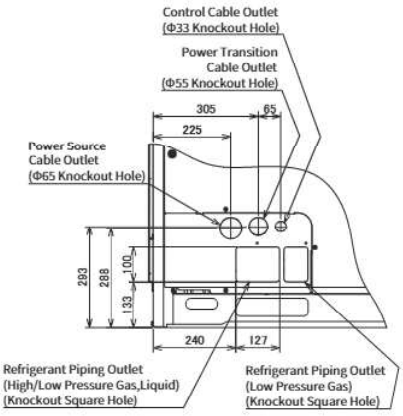
Unit: mm



Knockout Hole/Drain Hole
(Top View)



Refrigerant Piping and
Wiring Connection

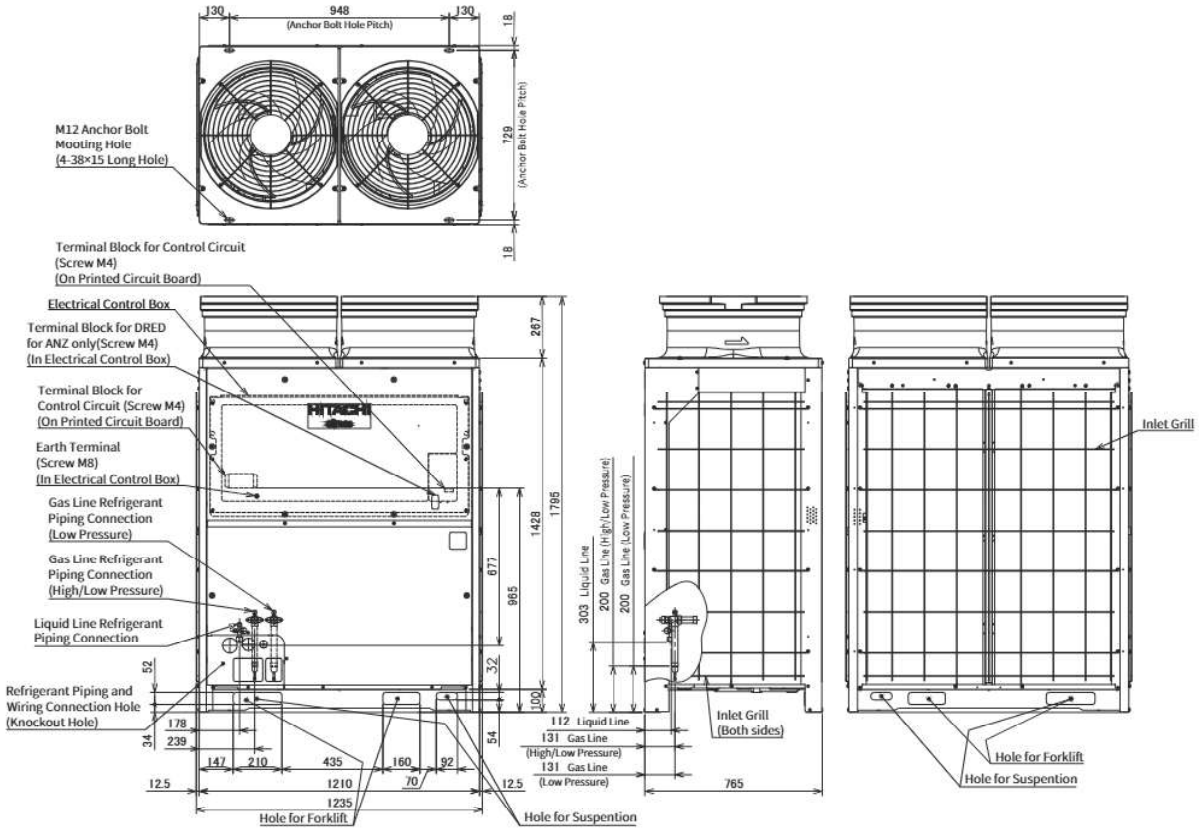


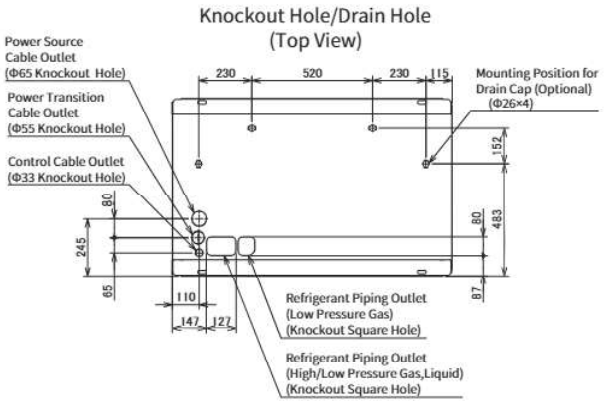
NOTES:

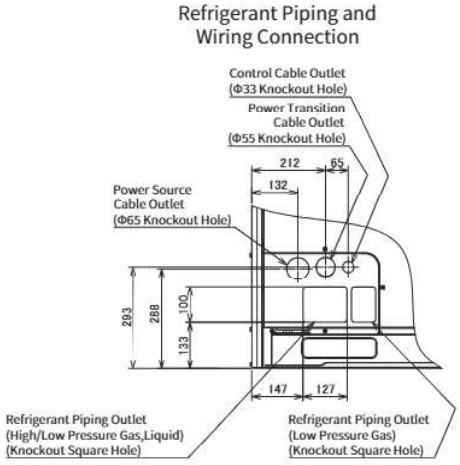
1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

Region	Model
ANZ	RAS-140RNCCLW, RAS-160RNCCLW and RAS-180RNCCLW
LA	RAS-140RNCC(L/R)W, RAS-160RNCC(L/R)W and RAS-180RNCC(L/R)W
ANZ	RAS-120RNCBLW, RAS-140RNCBLW and RAS-160RNCBLW

Unit: mm







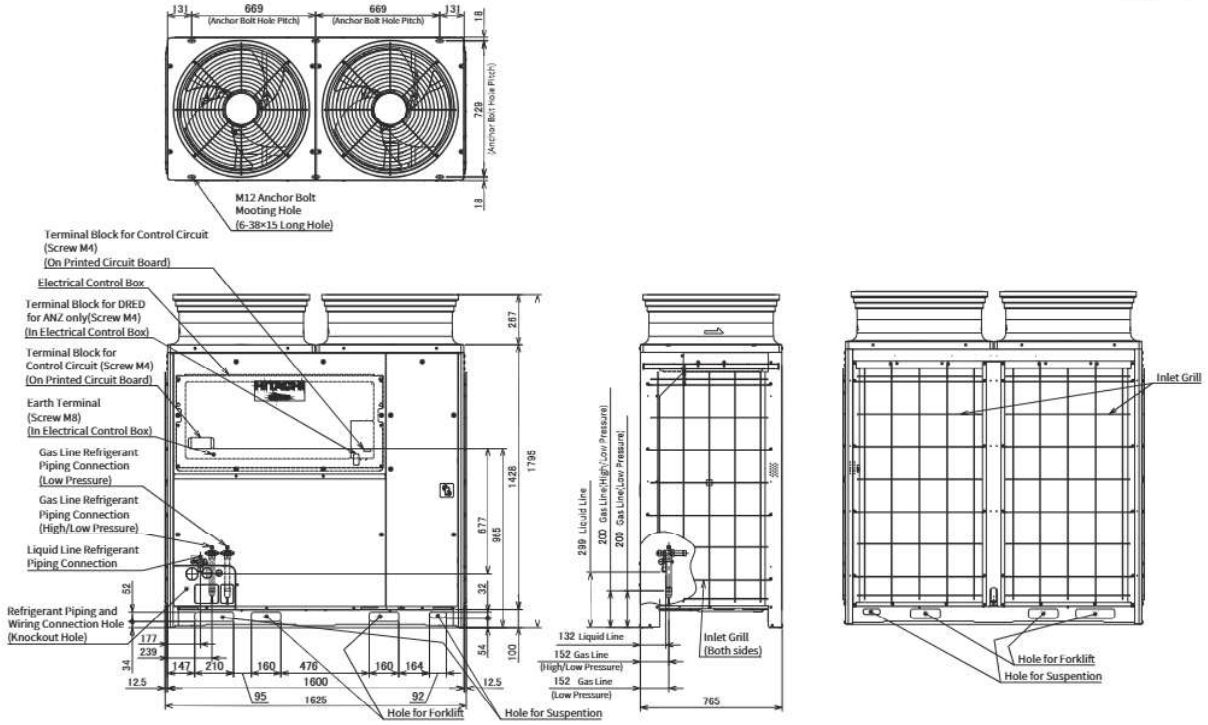
NOTES:

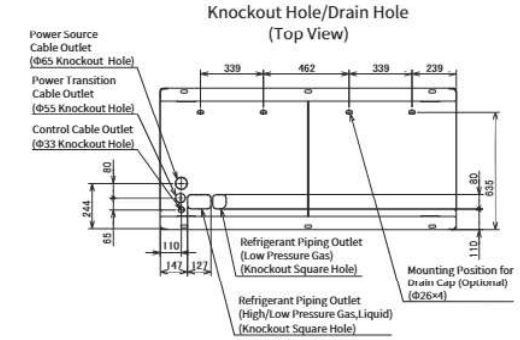
1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

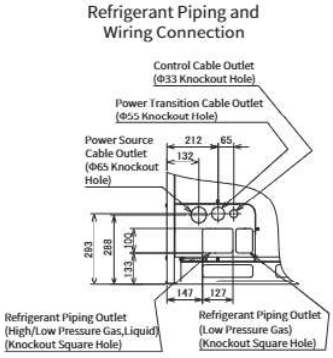
4. Dimensional Data

Region	Model
ANZ	RAS-200RNCCLW, RAS-220RNCCLW and RAS-240RNCCLW
LA	RAS-200RNCC(L/R)W, RAS-220RNCC(L/R)W , RAS-240RNCC(L/R)W , RAS-260RNCC(L/R)W and RAS-280RNCC(L/R)W
ANZ	RAS-180RNCBLW and RAS-200RNCBLW

Unit: mm





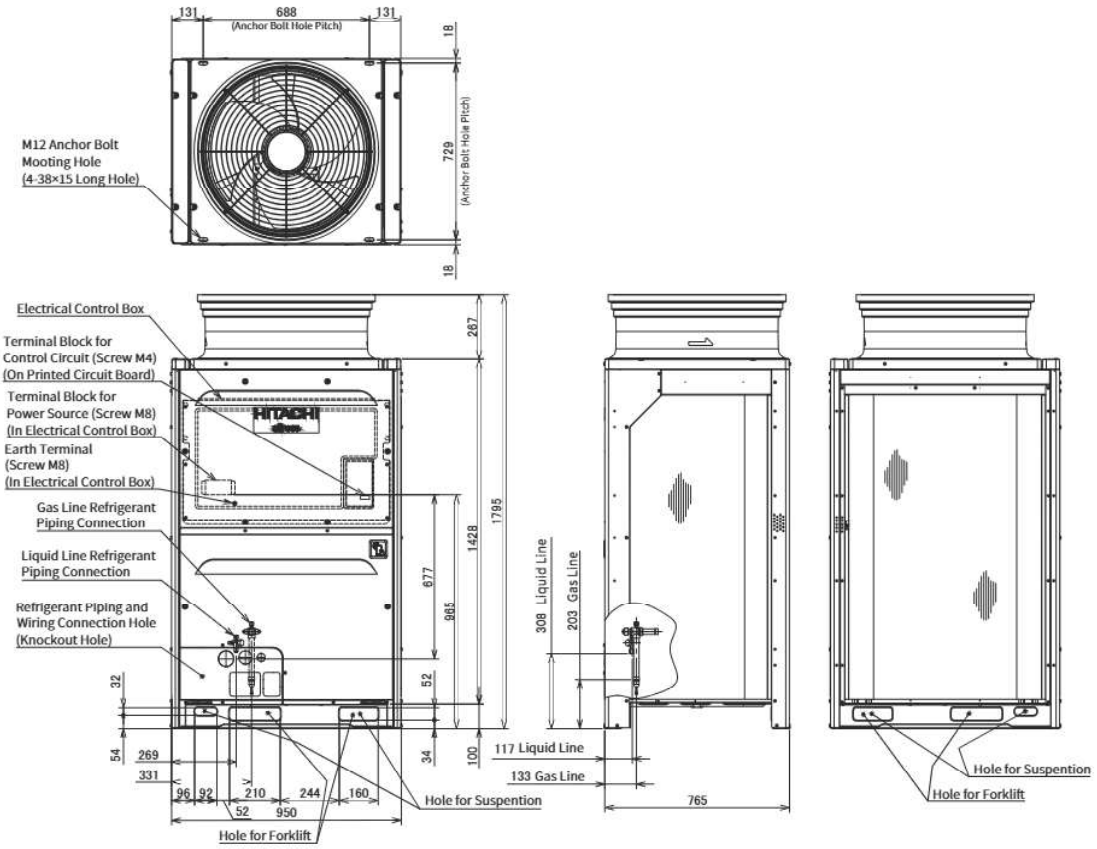


NOTES:

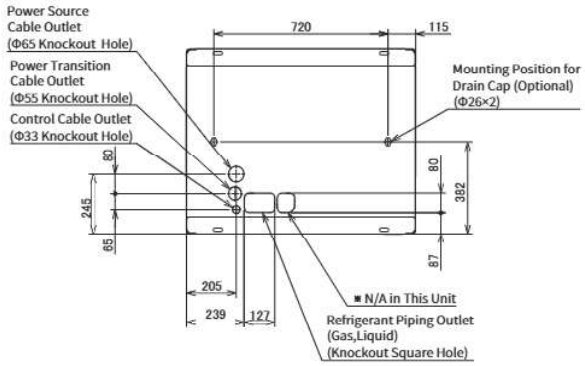
1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

Region	Model
SEA	RAS-080HNCCLW, RAS-100HNCCLW and RAS-120HNCCLW
SEA	RAS-080HNCBLW and RAS-100HNCBLW

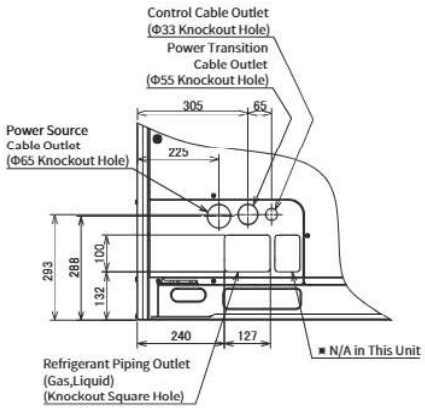
Unit: mm



Knockout Hole/Drain Hole
(Top View)



Refrigerant Piping and
Wiring Connection



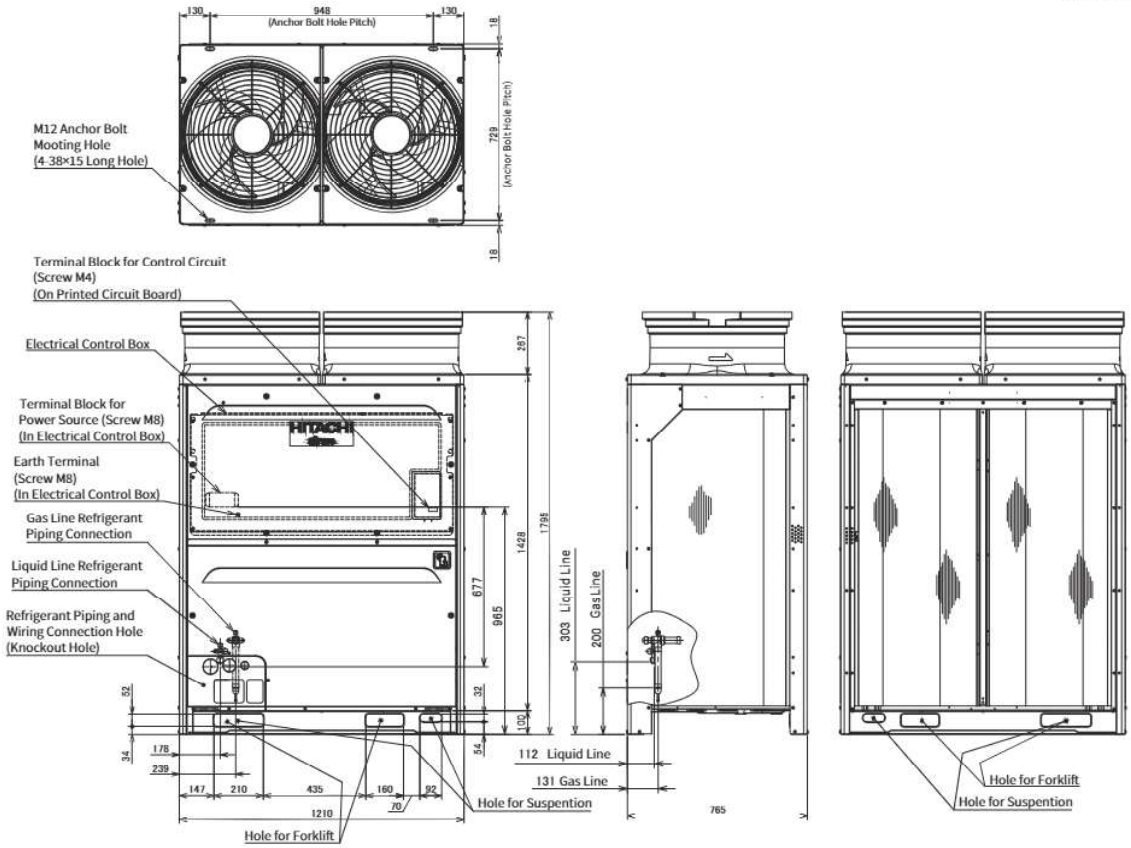
NOTES:

1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

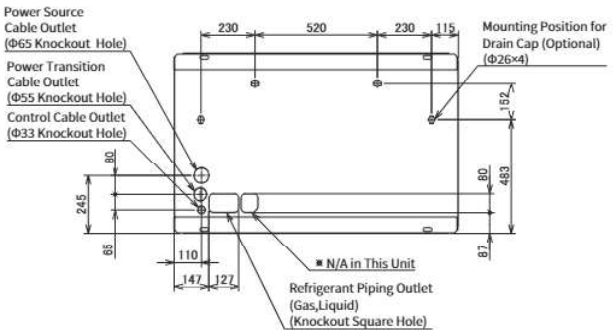
4. Dimensional Data

Region	Model
SEA	RAS-140HNCCLW, RAS-160HNCCLW and RAS-180HNCCLW
SEA	RAS-120HNCBLW, RAS-140HNCBLW and RAS-160HNCBLW

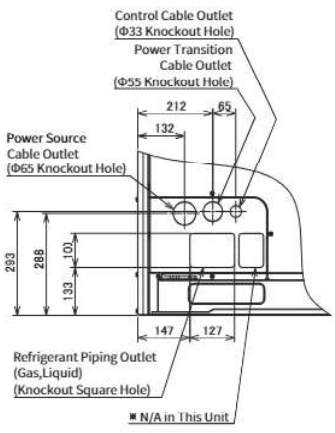
Unit: mm



Knockout Hole/Drain Hole
(Top View)



Refrigerant Piping and
Wiring Connection

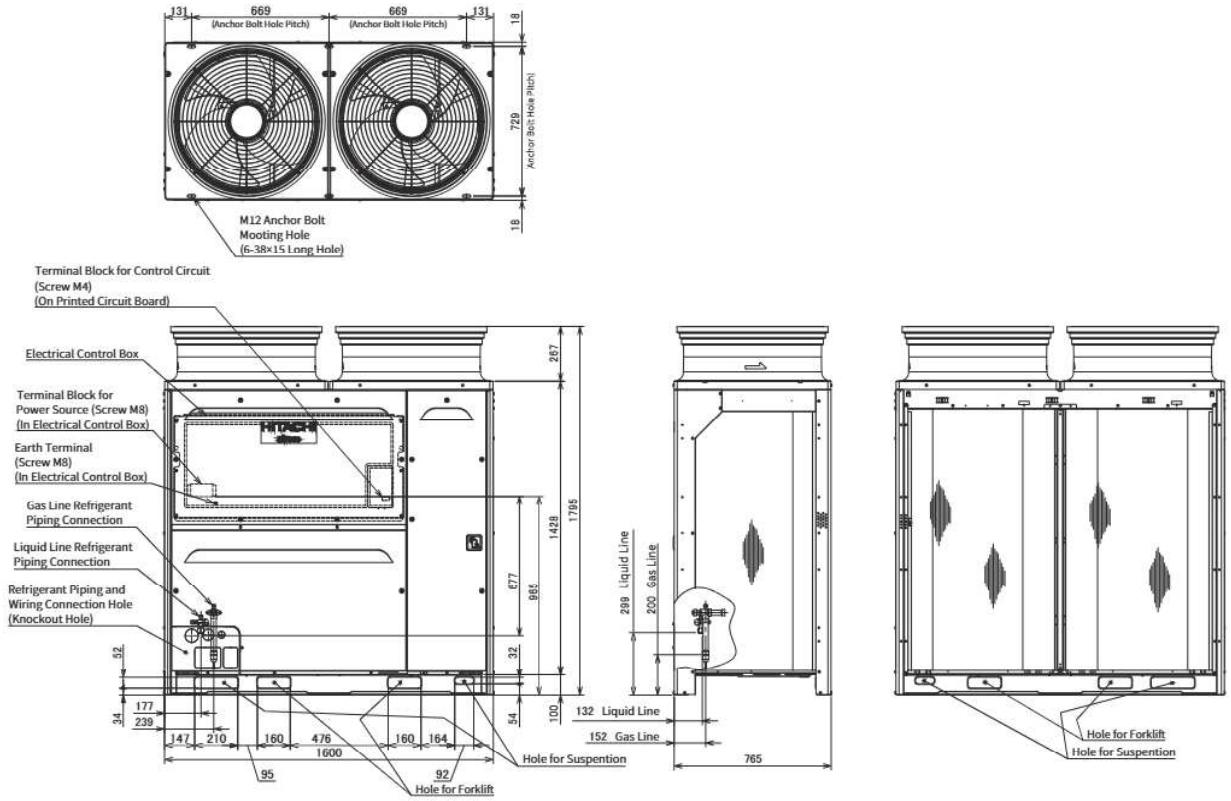


NOTES:

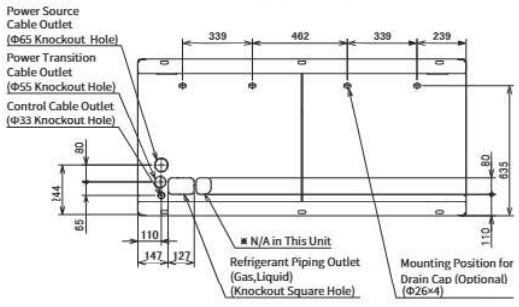
1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

Region	Model
SEA	RAS-200HNCCLW, RAS-220HNCCLW, RAS-240HNCCLW, RAS-260HNCCLW and RAS-280HNCCLW
SEA	RAS-180HNCBLW, RAS-200HNCBLW and RAS-220HNCBLW

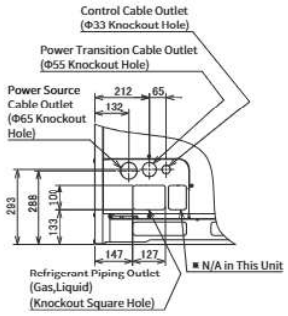
Unit: mm



Knockout Hole/Drain Hole
(Top View)



Refrigerant Piping and
Wiring Connection



NOTES:

1. Refer to "System Pipe Drawing" for diameters.
2. Drainage to come out during heating or defrost operation, and rain water, too. Choose a well drained place to install units or provide a ditch to drain.
3. Do not install above the corridors. Drainage may fall. If inevitable, provide the second drain pan to run drainage.
4. Use a drain boss(optional) if drain setup for Outdoor Unit is necessary. However, installation of the drain boss in regions where drainage may frozen is prohibited. Drainage in the pipes may frozen and cause cracks on the pipes. Follow the instructions on Installation Manual provided with drain boss.

Dimensional Data Common Notes

- Drain Water Treatment
  Drain water is discharged during heating and defrosting operation. (Rain water is also discharged.)
  Comply with the following conditions.
  - Choose a place where good drainage is available, or provide a drain ditch.
  - Do not install the unit over the walkways. Condensation water may fall on people.
    In case of installing the unit in such a place, provide an additional drain pan.
  - When drain piping is necessary for the outdoor unit, use the drain adapter (Optional: DBS-26 (Straight Type)).
    Do not use a drain adapter in a cold area. The drain water in the drain pipe may freeze and cause the drain pipe to crack. For installation of a drain adapter, refer to the Installation Manual for Drain Adapter.

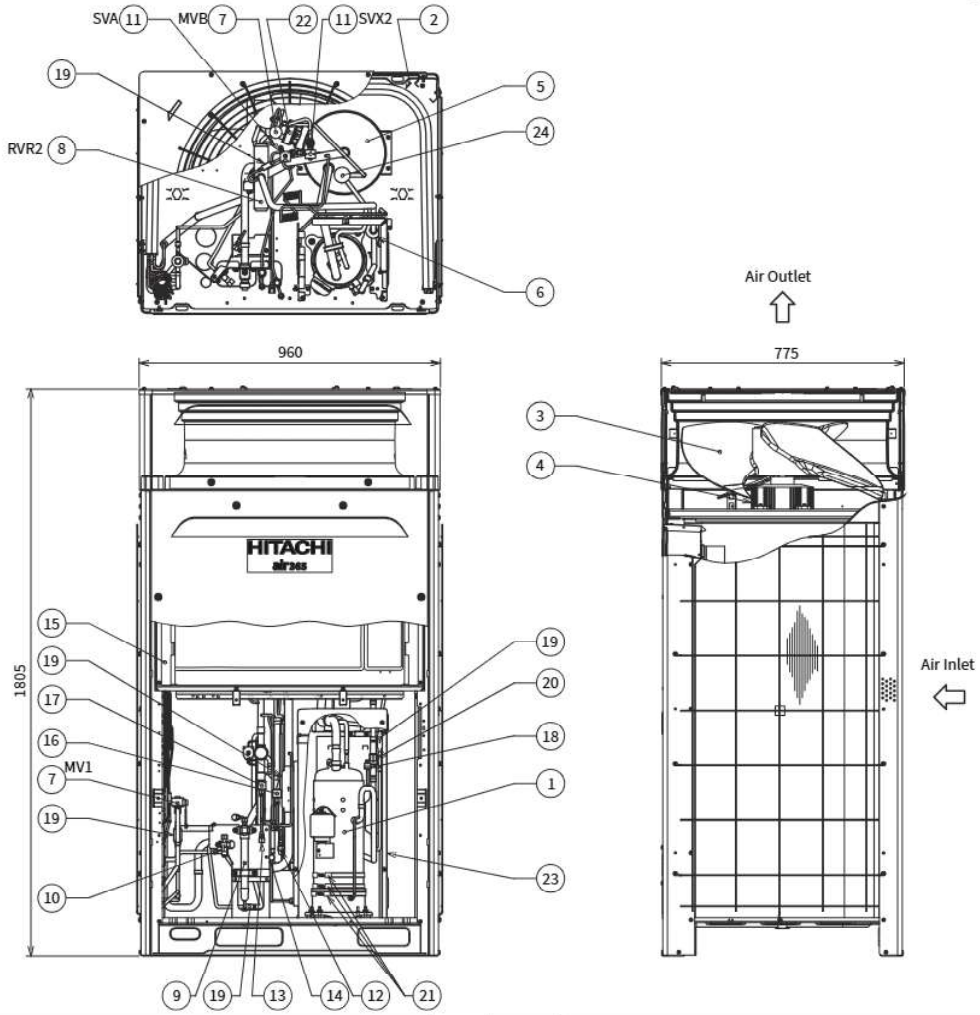
    NOTES:
    - Even when the drain adapter is used, the water may drain slightly from the screw holes.
    - Provide a second drain pan under the outdoor unit as necessary.

5. Structure

5.1 Outdoor Units

Region	Model
MEA, NEU	RAS-080HNCCLW, RAS-100HNCCLW and RAS-120HNCCLW
IN/SA	RAS-080HNCCLI, RAS-100HNCCLI and RAS-120HNCCLI
MEA	RAS-080JNCBLI and RAS-100JNCBLI

Unit: mm



No.	Part Name
1	Compressor (Inverter)
2	Heat Exchanger
3	Propeller Fan
4	Fan Motor
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve
9	Stop Valve (Gas)
10	Stop Valve (Liquid)
11	Solenoid Valve(2 pcs.)
12	Check Joint (Low)

No.	Part Name
13	Check Joint (High)
14	Check Joint (for Oil)
15	Electrical Box
16	Low Pressure Sensor
17	High Pressure Sensor
18	High Pressure Switch for Protection
19	Strainer(5 pcs.)
20	Check Valve
21	Crankcase Heater(3 pcs.)
22	Plate Type Heat Exchanger
23	Compressor Cover
24	Silencer

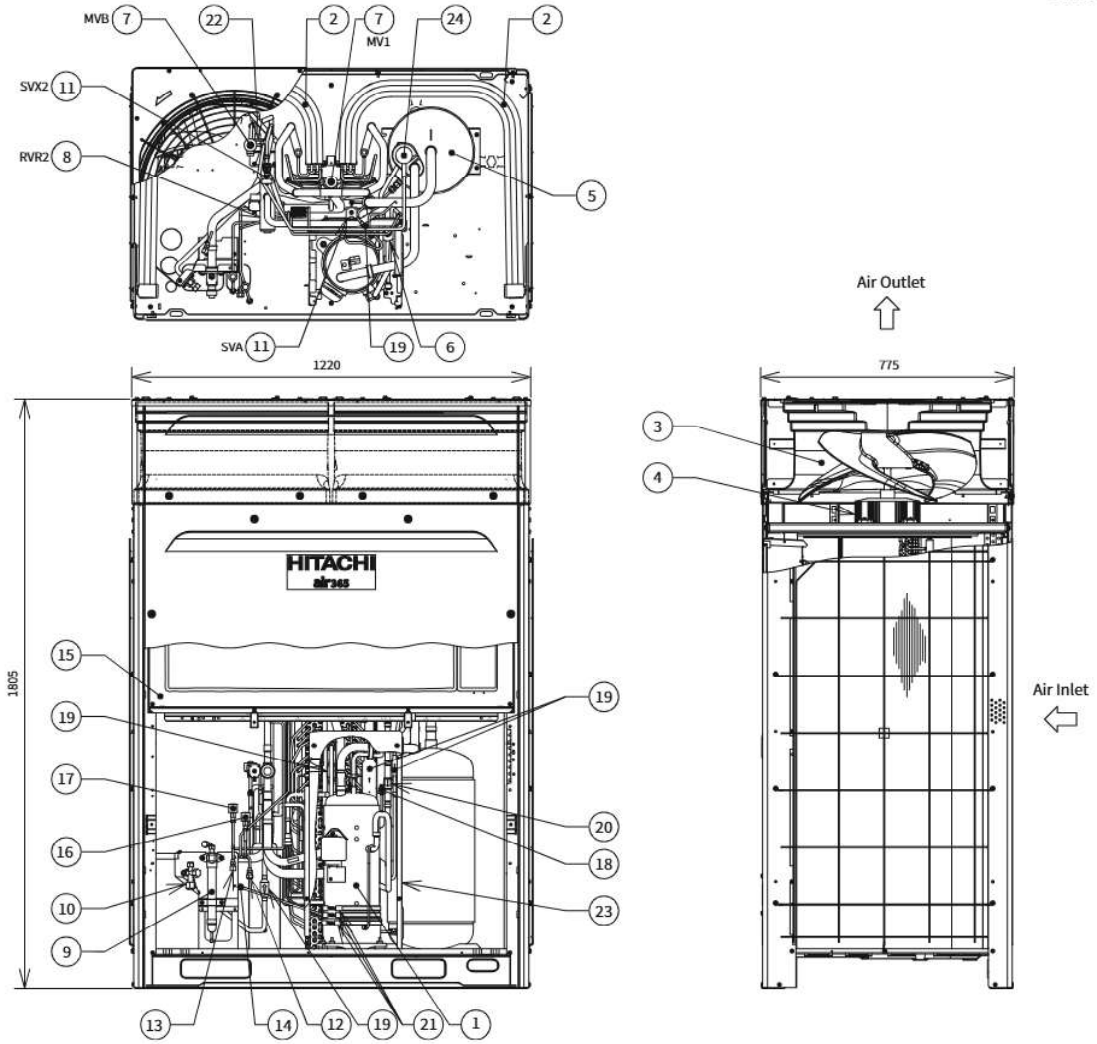
NOTE:

- The diagram shows the case of Model RAS-080HNCCLW(MEA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

5. Structure

Region	Model
MEA, NEU	RAS-140HNCCLW, RAS-160HNCCLW and RAS-180HNCCLW
IN/SA	RAS-140HNCCLI, RAS-160HNCCLI and RAS-180HNCCLI
MEA	RAS-120JNCBLI

Unit: mm



No.	Part Name
1	Compressor (Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve
9	Stop Valve (Gas)
10	Stop Valve (Liquid)
11	Solenoid Valve(2 pcs.)
12	Check Joint (Low)

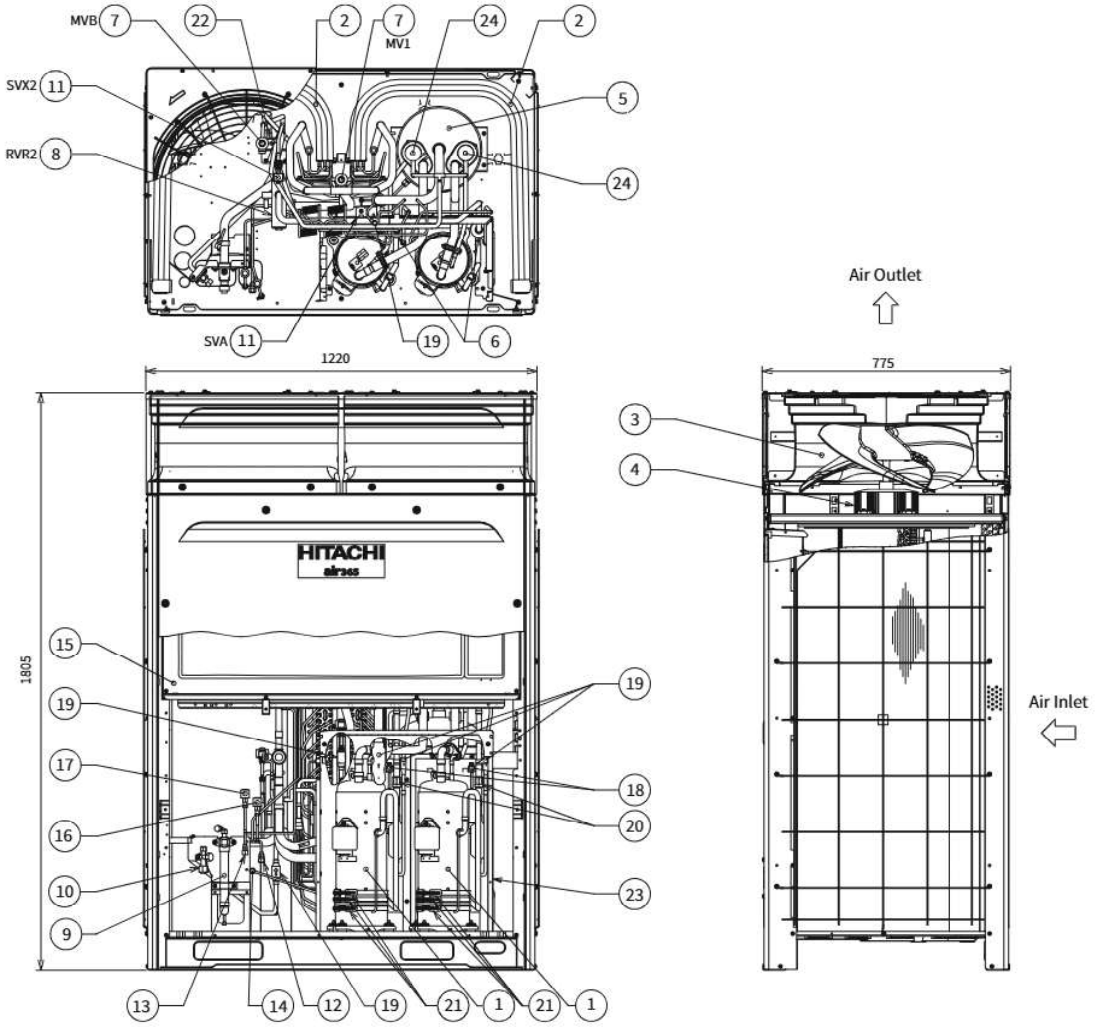
No.	Part Name
13	Check Joint (High)
14	Check Joint (for Oil)
15	Electrical Box
16	Low Pressure Sensor
17	High Pressure Sensor
18	High Pressure Switch for Protection
19	Strainer(5 pcs.)
20	Check Valve
21	Crankcase Heater(3 pcs.)
22	Plate Type Heat Exchanger
23	Compressor Cover
24	Silencer

NOTE:

- The diagram shows the case of Model RAS-140HNCCLW(MEA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

Region	Model
MEA	RAS-140JNCBLI and RAS-160JNCBLI

Unit: mm



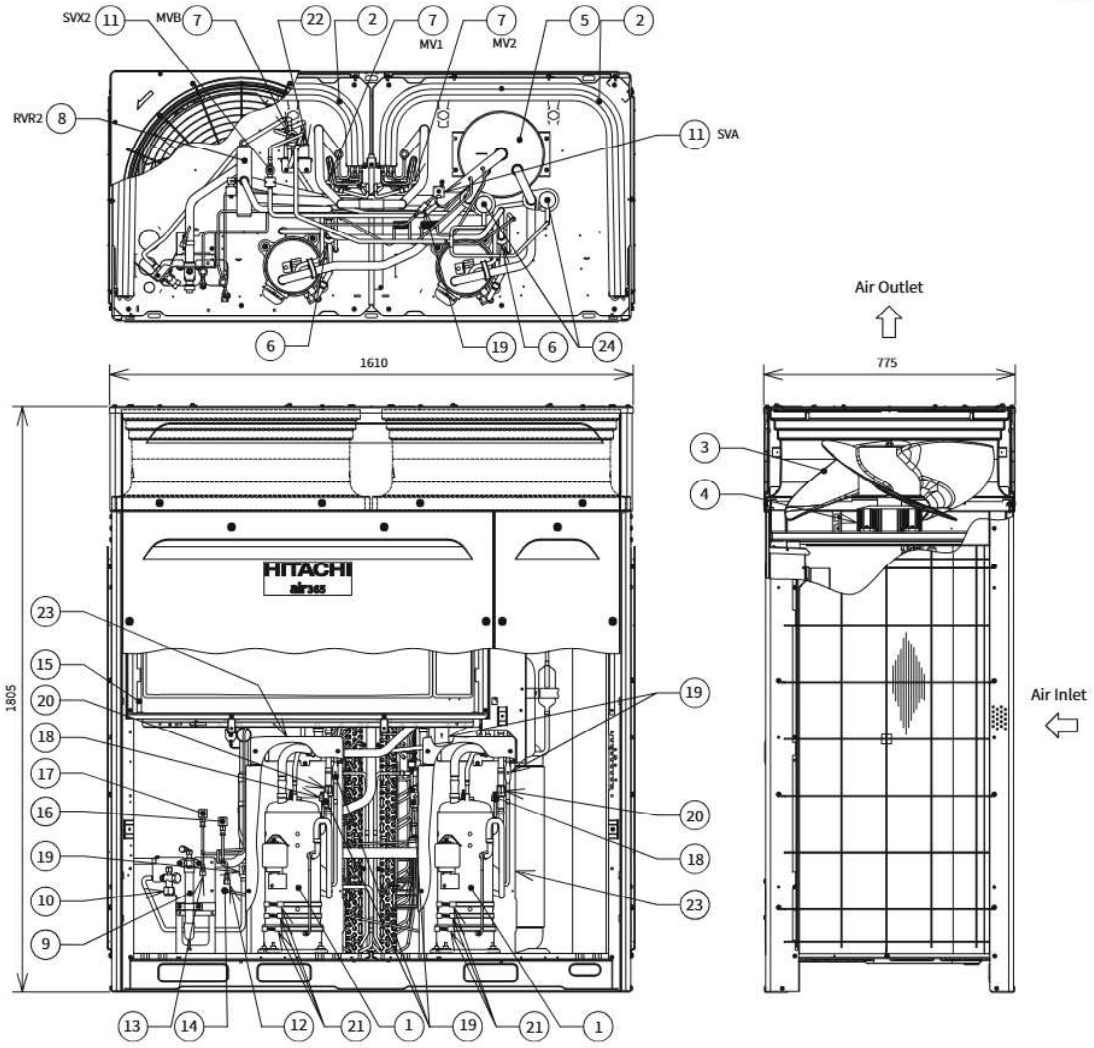
No.	Part Name
1	Compressor(2 pcs.) (Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve
9	Stop Valve (Gas)
10	Stop Valve (Liquid)
11	Solenoid Valve(2 pcs.)
12	Check Joint (Low)

No.	Part Name
13	Check Joint (High)
14	Check Joint (for Oil)
15	Electrical Box
16	Low Pressure Sensor
17	High Pressure Sensor
18	High Pressure Switch for Protection(2 pcs.)
19	Strainer(6 pcs.)
20	Check Valve(2 pcs.)
21	Crankcase Heater(6 pcs.)
22	Plate Type Heat Exchanger
23	Compressor Cover
24	Silencer(2 pcs.)

5. Structure

Region	Model
MEA, NEU	RAS-200HNCCLW, RAS-220HNCCLW,RAS-240HNCCLW, RAS-260HNCCLW and RAS-280HNCCLW
IN/SA	RAS-200HNCCLI, RAS-220HNCCLI, RAS-240HNCCLI, RAS-260HNCCLI and RAS-280HNCCLI
MEA	RAS-180JNCBLI, RAS-200JNCBLI and RAS-220JNCBLI

Unit: mm



No.	Part Name
1	Compressor(2 pcs.) (Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (3 pcs.)
8	Reversing Valve
9	Stop Valve (Gas)
10	Stop Valve (Liquid)
11	Solenoid Valve(2 pcs.)
12	Check Joint (Low)

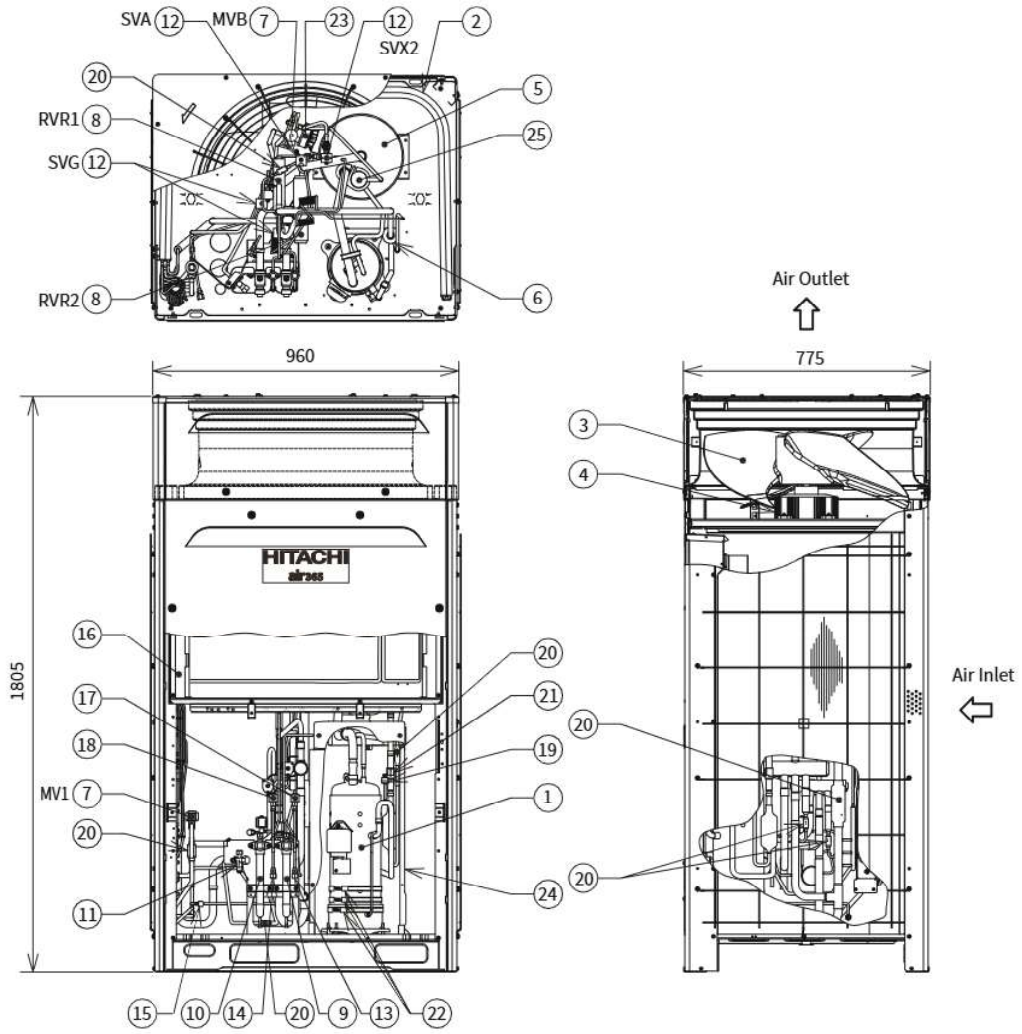
No.	Part Name
13	Check Joint (High)
14	Check Joint (for Oil)
15	Electrical Box
16	Low Pressure Sensor
17	High Pressure Sensor
18	High Pressure Switch for Protection(2 pcs.)
19	Strainer(7 pcs.)
20	Check Valve(2 pcs.)
21	Crankcase Heater(6 pcs.)
22	Plate Type Heat Exchanger
23	Compressor Cover
24	Silencer(2 pcs.)

NOTE:

- The diagram shows the case of Model RAS-200HNCCLW(MEA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

Region	Model
MEA	RAS-080RNCCLW, RAS-100RNCCLW and RAS-120RNCCLW

Unit: mm



No.	Part Name
1	Compressor(Inverter)
2	Heat Exchanger
3	Propeller Fan
4	Fan Motor
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve(2 pcs.)
9	Stop Valve (Gas)(Low pressure)
10	Stop Valve (Gas)(High/Low pressure)
11	Stop Valve (Liquid)
12	Solenoid Valve(4 pcs.)

No.	Part Name
13	Check Joint (Low)
14	Check Joint (High)
15	Check Joint (for Oil)
16	Electrical Box
17	Low Pressure Sensor
18	High Pressure Sensor
19	High Pressure Switch for Protection
20	Strainer(7 pcs.)
21	Check Valve
22	Crankcase Heater(3 pcs.)
23	Plate Type Heat Exchanger
24	Compressor Cover
25	Silencer

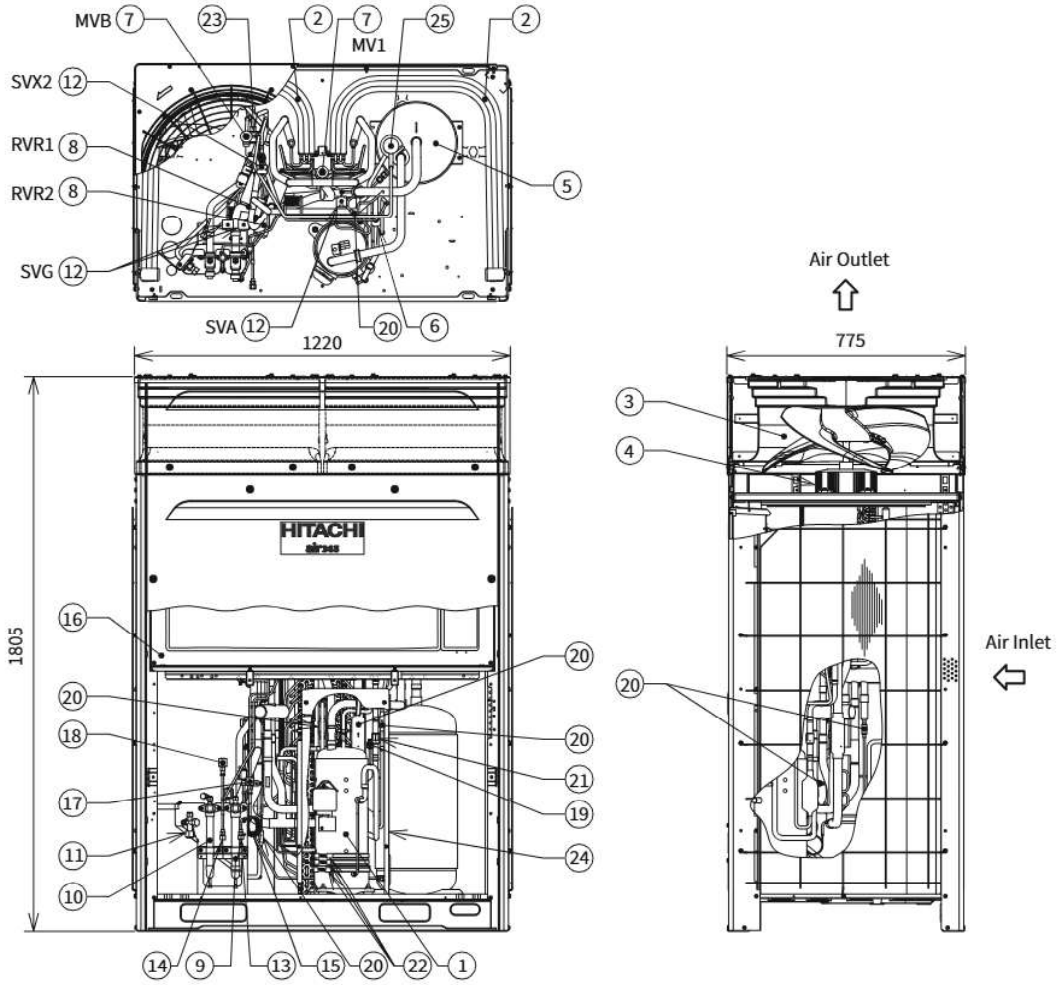
NOTE:

- The diagram shows the case of Model RAS-080RNCCLW(MEA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

5. Structure

Region	Model
MEA	RAS-140RNCCLW, RAS-160RNCCLW and RAS-180RNCCLW

Unit: mm



No.	Part Name
1	Compressor(Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve(2 pcs.)
9	Stop Valve (Gas)(Low pressure)
10	Stop Valve (Gas)(High/Low pressure)
11	Stop Valve (Liquid)
12	Solenoid Valve(4 pcs.)

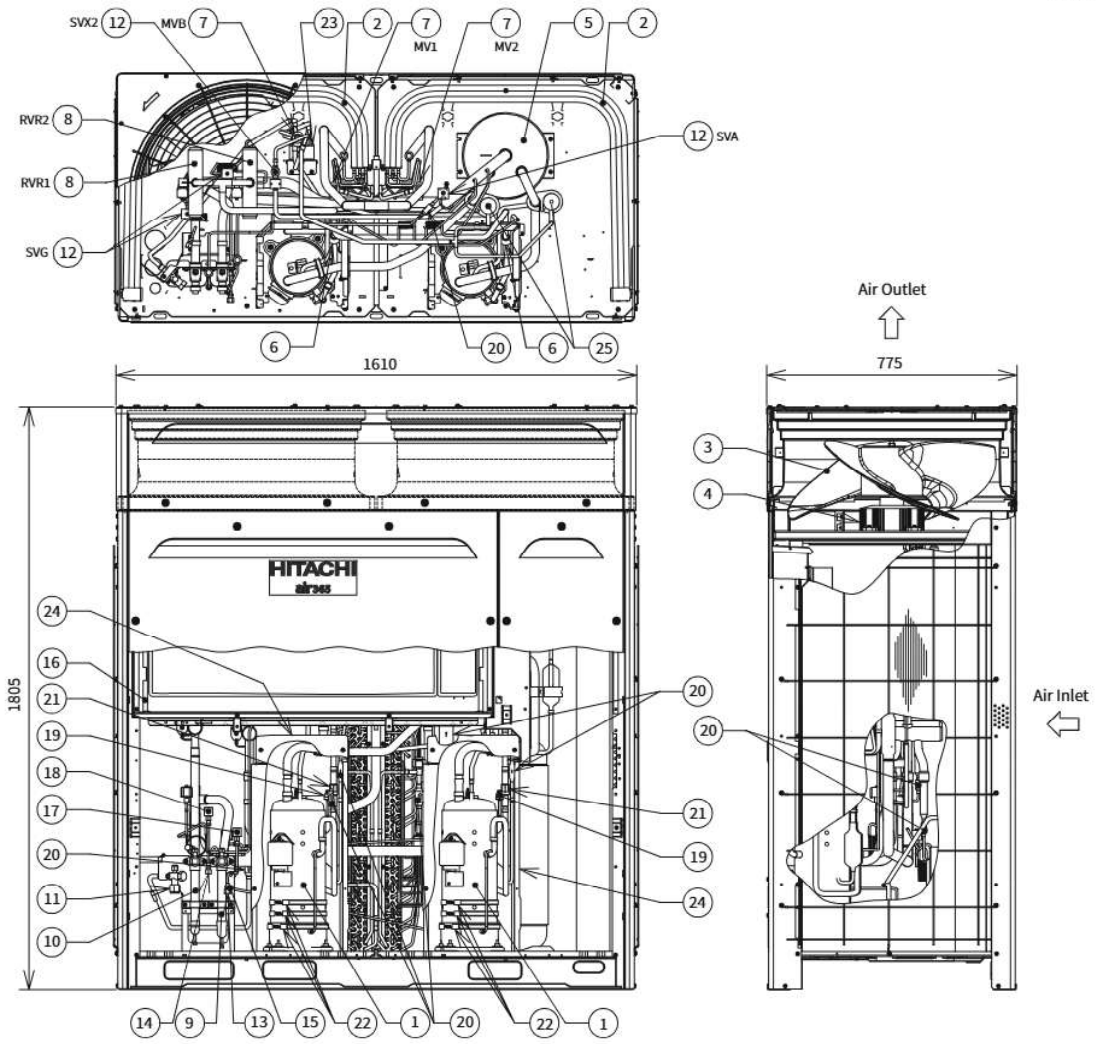
No.	Part Name
13	Check Joint (Low)
14	Check Joint (High)
15	Check Joint (for Oil)
16	Electrical Box
17	Low Pressure Sensor
18	High Pressure Sensor
19	High Pressure Switch for Protection
20	Strainer(7 pcs.)
21	Check Valve
22	Crankcase Heater(3 pcs.)
23	Plate Type Heat Exchanger
24	Compressor Cover
25	Silencer

NOTE:

- The diagram shows the case of Model RAS-140RNCCLW(MEA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

Region	Model
MEA	RAS-200RNCCLW, RAS-220RNCCLW, RAS-240RNCCLW, RAS-260RNCCLW and RAS-280RNCCLW

Unit: mm



No.	Part Name
1	Compressor(2 pcs.)(Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (3 pcs.)
8	Reversing Valve(2 pcs.)
9	Stop Valve (Gas)(Low pressure)
10	Stop Valve (Gas)(High/Low pressure)
11	Stop Valve (Liquid)
12	Solenoid Valve(4 pcs.)

No.	Part Name
13	Check Joint (Low)
14	Check Joint (High)
15	Check Joint (for Oil)
16	Electrical Box
17	Low Pressure Sensor
18	High Pressure Sensor
19	High Pressure Switch for Protection(2 pcs.)
20	Strainer(9 pcs.)
21	Check Valve(2 pcs.)
22	Crankcase Heater(6 pcs.)
23	Plate Type Heat Exchanger
24	Compressor Cover
25	Silencer(2 pcs.)

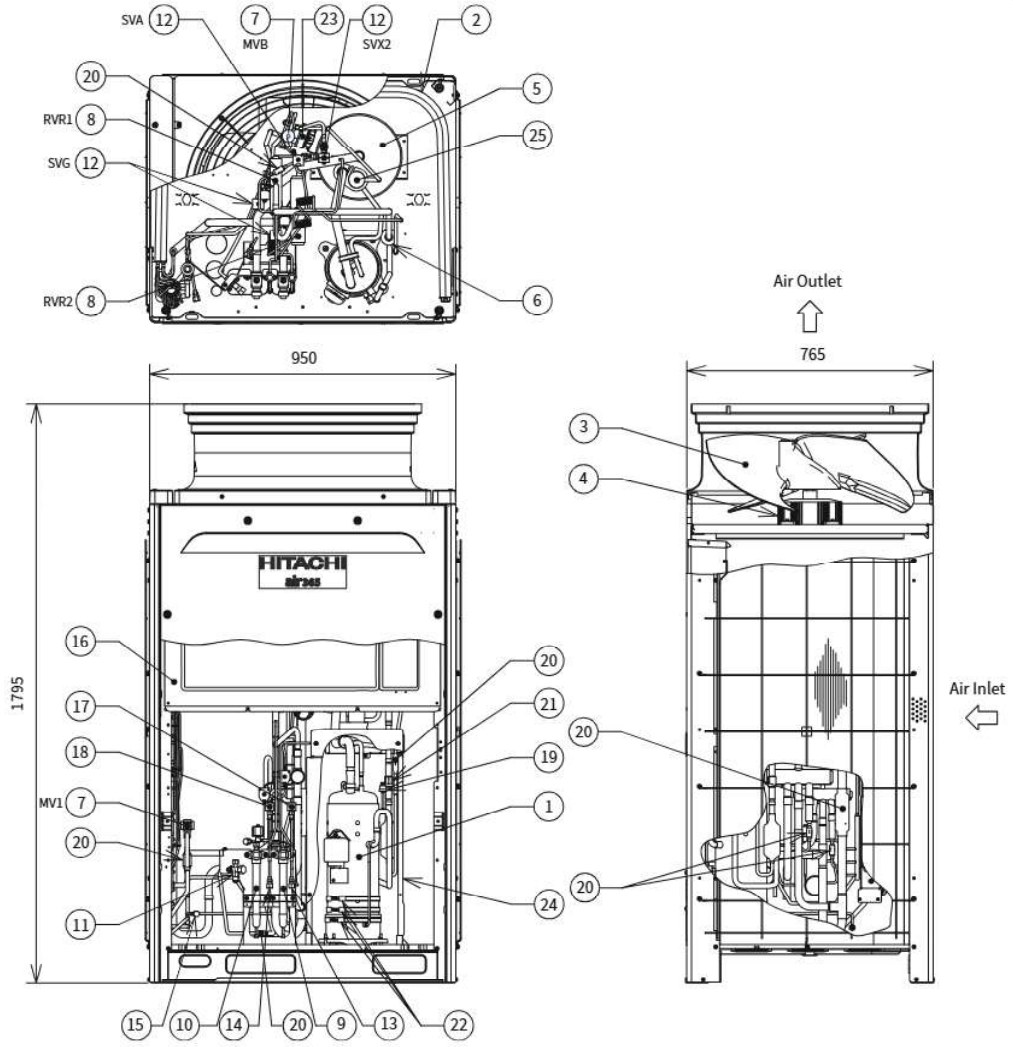
NOTE:

- The diagram shows the case of Model RAS-200RNCCLW(MEA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

5. Structure

Region	Model
ANZ	RAS-080RNCCLW, RAS-100RNCCLW and RAS-120RNCCLW
LA	RAS-080RNCC(L/R)W, RAS-100RNCC(L/R)W and RAS-120RNCC(L/R)W
ANZ	RAS-080RNCBLW and RAS-100RNCBLW

Unit: mm



No.	Part Name
1	Compressor(Inverter)
2	Heat Exchanger
3	Propeller Fan
4	Fan Motor
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve(2 pcs.)
9	Stop Valve (Gas)(Low pressure)
10	Stop Valve (Gas)(High/Low pressure)
11	Stop Valve (Liquid)
12	Solenoid Valve(4 pcs.)

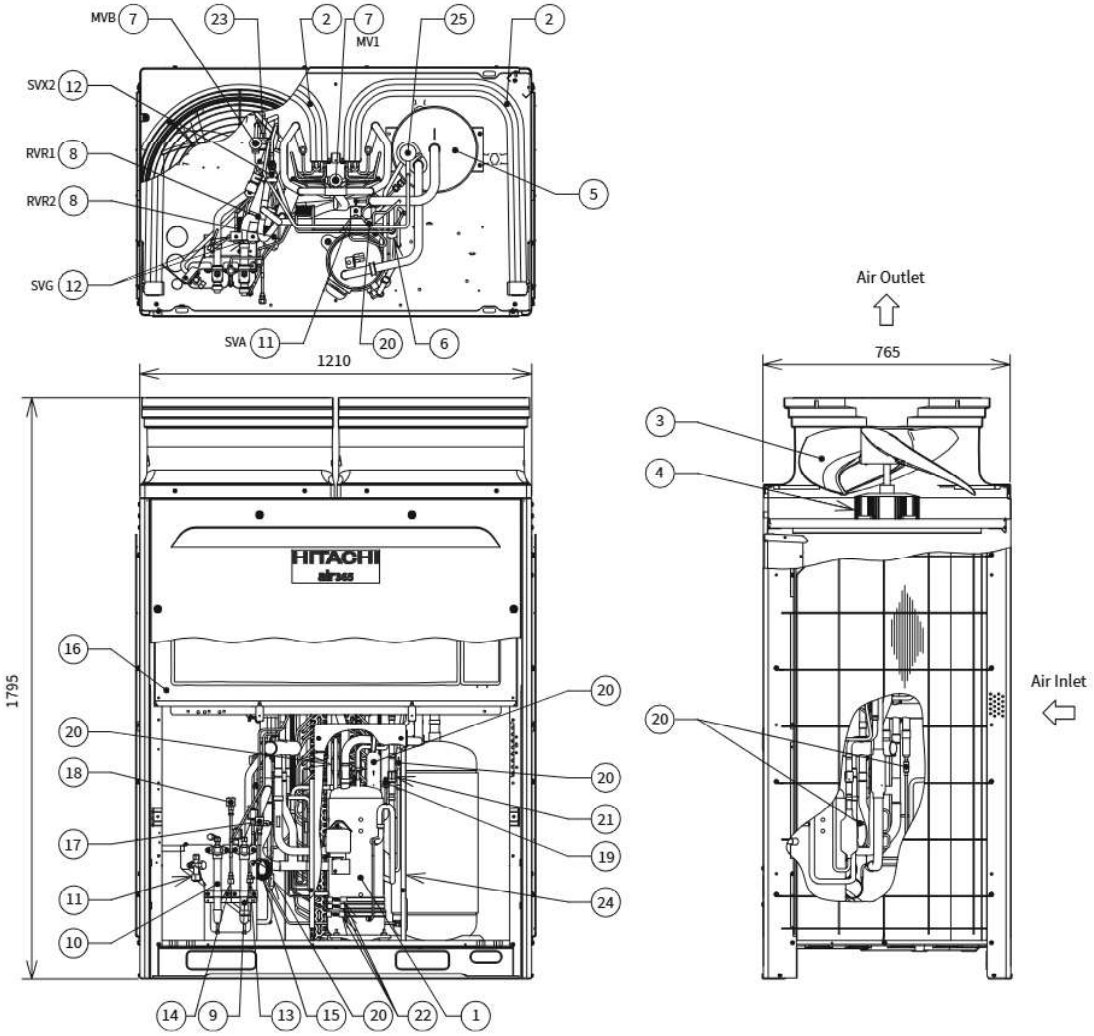
No.	Part Name
13	Check Joint (Low)
14	Check Joint (High)
15	Check Joint (for Oil)
16	Electrical Box
17	Low Pressure Sensor
18	High Pressure Sensor
19	High Pressure Switch for Protection
20	Strainer(7 pcs.)
21	Check Valve
22	Crankcase Heater(3 pcs.)
23	Plate Type Heat Exchanger
24	Compressor Cover
25	Silencer

NOTE:

- The diagram shows the case of Model RAS-080RNCCLW(ANZ)(The shape of the cycle piping may be different depending on sales region or horsepower.).

Region	Model
ANZ	RAS-140RNCCLW, RAS-160RNCCLW and RAS-180RNCCLW
LA	RAS-140RNCC(L/R)W, RAS-160RNCC(L/R)W and RAS-180RNCC(L/R)W
ANZ	RAS-120RNCBLW

Unit: mm



No.	Part Name
1	Compressor(Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve(2 pcs.)
9	Stop Valve (Gas)(Low pressure)
10	Stop Valve (Gas)(High/Low pressure)
11	Stop Valve (Liquid)
12	Solenoid Valve(4 pcs.)

No.	Part Name
13	Check Joint (Low)
14	Check Joint (High)
15	Check Joint (for Oil)
16	Electrical Box
17	Low Pressure Sensor
18	High Pressure Sensor
19	High Pressure Switch for Protection
20	Strainer(7 pcs.)
21	Check Valve
22	Crankcase Heater(3 pcs.)
23	Plate Type Heat Exchanger
24	Compressor Cover
25	Silencer

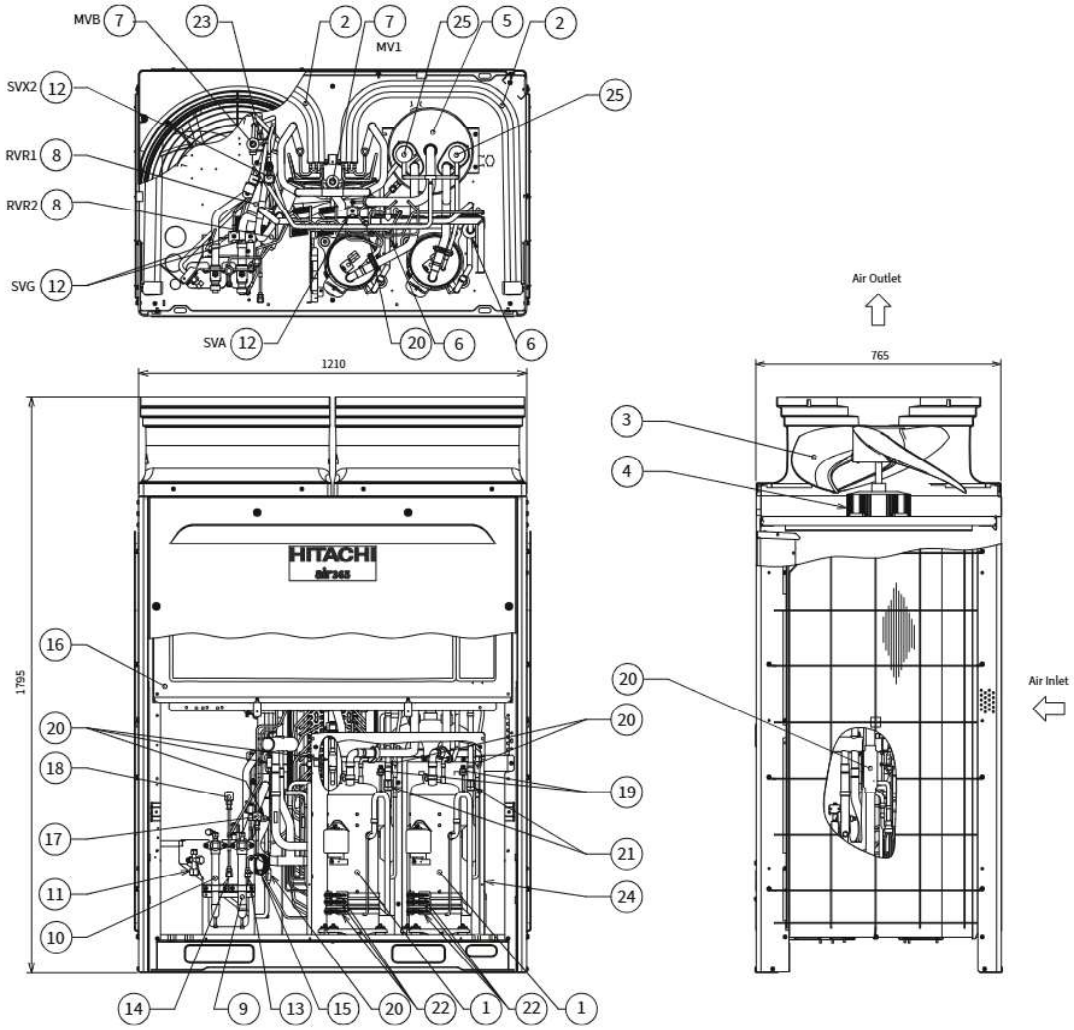
NOTE:

- The diagram shows the case of Model RAS-140RNCCLW(ANZ)(The shape of the cycle piping may be different depending on sales region or horsepower.).

5. Structure

Region	Model
ANZ	RAS-140RNCBLW and RAS-160RNCBLW

Unit: mm

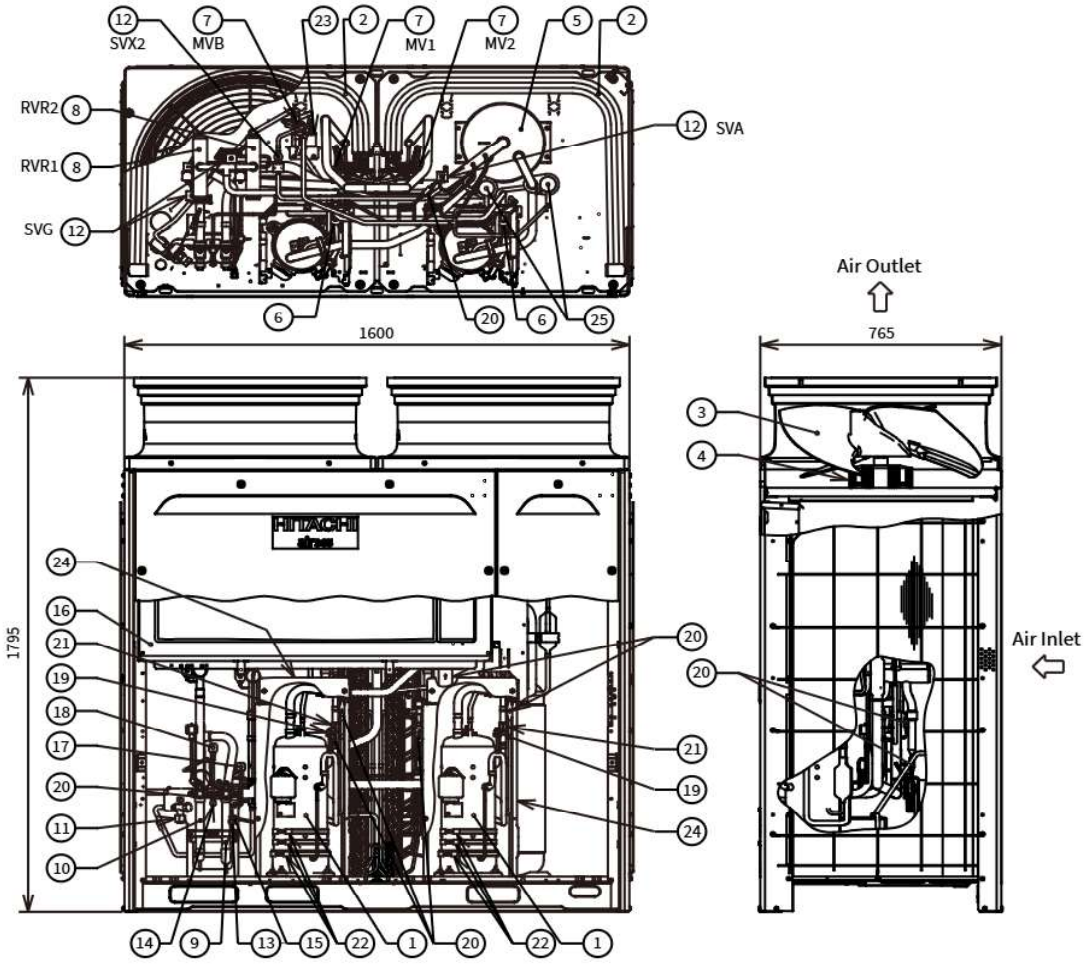


No.	Part Name
1	Compressor(Inverter)(2 pcs.)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve(2 pcs.)
9	Stop Valve (Gas)(Low pressure)
10	Stop Valve (Gas)(High/Low pressure)
11	Stop Valve (Liquid)
12	Solenoid Valve(4 pcs.)

No.	Part Name
13	Check Joint (Low)
14	Check Joint (High)
15	Check Joint (for Oil)
16	Electrical Box
17	Low Pressure Sensor
18	High Pressure Sensor
19	High Pressure Switch for Protection(2 pcs.)
20	Strainer(8 pcs.)
21	Check Valve(2 pcs.)
22	Crankcase Heater(6 pcs.)
23	Plate Type Heat Exchanger
24	Compressor Cover
25	Silencer(2 pcs.)

Region	Model
ANZ	RAS-200RNCCLW, RAS-220RNCCLW and RAS-240RNCCLW
LA	RAS-200RNCC(L/R)W, RAS-220RNCC(L/R)W , RAS-240RNCC(L/R)W , RAS-260RNCCLW and RAS-280RNCCLW
ANZ	RAS-180RNCBLW and RAS-200RNCBLW

Unit: mm



No.	Part Name
1	Compressor(2 pcs.)(Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (3 pcs.)
8	Reversing Valve(2 pcs.)
9	Stop Valve (Gas)(Low pressure)
10	Stop Valve (Gas)(High/Low pressure)
11	Stop Valve (Liquid)
12	Solenoid Valve(4 pcs.)

No.	Part Name
13	Check Joint (Low)
14	Check Joint (High)
15	Check Joint (for Oil)
16	Electrical Box
17	Low Pressure Sensor
18	High Pressure Sensor
19	High Pressure Switch for Protection(2 pcs.)
20	Strainer(9 pcs.)
21	Check Valve(2 pcs.)
22	Crankcase Heater(6 pcs.)
23	Plate Type Heat Exchanger
24	Compressor Cover
25	Silencer(2 pcs.)

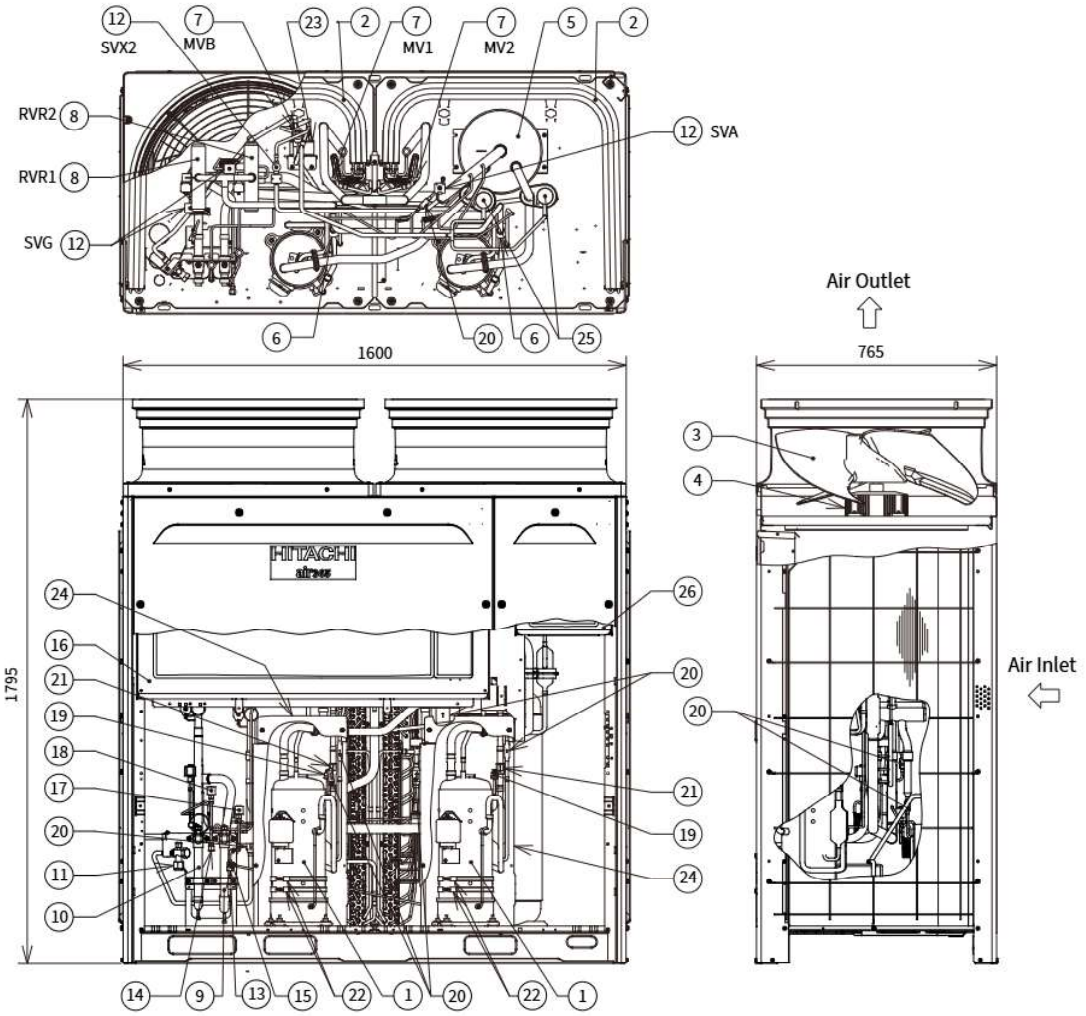
NOTE:

- The diagram shows the case of Model RAS-200RNCCLW(ANZ)(The shape of the cycle piping may be different depending on sales region or horsepower.).

5. Structure

Region	Model
LA	RAS-260RNCCRW and RAS-280RNCCRW

Unit: mm



No.	Part Name
1	Compressor(2 pcs.)(Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (3 pcs.)
8	Reversing Valve(2 pcs.)
9	Stop Valve (Gas)(Low pressure)
10	Stop Valve (Gas)(High/Low pressure)
11	Stop Valve (Liquid)
12	Solenoid Valve(4 pcs.)
13	Check Joint (Low)

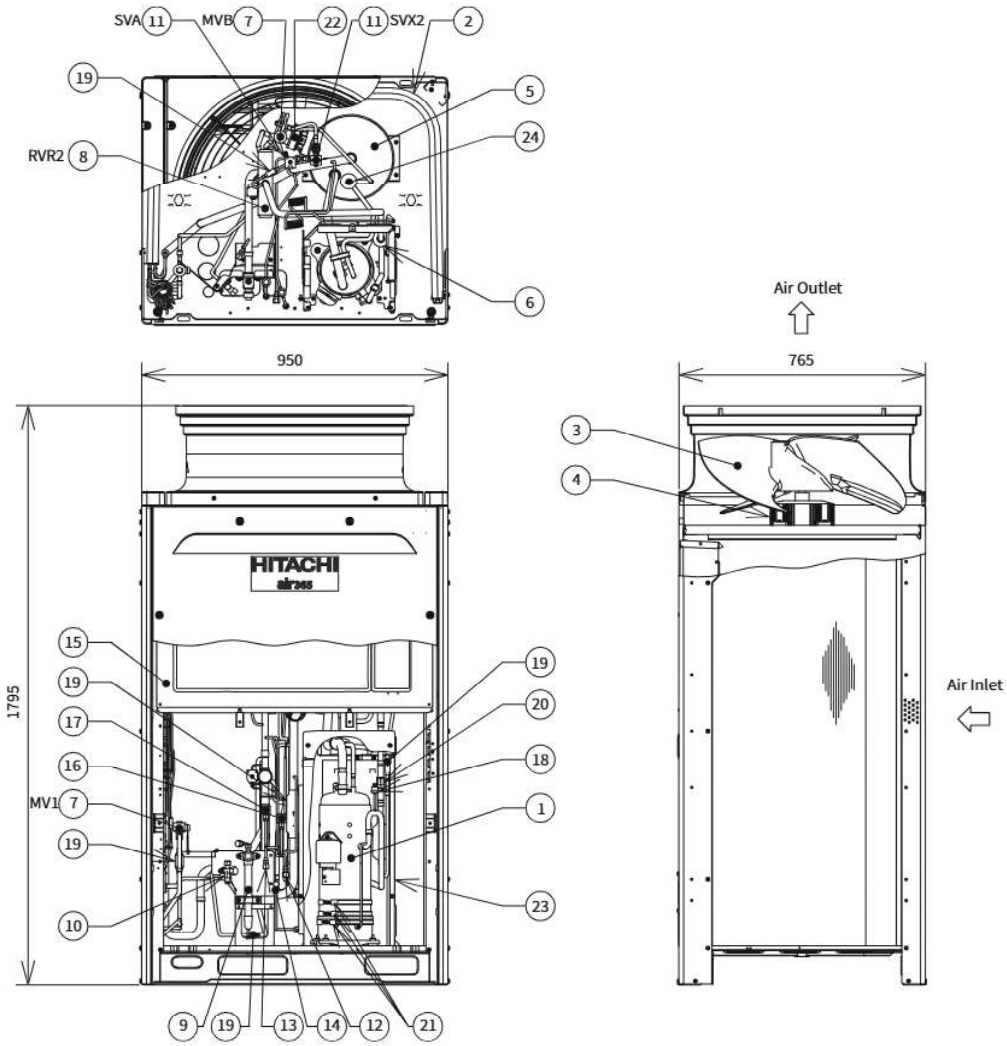
No.	Part Name
14	Check Joint (High)
15	Check Joint (for Oil)
16	Electrical Box
17	Low Pressure Sensor
18	High Pressure Sensor
19	High Pressure Switch for Protection(2 pcs.)
20	Strainer(9 pcs.)
21	Check Valve(2 pcs.)
22	Crankcase Heater(6 pcs.)
23	Plate Type Heat Exchanger
24	Compressor Cover
25	Silencer(2 pcs.)
26	Sub-Electrical Box

NOTE:

- The diagram shows the case of Model RAS-260RNCCRW(LA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

Region	Model
SEA	RAS-080HNCCLW, RAS-100HNCCLW and RAS-120HNCCLW
SEA	RAS-080HNCBLW and RAS-100HNCBLW

Unit: mm



No.	Part Name
1	Compressor (Inverter)
2	Heat Exchanger
3	Propeller Fan
4	Fan Motor
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve
9	Stop Valve (Gas)
10	Stop Valve (Liquid)
11	Solenoid Valve(2 pcs.)
12	Check Joint (Low)

No.	Part Name
13	Check Joint (High)
14	Check Joint (for Oil)
15	Electrical Box
16	Low Pressure Sensor
17	High Pressure Sensor
18	High Pressure Switch for Protection
19	Strainer(5 pcs.)
20	Check Valve
21	Crankcase Heater(3 pcs.)
22	Plate Type Heat Exchanger
23	Compressor Cover
24	Silencer

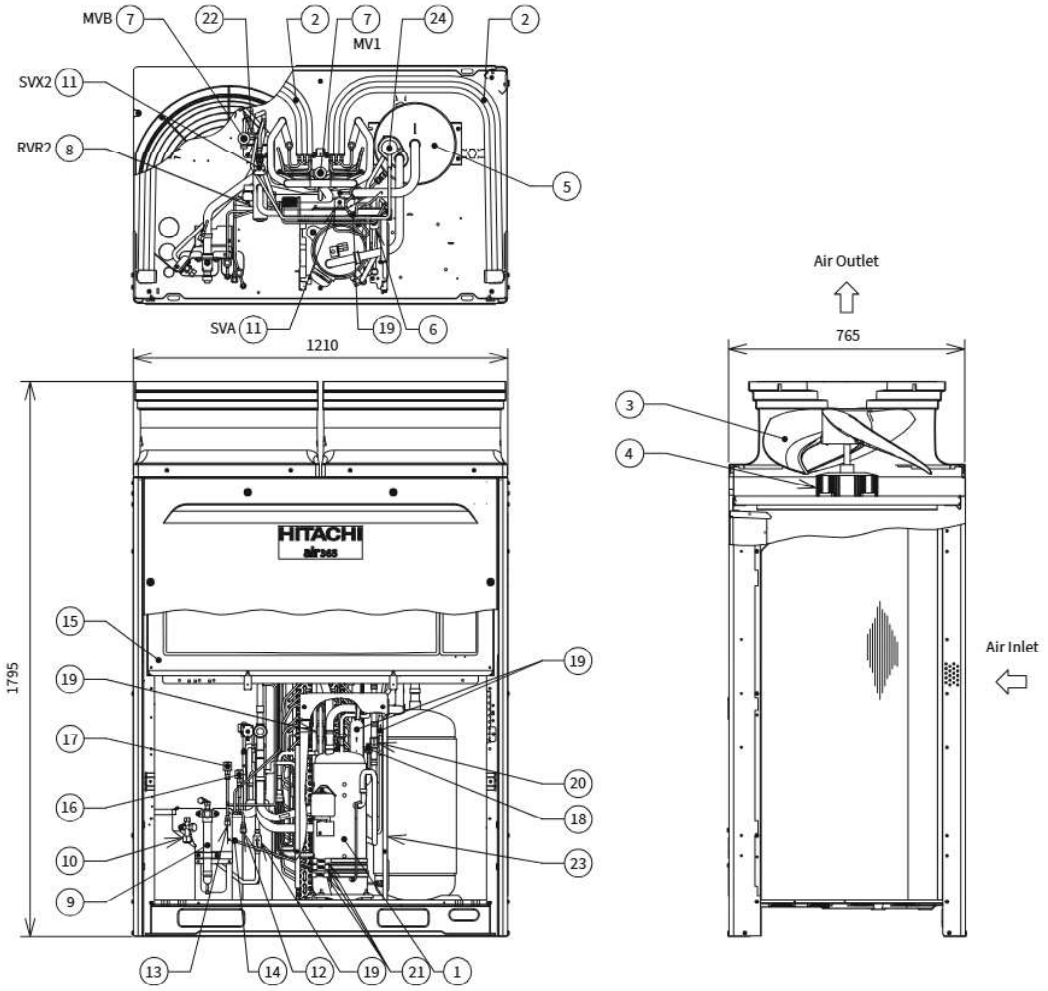
NOTE:

- The diagram shows the case of Model RAS-080HNCCLW(SEA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

5. Structure

Region	Model
SEA	RAS-140HNCCLW, RAS-160HNCCLW and RAS-180HNCCLW
SEA	RAS-120HNCBLW

Unit: mm



No.	Part Name
1	Compressor (Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve
9	Stop Valve (Gas)
10	Stop Valve (Liquid)
11	Solenoid Valve(2 pcs.)
12	Check Joint (Low)

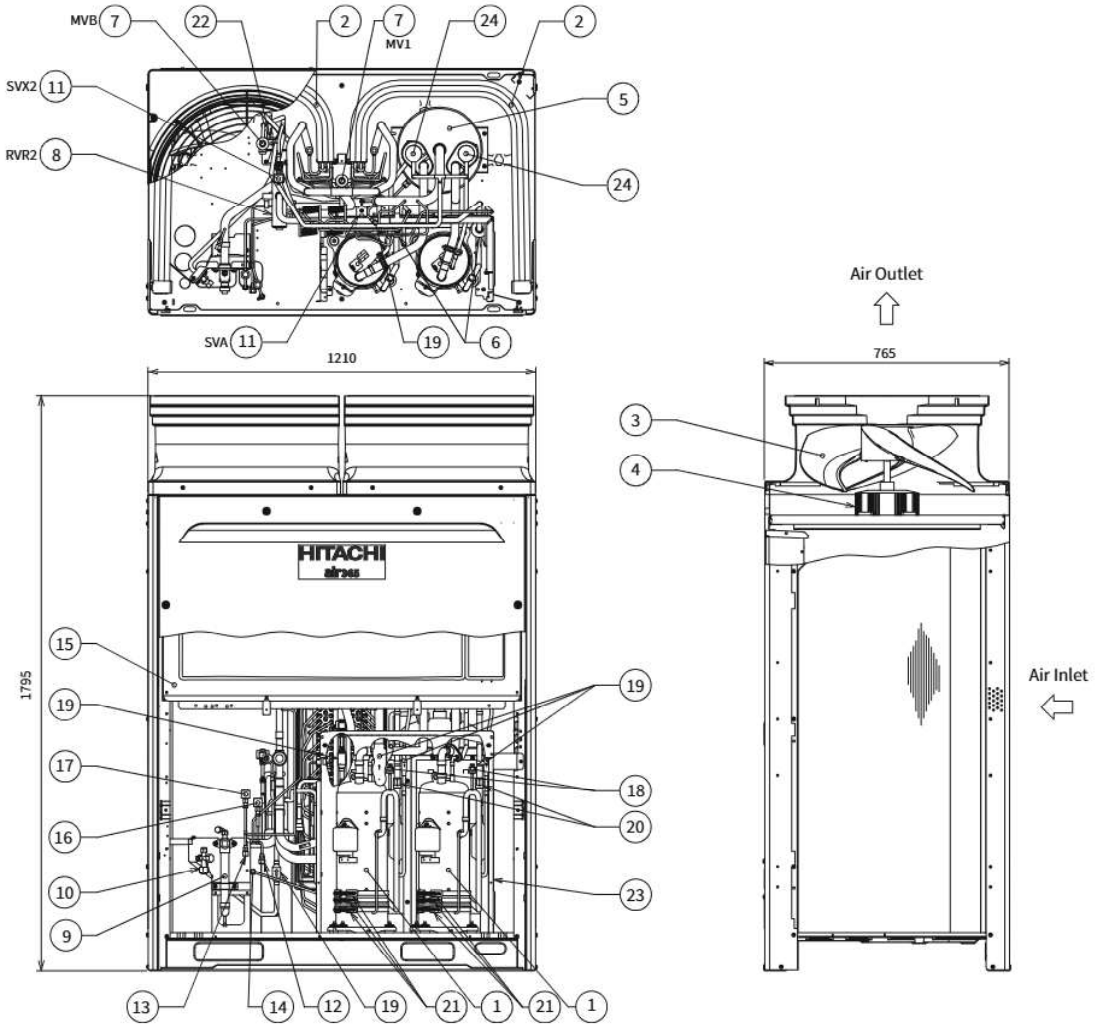
No.	Part Name
13	Check Joint (High)
14	Check Joint (for Oil)
15	Electrical Box
16	Low Pressure Sensor
17	High Pressure Sensor
18	High Pressure Switch for Protection
19	Strainer(5 pcs.)
20	Check Valve
21	Crankcase Heater(3 pcs.)
22	Plate Type Heat Exchanger
23	Compressor Cover
24	Silencer

NOTE:

- The diagram shows the case of Model RAS-140HNCCLW(SEA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

Region	Model
SEA	RAS-140HNCBLW and RAS-160HNCBLW

Unit: mm



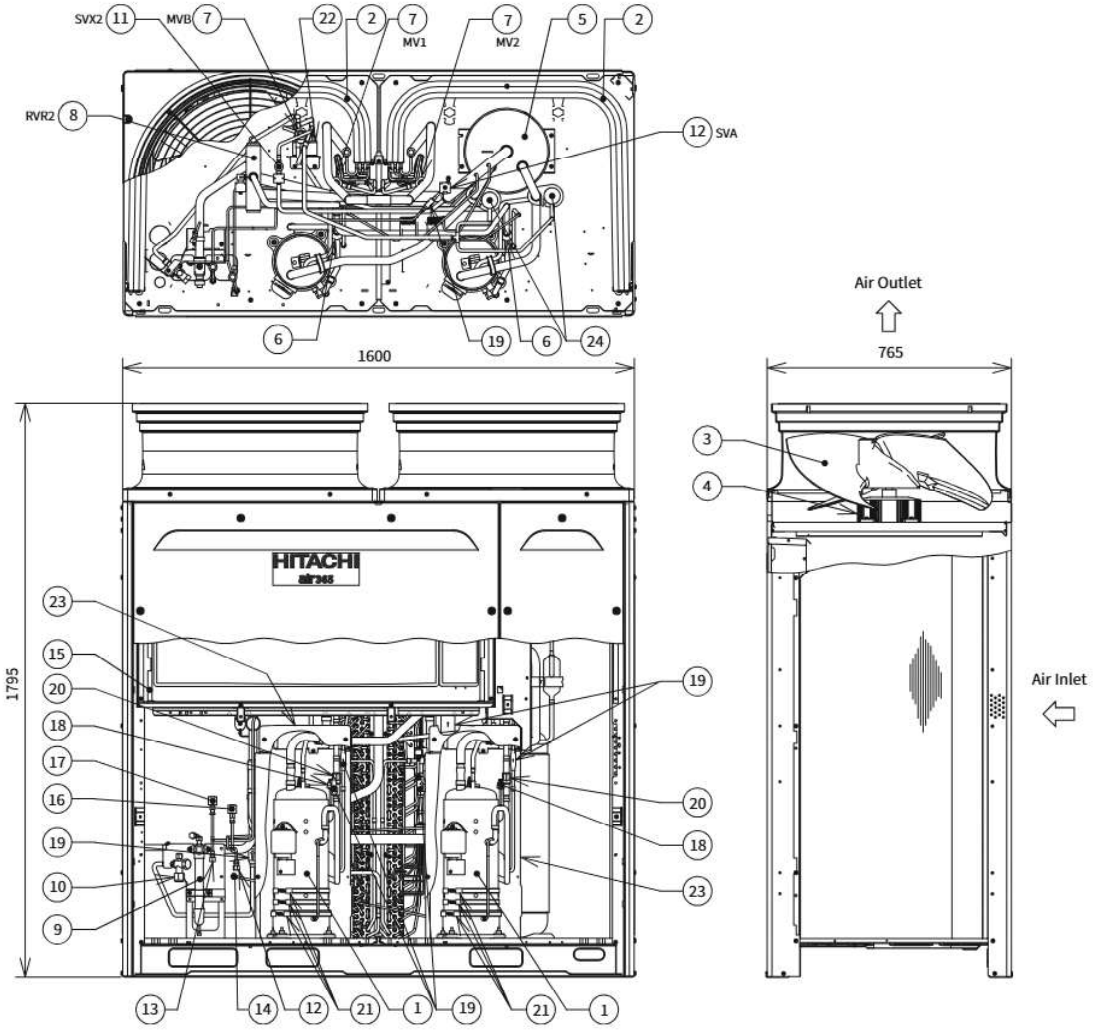
No.	Part Name
1	Compressor(2 pcs.) (Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve
9	Stop Valve (Gas)
10	Stop Valve (Liquid)
11	Solenoid Valve(2 pcs.)
12	Check Joint (Low)

No.	Part Name
13	Check Joint (High)
14	Check Joint (for Oil)
15	Electrical Box
16	Low Pressure Sensor
17	High Pressure Sensor
18	High Pressure Switch for Protection(2 pcs.)
19	Strainer(6 pcs.)
20	Check Valve(2 pcs.)
21	Crankcase Heater(6 pcs.)
22	Plate Type Heat Exchanger
23	Compressor Cover
24	Silencer(2 pcs.)

5. Structure

Region	Model
SEA	RAS-200HNCCLW, RAS-220HNCCLW, RAS-240HNCCLW, RAS-260HNCCLW and RAS-280HNCCLW
SEA	RAS-180HNCBLW, RAS-200HNCBLW and RAS-220HNCBLW

Unit: mm



No.	Part Name
1	Compressor(2 pcs.)(Inverter)
2	Heat Exchanger
3	Propeller Fan(2 pcs.)
4	Fan Motor(2 pcs.)
5	Accumulator (Pressure Vessel)
6	Oil Separator (Not Pressure Vessel)
7	Micro-Computer Control Expansion Valve (2 pcs.)
8	Reversing Valve
9	Stop Valve (Gas)
10	Stop Valve (Liquid)
11	Solenoid Valve(2 pcs.)
12	Check Joint (Low)

No.	Part Name
13	Check Joint (High)
14	Check Joint (for Oil)
15	Electrical Box
16	Low Pressure Sensor
17	High Pressure Sensor
18	High Pressure Switch for Protection (2 pcs.)
19	Strainer (7 pcs.)
20	Check Valve (2 pcs.)
21	Crankcase Heater (6 pcs.)
22	Plate Type Heat Exchanger
23	Compressor Cover
24	Silencer (2 pcs.)

NOTE:

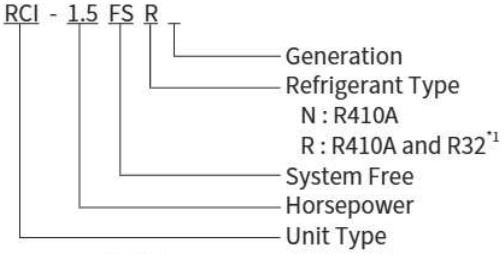
- The diagram shows the case of Model RAS-200HNCCLW(SEA)(The shape of the cycle piping may be different depending on sales region or horsepower.).

6. Selection Data

6.1 Selection Guide

1. Meaning of Model Name Indoor Unit

Example: RCI - 1.5 FS R



Unit Type	
In-the-Ceiling Type	RPI
4-Way Cassette Type	RCI
4-Way Cassette Compact Type	RCIM
2-Way Cassette Type	RCD
1-Way Cassette Type	RCS
Wall Type	RPK
Floor Type	RPF
Floor Concealed Type	RPFI
Ceiling Type	RPC

*1. This outdoor unit uses R410A only. Be sure to use R410A refrigerant for the outdoor unit.

NOTE:

- Select the indoor units and outdoor unit so that the total indoor unit horsepower is near to the outdoor unit horsepower.

2. Nominal Capacity of Indoor Units

Horsepower (HP) / Capacity		0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0	4.0	5.0	6.0	8.0	10.0
Cooling Capacity	kW	1.1	1.6	2.2	2.8	4.0	5.6	7.1	8.0	11.2	14.0	16.0	22.4	28.0
	kcal/h	900	1,400	1,900	2,400	3,400	4,800	6,100	6,900	9,600	12,000	13,800	19,300	24,100
	Btu/h	3,700	5,500	7,500	9,600	13,600	19,100	24,200	27,300	38,200	47,800	54,600	76,400	95,500
Heating Capacity	kW	1.3	1.9	2.5	3.2	4.8	6.3	8.5	9.0	12.5	16.0	18.0	25.0	31.5
	kcal/h	1,100	1,600	2,200	2,800	4,100	5,400	7,300	7,700	10,800	13,800	15,500	21,500	27,100
	Btu/h	4,400	6,500	8,500	10,900	16,400	21,500	29,000	30,700	42,600	54,600	61,400	85,300	107,500

3. Nominal Capacity of Outdoor Unit

(Standard) SEA,NEU,MEA and LA

Horsepower (HP)		8	10	12	14	16
Model		RAS-080HNCCLW RAS-080RNCCLW RAS-080RNCCRW	RAS-100HNCCLW RAS-100RNCCLW RAS-100RNCCRW	RAS-120HNCCLW RAS-120RNCCLW RAS-120RNCCRW	RAS-140HNCCLW RAS-140RNCCLW RAS-140RNCCRW	RAS-160HNCCLW RAS-160RNCCLW RAS-160RNCCRW
Cooling Capacity	kW	22.4	28.0	33.5	40.0	45.0
	kcal/h	19,200	24,000	28,800	34,300	38,600
	Btu/h	76,400	95,500	114,300	136,500	153,500
Heating Capacity	kW	25.0	31.5	37.5	45.0	50.0
	kcal/h	21,400	27,000	32,200	38,600	42,900
	Btu/h	85,300	107,500	127,900	153,500	170,600

Horsepower (HP)		18	20	22	24	26
Model		RAS-180HNCCLW RAS-180RNCCLW RAS-180RNCCRW	RAS-200HNCCLW RAS-200RNCCLW RAS-200RNCCRW	RAS-220HNCCLW RAS-220RNCCLW RAS-220RNCCRW	RAS-240HNCCLW RAS-240RNCCLW RAS-240RNCCRW	RAS-260HNCCLW RAS-260RNCCLW RAS-260RNCCRW
Cooling Capacity	kW	50.4	56.0	61.5	67.0	73.0
	kcal/h	43,300	48,100	52,800	57,600	62,700
	Btu/h	172,000	191,100	209,900	228,600	249,100
Heating Capacity	kW	56.0	63.0	69.0	77.5	81.5
	kcal/h	48,100	54,100	59,300	66,600	70,000
	Btu/h	191,100	215,000	235,500	264,500	278,100

Horsepower (HP)		28	30	32	34	36
Model		RAS-280HNCCLW RAS-280RNCCLW RAS-280RNCCRW	RAS-300HNCCLW RAS-300RNCCLW RAS-300RNCCRW	RAS-320HNCCLW RAS-320RNCCLW RAS-320RNCCRW	RAS-340HNCCLW RAS-340RNCCLW RAS-340RNCCRW	RAS-360HNCCLW RAS-360RNCCLW RAS-360RNCCRW
Cooling Capacity	kW	77.5	83.9	90.4	95.4	100.8
	kcal/h	66,600	72,100	77,700	82,000	86,600
	Btu/h	264,500	286,300	308,500	325,600	344,000
Heating Capacity	kW	86.0	93.5	101.0	106.0	112.0
	kcal/h	73,900	80,400	86,800	91,100	96,300
	Btu/h	293,500	319,100	344,700	361,800	382,200

Horsepower (HP)		38	40	42	44	46
Model		RAS-380HNCCLW RAS-380RNCCLW RAS-380RNCCRW	RAS-400HNCCLW RAS-400RNCCLW RAS-400RNCCRW	RAS-420HNCCLW RAS-420RNCCLW RAS-420RNCCRW	RAS-440HNCCLW RAS-440RNCCLW RAS-440RNCCRW	RAS-460HNCCLW RAS-460RNCCLW RAS-460RNCCRW
Cooling Capacity	kW	106.5	111.9	117.4	123.0	128.5
	kcal/h	91,500	96,200	100,900	105,700	110,500
	Btu/h	363,500	381,900	400,700	419,800	438,600
Heating Capacity	kW	119.0	125.0	133.5	138.0	146.5
	kcal/h	102,300	107,400	114,800	118,600	125,900
	Btu/h	406,100	426,600	455,600	471,000	500,000

Horsepower (HP)		48	50	52	54	56
Model		RAS-480HNCCLW RAS-480RNCCLW RAS-480RNCCRW	RAS-500HNCCLW RAS-500RNCCLW RAS-500RNCCRW	RAS-520HNCCLW RAS-520RNCCLW RAS-520RNCCRW	RAS-540HNCCLW RAS-540RNCCLW RAS-540RNCCRW	RAS-560HNCCLW RAS-560RNCCLW RAS-560RNCCRW
Cooling Capacity	kW	134.0	140.0	146.0	150.5	155.0
	kcal/h	115,200	120,300	125,500	129,400	133,200
	Btu/h	457,300	477,800	498,300	513,600	529,000
Heating Capacity	kW	155.0	159.0	163.0	167.5	172.0
	kcal/h	133,200	136,700	140,100	144,000	147,900
	Btu/h	529,000	542,700	556,300	571,700	587,000

Horsepower (HP)		58	60	62	64	66
Model		RAS-580HNCCLW RAS-580RNCCLW RAS-580RNCCRW	RAS-600HNCCLW RAS-600RNCCLW RAS-600RNCCRW	RAS-620HNCCLW RAS-620RNCCLW RAS-620RNCCRW	RAS-640HNCCLW RAS-640RNCCLW RAS-640RNCCRW	RAS-660HNCCLW RAS-660RNCCLW RAS-660RNCCRW
Cooling Capacity	kW	162.3	167.8	173.4	178.9	184.4
	kcal/h	139,500	144,300	149,100	153,800	158,500
	Btu/h	553,900	572,700	591,800	610,600	629,400
Heating Capacity	kW	181.0	189.5	194.0	202.5	211.0
	kcal/h	155,600	162,900	166,800	174,100	181,400
	Btu/h	617,700	646,800	662,100	691,100	720,100

Horsepower (HP)		68	70	72	74	76
Model		RAS-680HNCCLW RAS-680RNCCLW RAS-680RNCCRW	RAS-700HNCCLW RAS-700RNCCLW RAS-700RNCCRW	RAS-720HNCCLW RAS-720RNCCLW RAS-720RNCCRW	RAS-740HNCCLW RAS-740RNCCLW RAS-740RNCCRW	RAS-760HNCCLW RAS-760RNCCLW RAS-760RNCCRW
Cooling Capacity	kW	190.0	195.5	201.0	207.0	213.0
	kcal/h	163,300	168,100	172,800	178,000	183,100
	Btu/h	648,500	667,200	686,000	706,500	727,000
Heating Capacity	kW	215.5	224.0	232.5	236.5	240.5
	kcal/h	185,300	192,600	199,900	203,300	206,800
	Btu/h	735,500	764,500	793,500	807,200	820,800

Horsepower (HP)		78	80	82	84	86
Model		RAS-780HNCCLW RAS-780RNCCLW RAS-780RNCCRW	RAS-800HNCCLW RAS-800RNCCLW RAS-800RNCCRW	RAS-820HNCCLW RAS-820RNCCLW RAS-820RNCCRW	RAS-840HNCCLW RAS-840RNCCLW RAS-840RNCCRW	RAS-860HNCCLW RAS-860RNCCLW RAS-860RNCCRW
Cooling Capacity	kW	219.0	223.5	228.0	232.5	240.4
	kcal/h	188,300	192,200	196,000	199,900	206,700
	Btu/h	747,500	762,800	778,200	793,500	820,500
Heating Capacity	kW	244.5	249.0	253.5	258.0	271.5
	kcal/h	210,200	214,100	218,000	221,800	233,400
	Btu/h	834,500	849,800	865,200	880,600	926,600

Horsepower (HP)		88	90	92	94	96
Model		RAS-880HNCCLW RAS-880RNCCLW RAS-880RNCCRW	RAS-900HNCCLW RAS-900RNCCLW RAS-900RNCCRW	RAS-920HNCCLW RAS-920RNCCLW RAS-920RNCCRW	RAS-940HNCCLW RAS-940RNCCLW RAS-940RNCCRW	RAS-960HNCCLW RAS-960RNCCLW RAS-960RNCCRW
Cooling Capacity	kW	245.9	251.4	257.0	262.5	268.0
	kcal/h	211,400	216,200	221,000	225,700	230,400
	Btu/h	839,300	858,000	877,200	895,900	914,700
Heating Capacity	kW	280.0	288.5	293.0	301.5	310.0
	kcal/h	240,700	248,100	251,900	259,200	266,500
	Btu/h	955,700	984,700	1,000,000	1,029,000	1,058,100

Horsepower (HP)		98	100	102	104	106
Model		RAS-980HNCCLW RAS-980RNCCLW RAS-980RNCCRW	RAS-H00HNCCLW RAS-H00RNCCLW RAS-H00RNCCRW	RAS-H02HNCCLW RAS-H02RNCCLW RAS-H02RNCCRW	RAS-H04HNCCLW RAS-H04RNCCLW RAS-H04RNCCRW	RAS-H06HNCCLW RAS-H06RNCCLW RAS-H06RNCCRW
Cooling Capacity	kW	274.0	280.0	286.0	292.0	296.5
	kcal/h	235,600	240,700	245,900	251,100	254,900
	Btu/h	935,200	955,700	976,100	996,600	1,012,000
Heating Capacity	kW	314.0	318.0	322.0	326.0	330.5
	kcal/h	270,000	273,400	276,900	280,300	284,200
	Btu/h	1,071,700	1,085,400	1,099,000	1,112,700	1,128,000

Horsepower (HP)		108	110	112
Model		RAS-H08HNCCLW RAS-H08RNCCLW RAS-H08RNCCRW	RAS-H10HNCCLW RAS-H10RNCCLW RAS-H10RNCCRW	RAS-H12HNCCLW RAS-H12RNCCLW RAS-H12RNCCRW
Cooling Capacity	kW	301.0	305.5	310.0
	kcal/h	258,800	262,700	266,500
	Btu/h	1,027,300	1,042,700	1,058,100
Heating Capacity	kW	335.0	339.5	344.0
	kcal/h	288,000	291,900	295,800
	Btu/h	1,143,400	1,158,700	1,174,100

(Standard) IN/SA

Horsepower (HP)		8	10	12	14	16
Model		RAS-080HNCCLI	RAS-100HNCCLI	RAS-120HNCCLI	RAS-140HNCCLI	RAS-160HNCCLI
Cooling Capacity	kW	22.4	28.0	33.5	40.0	45.0
	kcal/h	19,200	24,000	28,800	34,300	38,600
	Btu/h	76,400	95,500	114,300	136,500	153,500
Cooling Capacity (at 43°C)	kW	22.4	25.6	30.0	35.0	40.4
	kcal/h	19,200	22,000	25,700	30,000	34,700
	Btu/h	76,400	87,300	102,300	119,400	137,800
Heating Capacity	kW	25.0	31.5	37.5	45.0	50.0
	kcal/h	21,400	27,000	32,200	38,600	42,900
	Btu/h	85,300	107,500	127,900	153,500	170,600

Horsepower (HP)		18	20	22	24	26
Model		RAS-180HNCCLI	RAS-200HNCCLI	RAS-220HNCCLI	RAS-240HNCCLI	RAS-260HNCCLI
Cooling Capacity	kW	50.4	56.0	61.5	67.0	73.0
	kcal/h	43,300	48,100	52,800	57,600	62,700
	Btu/h	172,000	191,100	209,900	228,600	249,100
Cooling Capacity (at 43°C)	kW	45.5	49.1	54.0	58.0	63.0
	kcal/h	39,100	42,200	46,400	49,800	54,100
	Btu/h	155,300	167,500	184,300	197,900	215,000
Heating Capacity	kW	56.0	63.0	69.0	77.5	81.5
	kcal/h	48,100	54,100	59,300	66,600	70,000
	Btu/h	191,100	215,000	235,500	264,500	278,100

Horsepower (HP)		28	30	32	34	36
Model		RAS-280HNCCLI	RAS-300HNCCLI	RAS-320HNCCLI	RAS-340HNCCLI	RAS-360HNCCLI
Cooling Capacity	kW	77.5	83.9	90.4	95.4	100.8
	kcal/h	66,600	72,100	77,700	82,000	86,600
	Btu/h	264,500	286,300	308,500	325,600	344,000
Cooling Capacity (at 43°C)	kW	67.0	75.5	80.5	85.9	91.0
	kcal/h	57,600	64,900	69,200	73,800	78,200
	Btu/h	228,600	257,700	274,700	293,100	310,600
Heating Capacity	kW	86.0	93.5	101.0	106.0	112.0
	kcal/h	73,900	80,400	86,800	91,100	96,300
	Btu/h	293,500	319,100	344,700	361,800	382,200

Horsepower (HP)		38	40	42	44	46
Model		RAS-380HNCCLI	RAS-400HNCCLI	RAS-420HNCCLI	RAS-440HNCCLI	RAS-460HNCCLI
Cooling Capacity	kW	106.5	111.9	117.4	123.0	128.5
	kcal/h	91,500	96,200	100,900	105,700	110,500
	Btu/h	363,500	381,900	400,700	419,800	438,600
Cooling Capacity (at 43°C)	kW	94.4	99.5	103.5	108.0	112.0
	kcal/h	81,100	85,500	89,000	92,800	96,300
	Btu/h	322,200	339,600	353,200	368,600	382,200
Heating Capacity	kW	119.0	125.0	133.5	138.0	146.5
	kcal/h	102,300	107,400	114,800	118,600	125,900
	Btu/h	406,100	426,600	455,600	471,000	500,000

Horsepower (HP)		48	50	52	54	56
Model		RAS-480HNCCLI	RAS-500HNCCLI	RAS-520HNCCLI	RAS-540HNCCLI	RAS-560HNCCLI
Cooling Capacity	kW	134.0	140.0	146.0	150.5	155.0
	kcal/h	115,200	120,300	125,500	129,400	133,200
	Btu/h	457,300	477,800	498,300	513,600	529,000
Cooling Capacity (at 43°C)	kW	116.0	121.0	126.0	130.0	134.0
	kcal/h	99,700	104,000	108,300	111,700	115,200
	Btu/h	395,900	413,000	430,000	443,700	457,300
Heating Capacity	kW	155.0	159.0	163.0	167.5	172.0
	kcal/h	133,200	136,700	140,100	144,000	147,900
	Btu/h	529,000	542,700	556,300	571,700	587,000

Horsepower (HP)		58	60	62	64	66
Model		RAS-580HNCCLI	RAS-600HNCCLI	RAS-620HNCCLI	RAS-640HNCCLI	RAS-660HNCCLI
Cooling Capacity	kW	162.3	167.8	173.4	178.9	184.4
	kcal/h	139,500	144,300	149,100	153,800	158,500
	Btu/h	553,900	572,700	591,800	610,600	629,400
Cooling Capacity (at 43°C)	kW	145.0	149.0	153.5	157.5	161.5
	kcal/h	124,600	128,100	132,000	135,400	138,800
	Btu/h	494,900	508,500	523,900	537,500	551,200
Heating Capacity	kW	181.0	189.5	194.0	202.5	211.0
	kcal/h	155,600	162,900	166,800	174,100	181,400
	Btu/h	617,700	646,800	662,100	691,100	720,100

Horsepower (HP)		68	70	72	74	76
Model		RAS-680HNCCLI	RAS-700HNCCLI	RAS-720HNCCLI	RAS-740HNCCLI	RAS-760HNCCLI
Cooling Capacity	kW	190.0	195.5	201.0	207.0	213.0
	kcal/h	163,300	168,100	172,800	178,000	183,100
	Btu/h	648,500	667,200	686,000	706,500	727,000
Cooling Capacity (at 43°C)	kW	166.0	170.0	174.0	179.0	184.0
	kcal/h	142,700	146,100	149,600	153,900	158,200
	Btu/h	566,500	580,200	593,900	610,900	628,000
Heating Capacity	kW	215.5	224.0	232.5	236.5	240.5
	kcal/h	185,300	192,600	199,900	203,300	206,800
	Btu/h	735,500	764,500	793,500	807,200	820,800

Horsepower (HP)		78	80	82	84	86
Model		RAS-780HNCCLI	RAS-800HNCCLI	RAS-820HNCCLI	RAS-840HNCCLI	RAS-860HNCCLI
Cooling Capacity	kW	219.0	223.5	228.0	232.5	240.4
	kcal/h	188,300	192,200	196,000	199,900	206,700
	Btu/h	747,500	762,800	778,200	793,500	820,500
Cooling Capacity (at 43°C)	kW	189.0	193.0	197.0	201.0	211.5
	kcal/h	162,500	165,900	169,400	172,800	181,800
	Btu/h	645,100	658,700	672,400	686,000	721,900
Heating Capacity	kW	244.5	249.0	253.5	258.0	271.5
	kcal/h	210,200	214,100	218,000	221,800	233,400
	Btu/h	834,500	849,800	865,200	880,600	926,600

Horsepower (HP)		88	90	92	94	96
Model		RAS-880HNCCLI	RAS-900HNCCLI	RAS-920HNCCLI	RAS-940HNCCLI	RAS-960HNCCLI
Cooling Capacity	kW	245.9	251.4	257.0	262.5	268.0
	kcal/h	211,400	216,200	221,000	225,700	230,400
	Btu/h	839,300	858,000	877,200	895,900	914,700
Cooling Capacity (at 43°C)	kW	215.5	219.5	224.0	228.0	232.0
	kcal/h	185,300	188,700	192,600	196,000	199,500
	Btu/h	735,500	749,200	764,500	778,200	791,800
Heating Capacity	kW	280.0	288.5	293.0	301.5	310.0
	kcal/h	240,700	248,100	251,900	259,200	266,500
	Btu/h	955,700	984,700	1,000,000	1,029,000	1,058,100

Horsepower (HP)		98	100	102	104	106
Model		RAS-980HNCCLI	RAS-H00HNCCLI	RAS-H02HNCCLI	RAS-H04HNCCLI	RAS-H06HNCCLI
Cooling Capacity	kW	274.0	280.0	286.0	292.0	296.5
	kcal/h	235,600	240,700	245,900	251,100	254,900
	Btu/h	935,200	955,700	976,100	996,600	1,012,000
Cooling Capacity (at 43°C)	kW	237.0	242.0	247.0	252.0	256.0
	kcal/h	203,800	208,100	212,400	216,700	220,100
	Btu/h	808,900	826,000	843,000	860,100	873,700
Heating Capacity	kW	314.0	318.0	322.0	326.0	330.5
	kcal/h	270,000	273,400	276,900	280,300	284,200
	Btu/h	1,071,700	1,085,400	1,099,000	1,112,700	1,128,000

Horsepower (HP)		108	110	112
Model		RAS-H08HNCCLI	RAS-H10HNCCLI	RAS-H12HNCCLI
Cooling Capacity	kW	301.0	305.5	310.0
	kcal/h	258,800	262,700	266,500
	Btu/h	1,027,300	1,042,700	1,058,100
Cooling Capacity (at 43°C)	kW	260.0	264.0	268.0
	kcal/h	223,500	227,000	230,400
	Btu/h	887,400	901,000	914,700
Heating Capacity	kW	335.0	339.5	344.0
	kcal/h	288,000	291,900	295,800
	Btu/h	1,143,400	1,158,700	1,174,100

(Standard) ANZ

Horsepower (HP)		8	10	12	14	16
Model		RAS-080RNCCLW	RAS-100RNCCLW	RAS-120RNCCLW	RAS-140RNCCLW	RAS-160RNCCLW
Cooling Capacity	kW	22.4	28.0	33.5	40.0	45.0
	kcal/h	19,200	24,000	28,800	34,300	38,600
	Btu/h	76,400	95,500	114,300	136,500	153,500
Heating Capacity	kW	25.0	31.5	37.5	45.0	50.0
	kcal/h	21,400	27,000	32,200	38,600	42,900
	Btu/h	85,300	107,500	127,900	153,500	170,600

Horsepower (HP)		18	20	22	24	26
Model		RAS-180RNCCLW	RAS-200RNCCLW	RAS-220RNCCLW	RAS-240RNCCLW	RAS-260RNCCLW
Cooling Capacity	kW	50.4	56.0	61.5	67.0	73.5
	kcal/h	43,300	48,100	52,800	57,600	63,200
	Btu/h	172,000	191,100	209,900	228,600	250,800
Heating Capacity	kW	56.0	63.0	69.0	77.5	82.5
	kcal/h	48,100	54,100	59,300	66,600	70,900
	Btu/h	191,100	215,000	235,500	264,500	281,500

Horsepower (HP)		28	30	32	34	36
Model		RAS-280RNCCLW	RAS-300RNCCLW	RAS-320RNCCLW	RAS-340RNCCLW	RAS-360RNCCLW
Cooling Capacity	kW	78.5	83.9	90.4	95.4	100.8
	kcal/h	67,500	72,100	77,700	82,000	86,600
	Btu/h	267,900	286,300	308,500	325,600	344,000
Heating Capacity	kW	87.5	93.5	101.0	106.0	112.0
	kcal/h	75,200	80,400	86,800	91,100	96,300
	Btu/h	298,600	319,100	344,700	361,800	382,200

Horsepower (HP)		38	40	42	44	46
Model		RAS-380RNCCLW	RAS-400RNCCLW	RAS-420RNCCLW	RAS-440RNCCLW	RAS-460RNCCLW
Cooling Capacity	kW	106.5	111.9	117.4	123.0	128.5
	kcal/h	91,500	96,200	100,900	105,700	110,500
	Btu/h	363,500	381,900	400,700	419,800	438,600
Heating Capacity	kW	119.0	125.0	133.5	138.0	146.5
	kcal/h	102,300	107,400	114,800	118,600	125,900
	Btu/h	406,100	426,600	455,600	471,000	500,000

Horsepower (HP)		48	50	52	54	56
Model		RAS-480RNCCLW	RAS-500RNCCLW	RAS-520RNCCLW	RAS-540RNCCLW	RAS-560RNCCLW
Cooling Capacity	kW	134.0	140.8	145.8	151.2	156.9
	kcal/h	115,200	121,000	125,300	130,000	134,900
	Btu/h	457,300	480,500	497,600	516,000	535,500
Heating Capacity	kW	155.0	157.0	162.0	168.0	175.0
	kcal/h	133,200	135,000	139,300	144,400	150,400
	Btu/h	529,000	535,800	552,900	573,400	597,300

Horsepower (HP)		58	60	62	64
Model		RAS-580RNCCLW	RAS-600RNCCLW	RAS-620RNCCLW	RAS-640RNCCLW
Cooling Capacity	kW	162.3	167.8	173.4	178.9
	kcal/h	139,500	144,300	149,100	153,800
	Btu/h	553,900	572,700	591,800	610,600
Heating Capacity	kW	181.0	189.5	194.0	202.5
	kcal/h	155,600	162,900	166,800	174,100
	Btu/h	617,700	646,800	662,100	691,100

(High Effiiency) SEA

Horsepower (HP)		8	10	12	14	16
Model		RAS-080HNCBLW	RAS-100HNCBLW	RAS-120HNCBLW	RAS-140HNCBLW	RAS-160HNCBLW
Cooling Capacity	kW	22.4	28.0	33.5	40.0	45.0
	kcal/h	19,200	24,000	28,800	34,300	38,600
	Btu/h	76,400	95,500	114,300	136,500	153,500
Heating Capacity	kW	25.0	31.5	37.5	45.0	50.0
	kcal/h	21,400	27,000	32,200	38,600	42,900
	Btu/h	85,300	107,500	127,900	153,500	170,600

Horsepower (HP)		18	20	22	24	26
Model		RAS-180HNCBLW	RAS-200HNCBLW	RAS-220HNCBLW	RAS-240HNCBLW	RAS-260HNCBLW
Cooling Capacity	kW	50.4	56.0	61.5	67.0	73.5
	kcal/h	43,300	48,100	52,800	57,600	63,200
	Btu/h	172,000	191,100	209,900	228,600	250,800
Heating Capacity	kW	56.0	63.0	69.0	75.0	82.5
	kcal/h	48,100	54,100	59,300	64,400	70,900
	Btu/h	191,100	215,000	235,500	255,900	281,500

Horsepower (HP)		28	30	32	34	36
Model		RAS-280HNCBLW	RAS-300HNCBLW	RAS-320HNCBLW	RAS-340HNCBLW	RAS-360HNCBLW
Cooling Capacity	kW	80.0	85.0	90.0	95.4	100.8
	kcal/h	68,700	73,000	77,300	82,000	86,600
	Btu/h	273,000	290,100	307,100	325,600	344,000
Heating Capacity	kW	90.0	95.0	100.0	106.0	112.0
	kcal/h	77,300	81,600	85,900	91,100	96,300
	Btu/h	307,100	324,200	341,300	361,800	382,200

Horsepower (HP)		38	40	42	44	46
Model		RAS-380HNCBLW	RAS-400HNCBLW	RAS-420HNCBLW	RAS-440HNCBLW	RAS-460HNCBLW
Cooling Capacity	kW	106.4	112.0	117.5	123.0	130.0
	kcal/h	91,500	96,300	101,000	105,700	111,700
	Btu/h	363,100	382,200	401,000	419,800	443,700
Heating Capacity	kW	119.0	126.0	132.0	138.0	145.0
	kcal/h	102,300	108,300	113,500	118,600	124,600
	Btu/h	406,100	430,000	450,500	471,000	494,900

Horsepower (HP)		48	50	52	54	56
Model		RAS-480HNCBLW	RAS-500HNCBLW	RAS-520HNCBLW	RAS-540HNCBLW	RAS-560HNCBLW
Cooling Capacity	kW	135.0	140.4	145.8	151.2	156.8
	kcal/h	116,000	120,700	125,300	130,000	134,800
	Btu/h	460,700	479,200	497,600	516,000	535,100
Heating Capacity	kW	150.0	156.0	162.0	168.0	175.0
	kcal/h	128,900	134,100	139,300	144,400	150,400
	Btu/h	511,900	532,400	552,900	573,400	597,300

Horsepower (HP)		58	60	62	64	66
Model		RAS-580HNCBLW	RAS-600HNCBLW	RAS-620HNCBLW	RAS-640HNCBLW	RAS-660HNCBLW
Cooling Capacity	kW	162.4	168.0	173.5	179.0	184.5
	kcal/h	139,600	144,400	149,200	153,900	158,600
	Btu/h	554,300	573,400	592,100	610,900	629,700
Heating Capacity	kW	182.0	189.0	195.0	201.0	207.0
	kcal/h	156,500	162,500	167,600	172,800	178,000
	Btu/h	621,200	645,100	665,500	686,000	706,500

Horsepower (HP)		68	70	72	74	76
Model		RAS-680HNCBLW	RAS-700HNCBLW	RAS-720HNCBLW	RAS-740HNCBLW	RAS-760HNCBLW
Cooling Capacity	kW	191.2	196.2	201.6	207.2	212.8
	kcal/h	164,400	168,700	173,300	178,100	183,000
	Btu/h	652,600	669,600	688,100	707,200	726,300
Heating Capacity	kW	213.0	218.0	224.0	231.0	238.0
	kcal/h	183,100	187,400	192,600	198,600	204,600
	Btu/h	727,000	744,000	764,500	788,400	812,300

Horsepower (HP)		78	80	82	84	86	88
Model		RAS-780HNCBLW	RAS-800HNCBLW	RAS-820HNCBLW	RAS-840HNCBLW	RAS-860HNCBLW	RAS-880HNCBLW
Cooling Capacity	kW	218.4	224.0	229.5	235.0	240.5	246.0
	kcal/h	187,800	192,600	197,300	202,000	206,800	211,500
	Btu/h	745,400	764,500	783,300	802,100	820,800	839,600
Heating Capacity	kW	245.0	252.0	258.0	264.0	270.0	276.0
	kcal/h	210,600	216,700	221,800	227,000	232,100	237,300
	Btu/h	836,200	860,100	880,600	901,000	921,500	942,000

(High Effiiency) ANZ

Horsepower (HP)		8	10	12	14	16
Model		RAS-080RNCBLW	RAS-100RNCBLW	RAS-120RNCBLW	RAS-140RNCBLW	RAS-160RNCBLW
Cooling Capacity	kW	22.4	28.0	33.5	40.0	45.0
	kcal/h	19,200	24,000	28,800	34,300	38,600
	Btu/h	76,400	95,500	114,300	136,500	153,500
Heating Capacity	kW	25.0	31.5	37.5	45.0	47.5
	kcal/h	21,400	27,000	32,200	38,600	40,800
	Btu/h	85,300	107,500	127,900	153,500	162,100

Horsepower (HP)		18	20	22	24	26
Model		RAS-180RNCBLW	RAS-200RNCBLW	RAS-220RNCBLW	RAS-240RNCBLW	RAS-260RNCBLW
Cooling Capacity	kW	50.4	56.0	61.5	67.0	73.5
	kcal/h	43,300	48,100	52,800	57,600	63,200
	Btu/h	172,000	191,100	209,900	228,600	250,800
Heating Capacity	kW	56.0	63.0	69.0	77.5	82.5
	kcal/h	48,100	54,100	59,300	66,600	70,900
	Btu/h	191,100	215,000	235,500	264,500	281,500

Horsepower (HP)		28	30	32	34	36
Model		RAS-280RNCBLW	RAS-300RNCBLW	RAS-320RNCBLW	RAS-340RNCBLW	RAS-360RNCBLW
Cooling Capacity	kW	80.0	85.0	90.0	95.4	100.8
	kcal/h	68,700	73,000	77,300	82,000	86,600
	Btu/h	273,000	290,100	307,100	325,600	344,000
Heating Capacity	kW	90.0	92.5	95.0	103.5	112.0
	kcal/h	77,300	79,500	81,600	89,000	96,300
	Btu/h	307,100	315,700	324,200	353,200	382,200

Horsepower (HP)		38	40	42	44	46	48
Model		RAS-380RNCBLW	RAS-400RNCBLW	RAS-420RNCBLW	RAS-440RNCBLW	RAS-460RNCBLW	RAS-480RNCBLW
Cooling Capacity	kW	106.4	112.0	120.0	125.0	130.0	135.0
	kcal/h	91,500	96,300	103,100	107,400	111,700	116,000
	Btu/h	363,100	382,200	409,500	426,600	443,700	460,700
Heating Capacity	kW	119.0	126.0	135.0	137.5	140.0	142.5
	kcal/h	102,300	108,300	116,000	118,200	120,300	122,500
	Btu/h	406,100	430,000	460,700	469,300	477,800	486,300

(High Ambient) MEA

Horsepower (HP)		8	10	12	14	16
Model		RAS-080JNCBLI	RAS-100JNCBLI	RAS-120JNCBLI	RAS-140JNCBLI	RAS-160JNCBLI
Cooling Capacity	kW	22.4	28.0	33.5	40.0	45.0
	kcal/h	19,200	24,000	28,800	34,300	38,600
	Btu/h	76,000	96,000	114,000	136,000	152,000
Cooling Capacity (at 46°C)	kW	22.4	25.6	30.0	35.0	40.4
	kcal/h	19,200	22,000	25,700	30,000	34,700
	Btu/h	76,000	87,000	102,000	119,000	136,000
Heating Capacity	kW	25.0	31.5	37.5	45.0	47.5
	kcal/h	21,400	27,000	32,200	38,600	40,800
	Btu/h	85,300	107,500	127,900	153,500	162,100

Horsepower (HP)		18	20	22	24	26
Model		RAS-180JNCBLI	RAS-200JNCBLI	RAS-220JNCBLI	RAS-240JNCBLI	RAS-260JNCBLI
Cooling Capacity	kW	50.4	56.0	61.5	67.0	73.5
	kcal/h	43,300	48,100	52,800	57,600	63,200
	Btu/h	170,000	192,000	210,000	228,000	250,000
Cooling Capacity (at 46°C)	kW	45.5	49.1	54.0	60.0	65.0
	kcal/h	39,100	42,200	46,400	51,500	55,800
	Btu/h	154,000	166,000	184,000	204,000	220,000
Heating Capacity	kW	56.0	63.0	69.0	75.0	82.5
	kcal/h	48,100	54,100	59,300	64,400	70,900
	Btu/h	191,100	215,000	235,500	255,900	281,500

Horsepower (HP)		28	30	32	34	36
Model		RAS-280JNCBLI	RAS-300JNCBLI	RAS-320JNCBLI	RAS-340JNCBLI	RAS-360JNCBLI
Cooling Capacity	kW	80.0	85.0	90.0	95.4	100.8
	kcal/h	68,700	73,000	77,300	82,000	86,600
	Btu/h	272,000	288,000	304,000	322,000	340,000
Cooling Capacity (at 46°C)	kW	70.0	75.4	80.8	85.9	91.0
	kcal/h	60,100	64,800	69,400	73,800	78,200
	Btu/h	238,000	254,000	272,000	290,000	308,000
Heating Capacity	kW	90.0	92.5	95.0	103.5	112.0
	kcal/h	77,300	79,500	81,600	89,000	96,300
	Btu/h	307,100	315,700	324,200	353,200	382,200

Horsepower (HP)		38	40	42	44	46
Model		RAS-380JNCBLI	RAS-400JNCBLI	RAS-420JNCBLI	RAS-440JNCBLI	RAS-460JNCBLI
Cooling Capacity	kW	106.4	112.0	117.5	123.0	130.0
	kcal/h	91,500	96,300	101,000	105,700	111,700
	Btu/h	362,000	384,000	402,000	420,000	440,000
Cooling Capacity (at 46°C)	kW	94.6	98.2	103.1	108.0	115.8
	kcal/h	81,300	84,400	88,600	92,800	99,500
	Btu/h	320,000	332,000	350,000	368,000	390,000
Heating Capacity	kW	119.0	126.0	132.0	138.0	140.0
	kcal/h	102,300	108,300	113,500	118,600	120,300
	Btu/h	406,100	430,000	450,500	471,000	477,800

Horsepower (HP)		48	50	52	54	56
Model		RAS-480JNCBLI	RAS-500JNCBLI	RAS-520JNCBLI	RAS-540JNCBLI	RAS-560JNCBLI
Cooling Capacity	kW	135.0	140.4	145.8	151.2	156.8
	kcal/h	116,000	120,700	125,300	130,000	134,800
	Btu/h	456,000	474,000	492,000	510,000	532,000
Cooling Capacity (at 46°C)	kW	121.2	126.3	131.4	136.5	140.1
	kcal/h	104,200	108,600	113,000	117,300	120,400
	Btu/h	408,000	426,000	444,000	462,000	474,000
Heating Capacity	kW	142.5	151.0	159.5	168.0	175.0
	kcal/h	122,500	129,800	137,100	144,400	150,400
	Btu/h	486,300	515,400	544,400	573,400	597,300

Horsepower (HP)		58	60	62	64	66
Model		RAS-580JNCBLI	RAS-600JNCBLI	RAS-620JNCBLI	RAS-640JNCBLI	RAS-660JNCBLI
Cooling Capacity	kW	162.4	168.0	173.5	179.0	184.5
	kcal/h	139,600	144,400	149,200	153,900	158,600
	Btu/h	554,000	576,000	594,000	612,000	630,000
Cooling Capacity (at 46°C)	kW	143.7	147.3	152.2	157.1	162.0
	kcal/h	123,500	126,600	130,800	135,100	139,300
	Btu/h	486,000	498,000	516,000	534,000	552,000
Heating Capacity	kW	182.0	189.0	195.0	201.0	207.0
	kcal/h	156,500	162,500	167,600	172,800	178,000
	Btu/h	621,200	645,100	665,500	686,000	706,500

Horsepower (HP)		68	70	72	74	76
Model		RAS-680JNCBLI	RAS-700JNCBLI	RAS-720JNCBLI	RAS-740JNCBLI	RAS-760JNCBLI
Cooling Capacity	kW	191.2	196.2	201.6	207.2	212.8
	kcal/h	164,400	168,700	173,300	178,100	183,000
	Btu/h	646,000	662,000	680,000	702,000	724,000
Cooling Capacity (at 46°C)	kW	171.5	176.9	182.0	185.6	189.2
	kcal/h	147,400	152,100	156,500	159,600	162,700
	Btu/h	580,000	598,000	616,000	628,000	640,000
Heating Capacity	kW	213.0	215.5	224.0	231.0	238.0
	kcal/h	183,100	185,300	192,600	198,600	204,600
	Btu/h	727,000	735,500	764,500	788,400	812,300

Horsepower (HP)		78	80	82	84	86	88
Model		RAS-780JNCBLI	RAS-800JNCBLI	RAS-820JNCBLI	RAS-840JNCBLI	RAS-860JNCBLI	RAS-880JNCBLI
Cooling Capacity	kW	218.4	224.0	229.5	235.0	240.5	246.0
	kcal/h	187,800	192,600	197,300	202,000	206,800	211,500
	Btu/h	746,000	768,000	786,000	804,000	822,000	840,000
Cooling Capacity (at 46°C)	kW	192.8	196.4	201.3	206.2	211.1	216.0
	kcal/h	165,800	168,900	173,100	177,300	181,500	185,700
	Btu/h	652,000	664,000	682,000	700,000	718,000	736,000
Heating Capacity	kW	245.0	252.0	258.0	264.0	270.0	276.0
	kcal/h	210,600	216,700	221,800	227,000	232,100	237,300
	Btu/h	836,200	860,100	880,600	901,000	921,500	942,000

4. Outdoor Unit Capacity at Nominal Temperature
   If the total indoor unit horsepower is not the same as the outdoor unit horsepower, refer to item 6.2 “Capacity Characteristic Curve”.

5. Given Condition (Example)
   Total Load for Each Room

Item		Room (1)	Room (2)	Room (3)	Room (4)
Estimated Cooling Load	kW	4.24	5.35	5.35	6.36
	kcal/h	3,650	4,600	4,600	5,472
Estimated Heating Load	kW	4.77	6.00	6.00	7.16
	kcal/h	4,100	5,160	5,160	6,160

Item		Room (5)	Room (6)	Room (7)
Estimated Cooling Load	kW	8.48	10.6	10.6
	kcal/h	7,295	9,119	9,119
Estimated Heating Load	kW	9.54	11.9	11.9
	kcal/h	8,207	10,238	10,238

Temperature Condition

Cooling		Heating	
Outdoor Coil Air Inlet		Outdoor Coil Air Inlet	
Dry Bulb:	30 °C	Dry Bulb:	6 °C
Indoor Coil Air Inlet		Wet Bulb:	5 °C
Dry Bulb:	27 °C	Indoor Coil Air Inlet	
Wet Bulb:	19 °C	Dry Bulb:	20 °C

< Heat Pump System (2 Pipes) >
Equivalent Piping Length between Indoor Units and Outdoor Unit: 35 m
Piping Lift: 20 m
(Gas Piping Size: Normal, Refer to item 6.4 “Correction Factor According to Piping Length”)
Correction Factor of Cooling Capacity = 0.94
Correction Factor of Heating Capacity = 0.98
Power Source: 50 Hz

6. Selecting Matching Indoor Units and Nominal Capacity
Select In-the-Ceiling Type Indoor Units (Example)

Item		Room (1)	Room (2)	Room (3)	Room (4)	Room (5)
Selected Model		RCI-2.0FSR	RCI-2.5FSR	RCI-2.5FSR	RCI-3.0FSR	RCI-4.0FSR
Nominal Cooling Capacity	kW	5.6	7.1	7.1	8.0	11.2
	kcal/h	4,800	6,100	6,100	6,900	9,600
Nominal Heating Capacity	kW	6.3	8.5	8.5	9.0	12.5
	kcal/h	5,400	7,300	7,300	7,700	10,700

Item		Room (6)	Room (7)	(1)+(2)+(3)+(4) +(5)+(6)+(7)	Outdoor Unit
Selected Model		RCI-5.0FSR	RCI-5.0FSR	-	RAS-220HNCCLW
Nominal Cooling Capacity	kW	14.0	14.0	67.0	61.5
	kcal/h	12,000	12,000	57,500	52,800
Nominal Heating Capacity	kW	16.0	16.0	76.8	69.0
	kcal/h	13,800	13,800	66,000	59,300

Actual Capacity
The outdoor unit capacity under certain condition is shown in "Appendix: Outdoor Unit Capacity According to Temperature Condition and Connected IDU Capacity".
In the case of temperature condition example, RAS-220HNCCLW outdoor unit capacity with 100 % indoor unit connection is 65.46 kW at cooling operation, 68.04 kW at heating operation.

a. Actual Capacity of Outdoor Unit
Maximum Actual Capacity of Outdoor Unit
= Outdoor Unit Capacity at certain temperature with 100 % indoor unit
× Correction Factor According to Total Indoor Unit Capacity *1
× Correction Factor According to Piping Length and Lift *2
× Correction Factor According to Temperature Condition *3
× Correction Factor According to Defrosting Operation *4
× Correction Factor According to Altitude *5

*1. Refer to the table in item 6.2 for Correction Factor according to the total indoor unit capacity.
*2. Refer to the table in item 6.4 "Correction Factor According to Piping Length".
*3. Refer to the table in item 6.3 for Correction Factor according to the temperature condition.
*4. Refer to the table in item 6.5 "Correction Factor According to Defrosting Operation".
*5. Refer to the table in item 6.6 "Correction Factor According to Altitude".

In this case, the correction factors are shown in the below table.

Correction Factor	Cooling	Heating
Total Indoor Unit Capacity	1.01	1.01
Piping Length and Lift	0.95	0.98
Temperature Condition	1.00	0.94
Altitude	1.00	1.00

7. Actual Capacity of Outdoor Unit is
Cooling: [65.46 kW] x 1.01 x 0.94 x 1.00 x 1.00 = 62.1 kW (53,400 kcal/h)
Heating: [68.04 kW] x 1.01 x 0.98 x 0.94 x 1.00 = 63.3 kW (54,400 kcal/h)
NOTE:
- unit conversion: (kcal/h) = (kW)/4.18605 x 3600

8. Actual Capacity of Each Indoor Unit
   Actual Capacity of Each Indoor Unit
   Actual Capacity of Outdoor Unit
   x [Each Indoor Unit's Horsepower ÷ Summation of Each Indoor Unit Horsepower]

   e.g.
   RCI-2.0FSR
   Cooling Capacity: 62.1 x (2.0[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP] + 4.0[HP] + 5.0[HP] x 2)) = 5.18 kW (4,500 kcal/h)
   Heating Capacity: 63.3 x (2.0[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP] + 4.0[HP] + 5.0[HP] x 2)) = 5.28 kW (4,533 kcal/h)

   RCI-2.5FSR
   Cooling Capacity: 62.1 x (2.5[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP] + 4.0[HP] + 5.0[HP] x 2)) = 6.47 kW (5,625 kcal/h)
   Heating Capacity: 63.3 x (2.5[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP] + 4.0[HP] + 5.0[HP] x 2)) = 6.59 kW (5,667 kcal/h)

   RCI-3.0FSR
   Cooling Capacity: 62.1 x (3.0[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP]+ 4.0[HP] + 5.0[HP] x 2)) = 7.76 kW (6,750 kcal/h)
   Heating Capacity: 63.3 x (3.0[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP]+ 4.0[HP] + 5.0[HP] x 2)) = 7.91 kW (6,800 kcal/h)

   RCI-4.0FSR
   Cooling Capacity: 62.1 x (4.0[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP] + 4.0[HP] + 5.0[HP] x 2)) = 10.35 kW (9,000 kcal/h)
   Heating Capacity: 63.3 x (4.0[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP] + 4.0[HP] + 5.0[HP] x 2)) = 10.55 kW (9,067 kcal/h)

   RCI-5.0FSR
   Cooling Capacity: 62.1 x (5.0[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP] + 4.0[HP] + 5.0[HP] x 2)) = 12.94 kW (11,250 kcal/h)
   Heating Capacity: 63.3 x (5.0[HP] ÷ (2.0[HP] + 2.5[HP] x 2 + 3.0[HP] + 4.0[HP] + 5.0[HP] x 2)) = 13.19 kW (11,333 kcal/h)

   Result

Item			Room (1)	Room (2)	Room (3)	Room (4)
Selected Model			RCI-2.0FSR	RCI-2.5FSR	RCI-2.5FSR	RCI-3.0FSR
Actual Capacity	Actual Maximum Cooling Capacity	kW	5.18	6.47	6.47	7.76
		kcal/h	4,453	5,562	5,562	6,671
	Actual Maximum Heating Capacity	kW	5.28	6.59	6.59	7.91
		kcal/h	4,533	5,667	5,667	6,800
Design Load	Estimated Cooling Load	kW	4.24	5.35	5.35	6.36
		kcal/h	3,650	4,600	4,600	5,472
	Estimated Heating Load	kW	4.77	6.00	6.00	7.16
		kcal/h	4,100	5,160	5,160	6,160

Item			Room (5)	Room (6)	Room (7)	(1) + (2) + (3) + (4) + (5) + (6) + (7)
Selected Model			RCI-4.0FSR	RCI-5.0FSR	RCI-5.0FSR	-
Actual Capacity	Actual Maximum Cooling Capacity	kW	10.35	12.94	12.94	62.1
		kcal/h	8,897	11,123	11,123	53,400
	Actual Maximum Heating Capacity	kW	10.55	13.19	13.19	63.3
		kcal/h	9,067	11,333	11,333	54,400
Design Load	Estimated Cooling Load	kW	8.48	10.6	10.6	50.98
		kcal/h	7,295	9,119	9,119	43,855
	Estimated Heating Load	kW	9.54	11.9	11.9	57.27
		kcal/h	8,207	10,238	10,238	49,263

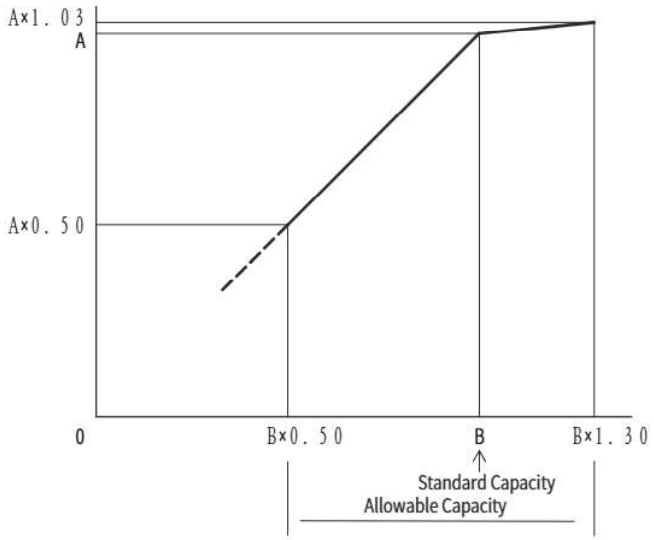
6.2 Capacity Characteristic Curve

The following charts show the characteristics of outdoor unit capacity which corresponds with total horsepower of combined indoor unit, on standard condition with nominal piping length.

< Cooling Capacity >

[Example]

MODELS : RAS-220 to H12(H,R)NCC(L,R)(W,I)
MODE : COOL
CONDTION : Indoor Air Inlet Temperature : 27.0°CDB (80.0°FDB)
: 19.0°CWB (66.2°FWB)
: Outdoor Air Inlet Temperature : 35.0°CDB (95.0°FDB)



Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-220(H,R)NCC(L,R)(W,I)	61.5	22
RAS-240(H,R)NCC(L,R)(W,I)	67.0	24
RAS-260(H,R)NCC(L,R)(W,I)	73.0	26
RAS-280(H,R)NCC(L,R)(W,I)	77.5	28
RAS-400(H,R)NCC(L,R)(W,I)	111.9	40
RAS-420(H,R)NCC(L,R)(W,I)	117.4	42
RAS-440(H,R)NCC(L,R)(W,I)	123.0	44
RAS-460(H,R)NCC(L,R)(W,I)	128.5	46
RAS-480(H,R)NCC(L,R)(W,I)	134.0	48
RAS-500(H,R)NCC(L,R)(W,I)	140.0	50
RAS-520(H,R)NCC(L,R)(W,I)	146.0	52
RAS-540(H,R)NCC(L,R)(W,I)	150.5	54
RAS-560(H,R)NCC(L,R)(W,I)	155.0	56
RAS-580(H,R)NCC(L,R)(W,I)	162.3	58

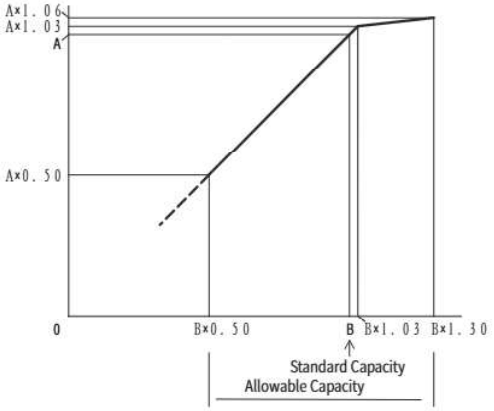
MODEL	A (kW)	B (HP)
RAS-600(H,R)NCC(L,R)(W,I)	167.8	60
RAS-620(H,R)NCC(L,R)(W,I)	173.4	62
RAS-640(H,R)NCC(L,R)(W,I)	178.9	64
RAS-660(H,R)NCC(L,R)(W,I)	184.4	66
RAS-680(H,R)NCC(L,R)(W,I)	190.0	68
RAS-700(H,R)NCC(L,R)(W,I)	195.5	70
RAS-720(H,R)NCC(L,R)(W,I)	201.0	72
RAS-740(H,R)NCC(L,R)(W,I)	207.0	74
RAS-760(H,R)NCC(L,R)(W,I)	213.0	76
RAS-780(H,R)NCC(L,R)(W,I)	219.0	78
RAS-800(H,R)NCC(L,R)(W,I)	223.5	80
RAS-820(H,R)NCC(L,R)(W,I)	228.0	82
RAS-840(H,R)NCC(L,R)(W,I)	232.5	84
RAS-860(H,R)NCC(L,R)(W,I)	240.4	86

MODEL	A (kW)	B (HP)
RAS-880(H,R)NCC(L,R)(W,I)	245.9	88
RAS-900(H,R)NCC(L,R)(W,I)	251.4	90
RAS-920(H,R)NCC(L,R)(W,I)	257.0	92
RAS-940(H,R)NCC(L,R)(W,I)	262.5	94
RAS-960(H,R)NCC(L,R)(W,I)	268.0	96
RAS-980(H,R)NCC(L,R)(W,I)	274.0	98
RAS-H00(H,R)NCC(L,R)(W,I)	280.0	100
RAS-H02(H,R)NCC(L,R)(W,I)	286.0	102
RAS-H04(H,R)NCC(L,R)(W,I)	292.0	104
RAS-H06(H,R)NCC(L,R)(W,I)	296.5	106
RAS-H08(H,R)NCC(L,R)(W,I)	301.0	108
RAS-H10(H,R)NCC(L,R)(W,I)	305.5	110
RAS-H12(H,R)NCC(L,R)(W,I)	310.0	112

NOTE: For NEU region, combinations are available up to 64HP.

(1) Standard (Except ANZ)

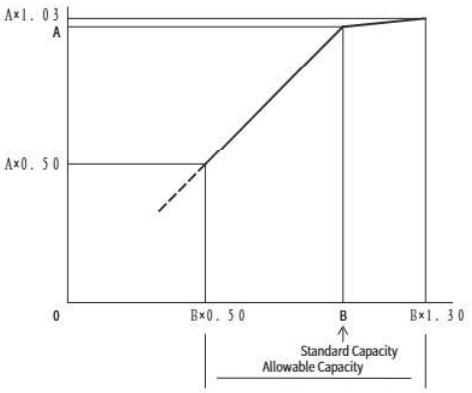
MODELS : RAS-080 to 380(H,R)NCC(L,R)(W,I)
MODE : COOL
CONDTION : Indoor Air Inlet Temperature : 27.0°CDB (80.0°FDB)
: 19.0°CWB (66.2°FWB)
: Outdoor Air Inlet Temperature : 35.0°CDB (95.0°FDB)



Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-080(H,R)NCC(L,R)(W,I)	22.4	8
RAS-100(H,R)NCC(L,R)(W,I)	28.0	10
RAS-120(H,R)NCC(L,R)(W,I)	33.5	12
RAS-140(H,R)NCC(L,R)(W,I)	40.0	14
RAS-160(H,R)NCC(L,R)(W,I)	45.0	16
RAS-180(H,R)NCC(L,R)(W,I)	50.4	18
RAS-200(H,R)NCC(L,R)(W,I)	56.0	20
RAS-300(H,R)NCC(L,R)(W,I)	83.9	30
RAS-320(H,R)NCC(L,R)(W,I)	90.4	32
RAS-340(H,R)NCC(L,R)(W,I)	95.4	34
RAS-360(H,R)NCC(L,R)(W,I)	100.8	36
RAS-380(H,R)NCC(L,R)(W,I)	106.5	38

MODELS : RAS-220 to H12(H,R)NCC(L,R)(W,I)
MODE : COOL
CONDTION : Indoor Air Inlet Temperature : 27.0°CDB (80.0°FDB)
: 19.0°CWB (66.2°FWB)
: Outdoor Air Inlet Temperature : 35.0°CDB (95.0°FDB)



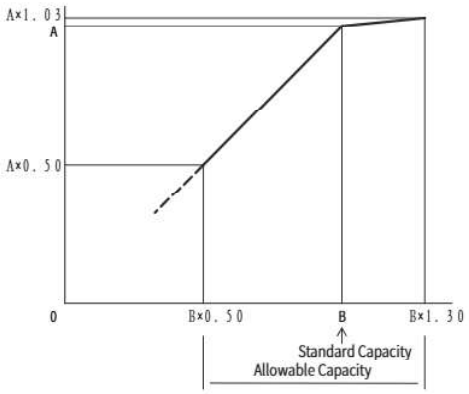
Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-220(H,R)NCC(L,R)(W,I)	61.5	22
RAS-240(H,R)NCC(L,R)(W,I)	67.0	24
RAS-260(H,R)NCC(L,R)(W,I)	73.0	26
RAS-280(H,R)NCC(L,R)(W,I)	77.5	28
RAS-400(H,R)NCC(L,R)(W,I)	111.9	40
RAS-420(H,R)NCC(L,R)(W,I)	117.4	42
RAS-440(H,R)NCC(L,R)(W,I)	123.0	44
RAS-460(H,R)NCC(L,R)(W,I)	128.5	46
RAS-480(H,R)NCC(L,R)(W,I)	134.0	48
RAS-500(H,R)NCC(L,R)(W,I)	140.0	50
RAS-520(H,R)NCC(L,R)(W,I)	146.0	52
RAS-540(H,R)NCC(L,R)(W,I)	150.5	54
RAS-560(H,R)NCC(L,R)(W,I)	155.0	56
RAS-580(H,R)NCC(L,R)(W,I)	162.3	58
RAS-600(H,R)NCC(L,R)(W,I)	167.8	60
RAS-620(H,R)NCC(L,R)(W,I)	173.4	62
RAS-640(H,R)NCC(L,R)(W,I)	178.9	64
RAS-660(H,R)NCC(L,R)(W,I)	184.4	66
RAS-680(H,R)NCC(L,R)(W,I)	190.0	68
RAS-700(H,R)NCC(L,R)(W,I)	195.5	70
RAS-720(H,R)NCC(L,R)(W,I)	201.0	72
RAS-740(H,R)NCC(L,R)(W,I)	207.0	74
RAS-760(H,R)NCC(L,R)(W,I)	213.0	76
RAS-780(H,R)NCC(L,R)(W,I)	219.0	78
RAS-800(H,R)NCC(L,R)(W,I)	223.5	80
RAS-820(H,R)NCC(L,R)(W,I)	228.0	82
RAS-840(H,R)NCC(L,R)(W,I)	232.5	84
RAS-860(H,R)NCC(L,R)(W,I)	240.4	86
RAS-880(H,R)NCC(L,R)(W,I)	245.9	88
RAS-900(H,R)NCC(L,R)(W,I)	251.4	90
RAS-920(H,R)NCC(L,R)(W,I)	257.0	92
RAS-940(H,R)NCC(L,R)(W,I)	262.5	94
RAS-960(H,R)NCC(L,R)(W,I)	268.0	96
RAS-980(H,R)NCC(L,R)(W,I)	274.0	98
RAS-H00(H,R)NCC(L,R)(W,I)	280.0	100
RAS-H02(H,R)NCC(L,R)(W,I)	286.0	102
RAS-H04(H,R)NCC(L,R)(W,I)	292.0	104
RAS-H06(H,R)NCC(L,R)(W,I)	296.5	106
RAS-H08(H,R)NCC(L,R)(W,I)	301.0	108
RAS-H10(H,R)NCC(L,R)(W,I)	305.5	110
RAS-H12(H,R)NCC(L,R)(W,I)	310.0	112

NOTE: For NEU region, combinations are available up to 64HP.

(2) Standard (For ANZ)

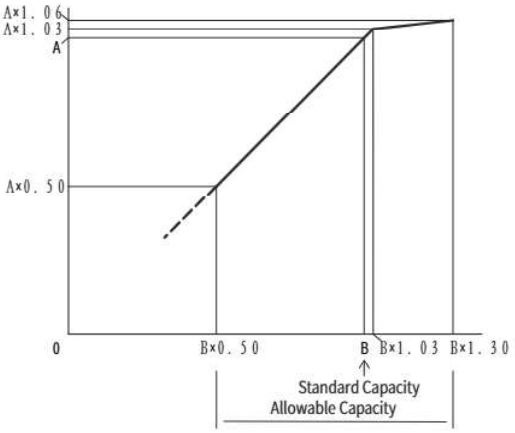
MODELS : RAS-220 to 640RNCCLW
MODE : COOL
CONDTION : Indoor Air Inlet Temperature : 27.0°CDB (80.0°FDB)
: 19.0°CWB (66.2°FWB)
: Outdoor Air Inlet Temperature : 35.0°CDB (95.0°FDB)



Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-220RNCCLW	61.5	22
RAS-240RNCCLW	67.0	24
RAS-400RNCCLW	111.9	40
RAS-420RNCCLW	117.4	42
RAS-440RNCCLW	123.0	44
RAS-460RNCCLW	128.5	46
RAS-480RNCCLW	134.0	48
RAS-580RNCCLW	162.3	58
RAS-600RNCCLW	167.8	60
RAS-620RNCCLW	173.4	62
RAS-640RNCCLW	178.9	64

MODELS : RAS-080 to 560RNCCLW
MODE : COOL
CONDTION : Indoor Air Inlet Temperature : 27.0°CDB (80.0°FDB)
: 19.0°CWB (66.2°FWB)
: Outdoor Air Inlet Temperature : 35.0°CDB (95.0°FDB)

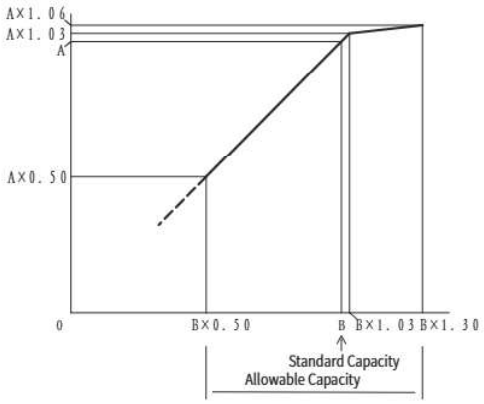


Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)	MODEL	A (kW)	B (HP)
RAS-080RNCCLW	22.4	8	RAS-300RNCCLW	83.9	30
RAS-100RNCCLW	28.0	10	RAS-320RNCCLW	90.4	32
RAS-120RNCCLW	33.5	12	RAS-340RNCCLW	95.4	34
RAS-140RNCCLW	40.0	14	RAS-360RNCCLW	100.8	36
RAS-160RNCCLW	45.0	16	RAS-380RNCCLW	106.5	38
RAS-180RNCCLW	50.4	18	RAS-500RNCCLW	140.8	50
RAS-200RNCCLW	56.0	20	RAS-520RNCCLW	145.8	52
RAS-260RNCCLW	73.5	26	RAS-540RNCCLW	151.2	54
RAS-280RNCCLW	78.5	28	RAS-560RNCCLW	156.9	56

(3) High Efficiency (Except ANZ) and High Ambient

MODELS : RAS-080 to 880(H,J)NCBL(W,I)
MODE : COOL
CONDTION : Indoor Air Inlet Temperature : 27.0°CDB (80.0°FDB)
: 19.0°CWB (66.2°FWB)
: Outdoor Air Inlet Temperature : 35.0°CDB (95.0°FDB)



Total Horsepower of Combined Indoor Units (HP)

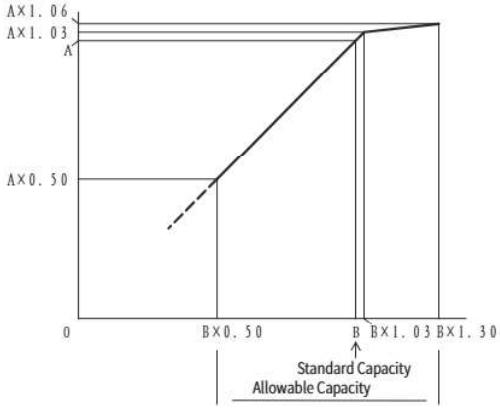
MODEL	A (kW)	B (HP)
RAS-080(H,J)NCBL(W,I)	22.4	8
RAS-100(H,J)NCBL(W,I)	28.0	10
RAS-120(H,J)NCBL(W,I)	33.5	12
RAS-140(H,J)NCBL(W,I)	40.0	14
RAS-160(H,J)NCBL(W,I)	45.0	16
RAS-180(H,J)NCBL(W,I)	50.4	18
RAS-200(H,J)NCBL(W,I)	56.0	20
RAS-220(H,J)NCBL(W,I)	61.5	22
RAS-240(H,J)NCBL(W,I)	67.0	24
RAS-260(H,J)NCBL(W,I)	73.5	26
RAS-280(H,J)NCBL(W,I)	80.0	28
RAS-300(H,J)NCBL(W,I)	85.0	30
RAS-320(H,J)NCBL(W,I)	90.0	32
RAS-340(H,J)NCBL(W,I)	95.4	34

MODEL	A (kW)	B (HP)
RAS-360(H,J)NCBL(W,I)	100.8	36
RAS-380(H,J)NCBL(W,I)	106.4	38
RAS-400(H,J)NCBL(W,I)	112.0	40
RAS-420(H,J)NCBL(W,I)	117.5	42
RAS-440(H,J)NCBL(W,I)	123.0	44
RAS-460(H,J)NCBL(W,I)	130.0	46
RAS-480(H,J)NCBL(W,I)	135.0	48
RAS-500(H,J)NCBL(W,I)	140.4	50
RAS-520(H,J)NCBL(W,I)	145.8	52
RAS-540(H,J)NCBL(W,I)	151.2	54
RAS-560(H,J)NCBL(W,I)	156.8	56
RAS-580(H,J)NCBL(W,I)	162.4	58
RAS-600(H,J)NCBL(W,I)	168.0	60
RAS-620(H,J)NCBL(W,I)	173.5	62

MODEL	A (kW)	B (HP)
RAS-640(H,J)NCBL(W,I)	179.0	64
RAS-660(H,J)NCBL(W,I)	184.5	66
RAS-680(H,J)NCBL(W,I)	191.2	68
RAS-700(H,J)NCBL(W,I)	196.2	70
RAS-720(H,J)NCBL(W,I)	201.6	72
RAS-740(H,J)NCBL(W,I)	207.2	74
RAS-760(H,J)NCBL(W,I)	212.8	76
RAS-780(H,J)NCBL(W,I)	218.4	78
RAS-800(H,J)NCBL(W,I)	224.0	80
RAS-820(H,J)NCBL(W,I)	229.5	82
RAS-840(H,J)NCBL(W,I)	235.0	84
RAS-860(H,J)NCBL(W,I)	240.5	86
RAS-880(H,J)NCBL(W,I)	246.0	88

(4) High Efficiency (For ANZ)

MODELS : RAS-080 to 480RNCBLW
MODE : COOL
CONDTION : Indoor Air Inlet Temperature : 27.0°CDB (80.0°FDB)
: 19.0°CWB (66.2°FWB)
: Outdoor Air Inlet Temperature : 35.0°CDB (95.0°FDB)



Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-080RNCBLW	22.4	8
RAS-100RNCBLW	28.0	10
RAS-120RNCBLW	33.5	12
RAS-140RNCBLW	40.0	14
RAS-160RNCBLW	45.0	16
RAS-180RNCBLW	50.4	18
RAS-200RNCBLW	56.0	20
RAS-220RNCBLW	61.5	22
RAS-240RNCBLW	67.0	24
RAS-260RNCBLW	73.5	26
RAS-280RNCBLW	80.0	28

MODEL	A (kW)	B (HP)
RAS-300RNCBLW	85.0	30
RAS-320RNCBLW	90.0	32
RAS-340RNCBLW	95.4	34
RAS-360RNCBLW	100.8	36
RAS-380RNCBLW	106.4	38
RAS-400RNCBLW	112.0	40
RAS-420RNCBLW	120.0	42
RAS-440RNCBLW	125.0	44
RAS-460RNCBLW	130.0	46
RAS-480RNCBLW	135.0	48

< Heating Capacity >

[Example]

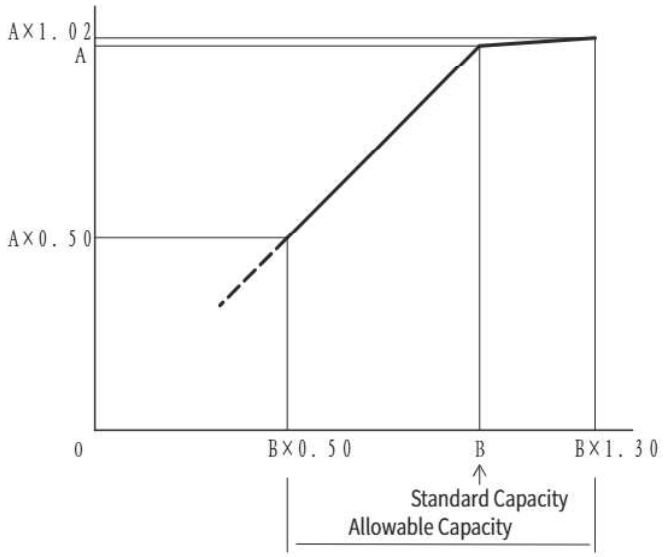
MODELS : RAS-220 to H12(H,R)NCC(L,R)(W,I)

MODE : HEAT

CONDTION : Indoor Air Inlet Temperature : 20.0°CDB（68.0°FDB）

: Outdoor Air Inlet Temperature : 7.0°CDB（45.0°FDB）

: 6.0°CWB（43.0°FWB）



Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-220(H,R)NCC(L,R)(W,I)	69.0	22
RAS-240(H,R)NCC(L,R)(W,I)	77.5	24
RAS-260(H,R)NCC(L,R)(W,I)	81.5	26
RAS-280(H,R)NCC(L,R)(W,I)	86.0	28
RAS-400(H,R)NCC(L,R)(W,I)	125.0	40
RAS-420(H,R)NCC(L,R)(W,I)	133.5	42
RAS-440(H,R)NCC(L,R)(W,I)	138.0	44
RAS-460(H,R)NCC(L,R)(W,I)	146.5	46
RAS-480(H,R)NCC(L,R)(W,I)	155.0	48
RAS-500(H,R)NCC(L,R)(W,I)	159.0	50
RAS-520(H,R)NCC(L,R)(W,I)	163.0	52
RAS-540(H,R)NCC(L,R)(W,I)	167.5	54
RAS-560(H,R)NCC(L,R)(W,I)	172.0	56
RAS-580(H,R)NCC(L,R)(W,I)	181.0	58

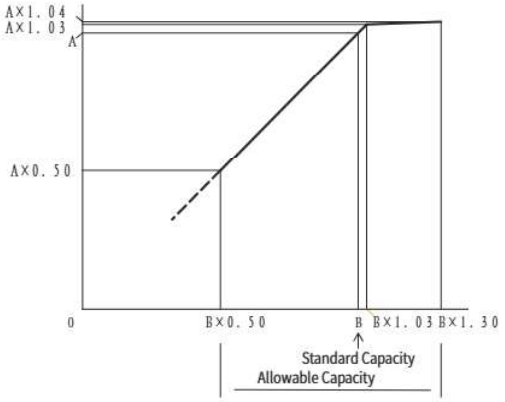
MODEL	A (kW)	B (HP)
RAS-600(H,R)NCC(L,R)(W,I)	189.5	60
RAS-620(H,R)NCC(L,R)(W,I)	194.0	62
RAS-640(H,R)NCC(L,R)(W,I)	202.5	64
RAS-660(H,R)NCC(L,R)(W,I)	211.0	66
RAS-680(H,R)NCC(L,R)(W,I)	215.5	68
RAS-700(H,R)NCC(L,R)(W,I)	224.0	70
RAS-720(H,R)NCC(L,R)(W,I)	232.5	72
RAS-740(H,R)NCC(L,R)(W,I)	236.5	74
RAS-760(H,R)NCC(L,R)(W,I)	240.5	76
RAS-780(H,R)NCC(L,R)(W,I)	244.5	78
RAS-800(H,R)NCC(L,R)(W,I)	249.0	80
RAS-820(H,R)NCC(L,R)(W,I)	253.5	82
RAS-840(H,R)NCC(L,R)(W,I)	258.0	84
RAS-860(H,R)NCC(L,R)(W,I)	271.5	86

MODEL	A (kW)	B (HP)
RAS-880(H,R)NCC(L,R)(W,I)	280.0	88
RAS-900(H,R)NCC(L,R)(W,I)	288.5	90
RAS-920(H,R)NCC(L,R)(W,I)	293.0	92
RAS-940(H,R)NCC(L,R)(W,I)	301.5	94
RAS-960(H,R)NCC(L,R)(W,I)	310.0	96
RAS-980(H,R)NCC(L,R)(W,I)	314.0	98
RAS-H00(H,R)NCC(L,R)(W,I)	318.0	100
RAS-H02(H,R)NCC(L,R)(W,I)	322.0	102
RAS-H04(H,R)NCC(L,R)(W,I)	326.0	104
RAS-H06(H,R)NCC(L,R)(W,I)	330.5	106
RAS-H08(H,R)NCC(L,R)(W,I)	335.0	108
RAS-H10(H,R)NCC(L,R)(W,I)	339.5	110
RAS-H12(H,R)NCC(L,R)(W,I)	344.0	112

NOTE: For NEU region, combinations are available up to 64HP.

(1) Standard (Except ANZ)

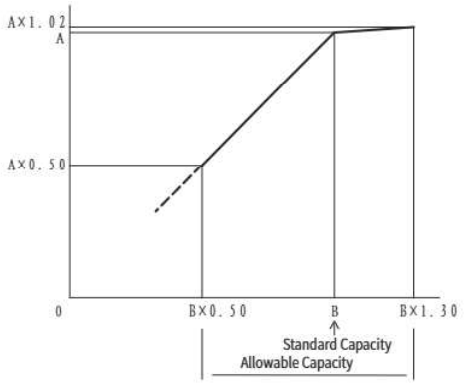
MODELS : RAS-080 to 380(H,R)NCC(L,R) (W,I)
MODE : HEAT
CONDTION : Indoor Air Inlet Temperature : 20.0°CDB (68.0°FDB)
: Outdoor Air Inlet Temperature : 7.0°CDB (45.0°FDB)
: 6.0°CWB (43.0°FWB)



Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-080(H,R)NCC(L,R)(W,I)	25.0	8
RAS-100(H,R)NCC(L,R)(W,I)	31.5	10
RAS-120(H,R)NCC(L,R)(W,I)	37.5	12
RAS-140(H,R)NCC(L,R)(W,I)	45.0	14
RAS-160(H,R)NCC(L,R)(W,I)	50.0	16
RAS-180(H,R)NCC(L,R)(W,I)	56.0	18
RAS-200(H,R)NCC(L,R)(W,I)	63.0	20
RAS-300(H,R)NCC(L,R)(W,I)	93.5	30
RAS-320(H,R)NCC(L,R)(W,I)	101.0	32
RAS-340(H,R)NCC(L,R)(W,I)	106.0	34
RAS-360(H,R)NCC(L,R)(W,I)	112.0	36
RAS-380(H,R)NCC(L,R)(W,I)	119.0	38

MODELS : RAS-220 to H12(H,R)NCC(L,R) (W,I)
MODE : HEAT
CONDTION : Indoor Air Inlet Temperature : 20.0°CDB (68.0°FDB)
: Outdoor Air Inlet Temperature : 7.0°CDB (45.0°FDB)
: 6.0°CWB (43.0°FWB)



Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-220(H,R)NCC(L,R)(W,I)	69.0	22
RAS-240(H,R)NCC(L,R)(W,I)	77.5	24
RAS-260(H,R)NCC(L,R)(W,I)	81.5	26
RAS-280(H,R)NCC(L,R)(W,I)	86.0	28
RAS-400(H,R)NCC(L,R)(W,I)	125.0	40
RAS-420(H,R)NCC(L,R)(W,I)	133.5	42
RAS-440(H,R)NCC(L,R)(W,I)	138.0	44
RAS-460(H,R)NCC(L,R)(W,I)	146.5	46
RAS-480(H,R)NCC(L,R)(W,I)	155.0	48
RAS-500(H,R)NCC(L,R)(W,I)	159.0	50
RAS-520(H,R)NCC(L,R)(W,I)	163.0	52
RAS-540(H,R)NCC(L,R)(W,I)	167.5	54
RAS-560(H,R)NCC(L,R)(W,I)	172.0	56
RAS-580(H,R)NCC(L,R)(W,I)	181.0	58

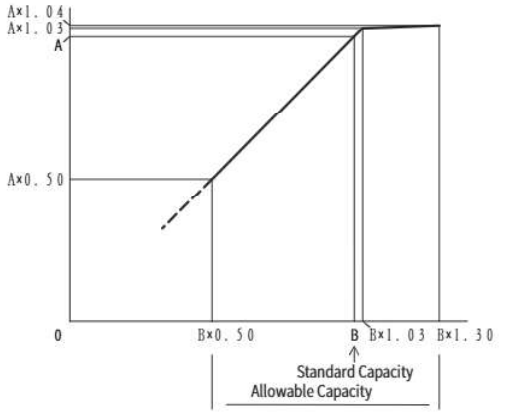
MODEL	A (kW)	B (HP)
RAS-600(H,R)NCC(L,R)(W,I)	189.5	60
RAS-620(H,R)NCC(L,R)(W,I)	194.0	62
RAS-640(H,R)NCC(L,R)(W,I)	202.5	64
RAS-660(H,R)NCC(L,R)(W,I)	211.0	66
RAS-680(H,R)NCC(L,R)(W,I)	215.5	68
RAS-700(H,R)NCC(L,R)(W,I)	224.0	70
RAS-720(H,R)NCC(L,R)(W,I)	232.5	72
RAS-740(H,R)NCC(L,R)(W,I)	236.5	74
RAS-760(H,R)NCC(L,R)(W,I)	240.5	76
RAS-780(H,R)NCC(L,R)(W,I)	244.5	78
RAS-800(H,R)NCC(L,R)(W,I)	249.0	80
RAS-820(H,R)NCC(L,R)(W,I)	253.5	82
RAS-840(H,R)NCC(L,R)(W,I)	258.0	84
RAS-860(H,R)NCC(L,R)(W,I)	271.5	86

MODEL	A (kW)	B (HP)
RAS-880(H,R)NCC(L,R)(W,I)	280.0	88
RAS-900(H,R)NCC(L,R)(W,I)	288.5	90
RAS-920(H,R)NCC(L,R)(W,I)	293.0	92
RAS-940(H,R)NCC(L,R)(W,I)	301.5	94
RAS-960(H,R)NCC(L,R)(W,I)	310.0	96
RAS-980(H,R)NCC(L,R)(W,I)	314.0	98
RAS-H00(H,R)NCC(L,R)(W,I)	318.0	100
RAS-H02(H,R)NCC(L,R)(W,I)	322.0	102
RAS-H04(H,R)NCC(L,R)(W,I)	326.0	104
RAS-H06(H,R)NCC(L,R)(W,I)	330.5	106
RAS-H08(H,R)NCC(L,R)(W,I)	335.0	108
RAS-H10(H,R)NCC(L,R)(W,I)	339.5	110
RAS-H12(H,R)NCC(L,R)(W,I)	344.0	112

NOTE: For NEU region, combinations are available up to 64HP.

(2) Standard (For ANZ)

MODELS : RAS-080 to 560RNCCLW
MODE : HEAT
CONDTION : Indoor Air Inlet Temperature : 20.0°CDB (68.0°FDB)
: Outdoor Air Inlet Temperature : 7.0°CDB (45.0°FDB)
: 6.0°CWB (43.0°FWB)

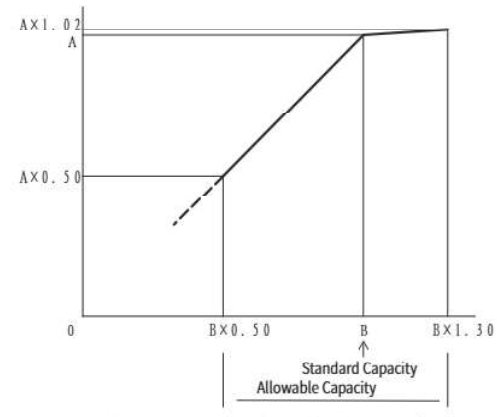


Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-080RNCCLW	25.0	8
RAS-100RNCCLW	31.5	10
RAS-120RNCCLW	37.5	12
RAS-140RNCCLW	45.0	14
RAS-160RNCCLW	50.0	16
RAS-180RNCCLW	56.0	18
RAS-200RNCCLW	63.0	20
RAS-260RNCCLW	82.5	26
RAS-280RNCCLW	87.5	28

MODEL	A (kW)	B (HP)
RAS-300RNCCLW	93.5	30
RAS-320RNCCLW	101.0	32
RAS-340RNCCLW	106.0	34
RAS-360RNCCLW	112.0	36
RAS-380RNCCLW	119.0	38
RAS-500RNCCLW	157.0	50
RAS-520RNCCLW	162.0	52
RAS-540RNCCLW	168.0	54
RAS-560RNCCLW	175.0	56

MODELS : RAS-220 to 640RNCCLW
MODE : HEAT
CONDTION : Indoor Air Inlet Temperature : 20.0°CDB (68.0°FDB)
: Outdoor Air Inlet Temperature : 7.0°CDB (45.0°FDB)
: 6.0°CWB (43.0°FWB)

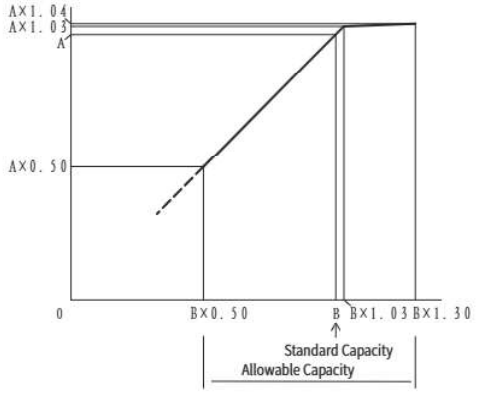


Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-220RNCCLW	69.0	22
RAS-240RNCCLW	77.5	24
RAS-400RNCCLW	125.0	40
RAS-420RNCCLW	133.5	42
RAS-440RNCCLW	138.0	44
RAS-460RNCCLW	146.5	46
RAS-480RNCCLW	155.0	48
RAS-580RNCCLW	181.0	58
RAS-600RNCCLW	189.5	60
RAS-620RNCCLW	194.0	62
RAS-640RNCCLW	202.5	64

(3) High Efficiency (Except ANZ) and High Ambient

MODELS : RAS-080 to 880(H,J)NCBL(W,I)
MODE : HEAT
CONDTION : Indoor Air Inlet Temperature : 20.0°CDB (68.0°FDB)
: Outdoor Air Inlet Temperature : 7.0°CDB (45.0°FDB)
: 6.0°CWB (43.0°FWB)



Total Horsepower of Combined Indoor Units (HP)

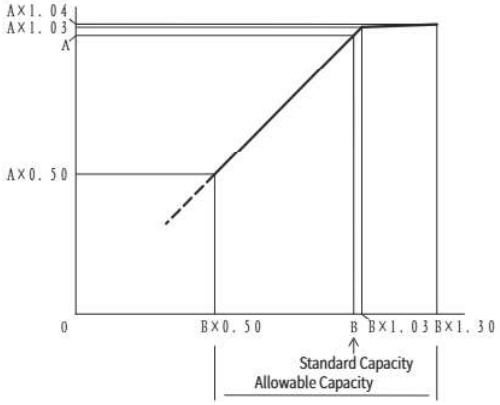
MODEL	A (kW)	B (HP)
RAS-080(H,J)NCBL(W,I)	25.0	8
RAS-100(H,J)NCBL(W,I)	31.5	10
RAS-120(H,J)NCBL(W,I)	37.5	12
RAS-140(H,J)NCBL(W,I)	45.0	14
RAS-160(H,J)NCBL(W,I)	47.5	16
RAS-180(H,J)NCBL(W,I)	56.0	18
RAS-200(H,J)NCBL(W,I)	63.0	20
RAS-220(H,J)NCBL(W,I)	69.0	22
RAS-240(H,J)NCBL(W,I)	75.0	24
RAS-260(H,J)NCBL(W,I)	82.5	26
RAS-280(H,J)NCBL(W,I)	90.0	28
RAS-300(H,J)NCBL(W,I)	92.5	30
RAS-320(H,J)NCBL(W,I)	95.0	32
RAS-340(H,J)NCBL(W,I)	103.5	34

MODEL	A (kW)	B (HP)
RAS-360(H,J)NCBL(W,I)	112.0	36
RAS-380(H,J)NCBL(W,I)	119.0	38
RAS-400(H,J)NCBL(W,I)	126.0	40
RAS-420(H,J)NCBL(W,I)	132.0	42
RAS-440(H,J)NCBL(W,I)	138.0	44
RAS-460(H,J)NCBL(W,I)	140.0	46
RAS-480(H,J)NCBL(W,I)	142.5	48
RAS-500(H,J)NCBL(W,I)	151.0	50
RAS-520(H,J)NCBL(W,I)	159.5	52
RAS-540(H,J)NCBL(W,I)	168.0	54
RAS-560(H,J)NCBL(W,I)	175.0	56
RAS-580(H,J)NCBL(W,I)	182.0	58
RAS-600(H,J)NCBL(W,I)	189.0	60
RAS-620(H,J)NCBL(W,I)	195.0	62

MODEL	A (kW)	B (HP)
RAS-640(H,J)NCBL(W,I)	201.0	64
RAS-660(H,J)NCBL(W,I)	207.0	66
RAS-680(H,J)NCBL(W,I)	213.0	68
RAS-700(H,J)NCBL(W,I)	215.5	70
RAS-720(H,J)NCBL(W,I)	224.0	72
RAS-740(H,J)NCBL(W,I)	231.0	74
RAS-760(H,J)NCBL(W,I)	238.0	76
RAS-780(H,J)NCBL(W,I)	245.0	78
RAS-800(H,J)NCBL(W,I)	252.0	80
RAS-820(H,J)NCBL(W,I)	258.0	82
RAS-840(H,J)NCBL(W,I)	264.0	84
RAS-860(H,J)NCBL(W,I)	270.0	86
RAS-880(H,J)NCBL(W,I)	276.0	88

(4) High Efficiency (For ANZ)

MODELS : RAS-080 to 480RNCBLW
MODE : HEAT
CONDTION : Indoor Air Inlet Temperature : 20.0°CDB (68.0°FDB)
: Outdoor Air Inlet Temperature : 7.0°CDB (45.0°FDB)
: 6.0°CWB (43.0°FWB)



Total Horsepower of Combined Indoor Units (HP)

MODEL	A (kW)	B (HP)
RAS-080RNCBLW	25.0	8
RAS-100RNCBLW	31.5	10
RAS-120RNCBLW	37.5	12
RAS-140RNCBLW	45.0	14
RAS-160RNCBLW	47.5	16
RAS-180RNCBLW	56.0	18
RAS-200RNCBLW	63.0	20
RAS-220RNCBLW	69.0	22
RAS-240RNCBLW	75.0	24
RAS-260RNCBLW	82.5	26
RAS-280RNCBLW	90.0	28

MODEL	A (kW)	B (HP)
RAS-300RNCBLW	92.5	30
RAS-320RNCBLW	95.0	32
RAS-340RNCBLW	103.5	34
RAS-360RNCBLW	112.0	36
RAS-380RNCBLW	119.0	38
RAS-400RNCBLW	126.0	40
RAS-420RNCBLW	135.0	42
RAS-440RNCBLW	137.5	44
RAS-460RNCBLW	140.0	46
RAS-480RNCBLW	142.5	48

6.3 Outdoor Unit Capacity According to Temperature Condition and Connected IDU Capacity Ratio (Part Load Data)

Refer to the Appendix for the detailed part load for each region.

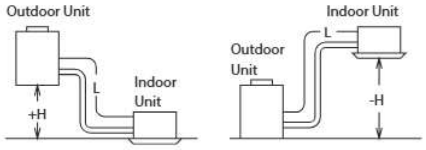
6.4 Correction Factor According to Piping Length

Cooling Capacity

Correction Factor for Cooling Capacity According to Piping Length
The cooling capacity should be corrected according to the following formula:
CCA = CC x F
CCA: Actual Corrected Cooling Capacity
CC: Cooling Capacity in the Performance Table
F: Correction Factor Based on the Equivalent Piping Length

The correction factors are shown in the following figure.

	One 90° Elbow	One 180° Bend	One Multi-Kit
Equivalent Piping Length	0.5 m	1.5 m	0.5 m

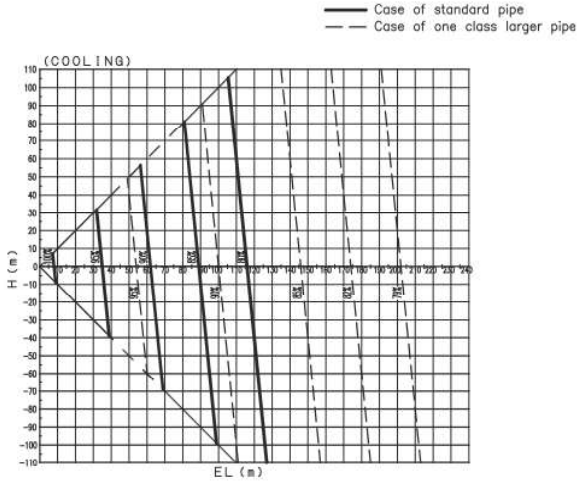


H: Vertical Distance Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters (Equivalent One-Way Piping Length)
H>0: Position of Outdoor Unit Higher Than Position of Indoor Unit
L: Actual One-Way Piping Length Between Indoor Unit and Outdoor Unit in Meters

NOTE:

- If EL is more than 100 m, the main piping (for Heat Pump: Gas pipe and Liquid pipe, for Heat Recovery: Liquid pipe only) should be increased by 1 size.

[Example]
MODELS: RAS-080HNCCL(W,I), RAS-100HNCCL(W,I), RAS-120HNCCL(W,I), RAS-140HNCCL(W,I), RAS-160HNCCL(W,I), RAS-180HNCCL(W,I)



Heating Capacity

Correction Factor for Heating Capacity According to Piping Length

The heating capacity should be corrected according to the following formula:

HCA = HC x F

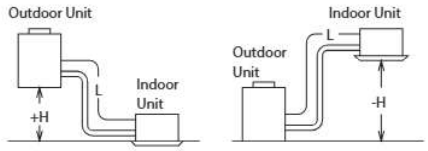
HCA: Actual Corrected Heating Capacity

HC: Heating Capacity in the Performance Table

F: Correction Factor Based on the Equivalent Piping Length

The correction factors are shown in the following figure.

	One 90° Elbow	One 180° Bend	One Multi-Kit
Equivalent Piping Length	0.5 m	1.5 m	0.5 m



H: Vertical Distance Between Indoor Unit and Outdoor Unit in Meters

EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters (Equivalent One-Way Piping Length)

H>0: Position of Outdoor Unit Higher Than Position of Indoor Unit

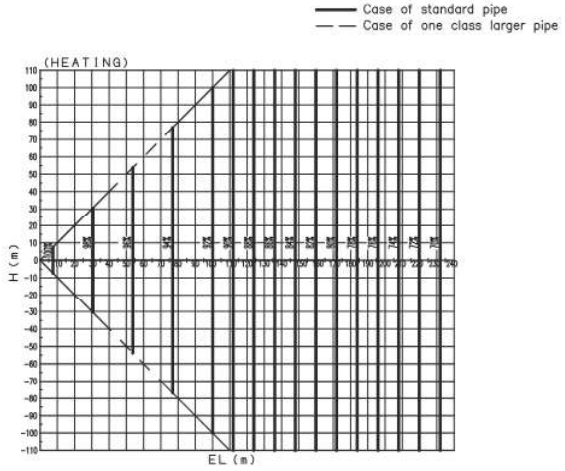
L: Actual One-Way Piping Length Between Indoor Unit and Outdoor Unit in Meters

NOTE:

- If EL is more than 100 m, the main piping (for Heat Pump: Gas pipe and Liquid pipe, for Heat Recovery: Liquid pipe only) should be increased by 1 size.

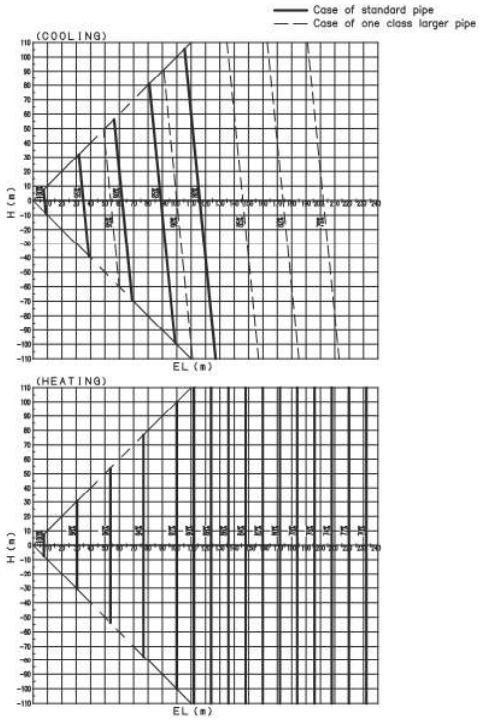
[Example]

MODELS: RAS-080HNCCL(W,I), RAS-100HNCCL(W,I), RAS-120HNCCL(W,I), RAS-140HNCCL(W,I), RAS-160HNCCL(W,I), RAS-180HNCCL(W,I)

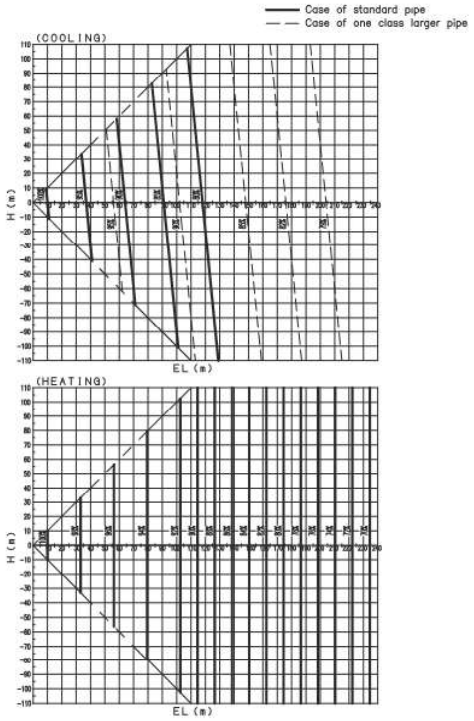


(1) HEAT PUMP (Standard)

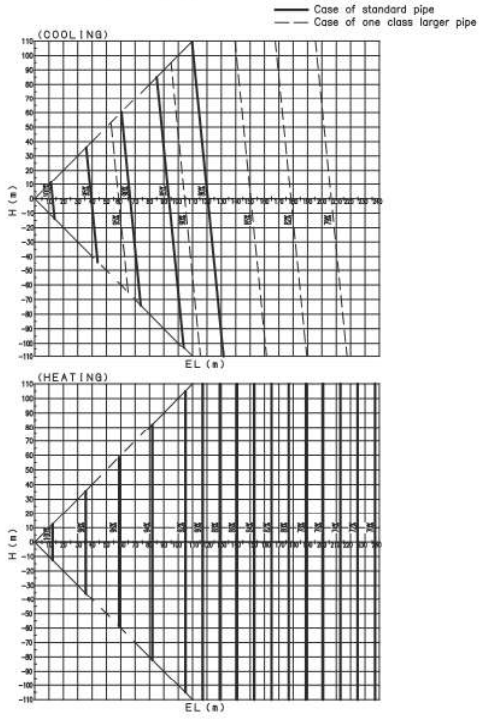
MODELS: RAS-080HNCCL(W,I), RAS-100HNCCL(W,I), RAS-120HNCCL(W,I), RAS-140HNCCL(W,I), RAS-160HNCCL(W,I), RAS-180HNCCL(W,I)



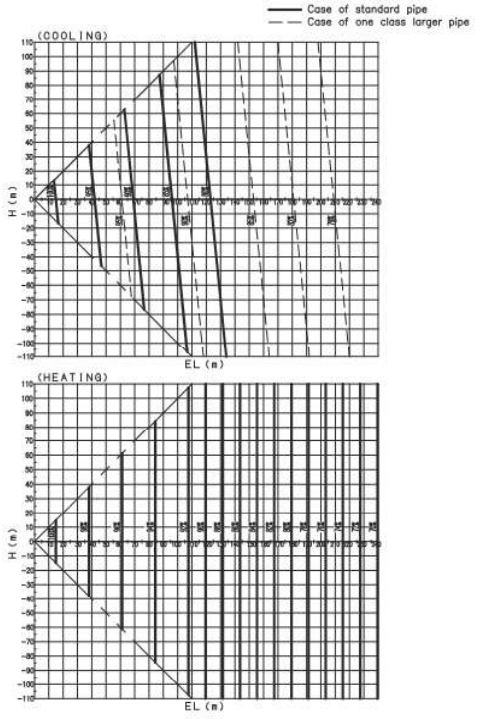
MODELS: RAS-200HNCCL(W,I), RAS-220HNCCL(W,I), RAS-240HNCCL(W,I), RAS-260HNCCL(W,I), RAS-280HNCCL(W,I), RAS-300HNCCL(W,I)



MODELS: RAS-320HNCCL(W,I), RAS-340HNCCL(W,I), RAS-360HNCCL(W,I), RAS-380HNCCL(W,I), RAS-400HNCCL(W,I), RAS-420HNCCL(W,I), RAS-440HNCCL(W,I)



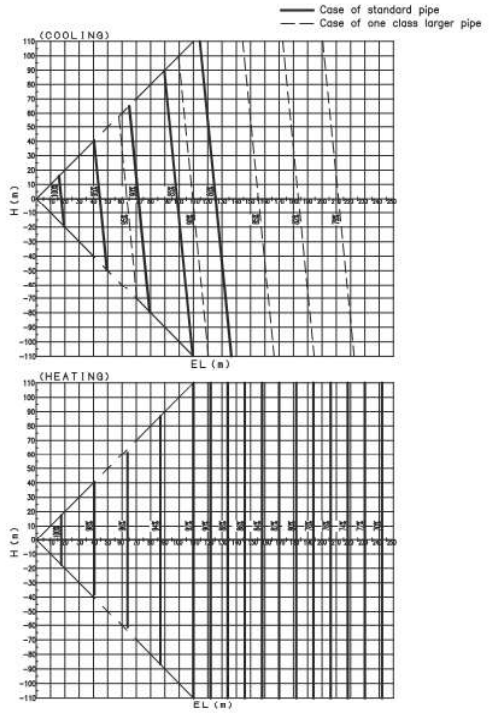
MODELS: RAS-460HNCCL(W,I), RAS-480HNCCL(W,I), RAS-500HNCCL(W,I), RAS-520HNCCL(W,I), RAS-540HNCCL(W,I)



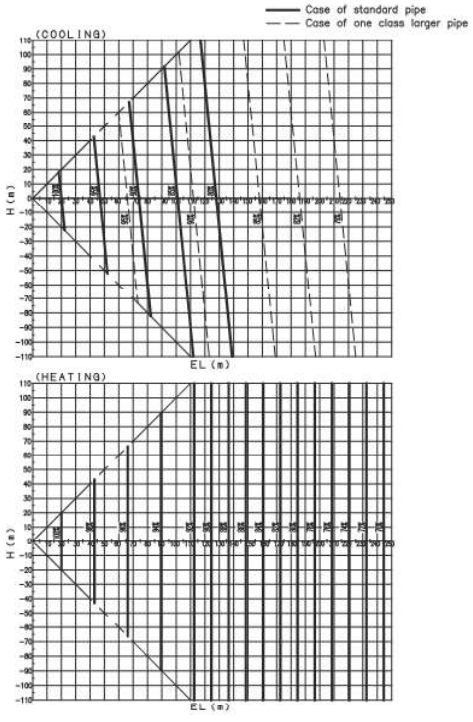
H: Heigh Difference Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

(Note 1) "Height Difference H" is positive when Outdoor Unit is located higher than Indoor Unit.
(Note 2) Use liquid pipe in the primary branch of which diameter is one class larger when actual pipe length exceeds 100m. Refer to Technical Information for more details.

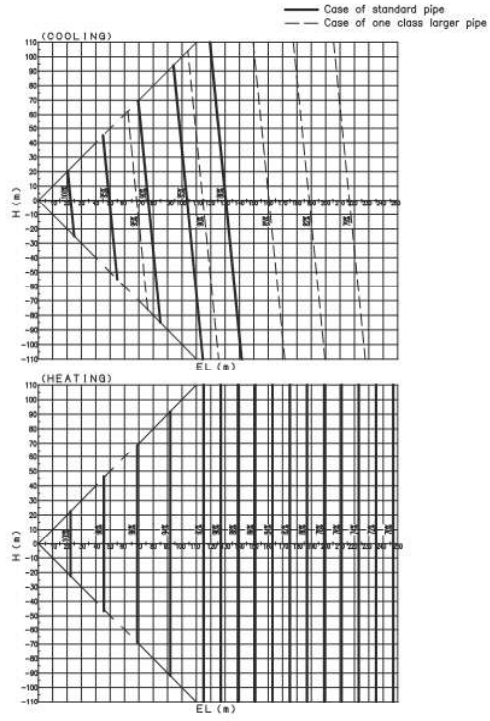
MODELS: RAS-560HNCCL(W,I), RAS-580HNCCL(W,I), RAS-600HNCCL(W,I), RAS-620HNCCL(W,I), RAS-640HNCCL(W,I), RAS-660HNCCL(W,I), RAS-680HNCCL(W,I), RAS-700HNCCL(W,I), RAS-720HNCCL(W,I)



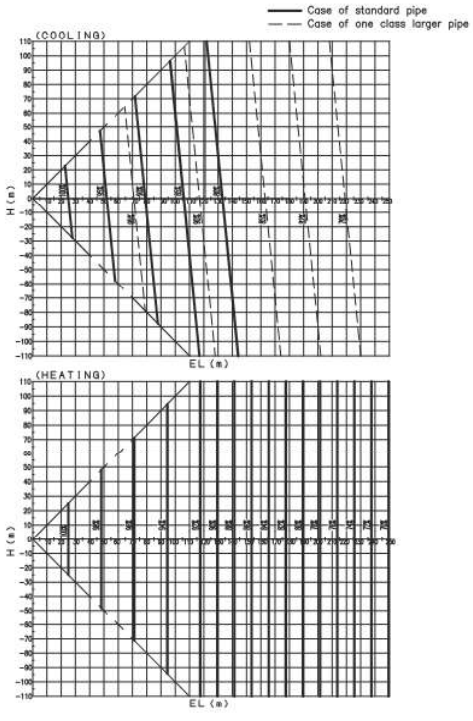
MODELS: RAS-740HNCCL(W,I), RAS-760HNCCL(W,I), RAS-780HNCCL(W,I), RAS-800HNCCL(W,I), RAS-820HNCCL(W,I), RAS-840HNCCL(W,I)



MODELS: RAS-860HNCCL(W,I), RAS-880HNCCL(W,I), RAS-900HNCCL(W,I), RAS-920HNCCL(W,I), RAS-940HNCCL(W,I), RAS-960HNCCL(W,I)



MODELS: RAS-980HNCCL(W,I), RAS-H00HNCCL(W,I), RAS-H02HNCCL(W,I), RAS-H04HNCCL(W,I), RAS-H06HNCCL(W,I), RAS-H08HNCCL(W,I)

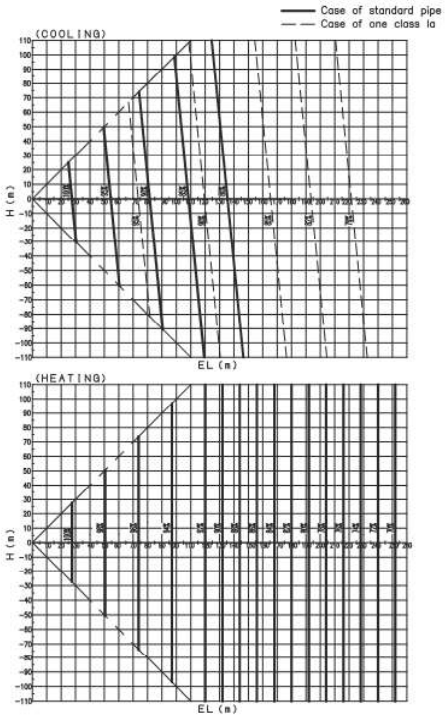


H: Heigh Difference Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

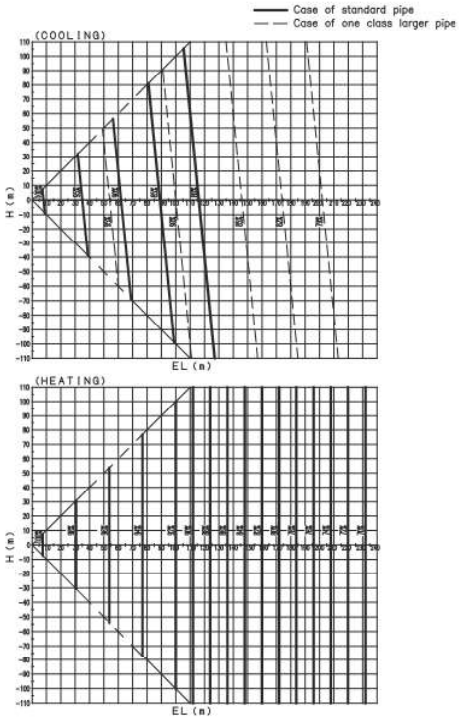
(Note 1) "Height Difference H" is positive when Outdoor Unit is located higher than Indoor Unit.
(Note 2) Use liquid pipe in the primary branch of which diameter is one class larger when actual pipe length exceeds 100m. Refer to Technical Information for more details.

(2) HEAT PUMP (High Efficiency)

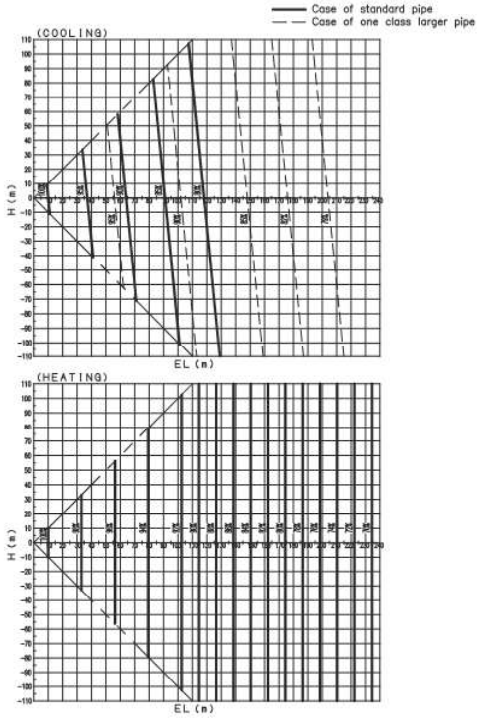
MODELS: RAS-H10HNCCL(W,I), RAS-H12HNCCL(W,I)



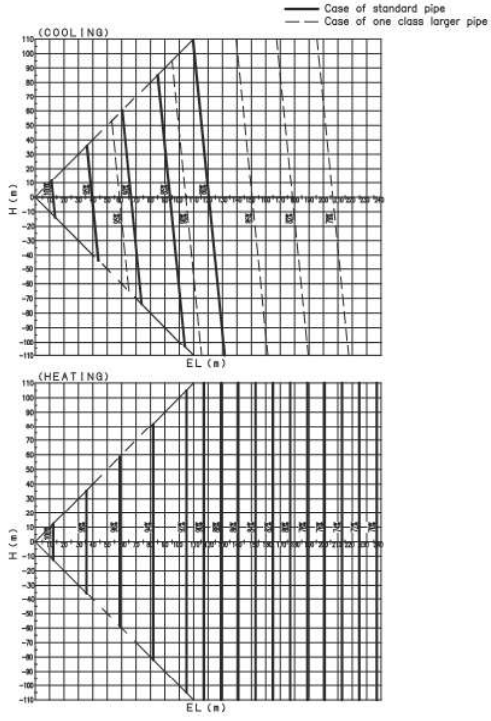
MODELS: RAS-080HNCBLW, RAS-100HNCBLW, RAS-120HNCBLW, RAS-140HNCBLW, RAS-160HNCBLW, RAS-180HNCBLW



MODELS: RAS-200HNCBLW, RAS-220HNCBLW, RAS-240HNCBLW, RAS-260HNCBLW, RAS-280HNCBLW, RAS-300HNCBLW



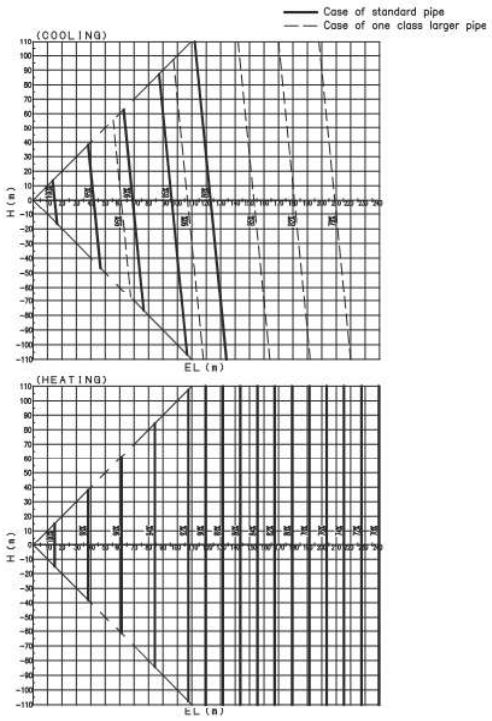
MODELS: RAS-320HNCBLW, RAS-340HNCBLW, RAS-360HNCBLW, RAS-380HNCBLW, RAS-400HNCBLW, RAS-420HNCBLW, RAS-440HNCBLW



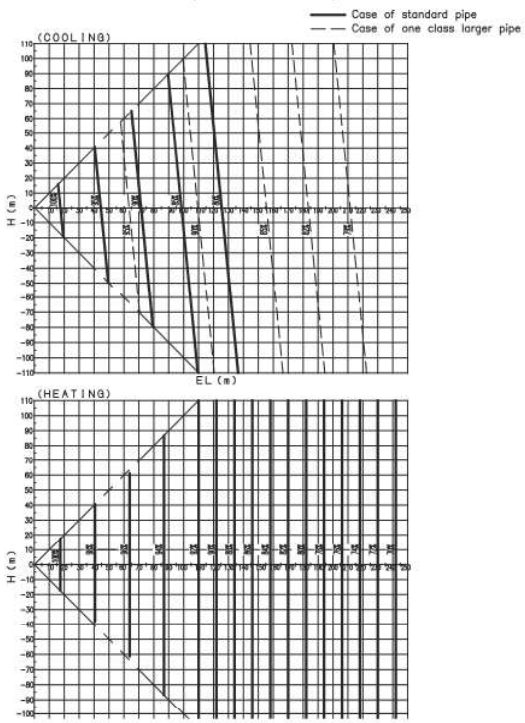
H: Heigh Difference Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

(Note 1) "Height Difference H" is positive when Outdoor Unit is located higher than Indoor Unit.
(Note 2) Use liquid pipe in the primary branch of which diameter is one class larger when actual pipe length exceeds 100m. Refer to Technical Information for more details.

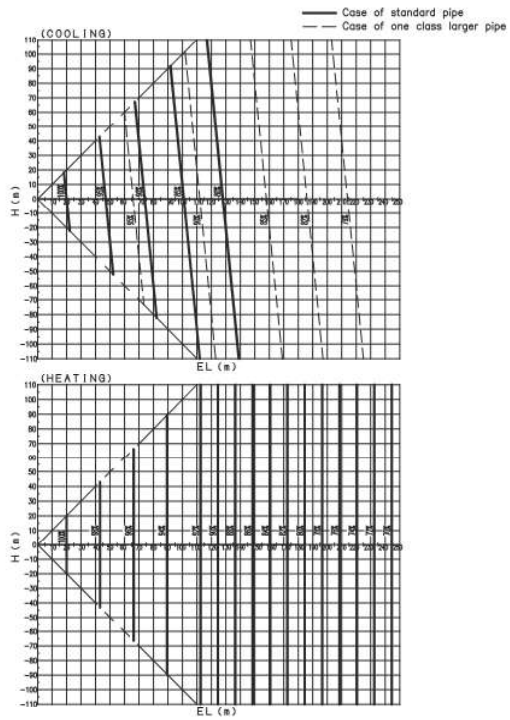
MODELS: RAS-460HNCBLW, RAS-480HNCBLW, RAS-500HNCBLW, RAS-520HNCBLW, RAS-540HNCBLW



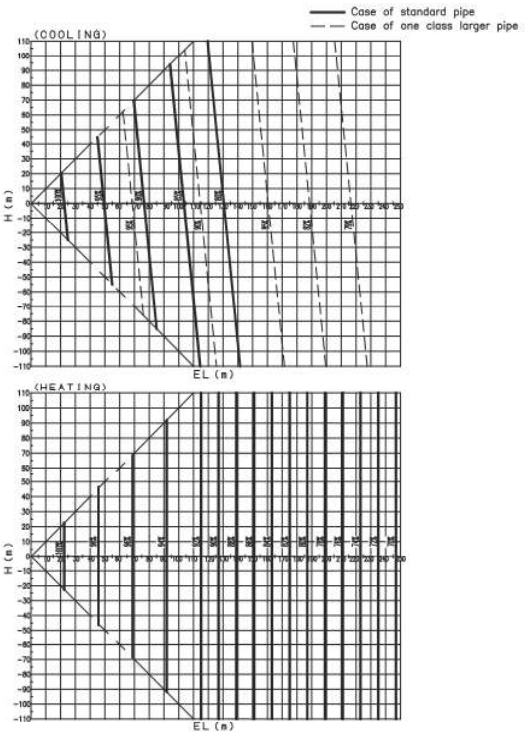
MODELS: RAS-560HNCBLW, RAS-580HNCBLW, RAS-600HNCBLW, RAS-620HNCBLW, RAS-640HNCBLW, RAS-660HNCBLW, RAS-680HNCBLW, RAS-700HNCBLW, RAS-720HNCBLW



MODELS: RAS-740HNCBLW, RAS-760HNCBLW, RAS-780HNCBLW, RAS-800HNCBLW, RAS-820HNCBLW, RAS-840HNCBLW



MODELS: RAS-860HNCBLW, RAS-880HNCBLW

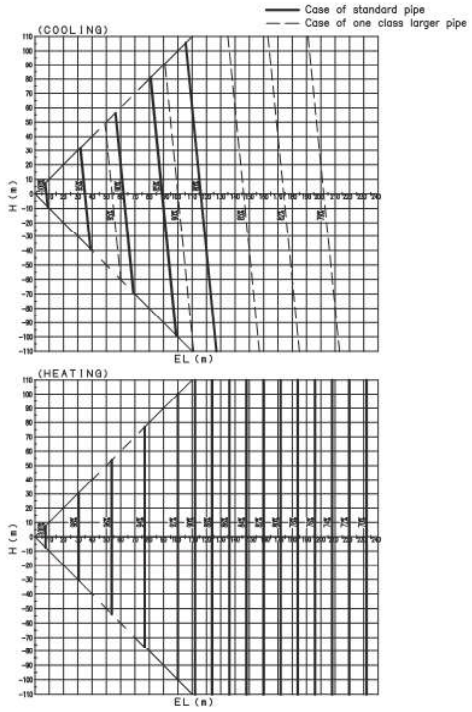


H: Heigh Difference Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

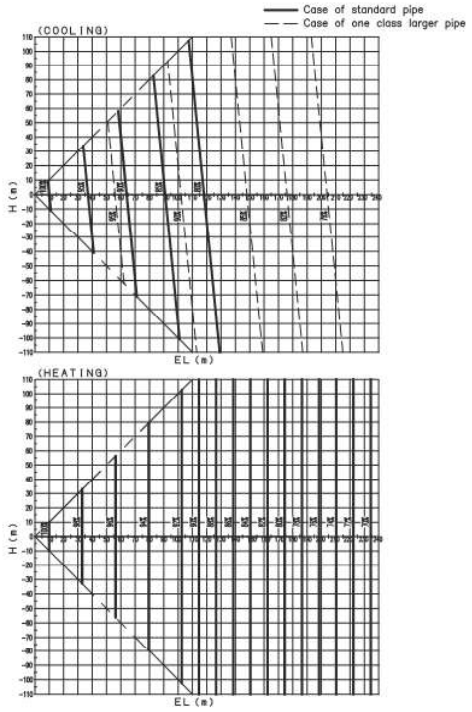
(Note 1) "Height Difference H" is positive when Outdoor Unit is located higher than Indoor Unit.
(Note 2) Use liquid pipe in the primary branch of which diameter is one class larger when actual pipe length exceeds 100m. Refer to Technical Information for more details.

(3) HEAT PUMP (High Ambient)

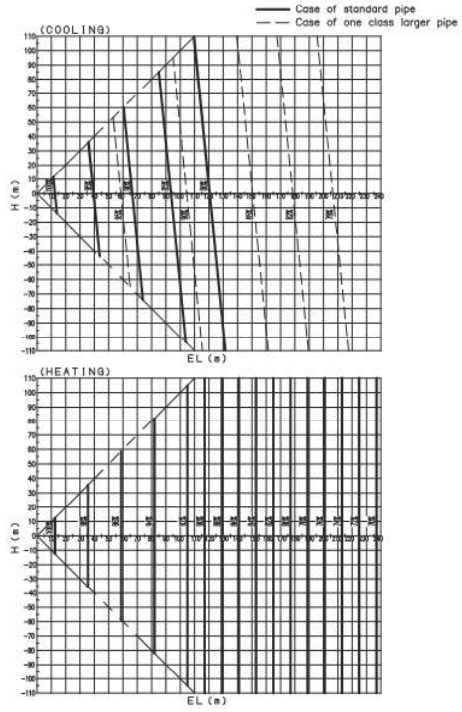
MODELS: RAS-080JNCBLI, RAS-100JNCBLI, RAS-120JNCBLI, RAS-140JNCBLI, RAS-160JNCBLI, RAS-180JNCBLI



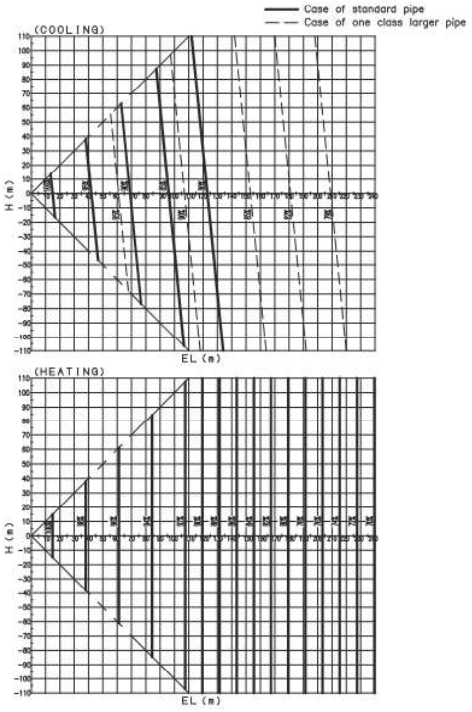
MODELS: RAS-200JNCBLI, RAS-220JNCBLI, RAS-240JNCBLI, RAS-260JNCBLI, RAS-280JNCBLI, RAS-300JNCBLI



MODELS: RAS-320JNCBLI, RAS-340JNCBLI, RAS-360JNCBLI, RAS-380JNCBLI, RAS-400JNCBLI, RAS-420JNCBLI, RAS-440JNCBLI



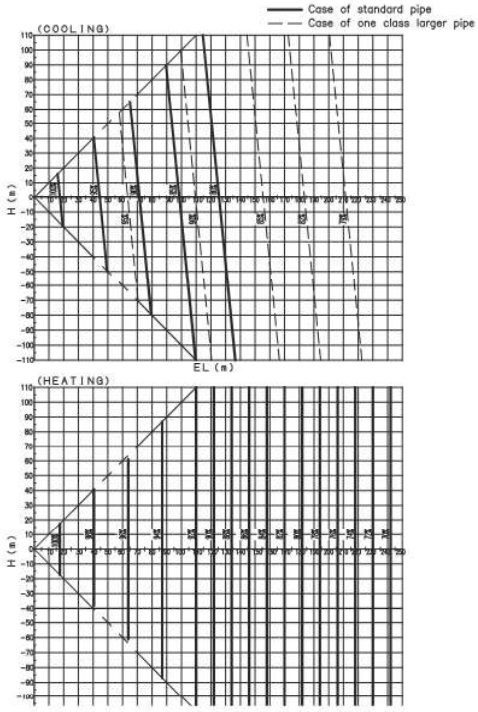
MODELS: RAS-460JNCBLI, RAS-480JNCBLI, RAS-500JNCBLI, RAS-520JNCBLI, RAS-540JNCBLI



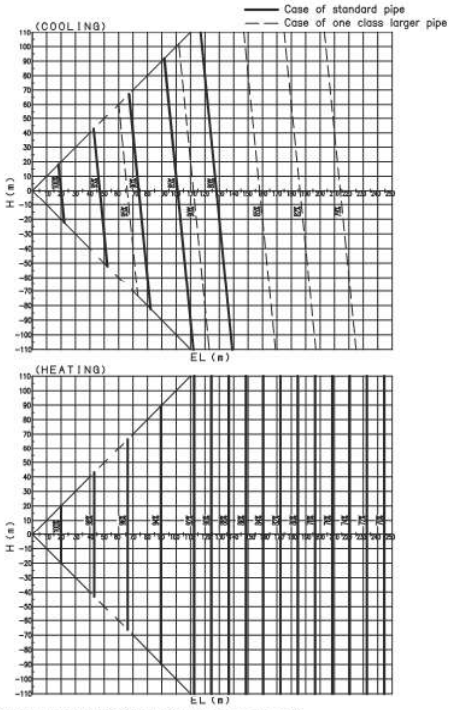
H: Heigh Difference Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

(Note 1) "Height Difference H" is positive when Outdoor Unit is located higher than Indoor Unit.
(Note 2) Use liquid pipe in the primary branch of which diameter is one class larger when actual pipe length exceeds 100m. Refer to Technical Information for more details.

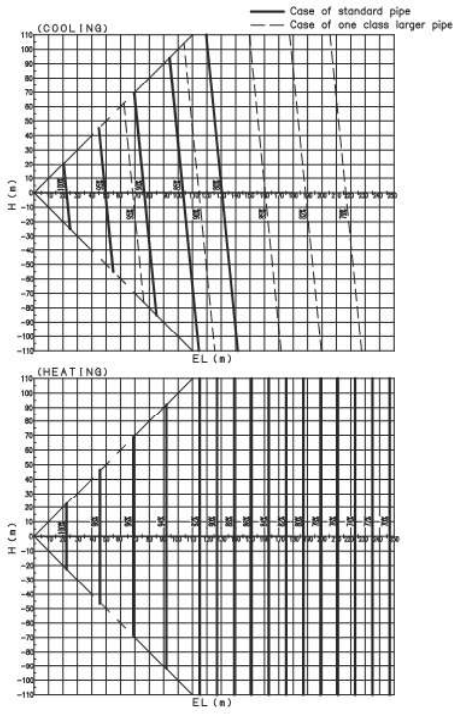
MODELS: RAS-560JNCBLI, RAS-580JNCBLI, RAS-600JNCBLI,
RAS-620JNCBLI, RAS-640JNCBLI, RAS-660JNCBLI,
RAS-680JNCBLI, RAS-700JNCBLI, RAS-720JNCBLI



MODELS: RAS-740JNCBLI, RAS-760JNCBLI, RAS-780JNCBLI,
RAS-800JNCBLI, RAS-820JNCBLI, RAS-840JNCBLI

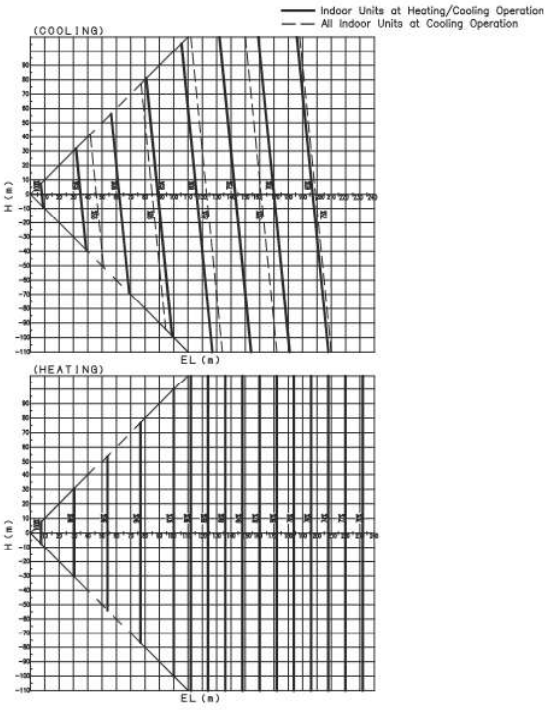


MODELS: RAS-860JNCBLI, RAS-880JNCBLI



(4) HEAT RECOVERY (Standard)

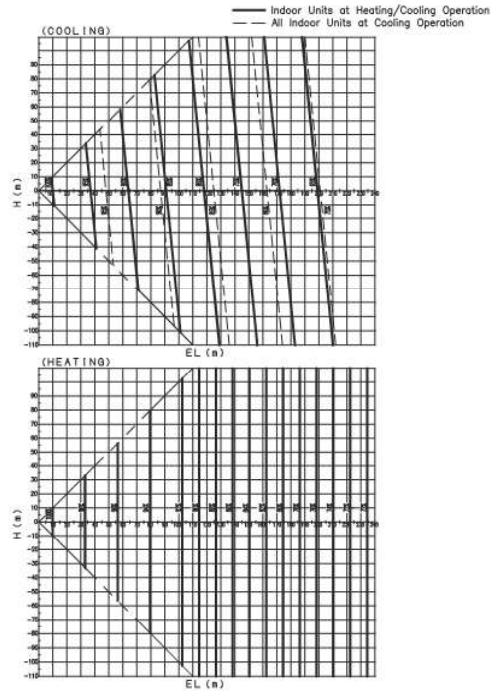
MODELS: RAS-080RNCC(L,R)W, RAS-100RNCC(L,R)W, RAS-120RNCC(L,R)W,
RAS-140RNCC(L,R)W, RAS-160RNCC(L,R)W, RAS-180RNCC(L,R)W



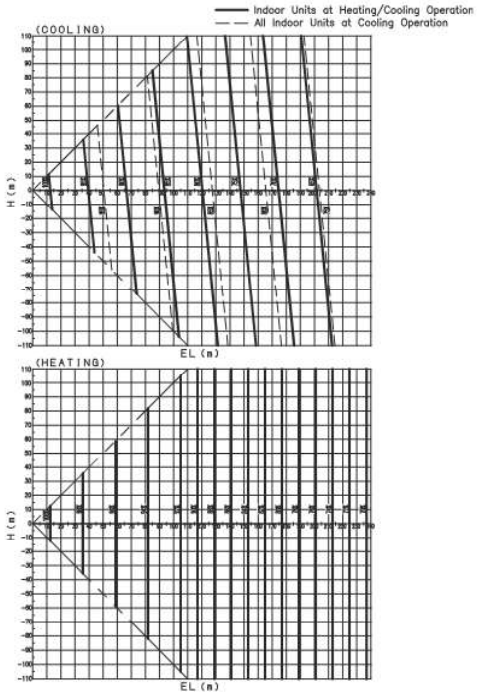
H: Heigh Difference Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

(Note 1) "Height Difference H" is positive when Outdoor Unit is located higher than Indoor Unit.
(Note 2) Use liquid pipe in the primary branch of which diameter is one class larger when actual pipe length exceeds 100m. Refer to Technical Information for more details.
(Note 3) In case of Heat Recovery System, Cooling Value during all indoor units are cooling mode is dashed line. If there are at least one indoor unit in Heating operation, Cooling Value is solid line.

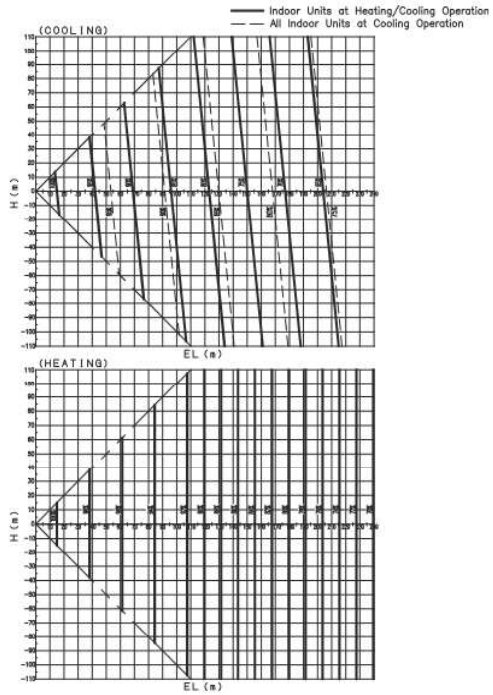
MODELS: RAS-200RNCC(L,R)W, RAS-220RNCC(L,R)W, RAS-240RNCC(L,R)W, RAS-260RNCC(L,R)W, RAS-280RNCC(L,R)W, RAS-300RNCC(L,R)W



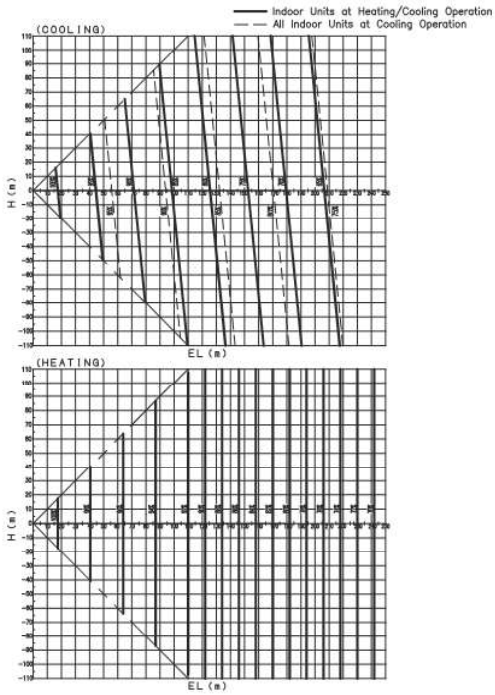
MODELS: RAS-320RNCC(L,R)W, RAS-340RNCC(L,R)W, RAS-360RNCC(L,R)W, RAS-380RNCC(L,R)W, RAS-400RNCC(L,R)W, RAS-420RNCC(L,R)W, RAS-440RNCC(L,R)W



MODELS: RAS-460RNCC(L,R)W, RAS-480RNCC(L,R)W, RAS-500RNCC(L,R)W, RAS-520RNCC(L,R)W, RAS-540RNCC(L,R)W



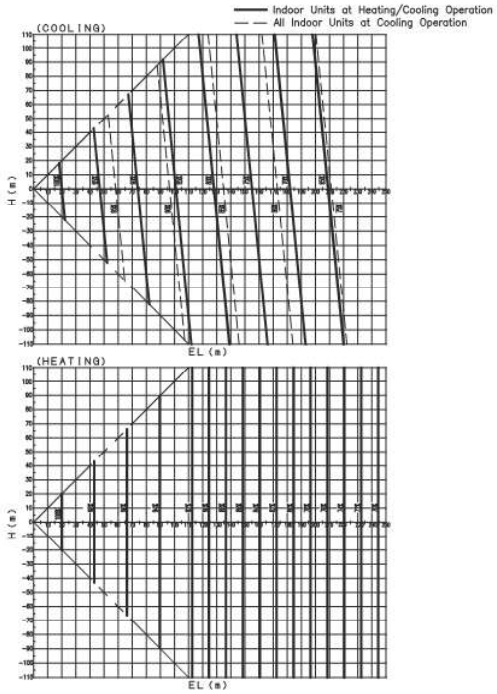
MODELS: RAS-560RNCC(L,R)W, RAS-580RNCC(L,R)W, RAS-600RNCC(L,R)W, RAS-620RNCC(L,R)W, RAS-640RNCC(L,R)W, RAS-660RNCC(L,R)W, RAS-680RNCC(L,R)W, RAS-700RNCC(L,R)W, RAS-720RNCC(L,R)W



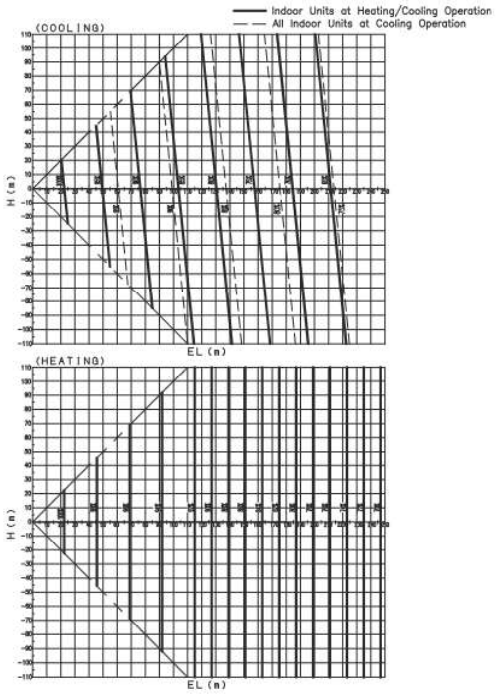
H: Heigh Difference Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

(Note 1) "Height Difference H" is positive when Outdoor Unit is located higher than Indoor Unit.
(Note 2) Use liquid pipe in the primary branch of which diameter is one class larger when actual pipe length exceeds 100m. Refer to Technical Information for more details.
(Note 3) In case of Heat Recovery System, Cooling Value during all indoor units are cooling mode is dashed line. If there are at least one indoor unit in Heating operation, Cooling Value is solid line.

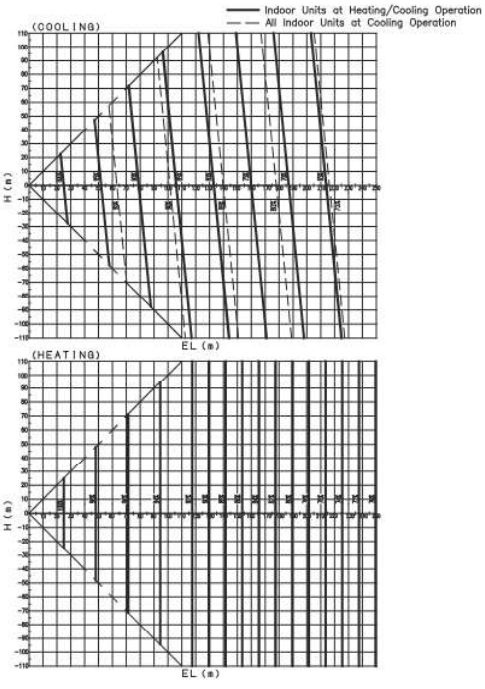
MODELS: RAS-740RNCC(L,R)W, RAS-760RNCC(L,R)W, RAS-780RNCC(L,R)W, RAS-800RNCC(L,R)W, RAS-820RNCC(L,R)W, RAS-840RNCC(L,R)W



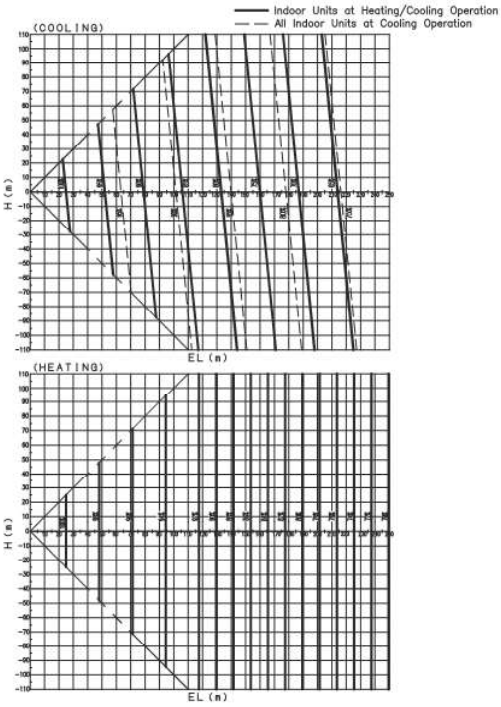
MODELS: RAS-860RNCC(L,R)W, RAS-880RNCC(L,R)W, RAS-900RNCC(L,R)W, RAS-920RNCC(L,R)W, RAS-940RNCC(L,R)W, RAS-960RNCC(L,R)W



MODELS: RAS-980RNCC(L,R)W, RAS-H00RNCC(L,R)W, RAS-H02RNCC(L,R)W, RAS-H04RNCC(L,R)W, RAS-H06RNCC(L,R)W, RAS-H08RNCC(L,R)W



MODELS: RAS-H10RNCC(L,R)W, RAS-H12RNCC(L,R)W

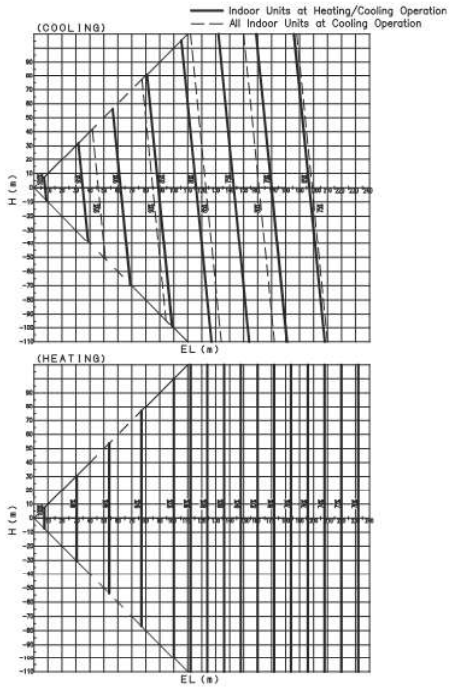


H: Heigh Difference Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

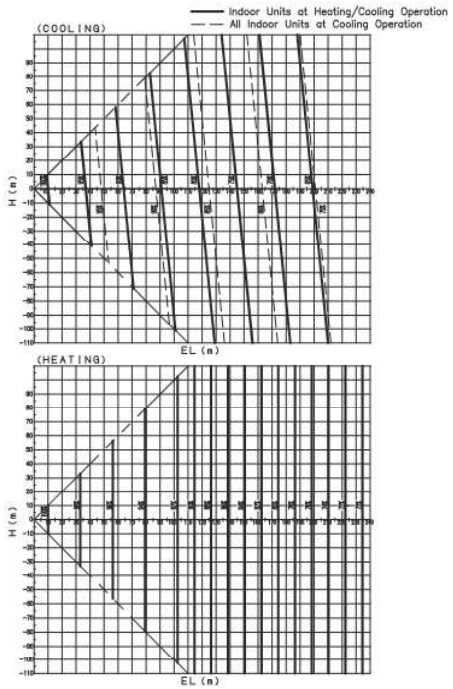
(Note 1) "Height Difference H" is positive when Outdoor Unit is located higher than Indoor Unit.
(Note 2) Use liquid pipe in the primary branch of which diameter is one class larger when actual pipe length exceeds 100m. Refer to Technical Information for more details.
(Note 3) In case of Heat Recovery System, Cooling Value during all indoor units are cooling mode is dashed line. If there are at least one indoor unit in Heating operation, Cooling Value is solid line.

(5) HEAT RECOVERY (High Efficiency)

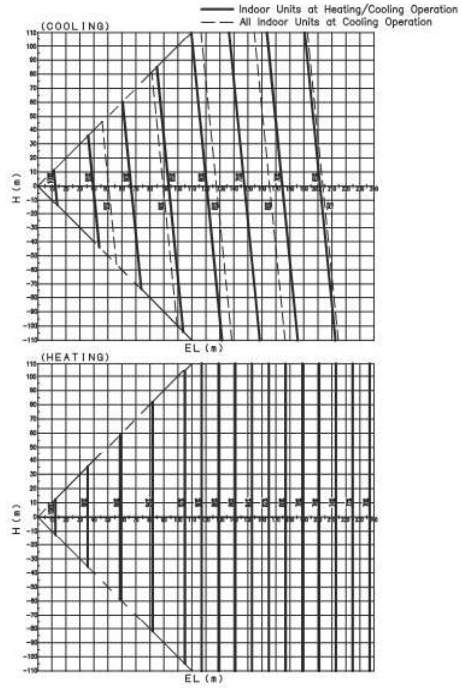
MODELS: RAS-080RNCBLW, RAS-100RNCBLW, RAS-120RNCBLW, RAS-140RNCBLW, RAS-160RNCBLW, RAS-180RNCBLW



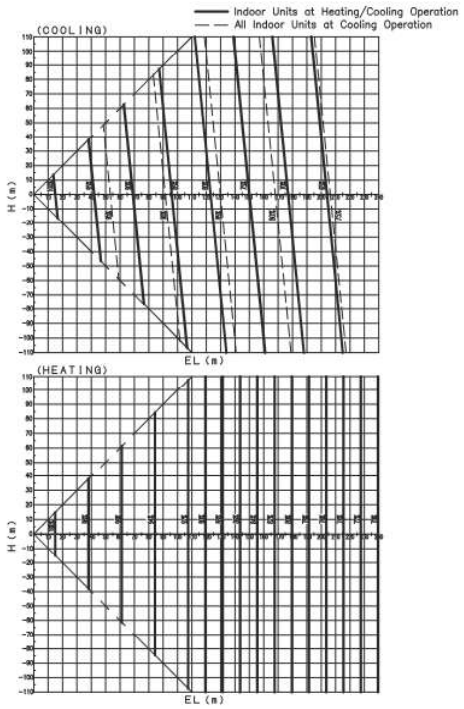
MODELS: RAS-200RNCBLW, RAS-220RNCBLW, RAS-240RNCBLW, RAS-260RNCBLW, RAS-280RNCBLW, RAS-300RNCBLW



MODELS: RAS-320RNCBLW, RAS-340RNCBLW, RAS-360RNCBLW, RAS-380RNCBLW, RAS-400RNCBLW, RAS-420RNCBLW, RAS-440RNCBLW



MODELS: RAS-460RNCBLW, RAS-480RNCBLW



H: Heigh Difference Between Indoor Unit and Outdoor Unit in Meters
EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

(Note 1) "Height Difference H" is positive when Outdoor Unit is located higher than Indoor Unit.
(Note 2) Use liquid pipe in the primary branch of which diameter is one class larger when actual pipe length exceeds 100m. Refer to Technical Information for more details.
(Note 3) In case of Heat Recovery System, Cooling Value during all indoor units are cooling mode is dashed line. If there are at least one indoor unit in Heating operation, Cooling Value is solid line.

6.5 Correction Factor According to Defrosting Operation

The heating capacity in the preceding paragraph, excludes the condition of the frost or the defrosting operation period.
In consideration of the frost or the defrosting operation, the heating capacity is corrected by the equation below.

Corrected Heating Capacity = Correction Factor x Heating Capacity

Outdoor Inlet Air Temp. (°C DB) (Humidity = 85 % RH)	-7	-5	-3	0	3	5	7
Correction Factor	0.95	0.93	0.87	0.79	0.82	0.88	1.0

NOTE:

- The correction factor is not available for the special condition like a snowfall or a operation in a transitional period.

6.6 Correction Factor According to Altitude

The capacity is impacted by the altitude.

Corrected Capacity = Correction Factor × Capacity

Altitude m (ft)	0 (0)	300 (984)	600 (1,969)	900 (2,953)	1200 (3,937)	1500 (4,921)	1800 (5,906)	2000 (6,562)
Correction Factor	1.00	0.97	0.93	0.90	0.87	0.84	0.81	0.79

7. Electrical Data

7.1 SEA and NEU

Heat Pump (Standard Type)

Model	Power Supply	Applicable Voltage		Cooling Operation		Heating Operation		Maximum Current
		Maximum	Minimum	IPT	RNC	IPT	RNC	
		(V)	(V)	(kW)	(A)	(kW)	(A)	(A)
RAS-080HNCCLW	3N~380-415V 50Hz	457	342	4.07	6.9	4.80	8.1	16.1
RAS-100HNCCLW	3N~380-415V 50Hz	457	342	5.73	10.2	6.18	10.9	20.0
RAS-120HNCCLW	3N~380-415V 50Hz	457	342	7.21	14.0	7.81	14.8	23.3
RAS-140HNCCLW	3N~380-415V 50Hz	457	342	8.55	16.9	9.91	19.1	27.7
RAS-160HNCCLW	3N~380-415V 50Hz	457	342	9.91	19.1	12.12	22.7	32.7
RAS-180HNCCLW	3N~380-415V 50Hz	457	342	11.71	22.2	13.04	24.5	39.7
RAS-200HNCCLW	3N~380-415V 50Hz	457	342	12.44	23.0	12.91	23.6	40.0
RAS-220HNCCLW	3N~380-415V 50Hz	457	342	13.84	25.6	15.64	28.6	42.7
RAS-240HNCCLW	3N~380-415V 50Hz	457	342	16.17	30.0	19.93	36.5	53.0
RAS-260HNCCLW	3N~380-415V 50Hz	457	342	18.73	34.7	24.23	44.4	58.3
RAS-280HNCCLW	3N~380-415V 50Hz	457	342	20.75	38.4	29.45	53.9	59.4
RAS-300HNCCLW	3N~380-415V 50Hz	457	342	18.92	36.2	20.85	39.3	63.0
RAS-320HNCCLW	3N~380-415V 50Hz	457	342	20.26	39.1	22.95	43.6	67.4
RAS-340HNCCLW	3N~380-415V 50Hz	457	342	21.62	41.3	25.16	47.2	72.4
RAS-360HNCCLW	3N~380-415V 50Hz	457	342	23.42	44.4	26.08	49.0	79.4
RAS-380HNCCLW	3N~380-415V 50Hz	457	342	23.75	44.7	27.76	51.3	75.4
RAS-400HNCCLW	3N~380-415V 50Hz	457	342	25.55	47.8	28.68	53.1	82.4
RAS-420HNCCLW	3N~380-415V 50Hz	457	342	27.88	52.2	32.97	61.0	92.7
RAS-440HNCCLW	3N~380-415V 50Hz	457	342	27.68	51.2	31.28	57.2	85.4
RAS-460HNCCLW	3N~380-415V 50Hz	457	342	30.01	55.6	35.57	65.1	95.7
RAS-480HNCCLW	3N~380-415V 50Hz	457	342	32.34	60.0	39.86	73.0	106.0
RAS-500HNCCLW	3N~380-415V 50Hz	457	342	34.90	64.7	44.16	80.9	111.3
RAS-520HNCCLW	3N~380-415V 50Hz	457	342	37.46	69.4	48.46	88.8	116.6
RAS-540HNCCLW	3N~380-415V 50Hz	457	342	39.48	73.1	53.68	98.3	117.7
RAS-560HNCCLW	3N~380-415V 50Hz	457	342	41.50	76.8	58.90	107.8	118.8
RAS-580HNCCLW	3N~380-415V 50Hz	457	342	37.26	70.0	41.72	77.6	122.1
RAS-600HNCCLW	3N~380-415V 50Hz	457	342	39.59	74.4	46.01	85.5	132.4
RAS-620HNCCLW	3N~380-415V 50Hz	457	342	39.39	73.4	44.32	81.7	125.1
RAS-640HNCCLW	3N~380-415V 50Hz	457	342	41.72	77.8	48.61	89.6	135.4
RAS-660HNCCLW	3N~380-415V 50Hz	457	342	44.05	82.2	52.90	97.5	145.7
RAS-680HNCCLW	3N~380-415V 50Hz	457	342	43.85	81.2	51.21	93.7	138.4
RAS-700HNCCLW	3N~380-415V 50Hz	457	342	46.18	85.6	55.50	101.6	148.7
RAS-720HNCCLW	3N~380-415V 50Hz	457	342	48.51	90.0	59.79	109.5	159.0
RAS-740HNCCLW	3N~380-415V 50Hz	457	342	51.07	94.7	64.09	117.4	164.3
RAS-760HNCCLW	3N~380-415V 50Hz	457	342	53.63	99.4	68.39	125.3	169.6
RAS-780HNCCLW	3N~380-415V 50Hz	457	342	56.19	104.1	72.69	133.2	174.9
RAS-800HNCCLW	3N~380-415V 50Hz	457	342	58.21	107.8	77.91	142.7	176.0
RAS-820HNCCLW	3N~380-415V 50Hz	457	342	60.23	111.5	83.13	152.2	177.1
RAS-840HNCCLW	3N~380-415V 50Hz	457	342	62.25	115.2	88.35	161.7	178.2
RAS-860HNCCLW	3N~380-415V 50Hz	457	342	55.56	103.4	64.25	118.2	178.1
RAS-880HNCCLW	3N~380-415V 50Hz	457	342	57.89	107.8	68.54	126.1	188.4
RAS-900HNCCLW	3N~380-415V 50Hz	457	342	60.22	112.2	72.83	134.0	198.7
RAS-920HNCCLW	3N~380-415V 50Hz	457	342	60.02	111.2	71.14	130.2	191.4
RAS-940HNCCLW	3N~380-415V 50Hz	457	342	62.35	115.6	75.43	138.1	201.7
RAS-960HNCCLW	3N~380-415V 50Hz	457	342	64.68	120.0	79.72	146.0	212.0

Model	Power Supply	Applicable Voltage		Cooling Operation		Heating Operation		Maximum Current
		Maximum	Minimum	IPT	RNC	IPT	RNC	
		(V)	(V)	(kW)	(A)	(kW)	(A)	(A)
RAS-980HNCCLW	3N~380-415V 50Hz	457	342	67.24	124.7	84.02	153.9	217.3
RAS-H00HNCCLW	3N~380-415V 50Hz	457	342	69.80	129.4	88.32	161.8	222.6
RAS-H02HNCCLW	3N~380-415V 50Hz	457	342	72.36	134.1	92.62	169.7	227.9
RAS-H04HNCCLW	3N~380-415V 50Hz	457	342	74.92	138.8	96.92	177.6	233.2
RAS-H06HNCCLW	3N~380-415V 50Hz	457	342	76.94	142.5	102.14	187.1	234.3
RAS-H08HNCCLW	3N~380-415V 50Hz	457	342	78.96	146.2	107.36	196.6	235.4
RAS-H10HNCCLW	3N~380-415V 50Hz	457	342	80.98	149.9	112.58	206.1	236.5
RAS-H12HNCCLW	3N~380-415V 50Hz	457	342	83.00	153.6	117.80	215.6	237.6

7. Electrical Data

Heat Pump (High Efficiency Type)

Model	Power Supply	Applicable Voltage		Cooling Operation		Heating Operation		Maximum Current
		Maximum	Minimum	IPT	RNC	IPT	RNC	
		(V)	(V)	(kW)	(A)	(kW)	(A)	(A)
RAS-080HNCBLW	3N~380-415V 50Hz	457	342	4.00	7.9	4.71	9.3	16.1
RAS-100HNCBLW	3N~380-415V 50Hz	457	342	5.44	9.7	6.08	10.7	19.5
RAS-120HNCBLW	3N~380-415V 50Hz	457	342	6.85	13.3	7.36	14.0	22.4
RAS-140HNCBLW	3N~380-415V 50Hz	457	342	8.41	16.6	9.29	17.9	28.0
RAS-160HNCBLW	3N~380-415V 50Hz	457	342	9.73	18.7	11.81	22.2	30.6
RAS-180HNCBLW	3N~380-415V 50Hz	457	342	10.68	20.3	11.08	20.8	35.0
RAS-200HNCBLW	3N~380-415V 50Hz	457	342	12.18	22.6	12.64	23.1	37.4
RAS-220HNCBLW	3N~380-415V 50Hz	457	342	13.79	24.9	15.30	27.0	41.2
RAS-240HNCBLW	3N~380-415V 50Hz	457	342	13.70	26.6	14.72	28.0	44.8
RAS-260HNCBLW	3N~380-415V 50Hz	457	342	15.26	29.9	16.65	31.9	50.4
RAS-280HNCBLW	3N~380-415V 50Hz	457	342	16.82	33.2	18.58	35.8	56.0
RAS-300HNCBLW	3N~380-415V 50Hz	457	342	18.14	35.3	21.10	40.1	58.6
RAS-320HNCBLW	3N~380-415V 50Hz	457	342	19.46	37.4	23.62	44.4	61.2
RAS-340HNCBLW	3N~380-415V 50Hz	457	342	20.41	39.0	22.89	43.0	65.6
RAS-360HNCBLW	3N~380-415V 50Hz	457	342	21.36	40.6	22.16	41.6	70.0
RAS-380HNCBLW	3N~380-415V 50Hz	457	342	22.86	42.9	23.72	43.9	72.4
RAS-400HNCBLW	3N~380-415V 50Hz	457	342	24.36	45.2	25.28	46.2	74.8
RAS-420HNCBLW	3N~380-415V 50Hz	457	342	25.97	47.5	27.94	50.1	78.6
RAS-440HNCBLW	3N~380-415V 50Hz	457	342	27.58	49.8	30.60	54.0	82.4
RAS-460HNCBLW	3N~380-415V 50Hz	457	342	27.87	54.0	32.91	62.3	89.2
RAS-480HNCBLW	3N~380-415V 50Hz	457	342	29.19	56.1	35.43	66.6	91.8
RAS-500HNCBLW	3N~380-415V 50Hz	457	342	30.14	57.7	34.70	65.2	96.2
RAS-520HNCBLW	3N~380-415V 50Hz	457	342	31.09	59.3	33.97	63.8	100.6
RAS-540HNCBLW	3N~380-415V 50Hz	457	342	32.04	60.9	33.24	62.4	105.0
RAS-560HNCBLW	3N~380-415V 50Hz	457	342	33.54	63.2	34.80	64.7	107.4
RAS-580HNCBLW	3N~380-415V 50Hz	457	342	35.04	65.5	36.36	67.0	109.8
RAS-600HNCBLW	3N~380-415V 50Hz	457	342	36.54	67.8	37.92	69.3	112.2
RAS-620HNCBLW	3N~380-415V 50Hz	457	342	38.15	70.1	40.58	73.2	116.0
RAS-640HNCBLW	3N~380-415V 50Hz	457	342	39.76	72.4	43.24	77.1	119.8
RAS-660HNCBLW	3N~380-415V 50Hz	457	342	41.37	74.7	45.90	81.0	123.6
RAS-680HNCBLW	3N~380-415V 50Hz	457	342	40.45	77.5	42.53	80.3	133.0
RAS-700HNCBLW	3N~380-415V 50Hz	457	342	41.77	79.6	45.05	84.6	135.6
RAS-720HNCBLW	3N~380-415V 50Hz	457	342	42.72	81.2	44.32	83.2	140.0
RAS-740HNCBLW	3N~380-415V 50Hz	457	342	44.22	83.5	45.88	85.5	142.4
RAS-760HNCBLW	3N~380-415V 50Hz	457	342	45.72	85.8	47.44	87.8	144.8
RAS-780HNCBLW	3N~380-415V 50Hz	457	342	47.22	88.1	49.00	90.1	147.2
RAS-800HNCBLW	3N~380-415V 50Hz	457	342	48.72	90.4	50.56	92.4	149.6
RAS-820HNCBLW	3N~380-415V 50Hz	457	342	50.33	92.7	53.22	96.3	153.4
RAS-840HNCBLW	3N~380-415V 50Hz	457	342	51.94	95.0	55.88	100.2	157.2
RAS-860HNCBLW	3N~380-415V 50Hz	457	342	53.55	97.3	58.54	104.1	161.0
RAS-880HNCBLW	3N~380-415V 50Hz	457	342	55.16	99.6	61.20	108.0	164.8

7.2 MEA

Heat Pump (High Ambient Type)

Model	Power Supply	Applicable Voltage		Cooling Operation				Heating Operation		Maximum Current
		Maximum	Minimum	IPT (at 35℃)	IPT (at 46℃)	RNC (at 35℃)	RNC (at 46℃)	IPT	RNC	
		(V)	(V)	(kW)	(kW)	(A)	(A)	(kW)	(A)	(A)
RAS-080JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	4.46	6.26	7.4	10.5	4.67	7.8	16.1
RAS-100JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	5.83	6.99	9.7	11.7	6.47	10.8	19.5
RAS-120JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	7.30	8.96	12.2	15.0	8.10	13.5	22.4
RAS-140JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	9.04	10.04	15.1	16.8	10.34	17.3	28.0
RAS-160JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	10.49	11.94	17.5	19.9	12.24	20.4	30.6
RAS-180JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	11.42	13.17	19.1	22.0	12.29	20.5	35.0
RAS-200JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	13.03	14.82	21.8	24.7	14.00	23.4	37.4
RAS-220JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	15.01	16.71	25.1	27.9	17.01	28.4	41.2
RAS-240JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	14.60	17.92	24.4	30.0	16.20	27.0	44.8
RAS-260JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	16.34	19.00	27.3	31.8	18.44	30.8	50.4
RAS-280JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	18.08	20.08	30.2	33.6	20.68	34.6	56.0
RAS-300JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	19.53	21.98	32.6	36.7	22.58	37.7	58.6
RAS-320JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	20.98	23.88	35.0	39.8	24.48	40.8	61.2
RAS-340JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	21.91	25.11	36.6	41.9	24.53	40.9	65.6
RAS-360JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	22.84	26.34	38.2	44.0	24.58	41.0	70.0
RAS-380JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	24.45	27.99	40.9	46.7	26.29	43.9	72.4
RAS-400JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	26.06	29.64	43.6	49.4	28.00	46.8	74.8
RAS-420JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	28.04	31.53	46.9	52.6	31.01	51.8	78.6
RAS-440JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	30.02	33.42	50.2	55.8	34.02	56.8	82.4
RAS-460JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	30.02	33.92	50.1	56.6	34.82	58.1	89.2
RAS-480JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	31.47	35.82	52.5	59.7	36.72	61.2	91.8
RAS-500JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	32.40	37.05	54.1	61.8	36.77	61.3	96.2
RAS-520JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	33.33	38.28	55.7	63.9	36.82	61.4	100.6
RAS-540JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	34.26	39.51	57.3	66.0	36.87	61.5	105.0
RAS-560JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	35.87	41.16	60.0	68.7	38.58	64.4	107.4
RAS-580JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	37.48	42.81	62.7	71.4	40.29	67.3	109.8
RAS-600JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	39.09	44.46	65.4	74.1	42.00	70.2	112.2
RAS-620JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	41.07	46.35	68.7	77.3	45.01	75.2	116.0
RAS-640JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	43.05	48.24	72.0	80.5	48.02	80.2	119.8
RAS-660JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	45.03	50.13	75.3	83.7	51.03	85.2	123.6
RAS-680JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	43.30	49.55	72.4	82.8	47.21	78.8	133.0
RAS-700JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	44.75	51.45	74.8	85.9	49.11	81.9	135.6
RAS-720JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	45.68	52.68	76.4	88.0	49.16	82.0	140.0
RAS-740JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	47.29	54.33	79.1	90.7	50.87	84.9	142.4
RAS-760JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	48.90	55.98	81.8	93.4	52.58	87.8	144.8

7. Electrical Data

Model	Power Supply	Applicable Voltage		Cooling Operation				Heating Operation		Maximum Current
		Maximum	Minimum	IPT (at 35℃)	IPT (at 46℃)	RNC (at 35℃)	RNC (at 46℃)	IPT	RNC	
		(V)	(V)	(kW)	(kW)	(A)	(A)	(kW)	(A)	(A)
RAS-780JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	50.51	57.63	84.5	96.1	54.29	90.7	147.2
RAS-800JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	52.12	59.28	87.2	98.8	56.00	93.6	149.6
RAS-820JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	54.10	61.17	90.5	102.0	59.01	98.6	153.4
RAS-840JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	56.08	63.06	93.8	105.2	62.02	103.6	157.2
RAS-860JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	58.06	64.95	97.1	108.4	65.03	108.6	161.0
RAS-880JNCBLI	3N~ 380-415V 50Hz /3N~ 380V 60Hz	457	342	60.04	66.84	100.4	111.6	68.04	113.6	164.8

Heat Pump (Standard Type)

Model	Power Supply	Applicable Voltage		Cooling Operation		Heating Operation		Maximum Current
		Maximum	Minimum	IPT	RNC	IPT	RNC	
		(V)	(V)	(kW)	(A)	(kW)	(A)	(A)
RAS-080HNCCLW	3N~380-415V 50Hz	457	342	4.07	6.9	4.80	8.1	16.1
RAS-100HNCCLW	3N~380-415V 50Hz	457	342	5.73	10.2	6.18	10.9	20.0
RAS-120HNCCLW	3N~380-415V 50Hz	457	342	7.21	14.0	7.81	14.8	23.3
RAS-140HNCCLW	3N~380-415V 50Hz	457	342	8.55	16.9	9.91	19.1	27.7
RAS-160HNCCLW	3N~380-415V 50Hz	457	342	9.91	19.1	12.12	22.7	32.7
RAS-180HNCCLW	3N~380-415V 50Hz	457	342	11.71	22.2	13.04	24.5	39.7
RAS-200HNCCLW	3N~380-415V 50Hz	457	342	12.44	23.0	12.91	23.6	40.0
RAS-220HNCCLW	3N~380-415V 50Hz	457	342	13.84	25.6	15.64	28.6	42.7
RAS-240HNCCLW	3N~380-415V 50Hz	457	342	16.17	30.0	19.93	36.5	53.0
RAS-260HNCCLW	3N~380-415V 50Hz	457	342	18.73	34.7	24.23	44.4	58.3
RAS-280HNCCLW	3N~380-415V 50Hz	457	342	20.75	38.4	29.45	53.9	59.4
RAS-300HNCCLW	3N~380-415V 50Hz	457	342	18.92	36.2	20.85	39.3	63.0
RAS-320HNCCLW	3N~380-415V 50Hz	457	342	20.26	39.1	22.95	43.6	67.4
RAS-340HNCCLW	3N~380-415V 50Hz	457	342	21.62	41.3	25.16	47.2	72.4
RAS-360HNCCLW	3N~380-415V 50Hz	457	342	23.42	44.4	26.08	49.0	79.4
RAS-380HNCCLW	3N~380-415V 50Hz	457	342	23.75	44.7	27.76	51.3	75.4
RAS-400HNCCLW	3N~380-415V 50Hz	457	342	25.55	47.8	28.68	53.1	82.4
RAS-420HNCCLW	3N~380-415V 50Hz	457	342	27.88	52.2	32.97	61.0	92.7
RAS-440HNCCLW	3N~380-415V 50Hz	457	342	27.68	51.2	31.28	57.2	85.4
RAS-460HNCCLW	3N~380-415V 50Hz	457	342	30.01	55.6	35.57	65.1	95.7
RAS-480HNCCLW	3N~380-415V 50Hz	457	342	32.34	60.0	39.86	73.0	106.0
RAS-500HNCCLW	3N~380-415V 50Hz	457	342	34.90	64.7	44.16	80.9	111.3
RAS-520HNCCLW	3N~380-415V 50Hz	457	342	37.46	69.4	48.46	88.8	116.6
RAS-540HNCCLW	3N~380-415V 50Hz	457	342	39.48	73.1	53.68	98.3	117.7
RAS-560HNCCLW	3N~380-415V 50Hz	457	342	41.50	76.8	58.90	107.8	118.8
RAS-580HNCCLW	3N~380-415V 50Hz	457	342	37.26	70.0	41.72	77.6	122.1
RAS-600HNCCLW	3N~380-415V 50Hz	457	342	39.59	74.4	46.01	85.5	132.4
RAS-620HNCCLW	3N~380-415V 50Hz	457	342	39.39	73.4	44.32	81.7	125.1
RAS-640HNCCLW	3N~380-415V 50Hz	457	342	41.72	77.8	48.61	89.6	135.4
RAS-660HNCCLW	3N~380-415V 50Hz	457	342	44.05	82.2	52.90	97.5	145.7
RAS-680HNCCLW	3N~380-415V 50Hz	457	342	43.85	81.2	51.21	93.7	138.4
RAS-700HNCCLW	3N~380-415V 50Hz	457	342	46.18	85.6	55.50	101.6	148.7
RAS-720HNCCLW	3N~380-415V 50Hz	457	342	48.51	90.0	59.79	109.5	159.0
RAS-740HNCCLW	3N~380-415V 50Hz	457	342	51.07	94.7	64.09	117.4	164.3
RAS-760HNCCLW	3N~380-415V 50Hz	457	342	53.63	99.4	68.39	125.3	169.6
RAS-780HNCCLW	3N~380-415V 50Hz	457	342	56.19	104.1	72.69	133.2	174.9
RAS-800HNCCLW	3N~380-415V 50Hz	457	342	58.21	107.8	77.91	142.7	176.0
RAS-820HNCCLW	3N~380-415V 50Hz	457	342	60.23	111.5	83.13	152.2	177.1
RAS-840HNCCLW	3N~380-415V 50Hz	457	342	62.25	115.2	88.35	161.7	178.2
RAS-860HNCCLW	3N~380-415V 50Hz	457	342	55.56	103.4	64.25	118.2	178.1
RAS-880HNCCLW	3N~380-415V 50Hz	457	342	57.89	107.8	68.54	126.1	188.4
RAS-900HNCCLW	3N~380-415V 50Hz	457	342	60.22	112.2	72.83	134.0	198.7
RAS-920HNCCLW	3N~380-415V 50Hz	457	342	60.02	111.2	71.14	130.2	191.4
RAS-940HNCCLW	3N~380-415V 50Hz	457	342	62.35	115.6	75.43	138.1	201.7
RAS-960HNCCLW	3N~380-415V 50Hz	457	342	64.68	120.0	79.72	146.0	212.0
RAS-980HNCCLW	3N~380-415V 50Hz	457	342	67.24	124.7	84.02	153.9	217.3
RAS-H00HNCCLW	3N~380-415V 50Hz	457	342	69.80	129.4	88.32	161.8	222.6
RAS-H02HNCCLW	3N~380-415V 50Hz	457	342	72.36	134.1	92.62	169.7	227.9
RAS-H04HNCCLW	3N~380-415V 50Hz	457	342	74.92	138.8	96.92	177.6	233.2

7. Electrical Data

Model	Power Supply	Applicable Voltage		Cooling Operation		Heating Operation		Maximum Current
		Maximum	Minimum	IPT	RNC	IPT	RNC	
		(V)	(V)	(kW)	(A)	(kW)	(A)	(A)
RAS-H06HNCCLW	3N~380-415V 50Hz	457	342	76.94	142.5	102.14	187.1	234.3
RAS-H08HNCCLW	3N~380-415V 50Hz	457	342	78.96	146.2	107.36	196.6	235.4
RAS-H10HNCCLW	3N~380-415V 50Hz	457	342	80.98	149.9	112.58	206.1	236.5
RAS-H12HNCCLW	3N~380-415V 50Hz	457	342	83.00	153.6	117.80	215.6	237.6

Heat Recovery (Standard Type)

Model	Power Supply	Applicable Voltage		Cooling Operation		Heating Operation		Maximum Current
		Maximum	Minimum	IPT	RNC	IPT	RNC	
		(V)	(V)	(kW)	(A)	(kW)	(A)	(A)
RAS-080RNCCLW	3N~380-415V 50Hz	457	342	4.07	6.9	4.80	8.1	16.1
RAS-100RNCCLW	3N~380-415V 50Hz	457	342	5.73	10.2	6.18	10.9	20.0
RAS-120RNCCLW	3N~380-415V 50Hz	457	342	7.21	14.0	7.81	14.8	23.3
RAS-140RNCCLW	3N~380-415V 50Hz	457	342	8.55	16.9	9.91	19.1	27.7
RAS-160RNCCLW	3N~380-415V 50Hz	457	342	9.91	19.1	12.12	22.7	32.7
RAS-180RNCCLW	3N~380-415V 50Hz	457	342	11.71	22.2	13.04	24.5	39.7
RAS-200RNCCLW	3N~380-415V 50Hz	457	342	12.44	23.0	12.91	23.6	40.0
RAS-220RNCCLW	3N~380-415V 50Hz	457	342	13.84	25.6	15.64	28.6	42.7
RAS-240RNCCLW	3N~380-415V 50Hz	457	342	16.17	30.0	19.93	36.5	53.0
RAS-260RNCCLW	3N~380-415V 50Hz	457	342	18.73	34.7	24.23	44.4	58.3
RAS-280RNCCLW	3N~380-415V 50Hz	457	342	20.75	38.4	29.45	53.9	59.4
RAS-300RNCCLW	3N~380-415V 50Hz	457	342	18.92	36.2	20.85	39.3	63.0
RAS-320RNCCLW	3N~380-415V 50Hz	457	342	20.26	39.1	22.95	43.6	67.4
RAS-340RNCCLW	3N~380-415V 50Hz	457	342	21.62	41.3	25.16	47.2	72.4
RAS-360RNCCLW	3N~380-415V 50Hz	457	342	23.42	44.4	26.08	49.0	79.4
RAS-380RNCCLW	3N~380-415V 50Hz	457	342	23.75	44.7	27.76	51.3	75.4
RAS-400RNCCLW	3N~380-415V 50Hz	457	342	25.55	47.8	28.68	53.1	82.4
RAS-420RNCCLW	3N~380-415V 50Hz	457	342	27.88	52.2	32.97	61.0	92.7
RAS-440RNCCLW	3N~380-415V 50Hz	457	342	27.68	51.2	31.28	57.2	85.4
RAS-460RNCCLW	3N~380-415V 50Hz	457	342	30.01	55.6	35.57	65.1	95.7
RAS-480RNCCLW	3N~380-415V 50Hz	457	342	32.34	60.0	39.86	73.0	106.0
RAS-500RNCCLW	3N~380-415V 50Hz	457	342	34.90	64.7	44.16	80.9	111.3
RAS-520RNCCLW	3N~380-415V 50Hz	457	342	37.46	69.4	48.46	88.8	116.6
RAS-540RNCCLW	3N~380-415V 50Hz	457	342	39.48	73.1	53.68	98.3	117.7
RAS-560RNCCLW	3N~380-415V 50Hz	457	342	41.50	76.8	58.90	107.8	118.8
RAS-580RNCCLW	3N~380-415V 50Hz	457	342	37.26	70.0	41.72	77.6	122.1
RAS-600RNCCLW	3N~380-415V 50Hz	457	342	39.59	74.4	46.01	85.5	132.4
RAS-620RNCCLW	3N~380-415V 50Hz	457	342	39.39	73.4	44.32	81.7	125.1
RAS-640RNCCLW	3N~380-415V 50Hz	457	342	41.72	77.8	48.61	89.6	135.4
RAS-660RNCCLW	3N~380-415V 50Hz	457	342	44.05	82.2	52.90	97.5	145.7
RAS-680RNCCLW	3N~380-415V 50Hz	457	342	43.85	81.2	51.21	93.7	138.4
RAS-700RNCCLW	3N~380-415V 50Hz	457	342	46.18	85.6	55.50	101.6	148.7
RAS-720RNCCLW	3N~380-415V 50Hz	457	342	48.51	90.0	59.79	109.5	159.0
RAS-740RNCCLW	3N~380-415V 50Hz	457	342	51.07	94.7	64.09	117.4	164.3
RAS-760RNCCLW	3N~380-415V 50Hz	457	342	53.63	99.4	68.39	125.3	169.6
RAS-780RNCCLW	3N~380-415V 50Hz	457	342	56.19	104.1	72.69	133.2	174.9
RAS-800RNCCLW	3N~380-415V 50Hz	457	342	58.21	107.8	77.91	142.7	176.0
RAS-820RNCCLW	3N~380-415V 50Hz	457	342	60.23	111.5	83.13	152.2	177.1
RAS-840RNCCLW	3N~380-415V 50Hz	457	342	62.25	115.2	88.35	161.7	178.2
RAS-860RNCCLW	3N~380-415V 50Hz	457	342	55.56	103.4	64.25	118.2	178.1
RAS-880RNCCLW	3N~380-415V 50Hz	457	342	57.89	107.8	68.54	126.1	188.4
RAS-900RNCCLW	3N~380-415V 50Hz	457	342	60.22	112.2	72.83	134.0	198.7
RAS-920RNCCLW	3N~380-415V 50Hz	457	342	60.02	111.2	71.14	130.2	191.4
RAS-940RNCCLW	3N~380-415V 50Hz	457	342	62.35	115.6	75.43	138.1	201.7
RAS-960RNCCLW	3N~380-415V 50Hz	457	342	64.68	120.0	79.72	146.0	212.0
RAS-980RNCCLW	3N~380-415V 50Hz	457	342	67.24	124.7	84.02	153.9	217.3
RAS-H00RNCCLW	3N~380-415V 50Hz	457	342	69.80	129.4	88.32	161.8	222.6
RAS-H02RNCCLW	3N~380-415V 50Hz	457	342	72.36	134.1	92.62	169.7	227.9
RAS-H04RNCCLW	3N~380-415V 50Hz	457	342	74.92	138.8	96.92	177.6	233.2