Sky Air Alpha-series Air Conditioning Technical Data

RZAG-NV1

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RZAG-NV1

1 Features

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- Unique, low-height single fan range
- Compact dimensions allow almost unoticeable installation
- Market-leading serviceability and handling, thanks to wide access area, 7-segment display and additional handle
- Top efficiency: - Energy labels up to A++ in both cooling and heating - compressor offers substantial efficiency improvements
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a lower refrigerant charge
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits high sensible, infrastructure cooling applications
- Replace existing systems with R-32 technology without needing to replace the piping
- Guarantees operation in both heating and cooling mode down to -20°C
- Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- Maximum piping length up to 85m
- Outdoor units for pair, twin, triple, double twin application

Infrastructure cooling

Inverter

Auto cooling-heating changeover

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Technical Specifications					RZAG71NV1	RZAG100NV1	RZAG125NV1	RZAG140NV1
Casing	Colour				Ivory white			
	Material				Painted galvanized steel plate			
Dimensions	Unit	Height		mm	870			
		Width		mm	1,100			
		Depth		mm	460			
	Packed unit	Height		mm	1,043			
		Width		mm	1,205			
		Depth		mm	509			
Weight	Unit			kg	81	85	95	
	Packed unit			kg	92	95	106	
Packing	Weight			kg	10			
Heat exchanger	Fin	Type			WF fin			
		Treatment			Anti-corrosion treatment (PE)			
Fan	Type				Propeller			
	Discharge direction				Horizontal			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	68	67	80	87
		Heating	Nom.	m^3/min	75	82	80	87
			Partial	m^3/min	-		45 (1)	
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Output			W	234			
	Drive				Direct drive			
Compressor	Quantity				1			
	Type				Hermetically sealed swing compressor			
Operation range	Cooling	Ambient	Min.	°CDB	-20			
			Max.	°CDB	52			
	Heating	Ambient	Min.	°CWB	-20			
			Max.	°CWB	18			
Sound power level	Cooling			dBA	64	66	69	70
	Heating			dBA	-		68 (1)	71 (1)
Sound pressure level	Cooling	Nom.		dBA	46	47	49	50
	Heating	Nom.		dBA	48	50	52	
Refrigerant	Type				R-32			
	Charge			kg	3.20		3.70	
	Charge			TCO2Eq	2.16		2.50	
	Control				Expansion valve (electronic type)			
	GWP				675			
	Circuits	Quantity			1			
Refrigerant oil	Type				FW68DA			
	Charged volume			l	0.9		1.4	
Piping connections	Liquid	Quantity			1			
		Type			Flare connection			
		OD		mm	9,52			
	Gas	Quantity			1			
Piping connections	Gas	Type			Flare connection			
		OD		mm	15.9			
	Drain	Quantity			8			
		Type			Hole			
		OD		mm	26			
	Piping length	OU - IU	Min.	m	3			
			Max.	m	55	85		
		System	Equivalent	m	75	100		
			Chargeless	m	40			
	Additional refrigerant charge			kg/m	See installation manual			
	Level difference	IU - OU	Max.	m	30			
		IU - IU		m	0.5			
	Heat insulation				Both liquid and gas pipes			
Defrost method					Reversed cycle			
Defrost control					Sensor for outdoor heat exchanger temperature			
Capacity control	Method				Inverter controlled			
PED	Category				Category II			
	Most critical part	Name			Accumulator			
		Ps*V		Bar*l	136.5	143.0		
Safety devices	Item	01			High pressure switch			
		02			Low pressure switch			
		03			Fan driver overload protector			
		04			Fuse			
		05			Compressor motor thermal protector			

Standard accessories: Tie-wraps; Quantity: 2;

Standard accessories: Installation manual; Quantity: 1;

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Standard accessories: General safety precautions; Quantity: 1;

Standard accessories: Peel off F-gas label; Quantity: 1;

Standard accessories: Refrigerant label for F-gas regulation; Quantity: 1;

Electrical Specifications				RZAG71NV1	RZAG100NV1	RZAG125NV1	RZAG140NV1
Power supply	Name			V1			
	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	220-240			
	Voltage range		V	198			
			V	264			
Current	Zmax	List		Complies to EN61000-3-11			
Wiring connections	For power supply	Remark		See installation manual outdoor unit			
	For connection with indoor	Remark		See installation manual outdoor unit			
Power supply intake				See installation manual outdoor unit			
Current - 50Hz	Maximum fuse amps (MFA)		A	20	32		

(1)According to ENER Lot 21

Capacity and power input				FCAHG71H + RZAG71NV1	FCAHG100H + RZAG71NV1	FCAHG100H + RZAG100NV1	FCAHG140H + RZAG100NV1	FCAHG125H + RZAG125NV1	FCAHG140H + RZAG140NV1
Cooling capacity	Nom.		kW	6.80 (1)		9.50 (1)		12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)		10.8 (2)		13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++				-	
	Capacity	Pdesign	kW	6.80		9.50		12.1	13.4
	SEER			7.90	7.05	7.70	7.49	8.02	7.93
	ηs,c		%	-				318	314
	Annual energy consumption		kWh/a	301	338	432	444	905	1,014
Space heating (Average climate)	Energy efficiency class			A++	A+	A++		-	
	Capacity	Pdesign	kW	4.70		9.52	7.80	9.52	
	SCOP/A			4.61	4.20	4.75	4.70	4.53	4.44
	SCOPnet/A			4.61	4.20	4.75	4.70	4.53	4.44
	ηs,h		%	-				178	175
	Annual energy consumption		kWh/a	1,427	1,567	2,805	2,324	2,943	3,002
	Required back up heating cap at design conditions		kW	0.00					
Space cooling	A	Pdc	kW	6.80		9.50		12.10	13.40
	Condition	EERd		4.13	4.14	4.23	4.04	3.84	3.68
	(35°C - 27/19)	Power input	kW	1.65	1.64	2.25	2.35	3.15	3.64
	B	Pdc	kW	5.01	5.03	7.00	7.03	8.92	9.88
	Condition	EERd		5.96	6.00	6.14	5.96	5.81	5.77
	(30°C - 27/19)	Power input	kW	0.84		1.14	1.18	1.54	1.71
	C	Pdc	kW	3.22	3.20	4.50	4.46	5.74	6.35
	Condition	EERd		10.19	8.66	9.32	9.12	9.63	9.37
	(25°C - 27/19)	Power input	kW	0.32	0.37	0.48	0.49	0.60	0.68
	D	Pdc	kW	2.64	2.72	3.71	3.59	3.61	
	Condition	EERd		14.60	10.83	12.87	12.38	13.99	14.07
	(20°C - 27/19)	Power input	kW	0.18	0.25	0.29		0.26	

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Capacity and power input					FCAHG71H + RZAG71NV1	FCAHG100H + RZAG71NV1	FCAHG100H + RZAG100NV1	FCAHG140H + RZAG100NV1	FCAHG125H + RZAG125NV1	FCAHG140H + RZAG140NV1
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10					
		Pdh (declared heating cap)		kW	4.70		9.52	7.80	9.52	
		COPd (declared COP)			2.97	2.94	2.79	2.95	2.22	2.23
		Power input		kW	1.58	1.60	3.42	2.64	4.29	4.27
	TBivalent	Tbiv (bivalent temperature)		°C	-10					
		Pdh (declared heating cap)		kW	4.70		9.52	7.80	9.52	
		COPd (declared COP)			2.97	2.94	2.79	2.95	2.22	2.23
		Power input		kW	1.58	1.60	3.42	2.64	4.29	4.27
	A Condition (-7°C)	Pdh (declared heating cap)		kW	4.16	4.14	8.42	6.86	8.42	
		COPd (declared COP)			3.32	3.30	3.14	3.26	2.84	2.80
		Power input		kW	1.25		2.69	2.10	2.97	3.01
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.53	2.54	5.13	4.21	5.13	
		COPd (declared COP)			4.57	4.30	4.79	4.75	4.58	4.42
		Power input		kW	0.55	0.59	1.07	0.89	1.12	1.16
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.79	1.89	3.30	2.73	3.30	
		COPd (declared COP)			5.48	4.73	5.81	5.59	5.79	5.78
		Power input		kW	0.33	0.40	0.57	0.49	0.57	
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.01	2.11	2.58		2.60	
		COPd (declared COP)			7.02	5.75	6.86	6.64	6.62	6.60
Space heating (Average climate)	D Condition (12°C)	Power input		kW	0.29	0.37	0.38		0.39	
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000					
		Heating	PCK	kW	0.000					
	Off mode	Cooling	POFF	kW	0.009					
		Heating	POFF	kW	0.009					
	Standby mode	Cooling	PSB	kW	0.009					
		Heating	PSB	kW	0.009					
	Thermostat-off mode	Cooling	PTO	kW	0.005					
		Heating	PTO	kW	0.013					
Indication if the heater is equipped with a supplementary heater (pair application)					No					
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0					
Cooling	Cdc (Degradation cooling)				0.25					
Heating	Cdh (Degradation heating)				0.25					
Cooling function included					Yes					
Heating function included					Yes					
Average climate included					Yes					
Cold season included					No					
Warm season included					No					

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

Capacity and power input				FCAG71B + RZAG71NV1	FCAG100B + RZAG71NV1	FCAG100B + RZAG100NV1	FCAG140B + RZAG100NV1	FCAG125B + RZAG125NV1	FCAG140B + RZAG140NV1
Cooling capacity	Nom.		kW	6.80 (1)		9.50 (1)		12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)		10.8 (2)		13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++				-	
	Capacity	Pdesign	kW	6.80		9.50		12.1	13.4
	SEER			6.83	7.50	7.14	7.86	7.15	6.80
	ηs,c		%	-				283	269
	Annual energy consumption		kWh/a	348	317	466	423	1,016	1,182
Space heating (Average climate)	Energy efficiency class			A+			A++	-	
	Capacity	Pdesign	kW	4.70		7.80		9.52	
	SCOP/A			4.22	4.45	4.53	4.66	4.34	
	SCOPnet/A			4.22	4.45	4.53	4.66	4.34	
	ηs,h		%	-				171	
	Annual energy consumption		kWh/a	1,560	1,479	2,413	2,343	3,071	
	Required back up heating cap at design conditions		kW	0.00					

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Capacity and power input					FCAG71B + RZAG71NV1	FCAG100B + RZAG71NV1	FCAG100B + RZAG100NV1	FCAG140B + RZAG100NV1	FCAG125B + RZAG125NV1	FCAG140B + RZAG140NV1
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	6.80		9.50		12.10	13.40
		EERd			3.54	4.14	3.59	4.13	3.32	3.12
		Power input		kW	1.92	1.64	2.65	2.30	3.65	4.29
	B Condition (30°C - 27/19)	Pdc		kW	5.03		7.03		8.92	9.88
		EERd			5.43	5.65	5.83	5.76	5.65	4.47
		Power input		kW	0.93	0.89	1.21	1.22	1.58	2.21
	C Condition (25°C - 27/19)	Pdc		kW	3.20		4.46		5.74	6.35
		EERd			8.32	9.57	8.18	9.72	7.87	8.17
		Power input		kW	0.38	0.33	0.55	0.46	0.73	0.78
	D Condition (20°C - 27/19)	Pdc		kW	2.40	2.65	3.31	3.61	3.25	3.32
		EERd			12.31	13.42	13.03	14.70	12.77	13.55
		Power input		kW	0.20		0.25			
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10					
		Pdh (declared heating cap)		kW	4.70		7.80		9.52	
		COPd (declared COP)			2.54	2.88	2.51	2.73	1.91	1.93
		Power input		kW	1.85	1.63	3.11	2.85	4.98	4.93
	TBivalent	Tbiv (bivalent temperature)		°C	-10					
		Pdh (declared heating cap)		kW	4.70		7.80		9.52	
		COPd (declared COP)			2.54	2.88	2.51	2.73	1.91	1.93
		Power input		kW	1.85	1.63	3.11	2.85	4.98	4.93
	A Condition (-7°C)	Pdh (declared heating cap)		kW	4.13	4.14	6.86		8.43	8.42
		COPd (declared COP)			2.96	3.25	2.87	3.04	2.59	2.52
		Power input		kW	1.40	1.27	2.39	2.26	3.25	3.34
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.54		4.21		5.12	
		COPd (declared COP)			4.23	4.46	4.37	4.65	4.29	4.33
		Power input		kW	0.60	0.57	0.96	0.91	1.20	1.18
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.77	1.80	2.73		3.29	
		COPd (declared COP)			5.11	5.30	6.01	5.82	5.92	
		Power input		kW	0.35	0.34	0.45	0.47	0.56	
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.96	2.02	2.47	2.51	2.52	
		COPd (declared COP)			6.01	6.60	7.75	7.16	6.94	
Space heating (Average climate)	D Condition (12°C)	Power input		kW	0.33	0.31	0.32	0.35	0.36	
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000					
		Heating	PCK	kW	0.000					
	Off mode	Cooling	POFF	kW	0.009					
		Heating	POFF	kW	0.009					
	Standby mode	Cooling	PSB	kW	0.009					
		Heating	PSB	kW	0.009					
	Thermostat-off mode	Cooling	PTO	kW	0.005					
		Heating	PTO	kW	0.013					
Indication if the heater is equipped with a supplementary heater (pair application)					No					
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0					
Cooling	Cdc (Degradation cooling)				0.25					
Heating	Cdh (Degradation heating)				0.25					
Cooling function included					Yes					
Heating function included					Yes					
Average climate included					Yes					
Cold season included					No					
Warm season included					No					

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

Capacity and power input				FBA71A9 + RZAG71NV1	FBA100A + RZAG71NV1	FBA100A + RZAG100NV1	FBA140A + RZAG100NV1	FBA125A + RZAG125NV1	FBA140A + RZAG140NV1
Cooling capacity	Nom.		kW	6.80 (1)		9.50 (1)		12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)		10.8 (2)		13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++	A+	A++		-	
	Capacity	Pdesign	kW	6.80		9.50		12.1	13.4
	SEER			6.50	5.81	6.47	6.39	6.56	6.42
	ηs,c		%	-				259	254
	Annual energy consumption		kWh/a	366	410	514	520	1,107	1,252

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Capacity and power input					FBA71A9 + RZAG71NV1	FBA100A + RZAG71NV1	FBA100A + RZAG100NV1	FBA140A + RZAG100NV1	FBA125A + RZAG125NV1	FBA140A + RZAG140NV1
Space heating (Average climate)	Energy efficiency class				A+				-	
	Capacity	Pdesign		kW	4.70		7.80		9.52	
	SCOP/A				4.20	4.06	4.36	4.20	4.37	4.34
	SCOPnet/A				4.20	4.06	4.36	4.20	4.37	4.34
	ηs,h			%	-				172	171
	Annual energy consumption			kWh/a	1,566	1,621	2,505	2,600	3,050	3,070
	Required back up heating cap at design conditions			kW	0.00					
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	6.80		9.50		12.10	13.40
		EERd			3.40	4.15	3.69	4.18	3.27	2.86
		Power input		kW	2.00	1.64	2.58	2.27	3.70	4.69
	B Condition (30°C - 27/19)	Pdc		kW	5.03		7.03		8.92	9.88
		EERd			5.07	4.39	4.92	4.69	4.95	4.64
		Power input		kW	0.99	1.15	1.43	1.50	1.80	2.13
	C Condition (25°C - 27/19)	Pdc		kW	3.20		4.46	4.47	5.74	6.35
		EERd			7.94	7.06	7.80	7.62	7.45	7.47
		Power input		kW	0.40	0.45	0.57	0.59	0.77	0.85
	D Condition (20°C - 27/19)	Pdc		kW	2.44	2.68	3.33	3.66	3.34	3.50
		EERd			12.41	9.51	11.22	11.10	11.49	12.13
		Power input		kW	0.20	0.28	0.30	0.33	0.29	
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10					
		Pdh (declared heating cap)		kW	4.70		7.80		9.52	
		COPd (declared COP)			2.50	2.69	2.46	2.52	1.97	2.01
		Power input		kW	1.88	1.75	3.17	3.09	4.83	4.74
	TBivalent	Tbiv (bivalent temperature)		°C	-10					
		Pdh (declared heating cap)		kW	4.70		7.80		9.52	
		COPd (declared COP)			2.50	2.69	2.46	2.52	1.97	2.01
		Power input		kW	1.88	1.75	3.17	3.09	4.83	4.74
	A Condition (-7°C)	Pdh (declared heating cap)		kW	4.14		6.87	6.86	8.42	8.43
		COPd (declared COP)			2.92	3.04	2.82	2.80	2.67	2.58
		Power input		kW	1.42	1.36	2.43	2.45	3.15	3.26
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.54		4.21		5.12	
		COPd (declared COP)			4.21	4.10	4.33	4.20	4.37	4.32
		Power input		kW	0.60	0.62	0.97	1.00	1.17	1.18
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.76	1.83	2.73		3.29	
		COPd (declared COP)			5.12	4.74	5.47	5.16	5.76	5.83
		Power input		kW	0.34	0.39	0.50	0.53	0.57	
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.96	2.05	2.51	2.55		2.56
		COPd (declared COP)			6.12	5.85	6.91	6.28	6.73	6.86
Space heating (Average climate)	D Condition (12°C)	Power input		kW	0.32	0.35	0.36	0.41	0.38	0.37
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000					
		Heating	PCK	kW	0.000					
	Off mode	Cooling	POFF	kW	0.011					
		Heating	POFF	kW	0.011					
	Standby mode	Cooling	PSB	kW	0.011					
		Heating	PSB	kW	0.011					
	Thermostat-off mode	Cooling	PTO	kW	0.005					
		Heating	PTO	kW	0.015					
Indication if the heater is equipped with a supplementary heater (pair application)					No					
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0					
Cooling	Cdc (Degradation cooling)				0.25					
Heating	Cdh (Degradation heating)				0.25					
Cooling function included					Yes					
Heating function included					Yes					
Average climate included					Yes					
Cold season included					No					
Warm season included					No					

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

Capacity and power input				FDA125A + RZAG125NV1
Cooling capacity	Nom.		kW	12.1 (1)

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Capacity and power input					FDA125A + RZAG125NV1
Heating capacity	Nom.			kW	13.5 (2)
Space cooling	Capacity	Pdesign		kW	12.1
	SEER				6.59
	ηs,c			%	261
	Annual energy consumption			kWh/a	1,102
Space heating (Average climate)	Capacity	Pdesign		kW	9.52
	SCOP/A				4.35
	SCOPnet/A				4.35
	ηs,h			%	171
	Annual energy consumption			kWh/a	3,064
	Required back up heating cap at design conditions			kW	0.00
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	12.10
		EERd			3.25
		Power input		kW	3.73
	B Condition (30°C - 27/19)	Pdc		kW	8.92
		EERd			4.99
		Power input		kW	1.79
	C Condition (25°C - 27/19)	Pdc		kW	5.73
		EERd			7.67
		Power input		kW	0.75
	D Condition (20°C - 27/19)	Pdc		kW	3.34
		EERd			11.04
		Power input		kW	0.30
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10
		Pdh (declared heating cap)		kW	9.52
		COPd (declared COP)			1.99
		Power input		kW	4.78
	TBivalent	Tbiv (bivalent temperature)		°C	-10
		Pdh (declared heating cap)		kW	9.52
		COPd (declared COP)			1.99
		Power input		kW	4.78
	A Condition (-7°C)	Pdh (declared heating cap)		kW	8.42
		COPd (declared COP)			2.69
		Power input		kW	3.13
	B Condition (2°C)	Pdh (declared heating cap)		kW	5.12
		COPd (declared COP)			4.33
		Power input		kW	1.18
	C Condition (7°C)	Pdh (declared heating cap)		kW	3.29
		COPd (declared COP)			5.73
		Power input		kW	0.58
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.58
		COPd (declared COP)			6.68
		Power input		kW	0.39
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000
Power consumption in other than active mode	Crankcase heater mode	Heating	PCK	kW	0.000
	Off mode	Cooling	POFF	kW	0.012
		Heating	POFF	kW	0.012
	Standby mode	Cooling	PSB	kW	0.012
		Heating	PSB	kW	0.012
	Thermostat-off mode	Cooling	PTO	kW	0.005
		Heating	PTO	kW	0.016
Indication if the heater is equipped with a supplementary heater (pair application)					No
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0
Cooling	Cdc (Degradation cooling)				0.25
Heating	Cdh (Degradation heating)				0.25
Cooling function included					Yes
Heating function included					Yes
Average climate included					Yes
Cold season included					No
Warm season included					No

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

2 Specifications

1 - 1 RZAG-NV1

Capacity and power input					FAA71A + RZAG71NV1	FAA100A + RZAG71NV1	FAA100A + RZAG100NV1
Cooling capacity	Nom.			kW	6.80 (1)		9.50 (1)
Heating capacity	Nom.			kW	7.50 (2)		10.8 (2)
Space cooling	Energy efficiency class				A++		
	Capacity	Pdesign		kW	6.80		9.50
	SEER				6.58	6.43	6.42
	Annual energy consumption			kWh/a	362	370	518
Space heating (Average climate)	Energy efficiency class				A+		
	Capacity	Pdesign		kW	4.70		7.80
	SCOP/A				4.20	4.10	4.01
	SCOPnet/A				4.20	4.10	4.01
	Annual energy consumption			kWh/a	1,567	1,605	2,723
	Required back up heating cap at design conditions			kW	0.00		
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	6.80		9.50
		EERd			3.27	3.77	3.74
		Power input		kW	2.08	1.80	2.54
	B Condition (30°C - 27/19)	Pdc		kW	5.03		7.03
		EERd			4.54	4.85	4.76
		Power input		kW	1.11	1.04	1.48
	C Condition (25°C - 27/19)	Pdc		kW	3.22	3.20	4.46
		EERd			9.30	8.05	7.70
		Power input		kW	0.35	0.40	0.58
	D Condition (20°C - 27/19)	Pdc		kW	2.40	2.48	3.43
		EERd			11.11	10.79	11.08
		Power input		kW	0.22	0.23	0.31
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10		
		Pdh (declared heating cap)		kW	4.70		7.80
		COPd (declared COP)			2.51	2.74	2.19
		Power input		kW	1.88	1.71	3.57
	TBivalent	Tbiv (bivalent temperature)		°C	-10		
		Pdh (declared heating cap)		kW	4.70		7.80
		COPd (declared COP)			2.51	2.74	2.19
		Power input		kW	1.88	1.71	3.57
	A Condition (-7°C)	Pdh (declared heating cap)		kW	4.14		6.86
		COPd (declared COP)			2.91	3.07	2.53
		Power input		kW	1.42	1.35	2.71
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.54		4.21
		COPd (declared COP)			4.20	4.11	3.94
		Power input		kW	0.60	0.62	1.07
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.76	1.79	2.73
		COPd (declared COP)			5.14	4.81	5.19
		Power input		kW	0.34	0.37	0.53
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.96	2.02	2.47
		COPd (declared COP)			6.09	5.94	6.61
		Power input		kW	0.32	0.34	0.37
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000		
Power consumption in other than active mode	Crankcase heater mode	Heating	PCK	kW	0.000		
	Off mode	Cooling	POFF	kW	0.009		
		Heating	POFF	kW	0.009		
	Standby mode	Cooling	PSB	kW	0.009		
		Heating	PSB	kW	0.009		
	Thermostat-off mode	Cooling	PTO	kW	0.005		
		Heating	PTO	kW	0.013		
Indication if the heater is equipped with a supplementary heater (pair application)					No		
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0		
Cooling	Cdc (Degradation cooling)				0.25		
Heating	Cdh (Degradation heating)				0.25		
Cooling function included					Yes		
Heating function included					Yes		
Average climate included					Yes		
Cold season included					No		
Warm season included					No		

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

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Capacity and power input					FHA71A9 + RZAG71NV1	FHA100A + RZAG71NV1	FHA100A + RZAG100NV1	FHA140A + RZAG100NV1	FHA125A + RZAG125NV1	FHA140A + RZAG140NV1
Cooling capacity	Nom.			kW	6.80 (1)		9.50 (1)		12.1 (1)	13.4 (1)
Heating capacity	Nom.			kW	7.50 (2)		10.8 (2)		13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class				A++				-	
	Capacity	Pdesign		kW	6.80		9.50		12.1	13.4
	SEER				7.11	6.69	6.42	7.35	7.14	6.42
	ηs,c			%	-				283	254
	Annual energy consumption			kWh/a	335	356	518	453	1,017	1,253
Space heating (Average climate)	Energy efficiency class				A+		A++	A+	-	
	Capacity	Pdesign		kW	4.70		7.80		9.52	
	SCOP/A				4.32	4.26	4.61	4.50	4.20	4.30
	SCOPnet/A				4.32	4.26	4.61	4.50	4.20	4.30
	ηs,h			%	-				165	169
	Annual energy consumption			kWh/a	1,523	1,545	2,369	2,429	3,174	3,100
	Required back up heating cap at design conditions			kW	0.00					
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	6.80		9.50		12.10	13.40
		EERd			3.75	4.02	4.10	4.05	3.40	3.11
		Power input		kW	1.81	1.69	2.31	2.34	3.56	4.31
	B Condition (30°C - 27/19)	Pdc		kW	5.03		7.03		8.92	9.87
		EERd			5.46	5.34	4.92	6.03	5.55	4.94
		Power input		kW	0.92	0.94	1.43	1.17	1.61	2.00
	C Condition (25°C - 27/19)	Pdc		kW	3.20		4.47	4.46	5.73	6.35
		EERd			8.99	8.27	7.62	8.88	8.20	7.48
		Power input		kW	0.36	0.39	0.59	0.50	0.70	0.85
	D Condition (20°C - 27/19)	Pdc		kW	2.48	2.62	3.54	3.61	3.36	3.35
		EERd			12.58	10.71	10.27	11.63	12.00	10.13
		Power input		kW	0.20	0.24	0.34	0.31	0.28	0.33
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10					
		Pdh (declared heating cap)		kW	4.70		7.80		9.52	
		COPd (declared COP)			2.43	2.90	2.65	2.85	1.87	2.13
		Power input		kW	1.93	1.62	2.94	2.73	5.10	4.47
	TBivalent	Tbiv (bivalent temperature)		°C	-10					
		Pdh (declared heating cap)		kW	4.70		7.80		9.52	
		COPd (declared COP)			2.43	2.90	2.65	2.85	1.87	2.13
		Power input		kW	1.93	1.62	2.94	2.73	5.10	4.47
	A Condition (-7°C)	Pdh (declared heating cap)		kW	4.14		6.86		8.42	
		COPd (declared COP)			2.95	3.26	3.03	3.15	2.55	2.70
		Power input		kW	1.40	1.27	2.27	2.18	3.30	3.11
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.54		4.21		5.12	
		COPd (declared COP)			4.44	4.32	4.61	4.57	4.26	4.33
		Power input		kW	0.57	0.59	0.91	0.92	1.20	1.18
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.79	1.84	2.73		3.29	
		COPd (declared COP)			5.15	4.90	5.70	5.30	5.49	5.54
		Power input		kW	0.35	0.38	0.48	0.52	0.60	0.59
	D Condition (12°C)	Pdh (declared heating cap)		kW	1.97	2.07	2.54	2.60	2.55	2.64
		COPd (declared COP)			5.99	6.00	7.06	6.21	6.13	6.25
Space heating (Average climate)	D Condition (12°C)	Power input		kW	0.33	0.34	0.36		0.42	
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000					
		Heating	PCK	kW	0.000					
	Off mode	Cooling	POFF	kW	0.009					
		Heating	POFF	kW	0.009					
	Standby mode	Cooling	PSB	kW	0.009					
		Heating	PSB	kW	0.009					
	Thermostat-off mode	Cooling	PTO	kW	0.005					
		Heating	PTO	kW	0.013					
Indication if the heater is equipped with a supplementary heater (pair application)					No					
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0					
Cooling	Cdc (Degradation cooling)				0.25					
Heating	Cdh (Degradation heating)				0.25					
Cooling function included					Yes					
Heating function included					Yes					
Average climate included					Yes					

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Capacity and power input	FHA71A9 + RZAG71NV1	FHA100A + RZAG71NV1	FHA100A + RZAG100NV1	FHA140A + RZAG100NV1	FHA125A + RZAG125NV1	FHA140A + RZAG140NV1
Cold season included	No					
Warm season included	No					

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

Capacity and power input					FUA71A + RZAG71NV1	FUA100A + RZAG71NV1	FUA100A + RZAG100NV1	FUA125A + RZAG125NV1
Cooling capacity	Nom.			kW	6.80 (1)		9.50 (1)	12.1 (1)
Heating capacity	Nom.			kW	7.50 (2)		10.8 (2)	13.5 (2)
Space cooling	Energy efficiency class				A++			-
	Capacity	Pdesign		kW	6.80		9.50	12.1
	SEER				7.02	6.89	6.42	6.39
	ηs,c			%	-			253
	Annual energy consumption			kWh/a	339	345	518	1,136
Space heating (Average climate)	Energy efficiency class				A+			-
	Capacity	Pdesign		kW	4.70		7.80	9.52
	SCOP/A				4.20	4.28	4.50	4.26
	SCOPnet/A				4.20	4.28	4.50	4.26
	ηs,h			%	-			167
	Annual energy consumption			kWh/a	1,567	1,538	2,427	3,129
	Required back up heating cap at design conditions			kW	0.00			
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	6.80		9.50	12.10
		EERd			3.83	4.02	3.57	3.02
		Power input		kW	1.77	1.69	2.66	4.00
	B Condition (30°C - 27/19)	Pdc		kW	5.03		7.03	8.91
		EERd			5.34	5.65	4.93	5.08
		Power input		kW	0.94	0.89	1.43	1.76
	C Condition (25°C - 27/19)	Pdc		kW	3.20	3.19	4.46	5.74
		EERd			8.83	8.54	7.75	7.22
		Power input		kW	0.36	0.37	0.58	0.79
	D Condition (20°C - 27/19)	Pdc		kW	2.59	2.64	3.36	3.23
		EERd			12.48	10.88	10.65	10.56
		Power input		kW	0.21	0.24	0.32	0.31
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10			
		Pdh (declared heating cap)		kW	4.70		7.80	9.52
		COPd (declared COP)			2.58	2.95	2.62	1.97
		Power input		kW	1.82	1.59	2.97	4.83
	TBivalent	Tbiv (bivalent temperature)		°C	-10			
		Pdh (declared heating cap)		kW	4.70		7.80	9.52
		COPd (declared COP)			2.58	2.95	2.62	1.97
		Power input		kW	1.82	1.59	2.97	4.83
	A Condition (-7°C)	Pdh (declared heating cap)		kW	4.14		6.86	8.43
		COPd (declared COP)			2.99	3.31	3.00	2.66
		Power input		kW	1.38	1.25	2.29	3.17
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.54		4.21	5.12
		COPd (declared COP)			4.27	4.36	4.53	4.31
		Power input		kW	0.60	0.58	0.93	1.19
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.80	1.86	2.73	3.29
		COPd (declared COP)			5.03	4.87	5.47	
		Power input		kW	0.36	0.38	0.50	0.60
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.00	2.09	2.55	2.58
		COPd (declared COP)			6.00	5.94	6.76	6.18
Space heating (Average climate)	D Condition (12°C)	Power input		kW	0.33	0.35	0.38	0.42
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000			
		Heating	PCK	kW	0.000			
	Off mode	Cooling	POFF	kW	0.009			
		Heating	POFF	kW	0.009			
	Standby mode	Cooling	PSB	kW	0.009			
		Heating	PSB	kW	0.009			
	Thermostat-off mode	Cooling	PTO	kW	0.005			
		Heating	PTO	kW	0.013			
Indication if the heater is equipped with a supplementary heater (pair application)					No			

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Capacity and power input				FUA71A + RZAG71NV1	FUA100A + RZAG71NV1	FUA100A + RZAG100NV1	FUA125A + RZAG125NV1
Supplementary heater (pair application)	Back-up Heating elbu capacity		kW	0.0			
Cooling	Cdc (Degradation cooling)			0.25			
Heating	Cdh (Degradation heating)			0.25			
Cooling function included				Yes			
Heating function included				Yes			
Average climate included				Yes			
Cold season included				No			
Warm season included				No			

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

Capacity and power input				FVA71A + RZAG71NV1	FVA100A + RZAG71NV1	FVA100A + RZAG100NV1	FVA140A + RZAG100NV1	FVA125A + RZAG125NV1	FVA140A + RZAG140NV1
Cooling capacity	Nom.		kW	6.80 (1)		9.50 (1)		12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)		10.8 (2)		13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++				-	
	Capacity Pdesign		kW	6.80		9.50		12.1	13.4
	SEER			6.34	6.41	6.40	6.43	6.41	6.12
	ηs,c		%	-				253	242
	Annual energy consumption		kWh/a	376	371	520	517	1,133	1,314
Space heating (Average climate)	Energy efficiency class			A+				-	
	Capacity Pdesign		kW	4.70		7.80		9.52	
	SCOP/A			4.05	4.03	4.20	4.05	4.15	3.94
	SCOPnet/A			4.05	4.03	4.20	4.05	4.15	3.94
	ηs,h		%	-				163	155
	Annual energy consumption		kWh/a	1,625	1,634	2,600	2,697	3,209	3,383
	Required back up heating cap at design conditions		kW	0.00					
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	6.80		9.50		12.10	13.40
		EERd		3.27	3.95	3.57	3.93	3.21	3.03
		Power input	kW	2.08	1.72	2.66	2.42	3.77	4.42
	B Condition (30°C - 27/19)	Pdc	kW	5.03		7.03		8.92	9.87
		EERd		5.15	5.40	5.21	5.13	5.23	4.89
		Power input	kW	0.98	0.93	1.35	1.37	1.70	2.02
	C Condition (25°C - 27/19)	Pdc	kW	3.20		4.46	4.47	5.73	6.35
		EERd		7.53	7.81	7.67	7.63	7.07	6.90
		Power input	kW	0.42	0.41	0.58	0.59	0.81	0.92
	D Condition (20°C - 27/19)	Pdc	kW	2.33	2.61	3.20	3.54	3.23	3.24
		EERd		11.27	9.56	9.85	10.01	10.28	9.46
		Power input	kW	0.21	0.27	0.33	0.35	0.31	0.34
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10					
		Pdh (declared heating cap)	kW	4.70		7.80		9.52	
		COPd (declared COP)		2.42	2.85	2.45	2.57	1.86	
		Power input	kW	1.94	1.65	3.19	3.04	5.11	
	TBivalent	Tbiv (bivalent temperature)	°C	-10					
		Pdh (declared heating cap)	kW	4.70		7.80		9.52	
		COPd (declared COP)		2.42	2.85	2.45	2.57	1.86	
		Power input	kW	1.94	1.65	3.19	3.04	5.11	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.14		6.86		8.43	8.42
		COPd (declared COP)		2.83	3.18	2.82	2.84	2.55	2.42
		Power input	kW	1.46	1.30	2.43	2.42	3.30	3.48
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.54		4.21		5.12	
		COPd (declared COP)		4.07	4.11	4.21	4.11	4.20	3.99
		Power input	kW	0.62		1.00	1.02	1.22	1.28
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.76	1.88	2.73		3.29	
		COPd (declared COP)		4.92	4.54	5.13	4.77	5.42	5.12
		Power input	kW	0.36	0.41	0.53	0.57	0.61	0.64
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.96	2.10	2.56	2.60	2.57	2.61
		COPd (declared COP)		5.77	5.48	6.22	5.58	6.00	5.67
Space heating (Average climate)	D Condition (12°C)	Power input	kW	0.34	0.38	0.41	0.47	0.43	0.46

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Capacity and power input					FVA71A + RZAG71NV1	FVA100A + RZAG71NV1	FVA100A + RZAG100NV1	FVA140A + RZAG100NV1	FVA125A + RZAG125NV1	FVA140A + RZAG140NV1
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000					
		Heating	PCK	kW	0.000					
	Off mode	Cooling	POFF	kW	0.009					
		Heating	POFF	kW	0.009					
	Standby mode	Cooling	PSB	kW	0.009					
		Heating	PSB	kW	0.009					
	Thermostat-off mode	Cooling	PTO	kW	0.005					
		Heating	PTO	kW	0.013					
Indication if the heater is equipped with a supplementary heater (pair application)					No					
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0					
Cooling	Cdc (Degradation cooling)				0.25					
Heating	Cdh (Degradation heating)				0.25					
Cooling function included					Yes					
Heating function included					Yes					
Average climate included					Yes					
Cold season included					No					
Warm season included					No					

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

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Symbols
MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes
1. The ·RLA· is based on the following conditions.
   Cooling
   Indoor temperature ·27.0·°C DB / ·19.0·°C WB
   Outdoor temperature ·35.0·°C DB
   Heating
   Indoor temperature ·20.0·°C DB
   Outdoor temperature ·7.0·°C DB / ·6.0·°C WB
2. ·TOCA· is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is ·2·%.
5. ·MCA· is the maximum input current.
   The capacity of the ·MFA· must be greater than that of the ·MCA·.
   Select the ·MFA· according to the table.
6. Select the wire size according to the MCA.
7. ·MFA· is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker

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Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor		OFM		IFM	
									MSC	RLA	kW	FLA	kW	FLA
FCAHG71HVEB	x2	RZAG125N7V1B	50Hz ~ 220-240V	Minimum: ·198 V·	Maximum ·264 V·	27,5	—	32	—	23,8	0,234	1,2	0,091 x2	0,7 x2
FCAHG140HVEB		RZAG125N7V1B				27,5	—	32	—	23,8	0,234	1,2	0,244	1,4
FCAG35BVEB	x4	RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,044 x4	0,3 x4
FCAG50BVEB	x3	RZAG125N7V1B				26,9	—	32	—	23,8	0,234	1,2	0,039 x3	0,3 x3
FCAG71BVEB	x2	RZAG125N7V1B				26,8	—	32	—	23,8	0,234	1,2	0,054 x2	0,4 x2
FCAG140BVEB		RZAG125N7V1B				27,4	—	32	—	23,8	0,234	1,2	0,168	1,3
FFA35A2VEB	x4	RZAG125N7V1B				26,8	—	32	—	23,8	0,234	1,2	0,050 x4	0,2 x4
FFA50A2VEB	x3	RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,050 x3	0,4 x3
FBA35A2VEB	x4	RZAG125N7V1B				31,8	—	32	—	23,8	0,234	1,2	0,089 x4	1,4 x4
FBA50A2VEB	x3	RZAG125N7V1B				30,4	—	32	—	23,8	0,234	1,2	0,089 x3	1,4 x3
FBA71A2VEB	x2	RZAG125N7V1B				28,7	—	32	—	23,8	0,234	1,2	0,070 x2	1,3 x2
FBA140A2VEB		RZAG125N7V1B				30,1	—	32	—	23,8	0,234	1,2	0,187	3,9
FUA71AVEB	x2	RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,046 x2	0,9 x2
FAA71AUVEB	x2	RZAG125N7V1B				27,0	—	32	—	23,8	0,234	1,2	0,048 x2	0,5 x2
FVA140AMVEB		RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,276	1,8
FDXM35F3V1B	x4	RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,034 x4	0,3 x4
FDXM50F3V1B	x3	RZAG125N7V1B				28,8	—	32	—	23,8	0,234	1,2	0,060 x3	0,9 x3
FHA35AVEB	x4	RZAG125N7V1B				28,5	—	32	—	23,8	0,234	1,2	0,060 x4	0,6 x4
FHA50AVEB	x3	RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,060 x3	0,6 x3
FHA71AVEB	x2	RZAG125N7V1B				27,7	—	32	—	23,8	0,234	1,2	0,091 x2	0,8 x2
FHA140AVEB		RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,150	1,8
FCAHG71HVEB	x2	RZAG140N7V1B	50Hz ~ 220-240V	Minimum: ·198 V·	Maximum ·264 V·	27,5	—	32	—	23,6	0,234	1,4	0,091 x2	0,7 x2
FCAHG140HVEB		RZAG140N7V1B				27,5	—	32	—	23,6	0,234	1,4	0,244	1,4
FCAG35BVEB	x4	RZAG140N7V1B				27,2	—	32	—	23,6	0,234	1,4	0,044 x4	0,3 x4
FCAG50BVEB	x3	RZAG140N7V1B				26,9	—	32	—	23,6	0,234	1,4	0,039 x3	0,3 x3
FCAG71BVEB	x2	RZAG140N7V1B				26,8	—	32	—	23,6	0,234	1,4	0,054 x2	0,4 x2
FCAG140BVEB		RZAG140N7V1B				27,4	—	32	—	23,6	0,234	1,4	0,168	1,3
FFA35A2VEB	x4	RZAG140N7V1B				26,8	—	32	—	23,6	0,234	1,4	0,050 x4	0,2 x4
FFA50A2VEB	x3	RZAG140N7V1B				27,2	—	32	—	23,6	0,234	1,4	0,050 x3	0,4 x3
FBA35A2VEB	x4	RZAG140N7V1B				31,8	—	32	—	23,6	0,234	1,4	0,089 x4	1,4 x4
FBA50A2VEB	x3	RZAG140N7V1B				30,4	—	32	—	23,6	0,234	1,4	0,089 x3	1,4 x3
FBA71A2VEB	x2	RZAG140N7V1B				28,7	—	32	—	23,6	0,234	1,4	0,070 x2	1,3 x2
FBA140A2VEB		RZAG140N7V1B				30,1	—	32	—	23,6	0,234	1,4	0,187	3,9
FUA71AVEB	x2	RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,4	0,046 x2	0,9 x2
FAA71AUVEB	x2	RZAG140N7V1B				27,0	—	32	—	23,6	0,234	1,4	0,048 x2	0,5 x2
FVA140AMVEB		RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,4	0,276	1,8
FDXM35F3V1B	x4	RZAG140N7V1B				27,2	—	32	—	23,6	0,234	1,4	0,034 x4	0,3 x4
FDXM50F3V1B	x3	RZAG140N7V1B				28,8	—	32	—	23,6	0,234	1,4	0,060 x3	0,9 x3
FHA35AVEB	x4	RZAG140N7V1B				28,5	—	32	—	23,6	0,234	1,4	0,060 x4	0,6 x4
FHA50AVEB	x3	RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,4	0,060 x3	0,6 x3
FHA71AVEB	x2	RZAG140N7V1B				27,7	—	32	—	23,6	0,234	1,4	0,091 x2	0,8 x2
FHA140AVEB		RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,4	0,150	1,8

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Symbols
MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes
1. The ·RLA· is based on the following conditions.
   Cooling
   Indoor temperature ·27.0·°C DB / ·19.0·°C WB
   Outdoor temperature ·35.0·°C DB
   Heating
   Indoor temperature ·20.0·°C DB
   Outdoor temperature ·7.0·°C DB / ·6.0·°C WB
2. ·TOCA· is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is ·2·%.
5. ·MCA· is the maximum input current.
   The capacity of the ·MFA· must be greater than that of the ·MCA·.
   Select the ·MFA· according to the table.
6. Select the wire size according to the MCA.
7. ·MFA· is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker

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Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCAHG125HVEB		RZAG125N7V1B	50Hz ~ 220-240V	Minimum: ·198 V·	Maximum ·264 V·	27,5	—	32	—	23,8	0,234	1,2	0,244	1,4
FCAG35BVEB	x4	RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,044 x4	0,3 x4
FCAG50BVEB	x3	RZAG125N7V1B				26,9	—	32	—	23,8	0,234	1,2	0,039 x3	0,3 x3
FCAG60BVEB	x2	RZAG125N7V1B				26,6	—	32	—	23,8	0,234	1,2	0,044 x2	0,3 x2
FCAG125BVEB		RZAG125N7V1B				27,0	—	32	—	23,8	0,234	1,2	0,168	1,0
FFA35A2VEB	x4	RZAG125N7V1B				26,8	—	32	—	23,8	0,234	1,2	0,050 x4	0,2 x4
FFA50A2VEB	x3	RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,050 x3	0,4 x3
FFA60A2VEB	x2	RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,050 x2	0,6 x2
FBA35A2VEB	x4	RZAG125N7V1B				31,8	—	32	—	23,8	0,234	1,2	0,089 x4	1,4 x4
FBA50A2VEB	x3	RZAG125N7V1B				30,4	—	32	—	23,8	0,234	1,2	0,089 x3	1,4 x3
FBA60A2VEB	x2	RZAG125N7V1B				28,7	—	32	—	23,8	0,234	1,2	0,070 x2	1,3 x2
FBA125A2VEB		RZAG125N7V1B				30,1	—	32	—	23,8	0,234	1,2	0,187	3,9
FNA35A2VEB	x4	RZAG125N7V1B				28,1	—	32	—	23,8	0,234	1,2	0,034 x4	0,5 x4
FNA50A2VEB	x3	RZAG125N7V1B				27,6	—	32	—	23,8	0,234	1,2	0,060 x3	0,5 x3
FNA60A2VEB	x2	RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,060 x2	0,6 x2
FUA125AVEB		RZAG125N7V1B				27,5	—	32	—	23,8	0,234	1,2	0,106	1,4
FDA125A5VEB		RZAG125N7V1B				28,2	—	32	—	23,8	0,234	1,2	0,350	2,1
FVA125AMVEB		RZAG125N7V1B				27,6	—	32	—	23,8	0,234	1,2	0,238	1,5
FDXM35F3V1B	x4	RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,034 x4	0,3 x4
FDXM50F3V1B	x3	RZAG125N7V1B				28,8	—	32	—	23,8	0,234	1,2	0,060 x3	0,9 x3
FDXM60F3V1B	x2	RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,060 x2	0,9 x2
FHA35AVEB	x4	RZAG125N7V1B				28,5	—	32	—	23,8	0,234	1,2	0,060 x4	0,6 x4
FHA50AVEB	x3	RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,060 x3	0,6 x3
FHA60AVEB	x2	RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,091 x2	0,6 x2
FHA125AVEB		RZAG125N7V1B				27,6	—	32	—	23,8	0,234	1,2	0,150	1,5
FCAHG71HVEB	x2	RZAG140N7V1B	50Hz ~ 220-240V	Minimum: ·198 V·	Maximum ·264 V·	27,5	—	32	—	23,6	0,234	1,4	0,091 x2	0,7 x2
FCAHG140HVEB		RZAG140N7V1B				27,5	—	32	—	23,6	0,234	1,4	0,244	1,4
FCAG35BVEB	x4	RZAG140N7V1B				27,2	—	32	—	23,6	0,234	1,4	0,044 x4	0,3 x4
FCAG50BVEB	x3	RZAG140N7V1B				26,9	—	32	—	23,6	0,234	1,4	0,039 x3	0,3 x3
FCAG71BVEB	x2	RZAG140N7V1B				26,8	—	32	—	23,6	0,234	1,4	0,054 x2	0,4 x2
FCAG140BVEB		RZAG140N7V1B				27,4	—	32	—	23,6	0,234	1,4	0,168	1,3
FFA35A2VEB	x4	RZAG140N7V1B				26,8	—	32	—	23,6	0,234	1,4	0,050 x4	0,2 x4
FFA50A2VEB	x3	RZAG140N7V1B				27,2	—	32	—	23,6	0,234	1,4	0,050 x3	0,4 x3
FBA35A2VEB	x4	RZAG140N7V1B				31,8	—	32	—	23,6	0,234	1,4	0,089 x4	1,4 x4
FBA50A2VEB	x3	RZAG140N7V1B				30,4	—	32	—	23,6	0,234	1,4	0,089 x3	1,4 x3
FBA71A2VEB	x2	RZAG140N7V1B				28,7	—	32	—	23,6	0,234	1,4	0,070 x2	1,3 x2
FBA140A2VEB		RZAG140N7V1B				30,1	—	32	—	23,6	0,234	1,4	0,187	3,9
FNA35A2VEB	x4	RZAG140N7V1B				28,1	—	32	—	23,6	0,234	1,4	0,034 x4	0,5 x4
FNA50A2VEB	x3	RZAG140N7V1B				27,6	—	32	—	23,6	0,234	1,4	0,060 x3	0,5 x3
FUA71AVEB	x2	RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,4	0,046 x2	0,9 x2
FAA71AUVEB	x2	RZAG140N7V1B				27,0	—	32	—	23,6	0,234	1,4	0,048 x2	0,5 x2
FVA71AMVEB	x2	RZAG140N7V1B				27,7	—	32	—	23,6	0,234	1,4	0,117 x2	0,8 x2
FVA140AMVEB		RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,4	0,276	1,8
FDXM35F3V1B	x4	RZAG140N7V1B				27,2	—	32	—	23,6	0,234	1,4	0,034 x4	0,3 x4
FDXM50F3V1B	x3	RZAG140N7V1B				28,8	—	32	—	23,6	0,234	1,4	0,060 x3	0,9 x3
FHA35AVEB	x4	RZAG140N7V1B				28,5	—	32	—	23,6	0,234	1,4	0,060 x4	0,6 x4
FHA50AVEB	x3	RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,4	0,060 x3	0,6 x3
FHA71AVEB	x2	RZAG140N7V1B				27,7	—	32	—	23,6	0,234	1,4	0,091 x2	0,8 x2
FHA140AVEB		RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,4	0,150	1,8

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Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCAHG100HVEB		RZAG71N7V1B	50Hz ~ 220-240V	Minimum: -198 V-	Maximum :264 V-	18,3	—	20	—	15,5	0,234	0,8	0,221	1,3
FCAG35BVEB	x3	RZAG71N7V1B				17,9	—	20	—	15,5	0,234	0,8	0,044 x3	0,3 x3
FCAG50BVEB	x2	RZAG71N7V1B				17,6	—	20	—	15,5	0,234	0,8	0,039 x2	0,3 x2
FCAG100BVEB		RZAG71N7V1B				17,7	—	20	—	15,5	0,234	0,8	0,117	0,7
FFA35A2VEB	x3	RZAG71N7V1B				17,6	—	20	—	15,5	0,234	0,8	0,050 x3	0,2 x3
FFA50A2VEB	x2	RZAG71N7V1B				17,8	—	20	—	15,5	0,234	0,8	0,050 x2	0,4 x2
FBA35A2VEB	x3	RZAG71N7V1B				21,3	—	20	—	15,5	0,234	0,8	0,089 x3	1,4 x3
FBA50A2VEB	x2	RZAG71N7V1B				19,9	—	20	—	15,5	0,234	0,8	0,089 x2	1,4 x2
FBA100A2VEB		RZAG71N7V1B				20,6	—	20	—	15,5	0,234	0,8	0,127	3,5
FUA100AVEB		RZAG71N7V1B				18,3	—	20	—	15,5	0,234	0,8	0,106	1,3
FAA100AUVEB		RZAG71N7V1B				17,5	—	20	—	15,5	0,234	0,8	0,064	0,5
FVA100AMVEB		RZAG71N7V1B				18,5	—	20	—	15,5	0,234	0,8	0,238	1,5
FDXM35F3V1B	x3	RZAG71N7V1B				17,9	—	20	—	15,5	0,234	0,8	0,034 x3	0,3 x3
FDXM50F3V1B	x2	RZAG71N7V1B				18,8	—	20	—	15,5	0,234	0,8	0,060 x2	0,9 x2
FHA35AVEB	x3	RZAG71N7V1B				18,8	—	20	—	15,5	0,234	0,8	0,060 x3	0,6 x3
FHA50AVEB	x2	RZAG71N7V1B				18,2	—	20	—	15,5	0,234	0,8	0,060 x2	0,6 x2
FHA100AVEB		RZAG71N7V1B				18,3	—	20	—	15,5	0,234	0,8	0,150	1,3
FCAHG71HVEB	x2	RZAG100N7V1B	50Hz ~ 220-240V	Minimum: -198 V-	Maximum :264 V-	22,3	—	32	—	18,8	0,234	1,2	0,091 x2	0,7 x2
FCAHG140HVEB		RZAG100N7V1B				22,3	—	32	—	18,8	0,234	1,2	0,244	1,4
FCAG35BVEB	x4	RZAG100N7V1B				22,0	—	32	—	18,8	0,234	1,2	0,044 x4	0,3 x4
FCAG50BVEB	x3	RZAG100N7V1B				21,7	—	32	—	18,8	0,234	1,2	0,039 x3	0,3 x3
FCAG71BVEB	x2	RZAG100N7V1B				21,6	—	32	—	18,8	0,234	1,2	0,054 x2	0,4 x2
FCAG140BVEB		RZAG100N7V1B				22,2	—	32	—	18,8	0,234	1,2	0,168	1,3
FFA35A2VEB	x4	RZAG100N7V1B				21,6	—	32	—	18,8	0,234	1,2	0,050 x4	0,8
FFA50A2VEB	x3	RZAG100N7V1B				22,0	—	32	—	18,8	0,234	1,2	0,050 x3	0,4 x3
FBA35A2VEB	x4	RZAG100N7V1B				26,6	—	32	—	18,8	0,234	1,2	0,089 x4	1,4 x4
FBA50A2VEB	x3	RZAG100N7V1B				25,2	—	32	—	18,8	0,234	1,2	0,089 x3	1,4 x3
FBA71A2VEB	x2	RZAG100N7V1B				23,5	—	32	—	18,8	0,234	1,2	0,07 x2	1,3 x2
FBA140A2VEB		RZAG100N7V1B				24,9	—	32	—	18,8	0,234	1,2	0,187	3,9
FUA71AVEB	x2	RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,2	0,046 x2	0,9 x2
FAA71AUVEB	x2	RZAG100N7V1B				21,8	—	32	—	18,8	0,234	1,2	0,048 x2	0,5 x2
FVA140AMVEB		RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,2	0,276	1,8
FDXM35F3V1B	x4	RZAG100N7V1B				22,0	—	32	—	18,8	0,234	1,2	0,034 x4	0,3 x4
FDXM50F3V1B	x3	RZAG100N7V1B				23,6	—	32	—	18,8	0,234	1,2	0,060 x3	0,9 x3
FHA35AVEB	x4	RZAG100N7V1B				23,3	—	32	—	18,8	0,234	1,2	0,060 x4	0,6 x4
FHA50AVEB	x3	RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,2	0,060 x3	0,6 x3
FHA71AVEB	x2	RZAG100N7V1B				22,5	—	32	—	18,8	0,234	1,2	0,091 x2	0,8 x2
FHA140AVEB		RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,2	0,150	1,8

3D120944A

RZAG-NV1

Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCAHG71HVEB		RZAG71N7V1B	50Hz ~ 220-240V	Minimum: -198 V-	Maximum :264 V-	17,7	—	20	—	15,5	0,234	0,8	0,091	0,7
FCAG35BVEB	x2	RZAG71N7V1B				17,6	—	20	—	15,5	0,234	0,8	0,044 x2	0,3 x2
FCAG71BVEB		RZAG71N7V1B				17,4	—	20	—	15,5	0,234	0,8	0,054	0,4
FFA35A2VEB	x2	RZAG71N7V1B				17,4	—	20	—	15,5	0,234	0,8	0,050 x2	0,2 x2
FBA35A2VEB	x2	RZAG71N7V1B				19,9	—	20	—	15,5	0,234	0,8	0,089 x2	1,4 x2
FBA71A2VEB		RZAG71N7V1B				18,3	—	20	—	15,5	0,234	0,8	0,070	1,3
FNA35A2VEB	x2	RZAG71N7V1B				18,0	—	20	—	15,5	0,234	0,8	0,034 x2	0,5 x2
FUA71AVEB		RZAG71N7V1B				17,9	—	20	—	15,5	0,234	0,8	0,046	0,9
FAA71AUVEB		RZAG71N7V1B				17,5	—	20	—	15,5	0,234	0,8	0,048	0,5
FVA71AMVEB		RZAG71N7V1B				17,8	—	20	—	15,5	0,234	0,8	0,117	0,8
FDXM35F3V1B	x2	RZAG71N7V1B				17,6	—	20	—	15,5	0,234	0,8	0,034 x2	0,3 x2
FHA35AVEB	x2	RZAG71N7V1B				18,2	—	20	—	15,5	0,234	0,8	0,060 x2	0,6 x2
FHA71AVEB		RZAG71N7V1B				17,8	—	20	—	15,5	0,234	0,8	0,091	0,8
FCAHG100HVEB		RZAG100N7V1B	50Hz ~ 220-240V	Minimum: -198 V-	Maximum :264 V-	22,2	—	32	—	18,8	0,234	1,2	0,221	1,3
FCAG35BVEB	x3	RZAG100N7V1B				21,7	—	32	—	18,8	0,234	1,2	0,044 x3	0,3 x3
FCAG50BVEB	x2	RZAG100N7V1B				21,4	—	32	—	18,8	0,234	1,2	0,039 x2	0,3 x2
FCAG100BVEB		RZAG100N7V1B				21,5	—	32	—	18,8	0,234	1,2	0,117	0,7
FFA35A2VEB	x3	RZAG100N7V1B				21,4	—	32	—	18,8	0,234	1,2	0,050 x3	0,2 x3
FFA50A2VEB	x2	RZAG100N7V1B				21,6	—	32	—	18,8	0,234	1,2	0,050 x2	0,4 x2
FBA35A2VEB	x3	RZAG100N7V1B				25,2	—	32	—	18,8	0,234	1,2	0,089 x3	1,4 x3
FBA50A2VEB	x2	RZAG100N7V1B				23,7	—	32	—	18,8	0,234	1,2	0,089 x2	1,4 x2
FBA100A2VEB		RZAG100N7V1B				24,4	—	32	—	18,8	0,234	1,2	0,127	3,5
FNA35A2VEB	x3	RZAG100N7V1B				22,4	—	32	—	18,8	0,234	1,2	0,034 x3	0,5 x3
FNA50A2VEB	x2	RZAG100N7V1B				21,8	—	32	—	18,8	0,234	1,2	0,060 x2	0,5 x2
FUA100AVEB		RZAG100N7V1B				22,2	—	32	—	18,8	0,234	1,2	0,106	1,3
FAA100AUVEB		RZAG100N7V1B				21,3	—	32	—	18,8	0,234	1,2	0,064	0,5
FVA100AMVEB		RZAG100N7V1B				22,4	—	32	—	18,8	0,234	1,2	0,238	1,5
FDXM35F3V1B	x3	RZAG100N7V1B				21,7	—	32	—	18,8	0,234	1,2	0,034 x3	0,3 x3
FDXM50F3V1B	x2	RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,2	0,060 x2	0,9 x2
FHA35AVEB	x3	RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,2	0,060 x3	0,6 x3
FHA50AVEB	x2	RZAG100N7V1B				22,0	—	32	—	18,8	0,234	1,2	0,060 x2	0,6 x2
FHA100AVEB		RZAG100N7V1B				22,2	—	32	—	18,8	0,234	1,2	0,150	1,3

3D120943

4 Options

4 - 1 Options

RZAG-NV1
RZAG-NY1

		EKBPH140N	EKMKSA2	KHRQ58H	KHRQ58T	KHRQM58H	KHRQM58T	KRP58M51	SB.KRP58M52
RZAG71N7V1B	RZAG71N7Y1B	V	V(1)	V	V(2)	V	V(2)	V(1)	V(1)
RZAG100N7V1B	RZAG100N7Y1B	V	V(1)	V(3)	V(2)	V(3)	V(2)	V(1)	V(1)
RZAG125N7V1B	RZAG125N7Y1B	V	V(1)	V(3)	V(2)	V(3)	V(2)	V(1)	V(1)
RZAG140N7V1B	RZAG140N7Y1B	V	V(1)	V(3)	V(2)	V(3)	V(2)	V(1)	V(1)

NOTES

1. To mount KRP58M51, an additional mounting kit (EKMKSA2) needs to be used (obligatory). This will be offered as sales bom SB.KRP58M52 = KRP58M51 + EKMKSA2
2. For twin combinations use 1 KHRQ(M)58T, for double twin use 3.
3. For triple combinations use 1 KHRQ(M)58H.

3D120932

5 Combination table

5 - 1 Combination Table

RZAG-NV1
RZAG-NY1

Comfort cooling combination table

	High COP round flow cassette				Round flow cassette							Fully flat cassette			Slim concealed ceiling unit			Concealed ceiling unit with medium ESP						
	FCAHG71HVEB	FCAHG100HVEB	FCAHG125HVEB	FCAHG140HVEB	FCAG35BVEB	FCAG50BVEB	FCAG60BVEB	FCAG71BVEB	FCAG100BVEB	FCAG125BVEB	FCAG140BVEB	FFA35A2VEB9	FFA50A2VEB9	FFA60A2VEB9	FDXM35F3V1B9	FDXM50F3V1B9	FDXM60F3V1B9	FBA35A2VEB9	FBA50A2VEB9	FBA60A2VEB9	FBA71A2VEB9	FBA100A2VEB	FBA125A2VEB	FBA140A2VEB
RZAG71N7V1B RZAG71N7Y1B	P				2			P				2			2			2			P			
RZAG100N7V1B RZAG100N7Y1B		P			3	2			P			3	2		3	2		3	2			P		
RZAG125N7V1B RZAG125N7Y1B			P		4	3	2			P		4	3	2	4	3	2	4	3	2			P	
RZAG140N7V1B RZAG140N7Y1B	2			P	4	3		2			P	4	3		4	3		4	3		2			P

	Concealed ceiling unit with high ESP	Wall mounted unit		Ceiling suspended unit							4-way blow ceiling suspended unit			Floor standing unit				Concealed floor standing unit		
	FDA125A5VEB	FAA71AUVEB	FAA100AUVEB	FHA35AVEB9	FHA50AVEB9	FHA60AVEB9	FHA71AVEB9	FHA100AVEB	FHA125AVEB	FHA140AVEB	FUA71AVEB	FUA100AVEB	FUA125AVEB	FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	FNA35A2VEB9	FNA50A2VEB9	FNA60A2VEB9
RZAG71N7V1B RZAG71N7Y1B		P		2			P				P			P				2		
RZAG100N7V1B RZAG100N7Y1B			P	3	2			P				P			P			3	2	
RZAG125N7V1B RZAG125N7Y1B	P			4	3	2			P				P			P		4	3	2
RZAG140N7V1B RZAG140N7Y1B		2		4	3		2			P	2			2			P	4	3	

COMBINATIONS

P = Pair
2 = Twin
3 = Triple
4 = Double Twin

3D120926

RZAG-NV1
RZAG-NY1

Infrastructure cooling combination table

	High COP round flow cassette				Round flow cassette				Fully flat cassette		Slim concealed ceiling unit		Concealed ceiling unit with medium ESP				
	FCAG140BVEB	FCAHG71HVEB	FCAHG100HVEB	FCAHG140HVEB	FCAG35BVEB	FCAG50BVEB	FCAG71BVEB	FCAG100BVEB	FFA35A2VEB9	FFA50A2VEB9	FDXM35F3V1B9	FDXM50F3V1B9	FBA35A2VEB9	FBA50A2VEB9	FBA71A2VEB9	FBA100A2VEB	FBA140A2VEB
RZAG71N7V1B RZAG71N7Y1B			P		3	2		P	3	2	3	2	3	2		P	
RZAG100N7V1B RZAG100N7Y1B	P	2		P	4	3	2		4	3	4	3	4	3	2		P
RZAG125N7V1B RZAG125N7Y1B	P	2		P	4	3	2		4	3	4	3	4	3	2		P
RZAG140N7V1B RZAG140N7Y1B	P	2		P	4	3	2		4	3	4	3	4	3	2		P

	Wall mounted unit		Ceiling suspended unit					4-way blow ceiling suspended unit		Floor standing unit	
	FAA71AUVEB	FAA100AUVEB	FHA35AVEB9	FHA50AVEB9	FHA71AVEB9	FHA100AVEB	FHA140AVEB	FUA71AVEB	FUA100AVEB	FVA100AMVEB	FVA140AMVEB
RZAG71N7V1B RZAG71N7Y1B		P	3	2		P			P	P	
RZAG100N7V1B RZAG100N7Y1B	2		4	3	2		P	2			P
RZAG125N7V1B RZAG125N7Y1B	2		4	3	2		P	2			P
RZAG140N7V1B RZAG140N7Y1B	2		4	3	2		P	2			P

COMBINATIONS

P = Pair
2 = Twin
3 = Triple
4 = Double Twin

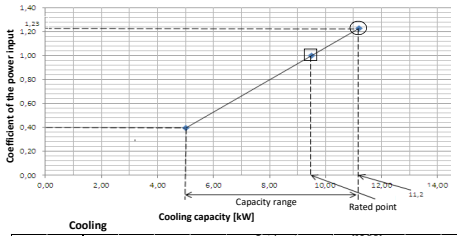
3D120929

6 Capacity tables

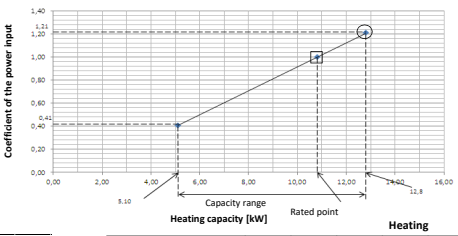
6 - 1 Cooling/Heating Capacity Tables

RZAG100NV1
RZAG100NY1

Cooling



Heating



Symbols
AFR: Air flow rate [m³/min]
BF: Bypass factor
EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Maximum total cooling/heating capacity [kW]

SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors

Cooling

Indoor		Outdoor temperature [°C DB] 25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	11,20	7,61	1,01	10,85	7,44	1,11	10,50	7,29	1,22	10,11	7,09	1,32
18,0	25	11,80	7,59	1,01	11,37	7,49	1,12	11,00	7,27	1,23	10,55	7,09	1,33
19,0	27	12,00	7,57	1,02	11,62	7,44	1,12	**11,20**	**7,26**	**1,23**	10,80	7,04	1,33
19,5	27	12,15	7,59	1,02	11,74	7,37	1,13	11,43	7,34	1,23	10,93	7,04	1,34
22,0	30	12,80	7,52	1,02	12,37	7,36	1,13	11,90	7,16	1,24	11,52	7,03	1,35
24,0	32	13,30	7,42	1,03	12,88	7,27	1,14	12,40	7,06	1,25	11,97	6,91	1,36

Heating

Indoor		Outdoor temperature [°C WB] −15.0		−10.0		−5.0		0.0		6.0		10.0	
		TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB		kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16		8,68	0,92	9,46	0,98	10,1	1,02	10,4	1,05	12,8	1,11	13,8	1,18
18		8,57	0,97	9,44	1,02	10,0	1,06	10,3	1,09	12,8	1,16	13,8	1,23
20		8,56	1,00	9,43	1,06	10,0	1,11	10,3	1,13	**12,8**	**1,21**	13,8	1,27
21		8,56	1,02	9,42	1,08	10,0	1,12	10,3	1,15	12,8	1,23	13,8	1,30
22		8,55	1,04	9,42	1,10	10,0	1,14	10,3	1,18	12,8	1,26	13,8	1,32
24		8,54	1,08	9,41	1,14	10,0	1,19	10,3	1,22	12,8	1,31	13,8	1,37

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ○ = Maximum at standard conditions
   □ = Rated capacity and rated coefficient of the power input
   The maximum capacity is not guaranteed except at standard conditions.
3. ·SHC· is based on indoor units ·EWB & EDB·.
   ·SHC· for other dry-bulb temperatures ·= SHC + SHC*·
   SHC* = ·SHC· correction for other dry-bulb temperatures
   = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
4. The capacities are based on the following conditions:
   Outdoor air: ·85% RH·
   However, the outdoor ambient condition of the rated capacity during heating operation is ·7°C DB / 6°C WB·.
   Corresponding refrigerant piping length: ·5.0· m
   Level difference: ·0·m
5. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
6. The error rate for this value is less than ·5·% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.
9. The rated power input for each model is mentioned in the table below.

Pair

	FCAHG100H	FCAG100B	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
AFR	32.3	22.8	26.0	28.0	28.0	31.0	29.0
(BF)	(0.17)	(0.17)	(0.10)	(0.20)	(0.09)	(0.20)	(0.03)

Twin

	FCAG50B X 2	FHA50A X 2	FFA50A X 2	FDXM50F X 2	FBA50A X 2	FNA50A X 2
AFR	12.6 x 2	15.0 x 2	12.0 x 2	15.8 x 2	15.0 x 2	16.0 x 2
(BF)	(0.22 x 2)	(0.18 x 2)	(0.16 x 2)	(0.11 x 2)	(0.13 x 2)	(0.11 x 2)

Triple

	FCAG35B X 3	FHA35A X 3	FFA35A X 3	FDXM35F X 3	FBA35A x 3	FNA35A X 3
AFR	12.5 x 3	14.0 x 3	10.0 x 3	8.7 x 3	15.0 x 3	8.7 x 3
(BF)	(0.40 x 3)	(0.17 x 3)	(0.25 x 3)	(0.17 x 3)	(0.08 x 3)	(0.17 x 3)

Pair

	FCAHG100H	FCAG100B	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	2,25	2,65	2,54	2,66	2,31	2,66	2,58
Heating	2,16	3,01	3,41	2,73	2,72	2,68	2,79

Twin

	FCAG50B X 2	FHA50A X 2	FFA50A X 2	FDXM50F X 2	FBA50A X 2	FNA50A X 2
Cooling	2,16	2,35	2,51	2,00	2,29	2,10
Heating	2,37	2,65	2,75	2,57	2,79	2,57

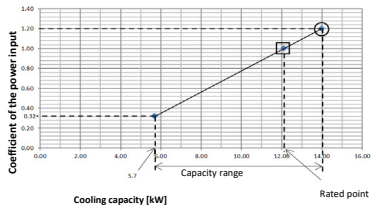
Triple

	FCAG35B X 3	FHA35A X 3	FFA35A X 3	FDXM35F X 3	FBA35A x 3	FNA35A X 3
Cooling	2,05	2,03	2,23	2,11	2,20	2,17
Heating	2,16	2,15	2,76	2,91	2,32	2,91

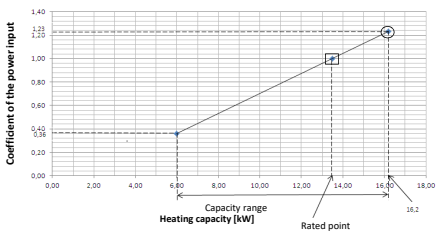
3D125181

RZAG125NV1
RZAG125NY1

Cooling



Heating



Symbols
AFR: Air flow rate [m³/min]
BF: Bypass factor
EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Maximum total cooling/heating capacity [kW]

SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors

Cooling

Indoor		Outdoor temperature [°C DB] 25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	14.10	9.54	0.99	13.60	9.30	1.09	13.10	9.12	1.19	12.60	8.78	1.29
18.0	25	14.70	9.50	0.99	14.20	9.32	1.09	13.70	9.09	1.20	13.20	8.83	1.30
19.0	27	15.00	9.52	1.00	14.50	9.34	1.10	**14.00**	**9.06**	**1.20**	13.50	8.87	1.31
19.5	27	15.21	9.52	1.00	14.68	9.26	1.11	14.15	9.08	1.20	13.64	8.81	1.31
22.0	30	16.00	9.39	1.00	15.47	9.14	1.11	14.90	8.95	1.21	14.38	8.74	1.32
24.0	32	16.70	9.31	1.01	16.10	9.09	1.11	15.50	8.83	1.23	14.97	8.63	1.33

Heating

Indoor		Outdoor temperature [°C WB] −15.0		−10.0		−5.0		0.0		6.0		10.0	
		TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB		kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16		11.0	0.94	12.1	1.00	12.9	1.03	13.2	1.06	16.2	1.13	17.5	1.20
18		11.0	0.98	12.1	1.03	12.9	1.08	13.2	1.11	16.2	1.18	17.5	1.25
20		11.0	1.02	12.0	1.08	12.9	1.13	13.2	1.15	**16.2**	**1.23**	17.5	1.30
21		11.0	1.04	12.0	1.10	12.8	1.14	13.2	1.17	16.2	1.25	17.5	1.32
22		11.0	1.06	12.0	1.12	12.8	1.16	13.2	1.20	16.2	1.28	17.4	1.34
24		11.0	1.10	12.0	1.16	12.8	1.21	13.2	1.24	16.2	1.33	17.4	1.39

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ○ = Maximum at standard conditions
   □ = Rated capacity and rated coefficient of the power input
   The maximum capacity is not guaranteed except at standard conditions.
3. ·SHC· is based on indoor units ·EWB & EDB·.
   ·SHC· for other dry-bulb temperatures ·= SHC + SHC*·
   SHC* = ·SHC· correction for other dry-bulb temperatures
   = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
4. The capacities are based on the following conditions:
   Outdoor air: ·85% RH·
   However, the outdoor ambient condition of the rated capacity during heating operation is ·7°C DB / 6°C WB·.
   Corresponding refrigerant piping length: ·5.0· m
   Level difference: ·0·m
5. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
6. The error rate for this value is less than ·5·% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.
9. The rated power input for each model is mentioned in the table below.

Pair

	FCAHG125H	FCAG125B	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
AFR	33.5	26.0	39.0	28.0	31.0	32.5	34.0
(BF)	(0.19)	(0.21)	(0.16)	(0.16)	(0.14)	(0.19)	(0.06)

Twin

	FCAG60B X 2	FHA60A X 2	FFA60A X 2	FDXM60F X 2	FBA60A X 2	FNA60A X 2
AFR	13.6 x 2	19.5 x 2	14.5 x 2	16.0 x 2	18.0 x 2	16.0 x 2
(BF)	(0.20 x 2)	(0.20 x 2)	(0.11 x 2)	(0.12 x 2)	(0.18 x 2)	(0.12 x 2)

Triple

	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 x 3	15.0 x 3	12.0 x 3	15.8 x 3	15.0 x 3	16.0 x 3
(BF)	(0.22 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin

	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 x 4	14.0 x 4	10.0 x 4	8.7 x 4	15.0 x 4	8.7 x 4
(BF)	(0.40 x 4)	(0.17 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair

	FCAHG125H	FCAG125B	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
Cooling	3,15	3,65	3,73	3,77	3,56	4,00	3,70
Heating	3,08	3,82	3,26	3,84	3,36	3,40	3,15

Twin

	FCAG60B X 2	FHA60A X 2	FFA60A X 2	FDXM60F X 2	FBA60A X 2	FNA60A X 2
Cooling	2,76	2,83	3,35	2,60	2,78	2,65
Heating	3,49	3,27	3,58	3,03	2,82	3,04

Triple

	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F X 3	FBA50A X 3	FNA50A X 3
Cooling	2,57	2,79	2,97	2,36	2,74	2,50
Heating	2,86	2,73	3,19	2,46	2,69	2,53

Double twin

	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F X 4	FBA35A X 4	FNA35A X 4
Cooling	2,51	2,45	2,71	2,55	2,96	2,62
Heating	2,63	2,41	3,44	2,88	2,84	2,91

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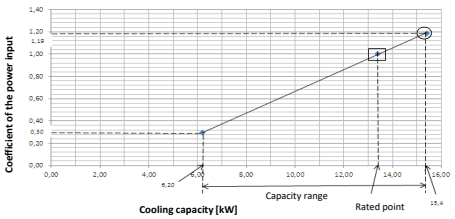
6 Capacity tables

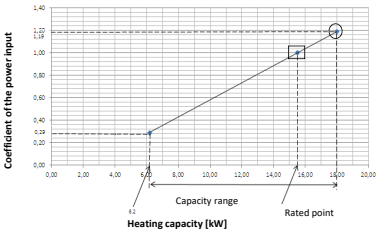
6 - 1 Cooling/Heating Capacity Tables

RZAG140NV1
RZAG140NY1

Cooling



Heating



Symbols
AFR: Air flow rate [m³/min]
BF: Bypass factor
EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Maximum total cooling/heating capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	15,50	10,47	0,98	14,93	10,25	1,08	14,44	10,03	1,18	13,86	9,69	1,28
18,0	25	16,17	10,55	0,98	15,62	10,21	1,09	15,11	10,01	1,19	14,52	9,71	1,30
19,0	27	16,56	10,43	0,99	15,96	10,18	1,09	**15,40**	**9,98**	**1,19**	14,83	9,76	1,30
19,5	27	16,74	10,49	0,99	16,14	10,16	1,10	15,57	10,00	1,19	14,98	9,66	1,30
22,0	30	17,61	10,37	0,99	17,01	10,16	1,10	16,36	9,83	1,21	15,76	9,60	1,31
24,0	32	18,38	10,20	1,00	17,72	10,00	1,11	17,04	9,67	1,22	16,43	9,47	1,32

Heating

Indoor	Outdoor temperature [°C WB]											
	−15.0		−10.0		−5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	18.0	1.09	19.4	1.16
18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	18.0	1.14	19.4	1.21
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	**18.0**	**1.19**	19.4	1.25
21	11.5	1.00	12.7	1.06	13.5	1.11	13.9	1.13	18.0	1.21	19.4	1.28
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.24	19.4	1.30
24	11.5	1.07	12.6	1.12	13.5	1.17	13.9	1.20	18.0	1.29	19.4	1.35

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ◯ = Maximum at standard conditions
   □ = Rated capacity and rated coefficient of the power input
   The maximum capacity is not guaranteed except at standard conditions.
3. ·SHC· is based on indoor units ·EWB & EDB·.
   ·SHC· for other dry-bulb temperatures = SHC + SHC*·
   SHC* = ·SHC· correction for other dry-bulb temperatures
   = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
4. The capacities are based on the following conditions:
   Outdoor air: ·85% RH·
   However, the outdoor ambient condition of the rated capacity during heating operation is ·7°C DB / 6°C WB·.
   Corresponding refrigerant piping length: ·5.0· m
   Level difference: ·0·m
5. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
6. The error rate for this value is less than ·5·% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.
9. The rated power input for each model is mentioned in the table below.

Pair

	FCAHG140H	FCAG140B	FVA140A	FHA140A	FBA140A
AFR	33.5	26.0	30.0	34.0	34.0
(BF)	(0.15)	(0.23)	(0.18)	(0.17)	(0.06)

Twin

	FCAHG71H X 2	FCAG71B X 2	FAA71A X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FVA71A X 2
AFR	21.2 x 2	15.3 x 2	18.0 x 2	20.5 x 2	23.0 x 2	18.0 x 2	18.0 x 2
(BF)	(0.20 x2)	(0.14 x 2)	(0.16 x 2)	(0.13 x 2)	(0.24 x2)	(0.13 x2)	(0.16 x2)

Triple

	FCAG50B X 3	FHA50A X 3	FFA50A X 3	FDXM50F X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 x 3	15.0 x 3	12.0 x 3	15.8 x 3	15.0 x 3	16.0 x 3
(BF)	(0.22 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin

	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 x 4	14.0 x 4	10.0 x 4	8.7 x 4	15.0 x 4	8.7 x 4
(BF)	(0.40 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair

	FCAHG140H	FCAG140B	FVA140A	FHA140A	FBA140A
Cooling	3,64	4,29	4,42	4,31	4,69
Heating	3,64	4,55	4,48	4,33	4,92

Twin

	FCAHG71H X 2	FCAG71B X 2	FAA71A X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FVA71A X 2
Cooling	2,89	3,15	3,27	3,01	3,02	2,97	3,33
Heating	3,03	3,69	3,67	3,50	3,28	3,55	3,92

Triple

	FCAG50B X 3	FHA50A X 3	FFA50A X 3	FDXM50F X 3	FBA50A X 3	FNA50A X 3
Cooling	2,88	3,14	3,37	2,65	3,06	2,79
Heating	3,44	3,29	3,87	2,96	3,23	3,03

Double twin

	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F X 4	FBA35A X 4	FNA35A X 4
Cooling	3,08	2,73	3,04	2,87	3,32	2,94
Heating	3,97	2,89	4,19	3,49	4,22	3,53

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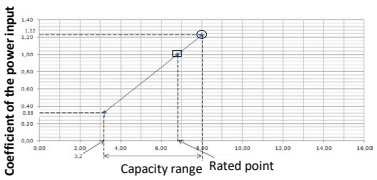
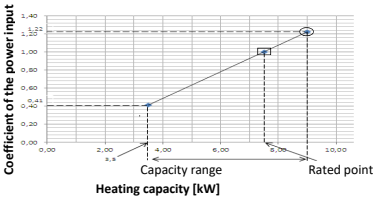
RZAG71NV1
RZAG71NY1

Cooling



Heating



Symbols
AFR: Air flow rate [m³/min]
BF: Bypass factor
EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Maximum total cooling/heating capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors

Cooling **Cooling capacity [kW]**

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16,0	22	8,03	5,45	1,00	7,76	5,32	1,11	7,48	5,20	1,21	7,21	5,06	1,32
18,0	25	8,40	5,45	1,00	8,11	5,32	1,11	7,83	5,19	1,22	7,54	5,05	1,33
19,0	27	8,59	5,44	1,01	8,30	5,32	1,12	**8,00**	**5,18**	**1,22**	7,70	5,05	1,33
19,5	27	8,68	5,43	1,01	8,39	5,31	1,12	8,09	5,17	1,22	7,79	5,05	1,33
22,0	30	9,15	5,38	1,01	8,84	5,25	1,12	8,52	5,13	1,23	8,21	4,99	1,34
24,0	32	9,53	5,31	1,03	9,20	5,19	1,13	8,87	5,06	1,25	8,54	4,92	1,35

Heating

Indoor	Outdoor temperature [°C WB]											
	−15.0		−10.0		−5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	6.44	0.93	7.09	0.99	7.65	1.02	7.79	1.06	9.00	1.12	9.71	1.19
18	6.43	0.98	7.08	1.03	7.54	1.07	7.78	1.10	9.00	1.17	9.71	1.24
20	6.42	1.01	7.07	1.07	7.53	1.12	7.77	1.14	**9.00**	**1.22**	9.71	1.28
21	6.42	1.03	7.07	1.09	7.52	1.13	7.77	1.16	9.00	1.24	9.71	1.31
22	6.42	1.05	7.06	1.11	7.52	1.15	7.76	1.19	9.00	1.27	9.71	1.33
24	6.41	1.09	7.05	1.15	7.51	1.20	7.75	1.23	9.00	1.32	9.67	1.38

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ◯ = Maximum at standard conditions
   □ = Rated capacity and rated coefficient of the power input
   The maximum capacity is not guaranteed except at standard conditions.
3. ·SHC· is based on indoor units ·EWB & EDB·.
   ·SHC· for other dry-bulb temperatures = SHC + SHC*·
   SHC*= ·SHC· correction for other dry-bulb temperatures
   = 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
4. The capacities are based on the following conditions:
   Outdoor air: ·85% RH·
   However, the outdoor ambient condition of the rated capacity during heating operation is ·7°C DB / 6°C WB·.
   Corresponding refrigerant piping length: ·5.0· m
   Level difference: ·0·m
5. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
6. The error rate for this value is less than ·5·% and depends on the indoor unit type.
7. The heating performance takes into account the drop that occurs during defrost operation.
8. The air flow rate and bypass factor are mentioned in the table.
9. The rated power input for each model is mentioned in the table below.

Pair

	FCAHG71H	FCAG71B	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
AFR	21.2	15.3	18.0	18.0	20.5	23.0	18.0
(BF)	(0.20)	(0.14)	(0.16)	(0.16)	(0.13)	(0.24)	(0.13)

Twin

	FCAG35B X 2	FHA35A X 2	FFA35A X 2	FDXM35F X 2	FBA35A X 2	FNA35A X 2
AFR	12.5 x 2	14.0 x 2	10.0 x 2	8.7 x 2	15.0 x 2	8.7 x 2
(BF)	(0.40 x 2)	(0.17 x 2)	(0.25 x 2)	(0.17 x 2)	(0.08 x 2)	(0.17 x 2)

Pair

	FCAHG71H	FCAG71B	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
Cooling	1,65	1,92	2,08	2,08	1,81	1,77	2,00
Heating	1,60	2,02	2,19	2,21	1,90	1,73	1,99

Twin

	FCAG35B X 2	FHA35A X 2	FFA35A X 2	FDXM35F X 2	FBA35A X 2	FNA35A X 2
Cooling	1,56	1,53	1,75	1,64	1,67	1,68
Heating	1,59	1,69	2,25	1,84	1,90	1,86

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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG140NV1
RZAG140NY1

Performance characteristics for ·EDP· room

Indoor			Outdoor temperature [°C DB]																																					
			-20			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
41,8	11	18	8,24	8,24	0,31	8,24	8,24	0,32	8,24	8,24	0,33	8,24	8,24	0,34	8,24	8,24	0,35	8,24	8,24	0,37	8,24	8,24	0,37	8,24	8,24	0,37	8,24	8,24	0,38	10,95	9,96	0,96	10,37	9,62	1,06	9,79	9,27	1,16	9,28	8,92	1,25
57,0	13		10,28	8,22	0,40	10,28	8,22	0,41	10,28	8,22	0,42	10,28	8,22	0,43	10,28	8,22	0,45	10,28	8,22	0,45	10,28	8,22	0,44	10,28	8,22	0,44	10,28	8,22	0,44	12,72	9,56	0,97	12,18	9,25	1,07	11,65	8,93	1,17	11,07	8,58	1,26
31,4	11	20	8,24	8,24	0,31	8,24	8,24	0,32	8,24	8,24	0,33	8,24	8,24	0,34	8,24	8,24	0,35	8,24	8,24	0,37	8,24	8,24	0,37	8,24	8,24	0,37	8,24	8,24	0,38	10,95	10,95	0,96	10,37	10,37	1,06	9,79	9,79	1,16	9,28	9,28	1,25
44,9	13		10,28	9,35	0,40	10,28	9,35	0,41	10,28	9,35	0,42	10,28	9,35	0,43	10,28	9,35	0,45	10,28	9,35	0,45	10,28	9,35	0,44	10,28	9,35	0,44	10,28	9,35	0,44	12,72	10,64	0,97	12,18	10,33	1,07	11,65	10,00	1,17	11,07	9,65	1,26
52,0	14		11,30	9,26	0,45	11,30	9,26	0,45	11,30	9,26	0,47	11,30	9,26	0,48	11,30	9,26	0,49	11,30	9,26	0,49	11,30	9,26	0,48	11,30	9,26	0,47	11,30	9,26	0,47	13,75	10,53	0,97	13,40	10,36	1,07	13,04	10,19	1,17	12,68	9,90	1,27
22,9	11	22	8,24	8,24	0,31	8,24	8,24	0,32	8,24	8,24	0,33	8,24	8,24	0,34	8,24	8,24	0,35	8,24	8,24	0,37	8,24	8,24	0,37	8,24	8,24	0,37	8,24	8,24	0,38	10,95	10,95	0,96	10,37	10,37	1,06	9,79	9,79	1,16	9,28	9,28	1,25
34,8	13		10,28	10,28	0,40	10,28	10,28	0,41	10,28	10,28	0,42	10,28	10,28	0,43	10,28	10,28	0,45	10,28	10,28	0,45	10,28	10,28	0,44	10,28	10,28	0,44	10,28	10,28	0,44	12,72	12,72	0,97	12,18	12,18	1,07	11,65	11,65	1,17	11,07	11,07	1,26
47,6	15		12,32	10,10	0,50	12,32	10,10	0,50	12,32	10,10	0,51	12,32	10,10	0,52	12,32	10,10	0,54	12,32	10,10	0,53	12,32	10,10	0,51	12,32	10,10	0,50	12,32	10,10	0,50	14,77	11,47	0,98	14,26	11,18	1,08	13,76	10,88	1,18	13,25	10,57	1,27
54,3	16		13,33	9,73	0,54	13,33	9,73	0,54	13,33	9,73	0,56	13,33	9,73	0,57	13,33	9,73	0,58	13,33	9,73	0,57	13,33	9,73	0,55	13,33	9,73	0,53	13,33	9,73	0,54	15,50	10,47	0,98	14,93	10,25	1,08	14,44	10,03	1,18	13,86	9,69	1,28
21,2	12	24	9,26	9,26	0,36	9,26	9,26	0,37	9,26	9,26	0,38	9,26	9,26	0,39	9,26	9,26	0,40	9,26	9,26	0,41	9,26	9,26	0,41	9,26	9,26	0,41	9,26	9,26	0,41	11,83	11,83	0,97	11,28	11,28	1,07	10,72	10,72	1,17	10,17	10,17	1,25
32,1	14		11,30	11,30	0,45	11,30	11,30	0,45	11,30	11,30	0,47	11,30	11,30	0,48	11,30	11,30	0,49	11,30	11,30	0,49	11,30	11,30	0,48	11,30	11,30	0,47	11,30	11,30	0,47	13,75	13,75	0,97	13,40	13,40	1,07	13,04	13,04	1,17	12,68	12,68	1,27
43,8	16		13,33	11,20	0,54	13,33	11,20	0,54	13,33	11,20	0,56	13,33	11,20	0,57	13,33	11,20	0,58	13,33	11,20	0,57	13,33	11,20	0,55	13,33	11,20	0,53	13,33	11,20	0,54	15,50	12,14	0,98	14,93	11,86	1,08	14,44	11,62	1,18	13,86	11,30	1,28
50,0	17		13,72	10,15	0,55	13,72	10,15	0,56	13,72	10,15	0,57	13,72	10,15	0,58	13,72	10,15	0,59	13,72	10,15	0,58	13,72	10,15	0,58	13,72	10,15	0,58	13,72	10,15	0,58	16,23	11,78	0,98	15,53	11,43	1,08	14,83	11,06	1,18	14,14	10,63	1,29
21,5	14	27	11,30	11,30	0,45	11,30	11,30	0,45	11,30	11,30	0,47	11,30	11,30	0,48	11,30	11,30	0,49	11,30	11,30	0,49	11,30	11,30	0,48	11,30	11,30	0,47	11,30	11,30	0,47	13,75	13,75	0,97	13,40	13,40	1,07	13,04	13,04	1,17	12,68	12,68	1,27
26,3	15		12,32	12,32	0,50	12,32	12,32	0,50	12,32	12,32	0,51	12,32	12,32	0,52	12,32	12,32	0,54	12,32	12,32	0,53	12,32	12,32	0,51	12,32	12,32	0,50	12,32	12,32	0,50	14,77	14,77	0,98	14,26	14,26	1,08	13,76	13,76	1,18	13,25	13,25	1,27
31,3	16		13,33	13,33	0,54	13,33	13,33	0,54	13,33	13,33	0,56	13,33	13,33	0,57	13,33	13,33	0,58	13,33	13,33	0,57	13,33	13,33	0,55	13,33	13,33	0,53	13,33	13,33	0,54	15,50	15,50	0,98	14,93	14,93	1,08	14,44	14,44	1,18	13,86	13,86	1,28

Symbols
TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors
RH: Relative humidity [%]

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
Outdoor air: ·85% RH·
Corresponding refrigerant piping length: ·5.0· m
Level difference: ·0·m
3. For ·EDP· applications, it is recommended to use outdoor unit setting ·2-57-2·.
4. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
5. The error rate for this value is less than ·5·% and depends on the indoor unit type.
6. The rated power input for each model is mentioned in the table below.

Pair

	FCAHG140H	FCAG140B	FVA140A	FHA140A	FBA140A
Cooling	3,64	4,29	4,42	4,31	4,69

Twin

	FCAHG71Hx2	FCAG71Bx2	FHA71Ax2	FUA71Ax2	FAA71Ax2	FBA71Ax2
Cooling	2,89	3,15	3,01	3,02	3,27	2,97

Triple

	FCAG50Bx3	FHA50Ax3	FFA50Ax3	FDXM50Fx3	FBA50Ax3
Cooling	2,88	3,14	3,37	2,65	3,06

Double twin

	FCAG35Bx4	FHA35Ax4	FFA35Ax4	FDXM35Fx4	FBA35Ax4
Cooling	3,08	2,73	3,04	2,87	3,32

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RZAG125NV1
RZAG125NY1

Performance characteristics for ·EDP· room

Indoor			Outdoor temperature [°C DB]																																					
			-20			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
41,8	11	18	7,49	7,49	0,32	7,49	7,49	0,33	7,49	7,49	0,34	7,49	7,49	0,35	7,49	7,49	0,36	7,49	7,49	0,37	7,49	7,49	0,38	7,49	7,49	0,38	7,49	7,49	0,38	10,25	9,60	0,98	9,71	9,28	1,08	9,17	8,94	1,18	8,69	8,60	1,27
57,0	13		9,34	7,60	0,41	9,34	7,60	0,42	9,34	7,60	0,43	9,34	7,60	0,44	9,34	7,60	0,45	9,34	7,60	0,45	9,34	7,60	0,45	9,34	7,60	0,45	9,34	7,60	0,45	11,91	9,22	0,99	11,41	8,92	1,09	10,91	8,61	1,19	10,37	8,28	1,28
31,4	11	20	7,49	7,49	0,32	7,49	7,49	0,33	7,49	7,49	0,34	7,49	7,49	0,35	7,49	7,49	0,36	7,49	7,49	0,37	7,49	7,49	0,38	7,49	7,49	0,38	7,49	7,49	0,38	10,25	10,25	0,98	9,71	9,71	1,08	9,17	9,17	1,18	8,69	8,69	1,27
44,9	13		9,34	8,65	0,41	9,34	8,65	0,42	9,34	8,65	0,43	9,34	8,65	0,44	9,34	8,65	0,45	9,34	8,65	0,45	9,34	8,65	0,45	9,34	8,65	0,45	9,34	8,65	0,45	11,91	10,27	0,99	11,41	9,96	1,09	10,91	9,64	1,19	10,37	9,31	1,28
52,0	14		10,27	8,56	0,46	10,27	8,56	0,46	10,27	8,56	0,47	10,27	8,56	0,49	10,27	8,56	0,50	10,27	8,56	0,49	10,27	8,56	0,49	10,27	8,56	0,48	10,27	8,56	0,48	12,88	10,16	0,99	12,54	10,00	1,09	12,21	9,83	1,19	11,87	9,55	1,29
22,9	11	22	7,49	7,49	0,32	7,49	7,49	0,33	7,49	7,49	0,34	7,49	7,49	0,35	7,49	7,49	0,36	7,49	7,49	0,37	7,49	7,49	0,38	7,49	7,49	0,38	7,49	7,49	0,38	10,25	10,25	0,98	9,71	9,71	1,08	9,17	9,17	1,18	8,69	8,69	1,27
34,8	13		9,34	9,34	0,41	9,34	9,34	0,42	9,34	9,34	0,43	9,34	9,34	0,44	9,34	9,34	0,45	9,34	9,34	0,45	9,34	9,34	0,45	9,34	9,34	0,45	9,34	9,34	0,45	11,91	11,91	0,99	11,41	11,41	1,09	10,91	10,91	1,19	10,37	10,37	1,28
47,6	15		11,20	9,34	0,50	11,20	9,34	0,51	11,20	9,34	0,52	11,20	9,34	0,53	11,20	9,34	0,55	11,20	9,34	0,54	11,20	9,34	0,52	11,20	9,34	0,51	11,20	9,34	0,51	13,83	11,06	0,99	13,36	10,78	1,09	12,88	10,49	1,20	12,41	10,20	1,29
54,3	16		12,12	9,00	0,55	12,12	9,00	0,55	12,12	9,00	0,57	12,12	9,00	0,58	12,12	9,00	0,59	12,12	9,00	0,58	12,12	9,00	0,56	12,12	9,00	0,54	12,12	9,00	0,55	14,51	10,10	1,00	13,98	9,89	1,10	13,52	9,67	1,20	12,98	9,35	1,30
21,2	12	24	8,42	8,42	0,36	8,42	8,42	0,37	8,42	8,42	0,38	8,42	8,42	0,39	8,42	8,42	0,41	8,42	8,42	0,41	8,42	8,42	0,41	8,42	8,42	0,41	8,42	8,42	0,41	11,08	11,08	0,98	10,56	10,56	1,08	10,04	10,04	1,19	9,53	9,53	1,27
32,1	14		10,27	10,27	0,46	10,27	10,27	0,46	10,27	10,27	0,47	10,27	10,27	0,49	10,27	10,27	0,50	10,27	10,27	0,49	10,27	10,27	0,49	10,27	10,27	0,48	10,27	10,27	0,48	12,88	12,88	0,99	12,54	12,54	1,09	12,21	12,21	1,19	11,87	11,87	1,29
43,8	16		12,12	10,35	0,55	12,12	10,35	0,55	12,12	10,35	0,57	12,12	10,35	0,58	12,12	10,35	0,59	12,12	10,35	0,58	12,12	10,35	0,56	12,12	10,35	0,54	12,12	10,35	0,55	14,51	11,71	1,00	13,98	11,44	1,10	13,52	11,21	1,20	12,98	10,90	1,30
50,0	17		12,47	9,38	0,56	12,47	9,38	0,57	12,47	9,38	0,58	12,47	9,38	0,59	12,47	9,38	0,60	12,47	9,38	0,59	12,47	9,38	0,59	12,47	9,38	0,59	12,47	9,38	0,59	15,20	11,36	1,00	14,54	11,02	1,10	13,89	10,66	1,20	13,24	10,25	1,31
21,5	14	27	10,27	10,27	0,46	10,27	10,27	0,46	10,27	10,27	0,47	10,27	10,27	0,49	10,27	10,27	0,50	10,27	10,27	0,49	10,27	10,27	0,49	10,27	10,27	0,48	10,27	10,27	0,48	12,88	12,88	0,99	12,54	12,54	1,09	12,21	12,21	1,19	11,87	11,87	1,29
26,3	15		11,20	11,20	0,50	11,20	11,20	0,51	11,20	11,20	0,52	11,20	11,20	0,53	11,20	11,20	0,55	11,20	11,20	0,54	11,20	11,20	0,52	11,20	11,20	0,51	11,20	11,20	0,51	13,83	13,83	0,99	13,36	13,36	1,09	12,88	12,88	1,20	12,41	12,41	1,29
31,3	16		12,12	12,12	0,55	12,12	12,12	0,55	12,12	12,12	0,57	12,12	12,12	0,58	12,12	12,12	0,59	12,12	12,12	0,58	12,12	12,12	0,56	12,12	12,12	0,54	12,12	12,12	0,55	14,51	14,51	1,00	13,98	13,98	1,10	13,52	13,52	1,20	12,98	12,98	1,30

Symbols
TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors
RH: Relative humidity [%]

Notes
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
Outdoor air: ·85% RH·
Corresponding refrigerant piping length: ·5.0· m
Level difference: ·0·m
3. For ·EDP· applications, it is recommended to use outdoor unit setting ·2-57-2·.
4. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
5. The error rate for this value is less than ·5·% and depends on the indoor unit type.
6. The rated power input for each model is mentioned in the table below.

Pair

	FCAHG140H	FCAG140B	FVA140A	FHA140A	FBA140A
Cooling	3,09	3,07	3,17	3,05	2,99

Twin

	FCAHG71Hx2	FCAG71Bx2	FHA71Ax2	FUA71Ax2	FAA71Ax2	FBA71Ax2
Cooling	2,57	2,79	2,68	2,69	2,88	2,64

Triple

	FCAG50Bx3	FHA50Ax3	FFA50Ax3	FDXM50Fx3	FBA50Ax3
Cooling	2,57	2,79	2,97	2,36	2,74

Double twin

	FCAG35Bx4	FHA35Ax4	FFA35Ax4	FDXM35Fx4	FBA35Ax4
Cooling	2,51	2,45	2,71	2,55	2,96

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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

6

RZAG100NV1
RZAG100NY1

Performance characteristics for ·EDP· room

Indoor			Outdoor temperature [°C DB]																			
			-20			-15			-10			-5			0			5			10		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
41,8	11	18	6,00	6,00	0,32	6,00	6,00	0,33	6,00	6,00	0,34	6,00	6,00	0,35	6,00	6,00	0,37	6,00	6,00	0,38	6,00	6,00	0,38
57,0	13		7,48	6,37	0,42	7,48	6,37	0,42	7,48	6,37	0,44	7,48	6,37	0,45	7,48	6,37	0,46	7,48	6,37	0,46	7,48	6,37	0,46
31,4	11	20	6,00	6,00	0,32	6,00	6,00	0,33	6,00	6,00	0,34	6,00	6,00	0,35	6,00	6,00	0,37	6,00	6,00	0,38	6,00	6,00	0,38
44,9	13		7,48	7,25	0,42	7,48	7,25	0,42	7,48	7,25	0,44	7,48	7,25	0,45	7,48	7,25	0,46	7,48	7,25	0,46	7,48	7,25	0,46
52,0	14		8,22	7,18	0,46	8,22	7,18	0,47	8,22	7,18	0,48	8,22	7,18	0,49	8,22	7,18	0,51	8,22	7,18	0,50	8,22	7,18	0,49
22,9	11	22	6,00	6,00	0,32	6,00	6,00	0,33	6,00	6,00	0,34	6,00	6,00	0,35	6,00	6,00	0,37	6,00	6,00	0,38	6,00	6,00	0,38
34,8	13		7,48	7,48	0,42	7,48	7,48	0,42	7,48	7,48	0,44	7,48	7,48	0,45	7,48	7,48	0,46	7,48	7,48	0,46	7,48	7,48	0,46
47,6	15		8,96	7,82	0,51	8,96	7,82	0,52	8,96	7,82	0,53	8,96	7,82	0,54	8,96	7,82	0,55	8,96	7,82	0,54	8,96	7,82	0,53
54,3	16		9,70	7,54	0,56	9,70	7,54	0,56	9,70	7,54	0,58	9,70	7,54	0,59	9,70	7,54	0,60	9,70	7,54	0,59	9,70	7,54	0,57
21,2	12	24	6,74	6,74	0,37	6,74	6,74	0,38	6,74	6,74	0,39	6,74	6,74	0,40	6,74	6,74	0,41	6,74	6,74	0,42	6,74	6,74	0,42
32,1	14		8,22	8,22	0,46	8,22	8,22	0,47	8,22	8,22	0,48	8,22	8,22	0,49	8,22	8,22	0,51	8,22	8,22	0,50	8,22	8,22	0,49
43,8	16		9,70	8,68	0,56	9,70	8,68	0,56	9,70	8,68	0,58	9,70	8,68	0,59	9,70	8,68	0,60	9,70	8,68	0,59	9,70	8,68	0,57
50,0	17		9,98	7,86	0,57	9,98	7,86	0,58	9,98	7,86	0,59	9,98	7,86	0,60	9,98	7,86	0,61	9,98	7,86	0,60	9,98	7,86	0,60
21,5	14	27	8,22	8,22	0,46	8,22	8,22	0,47	8,22	8,22	0,48	8,22	8,22	0,49	8,22	8,22	0,51	8,22	8,22	0,50	8,22	8,22	0,49
26,3	15		8,96	8,96	0,51	8,96	8,96	0,52	8,96	8,96	0,53	8,96	8,96	0,54	8,96	8,96	0,55	8,96	8,96	0,54	8,96	8,96	0,53
31,3	16		9,70	9,70	0,56	9,70	9,70	0,56	9,70	9,70	0,58	9,70	9,70	0,59	9,70	9,70	0,60	9,70	9,70	0,59	9,70	9,70	0,57

Indoor			Outdoor temperature [°C DB]																	
			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
41,8	11	18	6,00	6,00	0,39	6,00	6,00	0,39	8,36	7,98	1,00	7,92	7,72	1,10	7,48	7,43	1,20	7,09	7,15	1,29
57,0	13		7,48	6,37	0,45	7,48	6,37	0,46	9,71	7,67	1,00	9,30	7,42	1,11	8,90	7,16	1,21	8,45	6,88	1,30
31,4	11	20	6,00	6,00	0,39	6,00	6,00	0,39	8,36	8,36	1,00	7,92	7,92	1,10	7,48	7,48	1,20	7,09	7,09	1,29
44,9	13		7,48	7,25	0,45	7,48	7,25	0,46	9,71	8,53	1,00	9,30	8,28	1,11	8,90	8,01	1,21	8,45	7,74	1,30
52,0	14		8,22	7,18	0,49	8,22	7,18	0,49	10,50	8,45	1,01	10,23	8,31	1,11	9,96	8,17	1,21	9,68	7,94	1,31
22,9	11	22	6,00	6,00	0,39	6,00	6,00	0,39	8,36	8,36	1,00	7,92	7,92	1,10	7,48	7,48	1,20	7,09	7,09	1,29
34,8	13		7,48	7,48	0,45	7,48	7,48	0,46	9,71	9,71	1,00	9,30	9,30	1,11	8,90	8,90	1,21	8,45	8,45	1,30
47,6	15		8,96	7,82	0,52	8,96	7,82	0,52	11,28	9,19	1,01	10,89	8,96	1,11	10,51	8,72	1,22	10,12	8,48	1,32
54,3	16		9,70	7,54	0,55	9,70	7,54	0,56	11,84	8,40	1,01	11,40	8,22	1,11	11,03	8,04	1,22	10,58	7,77	1,32
21,2	12	24	6,74	6,74	0,42	6,74	6,74	0,42	9,04	9,04	1,00	8,61	8,61	1,10	8,19	8,19	1,21	7,77	7,77	1,30
32,1	14		8,22	8,22	0,49	8,22	8,22	0,49	10,50	10,50	1,01	10,23	10,23	1,11	9,96	9,96	1,21	9,68	9,68	1,31
43,8	16		9,70	8,68	0,55	9,70	8,68	0,56	11,84	9,74	1,01	11,40	9,51	1,12	11,03	9,32	1,22	10,58	9,06	1,32
50,0	17		9,98	7,86	0,60	9,98	7,86	0,60	12,39	9,45	1,02	11,86	9,16	1,12	11,33	8,86	1,22	10,80	8,52	1,33
21,5	14	27	8,22	8,22	0,49	8,22	8,22	0,49	10,50	10,50	1,01	10,23	10,23	1,11	9,96	9,96	1,21	9,68	9,68	1,31
26,3	15		8,96	8,96	0,52	8,96	8,96	0,52	11,28	11,28	1,01	10,89	10,89	1,11	10,51	10,51	1,22	10,12	10,12	1,32
31,3	16		9,70	9,70	0,55	9,70	9,70	0,56	11,84	11,84	1,01	11,40	11,40	1,12	11,03	11,03	1,22	10,58	10,58	1,32

Symbols

TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors
RH: Relative humidity [%]

Pair

	FCAHG140H	FCAG140B	FVA140A	FHA140A	FBA140A
Cooling	2,35	2,28	2,39	2,32	2,25

Twin

	FCAHG71H x 2	FCAG71B x 2	FHA71A x 2	FUA71A x 2	FAA71A x 2	FBA71A x 2
Cooling	2,02	2,15	2,10	2,11	2,19	2,06

Triple

	FCAG50B x 3	FHA50A x 3	FFA50A x 3	FDXM50F x 3	FBA50A x 3
Cooling	2,03	2,18	2,25	1,88	2,18

Double twin

	FCAG35B x 4	FHA35A x 4	FFA35A x 4	FDXM35F x 4	FBA35A x 4
Cooling	2,00	2,01	2,12	2,00	2,18

Notes

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   Outdoor air: ·85% RH·
   Corresponding refrigerant piping length: ·5.0· m
   Level difference: ·0·m
3. For ·EDP· applications, it is recommended to use outdoor unit setting ·2-57-2·.
4. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
5. The error rate for this value is less than ·5·% and depends on the indoor unit type.
6. The rated power input for each model is mentioned in the table below.

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RZAG71NV1
RZAG71NY1

Performance characteristics for ·EDP· room

Indoor			Outdoor temperature [°C DB]																			
			-20			-15			-10			-5			0			5			10		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
41,8	11	18	4,81	4,67	0,32	4,81	4,67	0,34	4,81	4,67	0,36	4,81	4,67	0,37	4,81	4,67	0,39	4,81	4,67	0,41	4,81	4,67	0,43
57,0	13		6,02	5,05	0,33	6,02	5,05	0,37	6,02	5,05	0,41	6,02	5,05	0,45	6,02	5,05	0,50	6,02	5,05	0,52	6,02	5,05	0,55
31,4	11	20	4,81	4,81	0,32	4,81	4,81	0,34	4,81	4,81	0,36	4,81	4,81	0,37	4,81	4,81	0,39	4,81	4,81	0,41	4,81	4,81	0,43
44,9	13		6,02	6,02	0,33	6,02	6,02	0,37	6,02	6,02	0,41	6,02	6,02	0,45	6,02	6,02	0,50	6,02	6,02	0,52	6,02	6,02	0,55
52,0	14		6,62	5,76	0,34	6,62	5,76	0,38	6,62	5,76	0,44	6,62	5,76	0,50	6,62	5,76	0,55	6,62	5,76	0,58	6,62	5,76	0,60
22,9	11	22	4,81	4,81	0,32	4,81	4,81	0,34	4,81	4,81	0,36	4,81	4,81	0,37	4,81	4,81	0,39	4,81	4,81	0,41	4,81	4,81	0,43
34,8	13		6,02	6,02	0,33	6,02	6,02	0,37	6,02	6,02	0,41	6,02	6,02	0,45	6,02	6,02	0,50	6,02	6,02	0,52	6,02	6,02	0,55
47,6	15		7,22	6,06	0,34	7,22	6,06	0,39	7,22	6,06	0,46	7,22	6,06	0,54	7,22	6,06	0,61	7,22	6,06	0,63	7,22	6,06	0,66
54,3	16		7,82	5,71	0,35	7,82	5,71	0,41	7,82	5,71	0,49	7,82	5,71	0,58	7,82	5,71	0,66	7,82	5,71	0,69	7,82	5,71	0,72
21,2	12	24	5,41	5,41	0,33	5,41	5,41	0,36	5,41	5,41	0,38	5,41	5,41	0,41	5,41	5,41	0,44	5,41	5,41	0,46	5,41	5,41	0,49
32,1	14		6,62	6,62	0,34	6,62	6,62	0,38	6,62	6,62	0,44	6,62	6,62	0,50	6,62	6,62	0,55	6,62	6,62	0,58	6,62	6,62	0,60
43,8	16		7,82	6,57	0,35	7,82	6,57	0,41	7,82	6,57	0,49	7,82	6,57	0,58	7,82	6,57	0,66	7,82	6,57	0,69	7,82	6,57	0,72
50,0	17		8,10	6,08	0,37	8,10	6,08	0,43	8,10	6,08	0,51	8,10	6,08	0,60	8,10	6,08	0,68	8,10	6,08	0,70	8,10	6,08	0,73
21,5	14	27	6,62	6,62	0,34	6,62	6,62	0,38	6,62	6,62	0,44	6,62	6,62	0,50	6,62	6,62	0,55	6,62	6,62	0,58	6,62	6,62	0,60
26,3	15		7,22	7,22	0,34	7,22	7,22	0,39	7,22	7,22	0,46	7,22	7,22	0,54	7,22	7,22	0,61	7,22	7,22	0,63	7,22	7,22	0,66
31,3	16		7,82	7,82	0,35	7,82	7,82	0,41	7,82	7,82	0,49	7,82	7,82	0,58	7,82	7,82	0,66	7,82	7,82	0,69	7,82	7,82	0,72

Indoor			Outdoor temperature [°C DB]																	
			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
41,8	11	18	4,81	4,67	0,46	4,81	4,67	0,48	5,90	5,90	0,98	5,85	5,85	1,09	5,80	5,80	1,19	5,76	5,76	1,30
57,0	13		6,02	5,05	0,57	6,02	5,05	0,64	7,49	5,89	0,99	7,23	5,75	1,10	6,96	5,61	1,20	6,70	5,47	1,31
31,4	11	20	4,81	4,81	0,46	4,81	4,81	0,48	5,90	5,90	0,98	5,85	5,85	1,09	5,80	5,80	1,19	5,76	5,76	1,30
44,9	13		6,02	6,02	0,57	6,02	6,02	0,64	7,49	7,00	0,99	7,23	6,81	1,10	6,96	6,60	1,20	6,70	6,37	1,31
52,0	14		6,62	5,76	0,63	6,62	5,76	0,72	8,15	6,56	0,99	7,74	6,36	1,10	7,34	6,15	1,20	6,93	5,93	1,31
22,9	11	22	4,81	4,81	0,46	4,81	4,81	0,48	5,90	5,90	0,98	5,85	5,85	1,09	5,80	5,80	1,19	5,76	5,76	1,30
34,8	13		6,02	6,02	0,57	6,02	6,02	0,64	7,49	7,49	0,99	7,23	7,23	1,10	6,96	6,96	1,20	6,70	6,70	1,31
47,6	15		7,22	6,06	0,69	7,22	6,06	0,79	8,41	7,00	1,00	7,99	6,80	1,11	7,58	6,60	1,21	7,16	6,37	1,32
54,3	16		7,82	5,71	0,75	7,82	5,71	0,87	8,68	6,54	1,00	8,25	6,35	1,11	7,83	6,14	1,21	7,40	5,92	1,32
21,2	12	24	5,41	5,41	0,52	5,41	5,41	0,56	6,70	6,70	0,99	6,54	6,54	1,10	6,38	6,38	1,20	6,23	6,23	1,31
32,1	14		6,62	6,62	0,63	6,62	6,62	0,72	8,15	8,15	0,99	7,74	7,74	1,10	7,34	7,34	1,20	6,93	6,93	1,31
43,8	16		7,82	6,57	0,75	7,82	6,57	0,87	8,68	7,45	1,00	8,25	7,26	1,11	7,83	7,04	1,21	7,40	6,82	1,32
50,0	17		8,10	6,08	0,75	8,10	6,08	0,88	8,96	6,99	1,00	8,53	6,80	1,11	8,09	6,59	1,21	7,66	6,37	1,32
21,5	14	27	6,62	6,62	0,63	6,62	6,62	0,72	8,15	8,15	0,99	7,74	7,74	1,10	7,34	7,34	1,20	6,93	6,93	1,31
26,3	15		7,22	7,22	0,69	7,22	7,22	0,79	8,41	8,41	1,00	7,99	7,99	1,11	7,58	7,58	1,21	7,16	7,16	1,32
31,3	16		7,82	7,82	0,75	7,82	7,82	0,87	8,68	8,68	1,00	8,25	8,25	1,11	7,83	7,83	1,21	7,40	7,40	1,32

Symbols

TC: Maximum total cooling capacity [kW]
SHC: Sensible heat capacity [kW]
CPI: Coefficient of the power input
PI: Power input [kW]
compressor + indoor and outdoor fan motors
RH: Relative humidity [%]

Pair

	FCAHG100H	FCAG100B	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	1,64	1,64	1,80	1,72	1,69	1,69	1,64

Twin

	FCAG50B x 2	FHA50A x 2	FFA50A x 2	FDXM50F x 2	FBA50A x 2
Cooling	1,56	1,70	1,79	1,44	1,67

Triple

	FCAG35B x 3	FHA35A x 3	FFA35A x 3	FDXM35F x 3	FBA35A x 3
Cooling	1,51	1,51	1,62	1,51	1,64

Notes

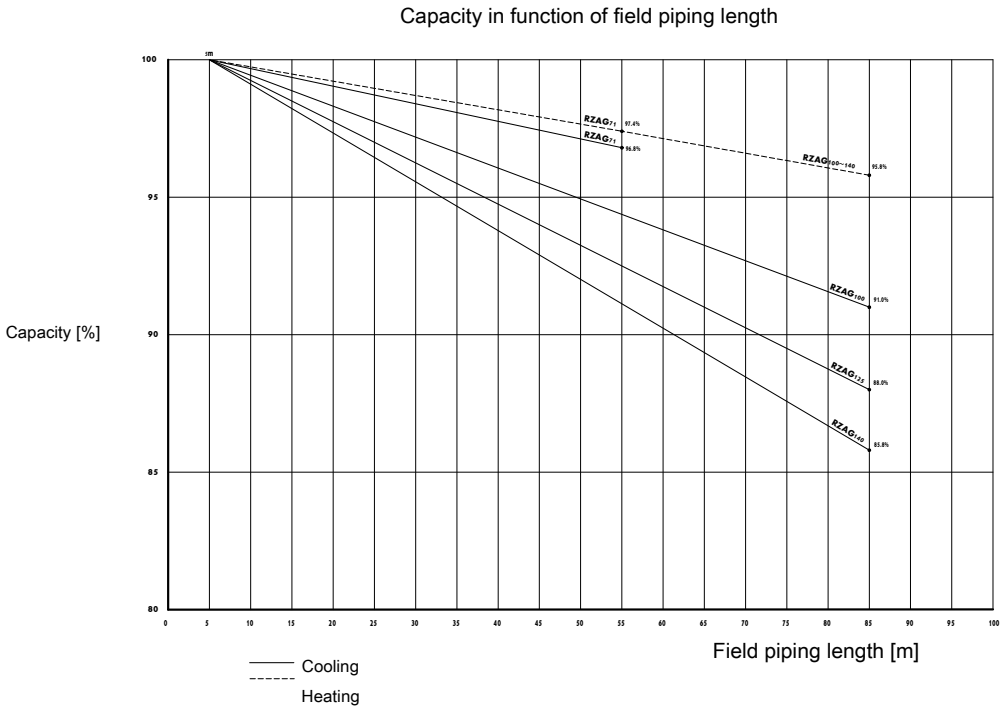
1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   Outdoor air: ·85% RH·
   Corresponding refrigerant piping length: ·5.0· m
   Level difference: ·0·m
3. For ·EDP· applications, it is recommended to use outdoor unit setting ·2-57-2·.
4. ·CPI· is a percentage value compared to the rated value which is ·1.00·.
5. The error rate for this value is less than ·5·% and depends on the indoor unit type.
6. The rated power input for each model is mentioned in the table below.

3D125184

6 Capacity tables

6 - 2 Capacity Correction Factor

RZAG-NV1
RZAG-NY1



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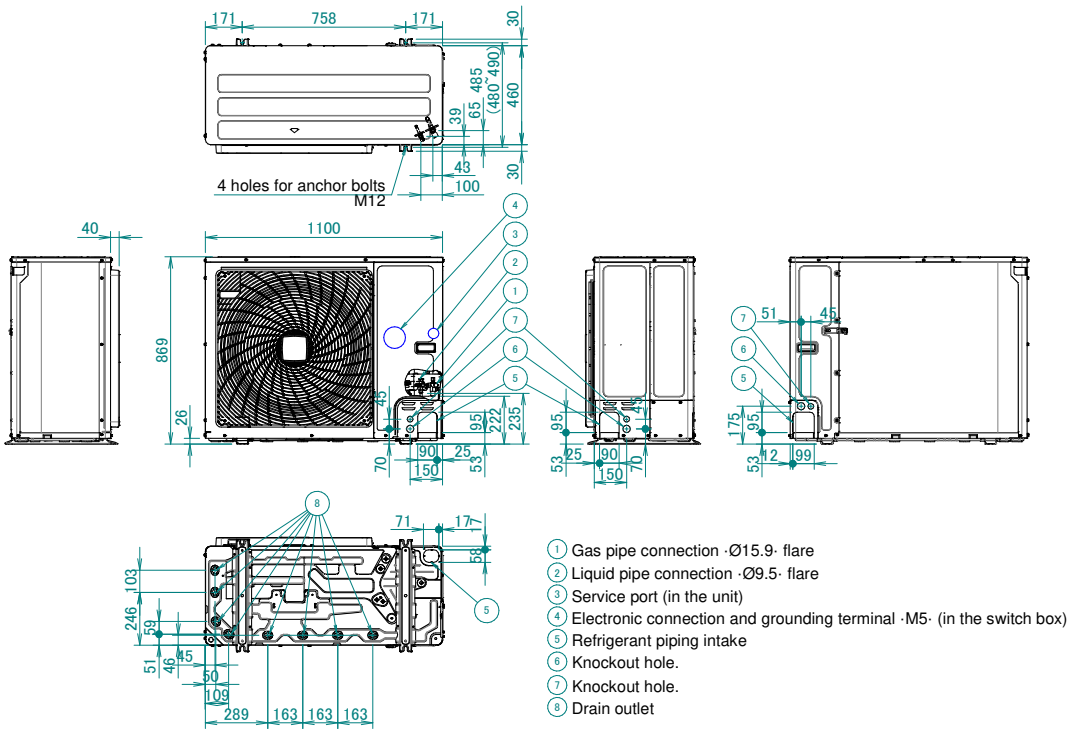
7 Dimensional drawings

7 - 1 Dimensional Drawings

RZAG-NV1
RZAG-NY1



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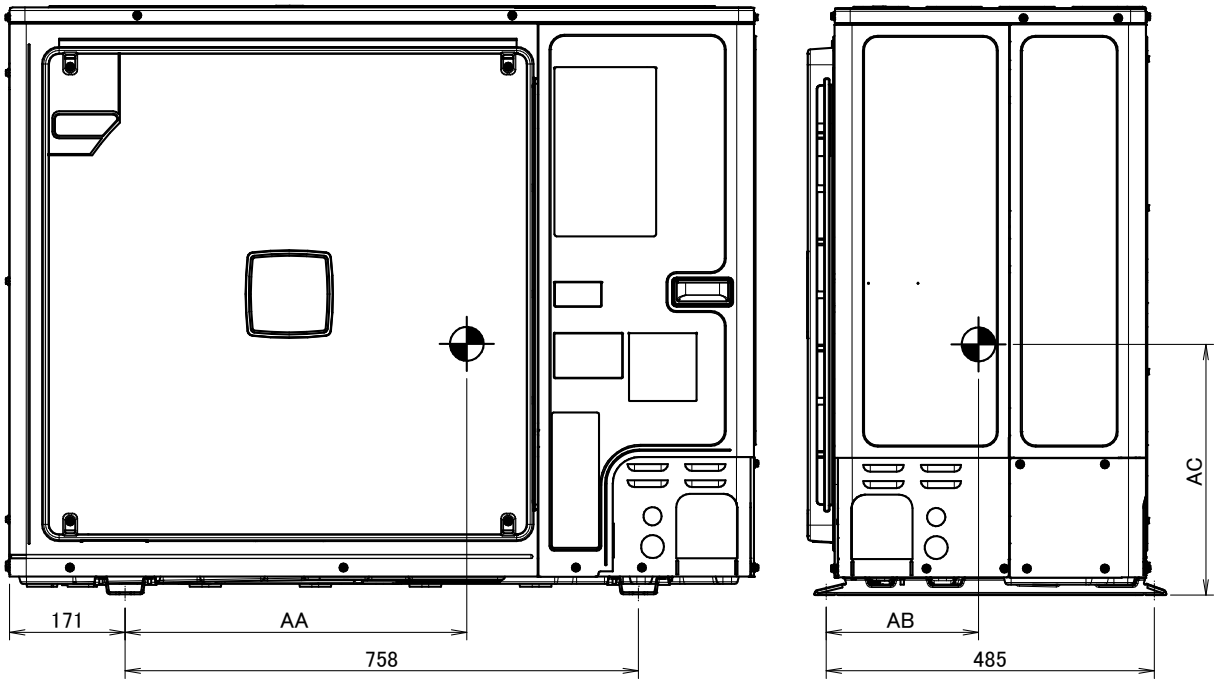
8 Centre of gravity

8 - 1 Centre of Gravity

RZAG-NV1
RZAG-NY1



Model	AA	AB	AC
RZAG71N7V1B	520.3	238.7	357.8
RZAG71N7Y1B	525.9	224.7	359.8
RZAG100N7V1B	499.7	239.3	367.6
RZAG100N7Y1B	511.2	223.5	362.5
RZAG125/140N7V1B	486.3	229.2	371.8
RZAG125/140N7Y1B	493.4	215.8	372.2
RXYSA4/5/6A7V1B RXYSA4/5/6A7Y1B	530.4	249.9	389.0

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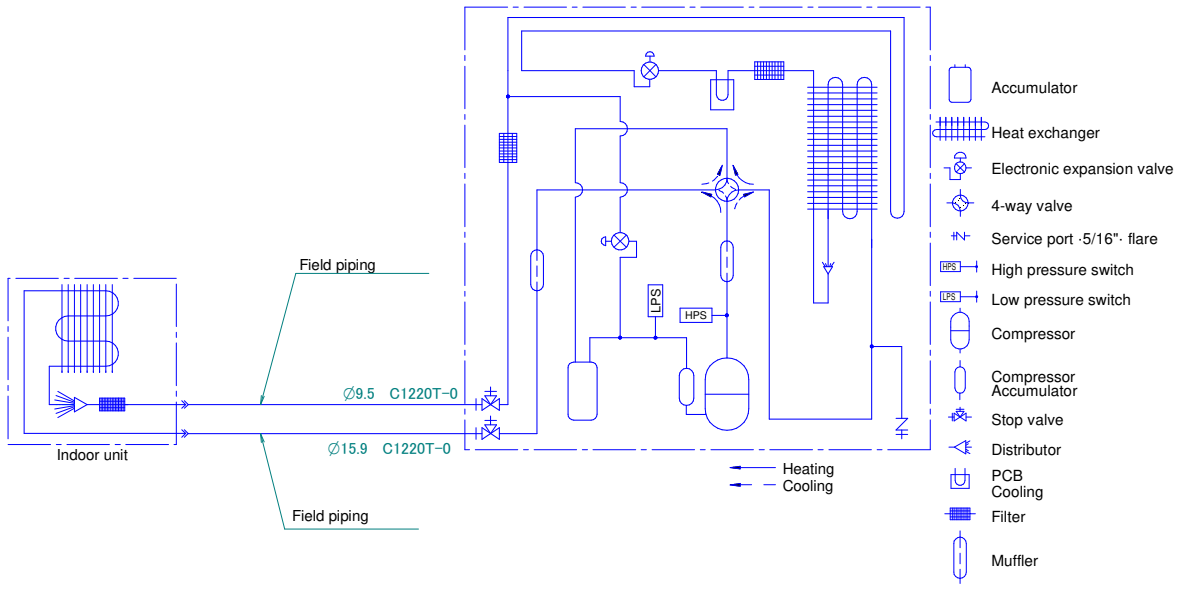
9 Piping diagrams

9 - 1 Piping Diagrams

RZAG-NV1
RZAG-NY1



Notes

1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

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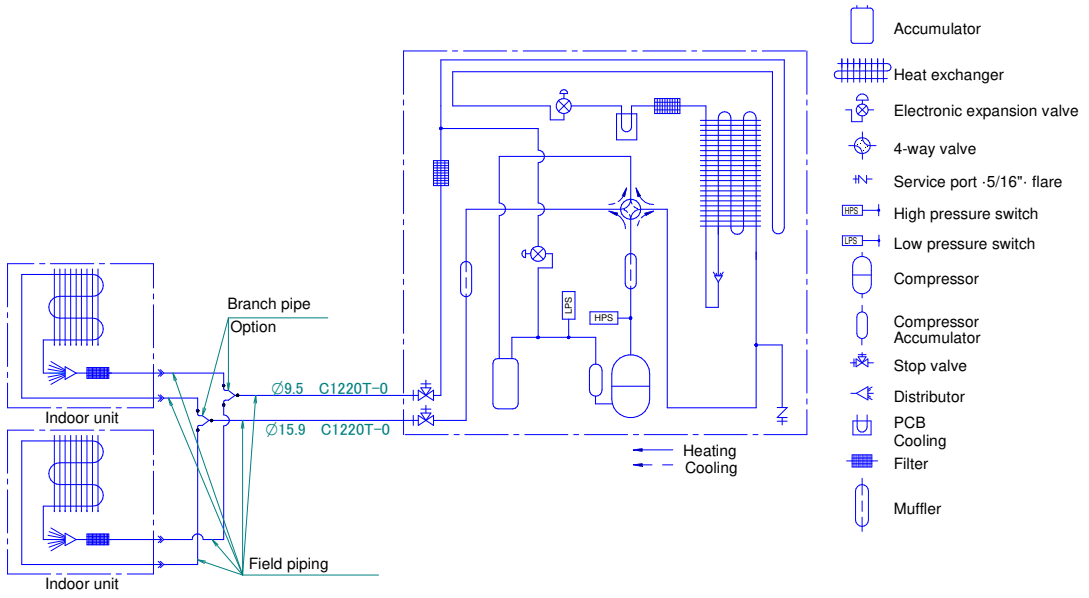
9 Piping diagrams

9 - 2 Piping Diagram Twin Application

RZAG-NV1
RZAG-NY1



Notes

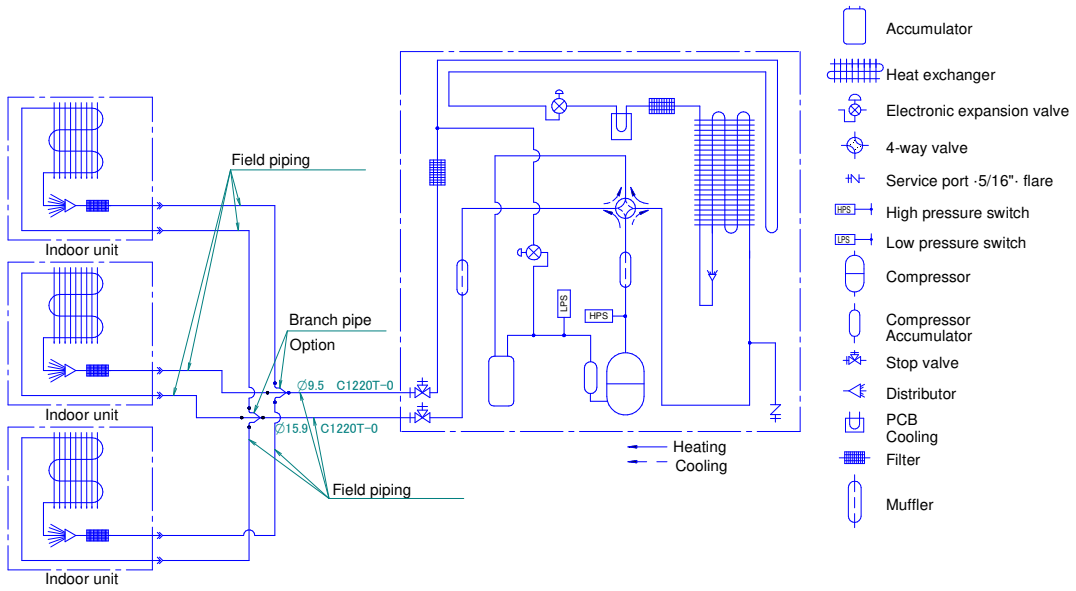
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D120913

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZAG100-140NV1
RZAG100-140NY1



Notes

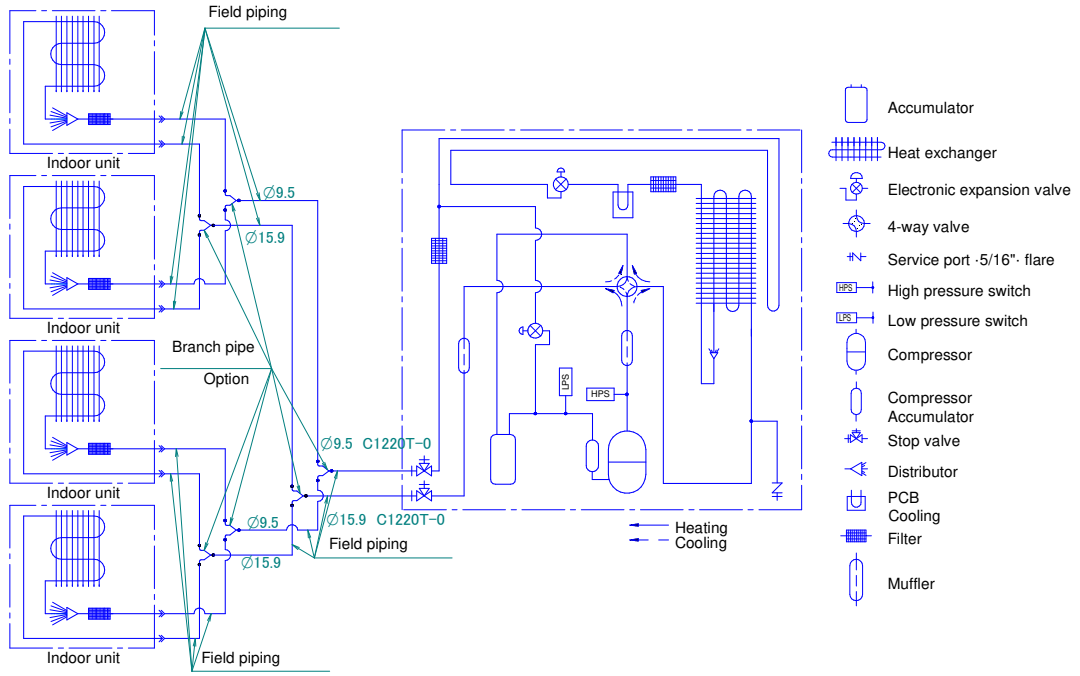
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D120914

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZAG125-140NV1
RZAG125-140NY1



Notes

1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

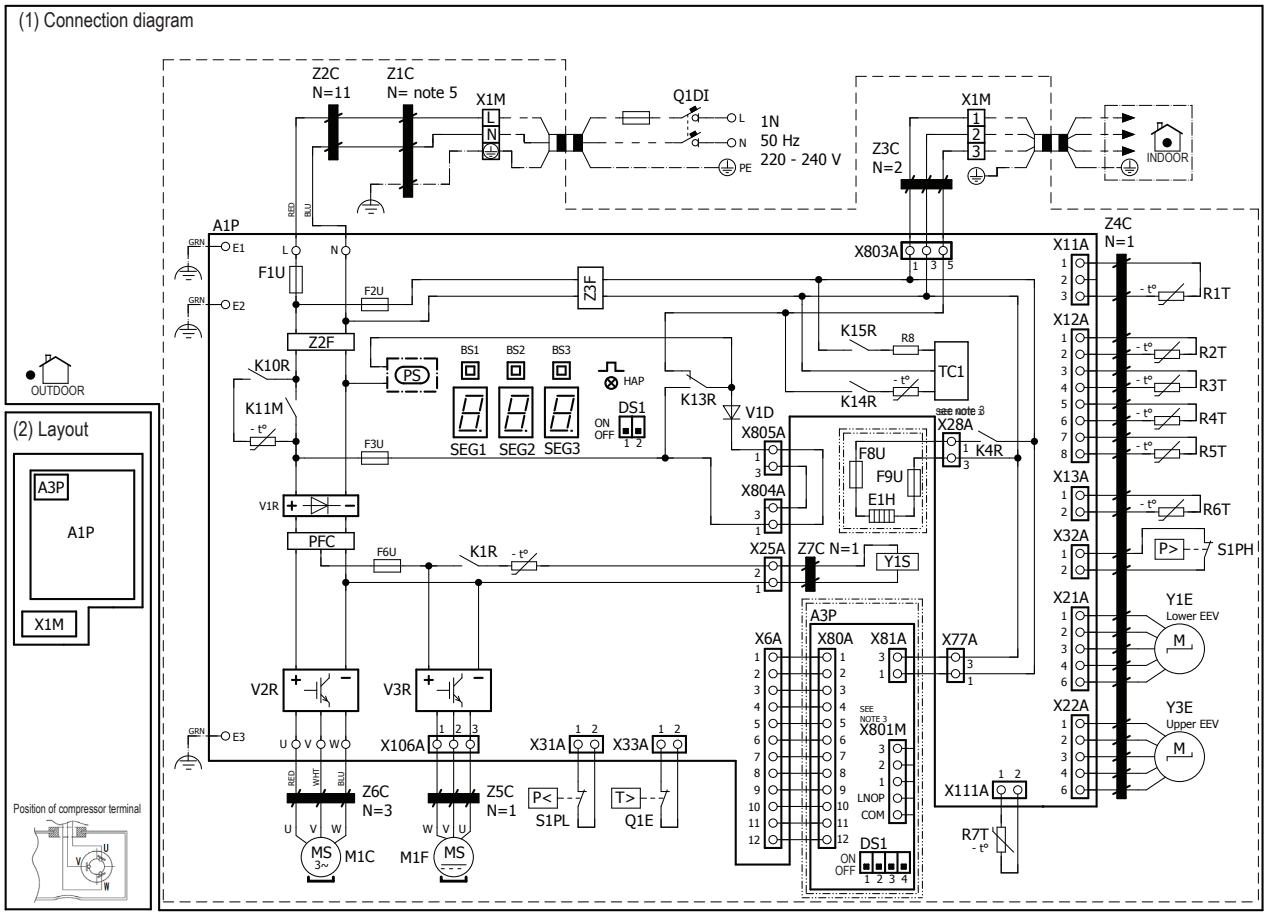
3D120915

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

RZAG71-100NV1

(1) Connection diagram



(3) NOTES

	: Connection		: switch box
X1M	: Main terminal		: PCB
	: Earth wiring		: Wiring depending on model
	: Field supply		: Protective earth
	: Option		: Field wire

(4) LEGEND

Part n°		Description
A1P		Printed circuit board (main)
A3P	*	Printed circuit board (demand)
BS1~3 (A1P)		Push-button switch
DS1 (A1~2P)		Dipswitch
E1~3 (A1P)		Connector
E1H	*	Bottom plate heater
F1U (A1P)		Fuse T 31,5 A 250 V
F2U (A1P)		Fuse T 6,3 A 250 V
F3U (A1P)		Fuse T 6,3 A 250 V
F6U (A1P)		Fuse T 5 A 250V
F8~9U	*	Fuse F 1 A 250 V
HAP (A1P)		Light-emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K4R (A1P)		Magnetic relay (E1H)
K13~15R, K10R (A1P)		Magnetic relay
K11M (A1P)		Magnetic contactor
L (A1P)		Connector
M1C		Compressor motor
M1F		Fan motor
N (A1P)		Connector
PFC (A1P)		Power factor correction
PS (A1P)		Switching power supply
Q1DI		Earth leakage circuit breaker (30mA)
Q1E		Overload protection
R1T		Thermistor (air)
R2T		Thermistor (discharge)
R3T		Thermistor (suction)
R4T		Thermistor (heat exchanger)
R5T		Thermistor (heat exchanger middle)
R6T		Thermistor (liquid)
R7T		Thermistor (fin)
R8 (A1P)		Resistor
S1PH		High pressure switch
S1PL		Low pressure switch
SEG1~3 (A1P)		7-segment display
TC1 (A1P)		Signal transceiver circuit
U, V, W (A1P)		Connector
V1D (A1P)		Diode
V*R (A1P)		Diode module
X*A (A1P)		Connector
X1M		Terminal strip
Y1E, Y3E		Electronic expansion valve
Y1S		Solenoid valve (4-way valve)
Z*C		Noise filter (ferrite core)
Z*F (A1P)		Noise filter

* : optional
# : field supply

NOTES

1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
2. When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
3. Refer to the combination table and the option manual for how to connect the wiring to X28A and X801M.
4. Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green
5. Windings: L-N: 2 - Earth: 1

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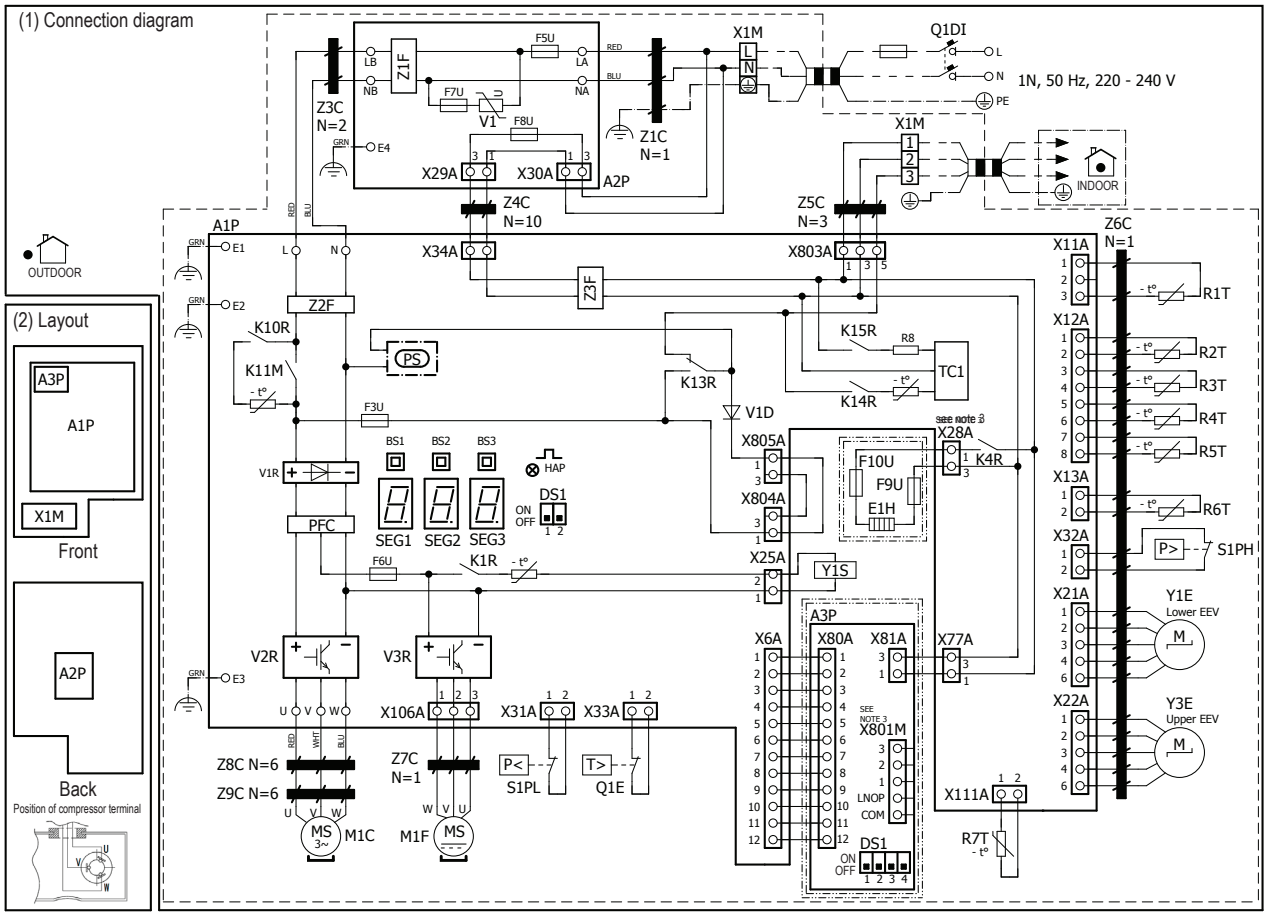
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

RZAG125-140NV1



(3) NOTES

	: Connection		: switch box
X1M	: Main terminal		: PCB
	: Earth wiring		: Wiring depending on model
	: Field supply		: Protective earth
	: Option		: Field wire

(4) LEGEND

Part n°		Description
A1P		Printed circuit board (main)
A2P		Printed circuit board (noise filter)
A3P	*	Printed circuit board (demand)
BS1~3 (A1P)		Push-button switch
DS1(A1P,A3P)		Dipswitch
E1~3 (A1~2P)		Connector
E1H	*	Bottom plate heater
F3U (A1P)		Fuse T 6,3 A 250 V
F5U (A2P)		Fuse T 56 A 250V
F6U (A1P)		Fuse T 5 A 250V
F7U (A2P)		Fuse T 6,3 A 250 V
F8U (A2P)		Fuse T 6,3 A 250 V
F9~10U		Fuse F 1 A 250 V
HAP (A1P)		Light-emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K4R (A1P)		Magnetic relay (E1H)
K13~15R, K10R (A1P)		Magnetic relay
K11M (A1P)		Magnetic contactor
L* (A1~2P)		Connector
M1C		Compressor motor
M1F		Fan motor
PFC (A1P)		Power factor correction

Part n°		Description
PS (A1P)		Switching power supply
Q1DI		Earth leakage circuit breaker (30mA)
Q1E		Overload protection
R1T		Thermistor (air)
R2T		Thermistor (discharge)
R3T		Thermistor (suction)
R4T		Thermistor (heat exchanger)
R5T		Thermistor (heat exchanger middle)
R6T		Thermistor (liquid)
R7T		Thermistor (fin)
R8 (A1P)		Resistor
S1PH		High pressure switch
S1PL		Low pressure switch
SEG1~3 (A1P)		7-segment display
TC1 (A1P)		Signal transceiver circuit
U, V, W (A1P)		Connector
V1 (A2P)		Varistor
V1D (A1P)		Diode
V*R (A1P)		Diode module
X*A (A1~2P)		Connector
X1M		Terminal strip
Y1E, Y3E		Electronic expansion valve
Y1S		Solenoid valve (4-way valve)
Z*C		Noise filter (ferrite core)
Z*F (A1~2P)		Noise filter

* : optional
# : field supply

NOTES

1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
2. When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
3. Refer to the combination table and the option manual for how to connect the wiring to X28A and X801M.
4. Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green

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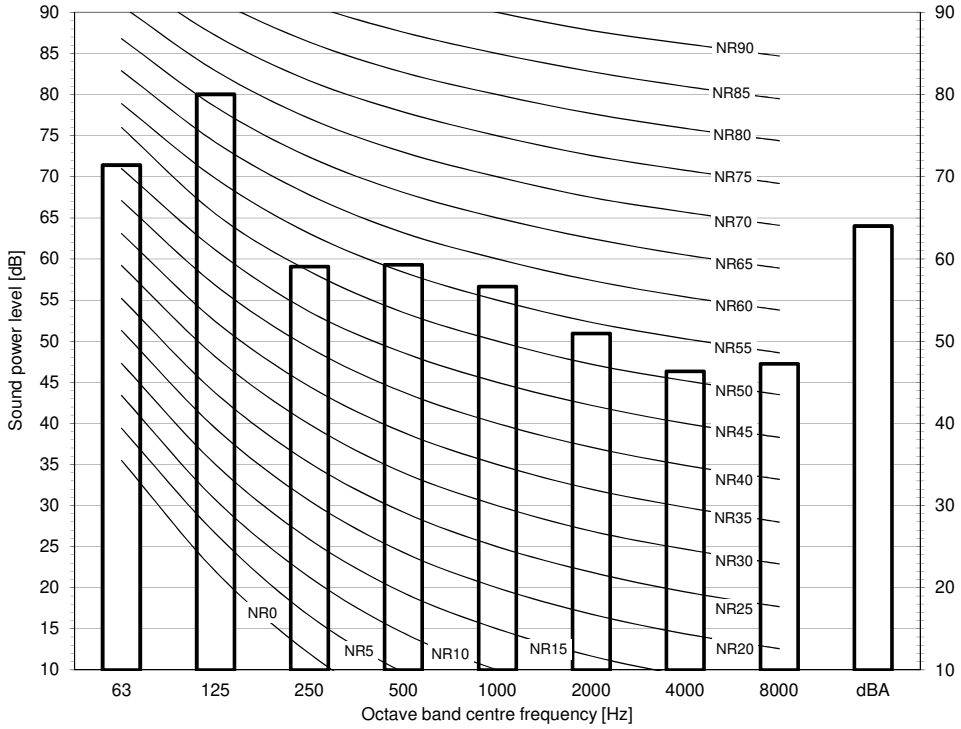
11 Sound data

11 - 1 Sound Power Spectrum

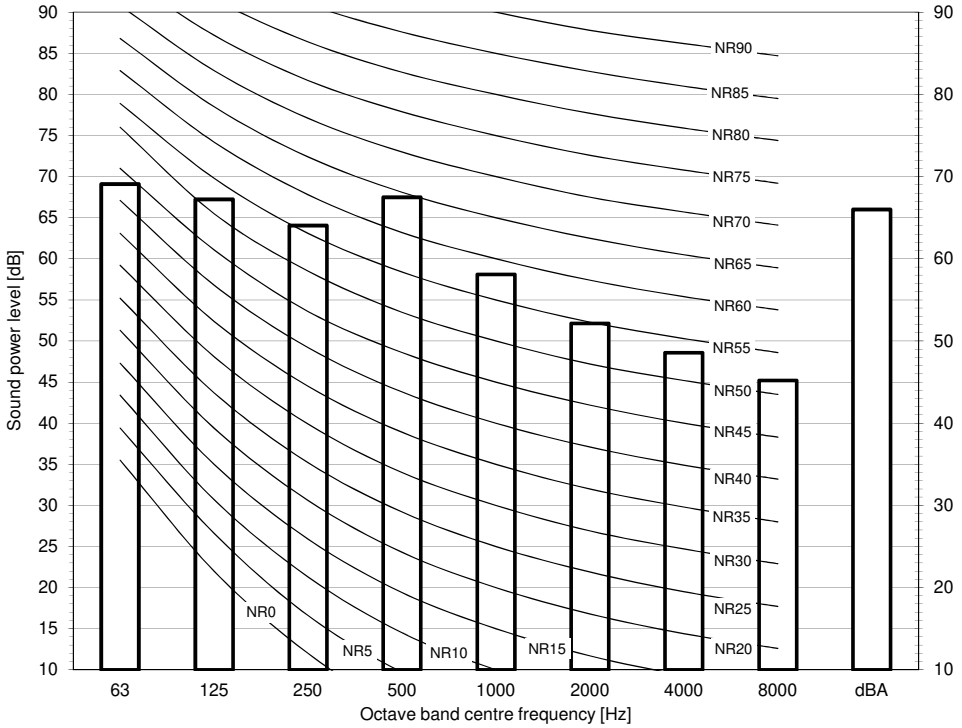
RZAG71NV1
RZAG71NY1



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6µW/m²·
- Measured according to ISO 3744

3D125149

RZAG100NV1
RZAG100NY1



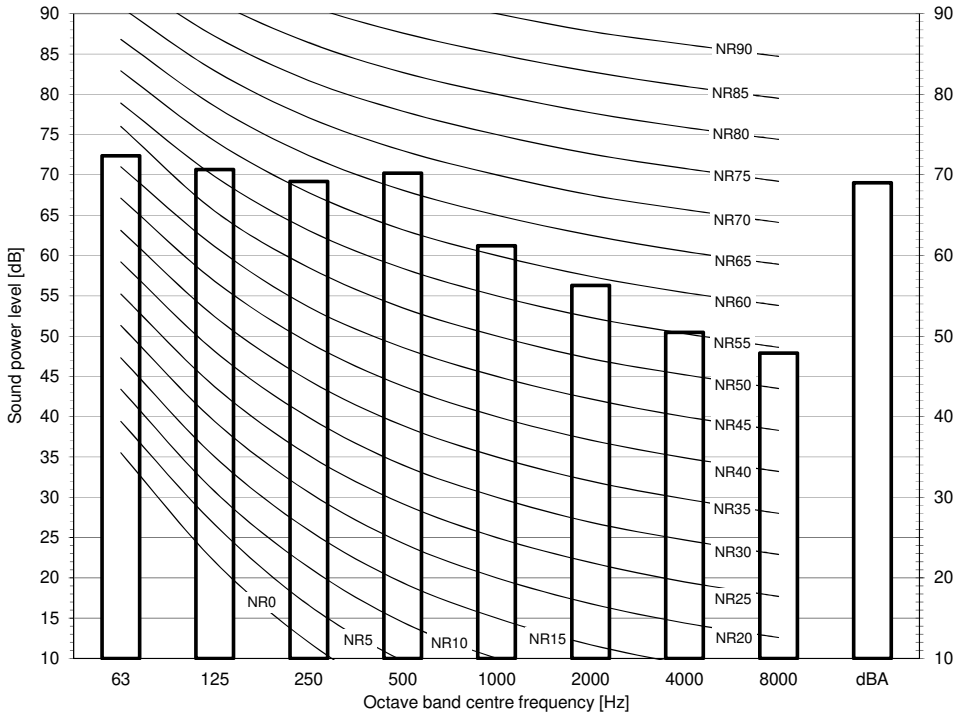
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6µW/m²·
- Measured according to ISO 3744

3D125155

11 Sound data

11 - 1 Sound Power Spectrum

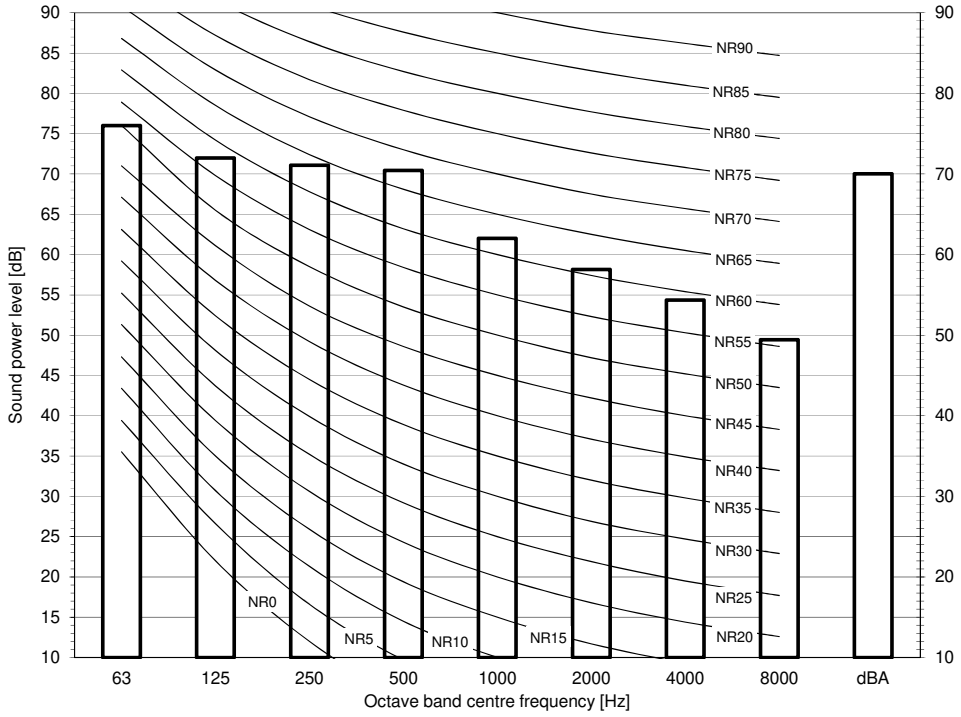
RZAG125NV1
RZAG125NY1



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6µW/m²·
- Measured according to ISO 3744

3D125161

RZAG140NV1
RZAG140NY1



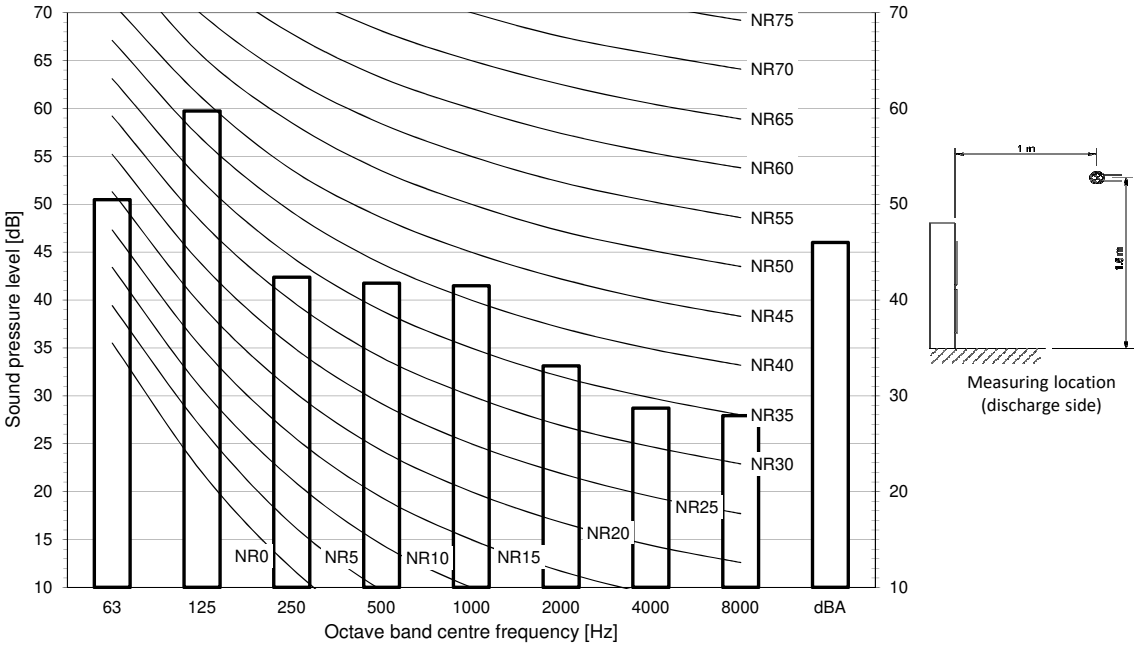
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6µW/m²·
- Measured according to ISO 3744

3D125167

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

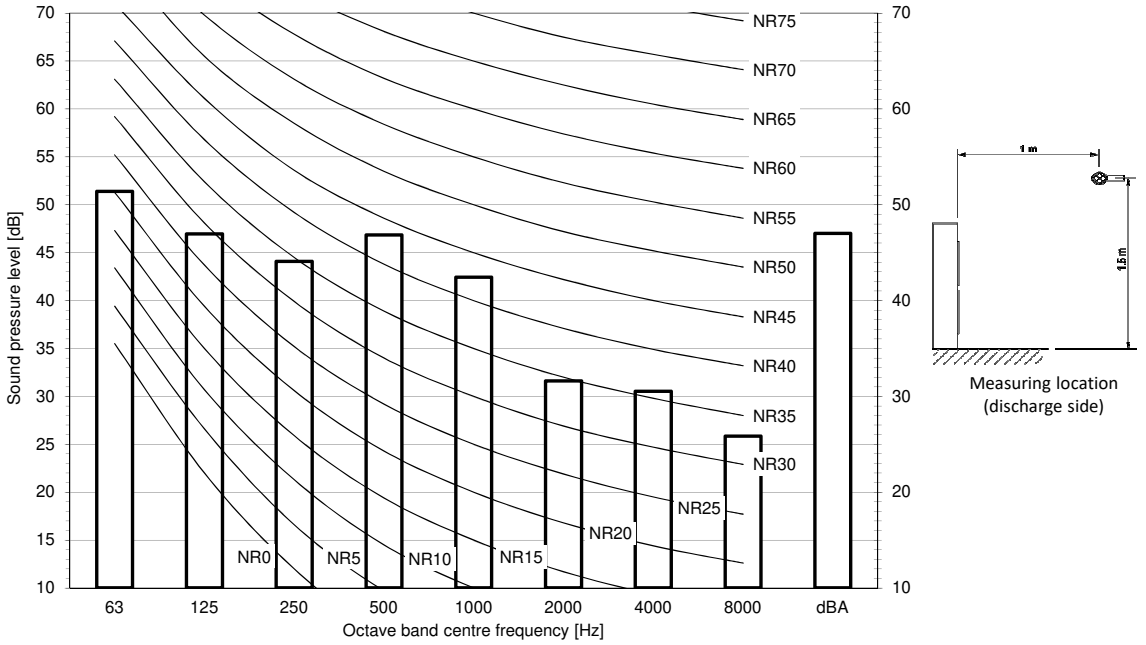
RZAG71NV1
RZAG71NY1



Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125147

RZAG100NV1
RZAG100NY1



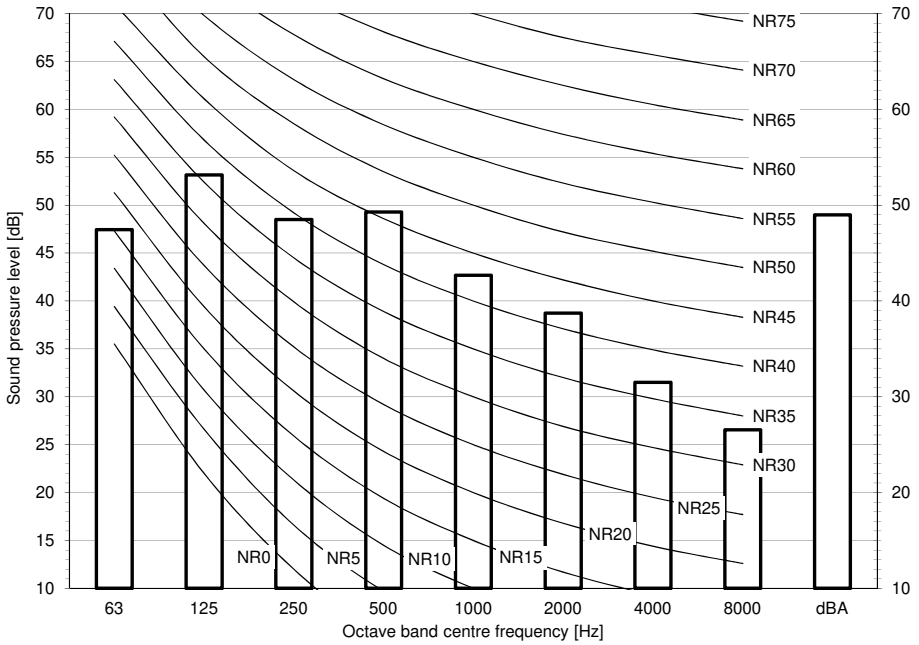
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

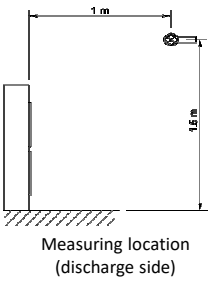
3D125153

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZAG125NV1
RZAG125NY1



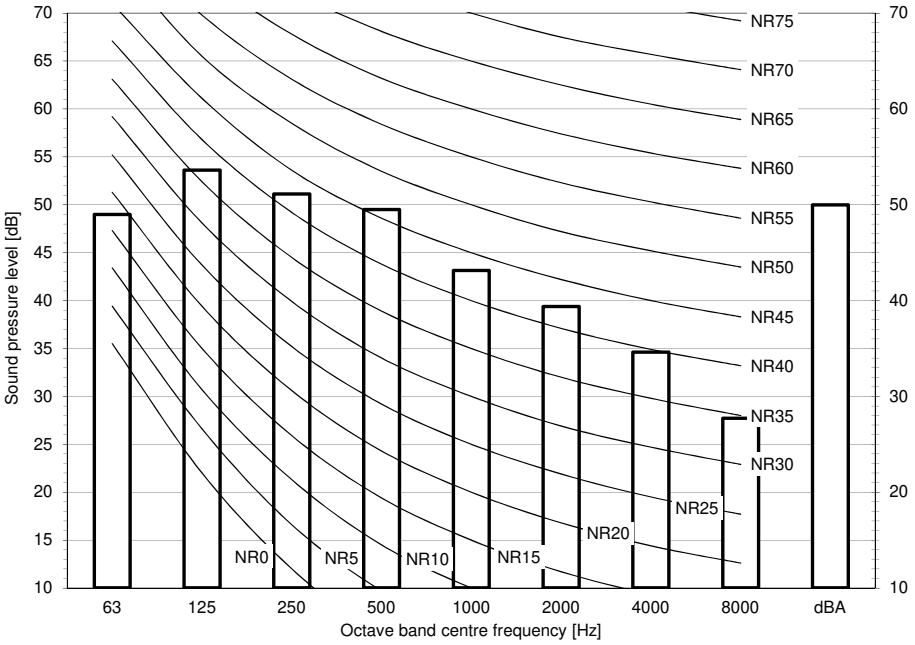


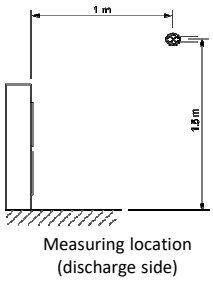
Measuring location
(discharge side)

Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125159

RZAG140NV1
RZAG140NY1





Measuring location
(discharge side)

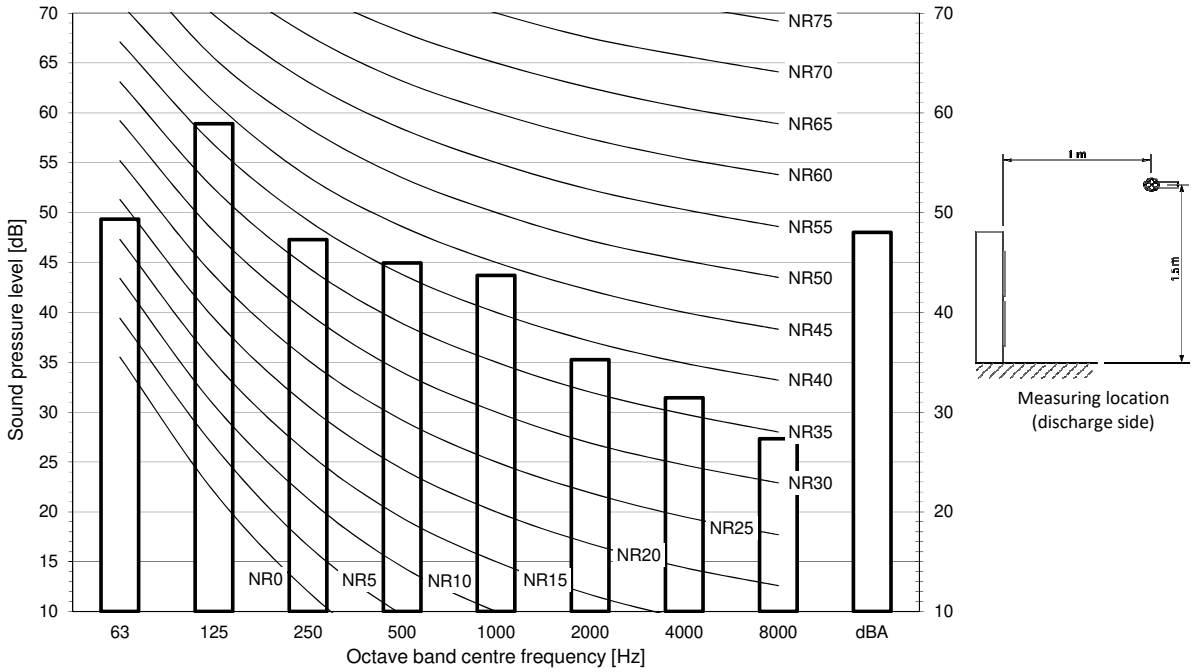
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125165

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

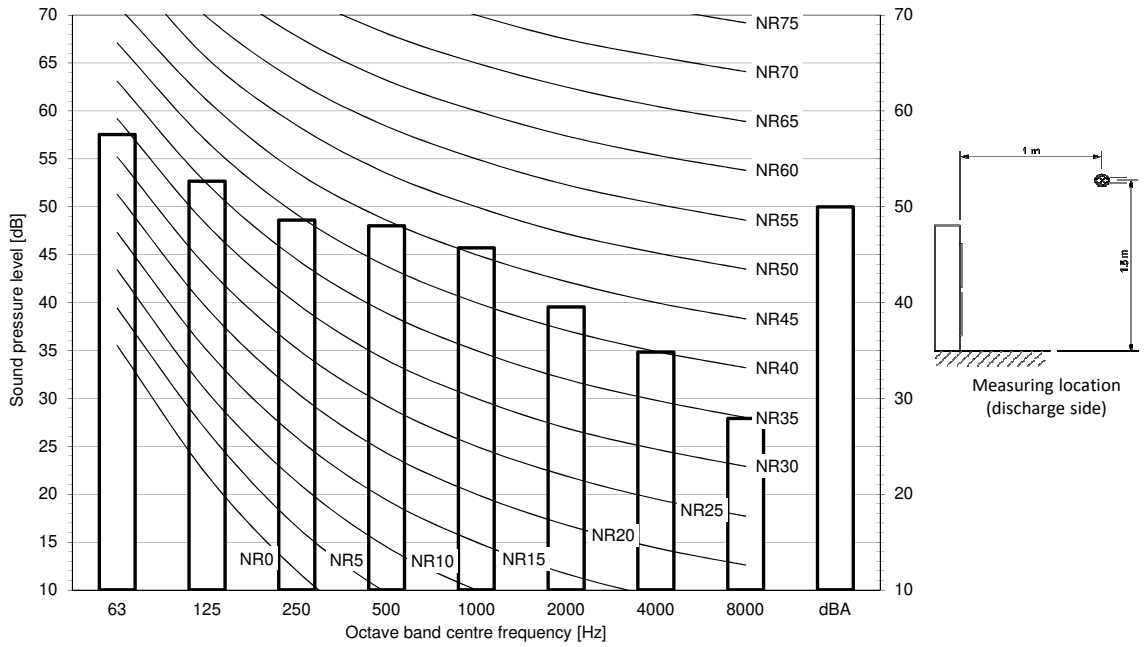
RZAG71NV1
RZAG71NY1



Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125148

RZAG100NV1
RZAG100NY1



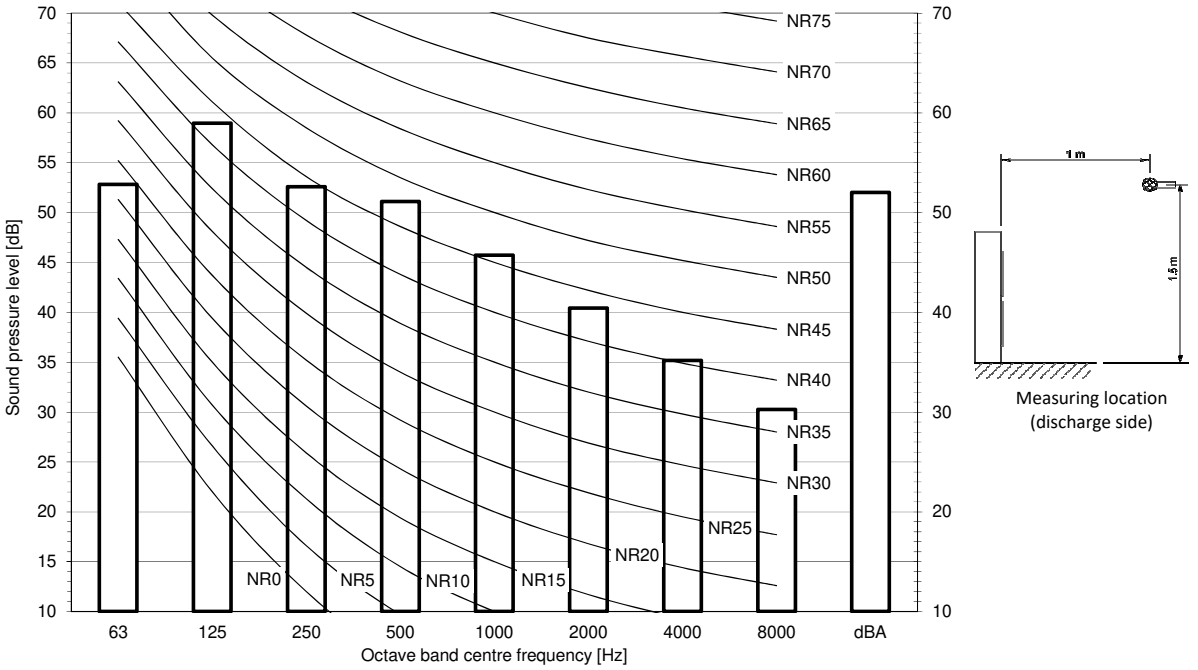
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125154

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

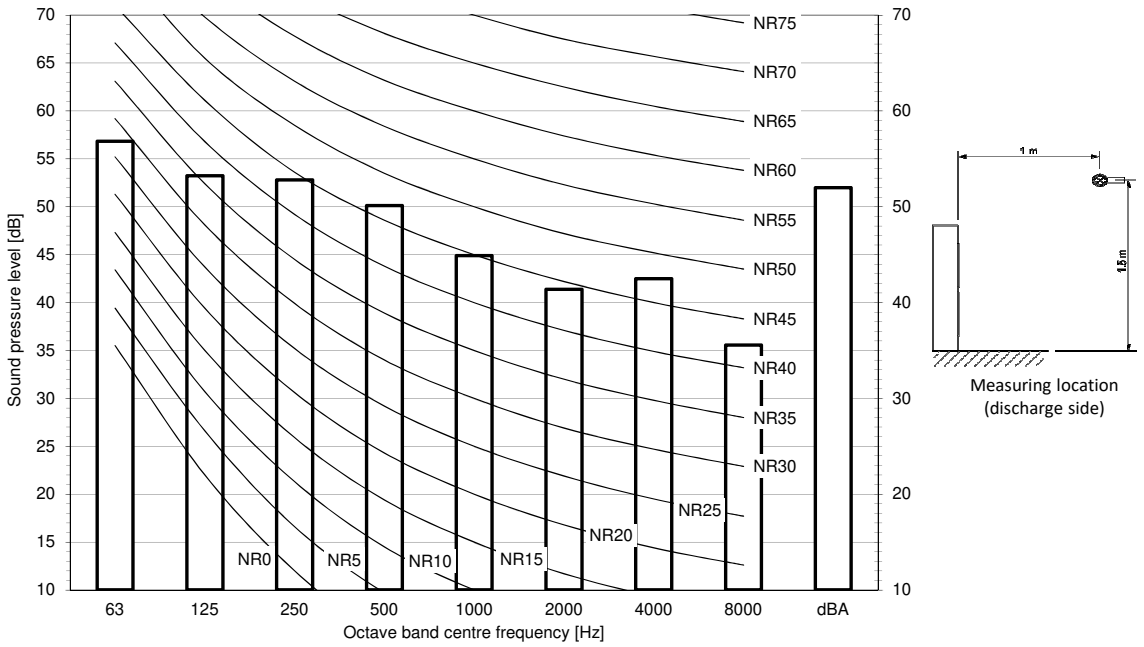
RZAG125NV1
RZAG125NY1



Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125160

RZAG140NV1
RZAG140NY1



Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

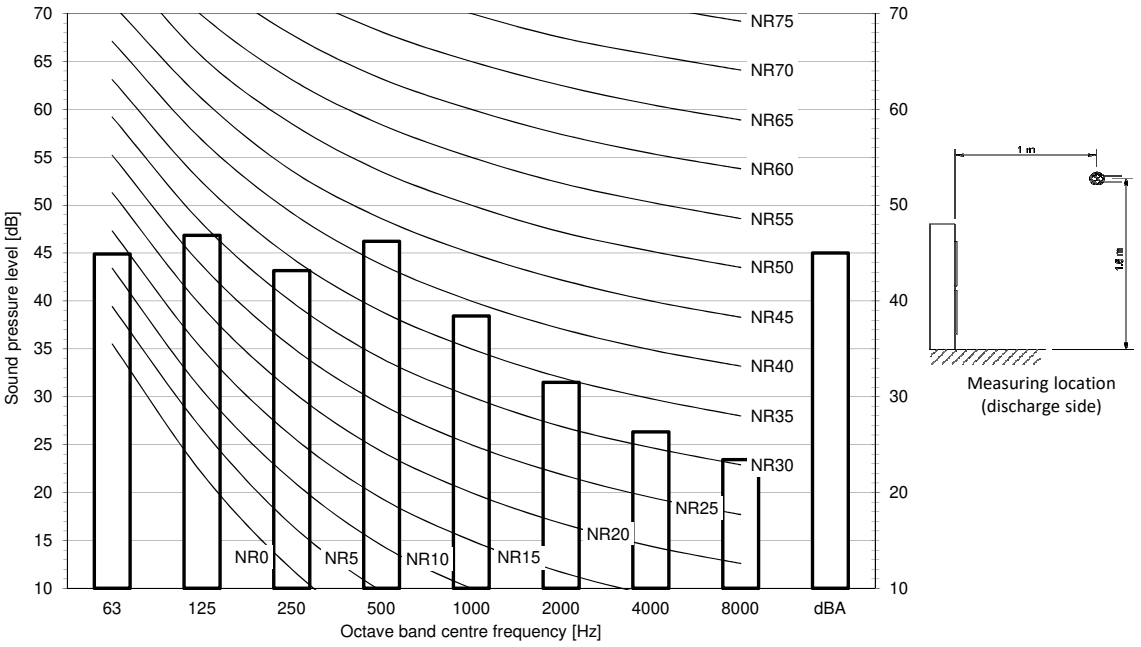
3D125166

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 1

RZAG100NV1
RZAG100NY1

LEVEL 1

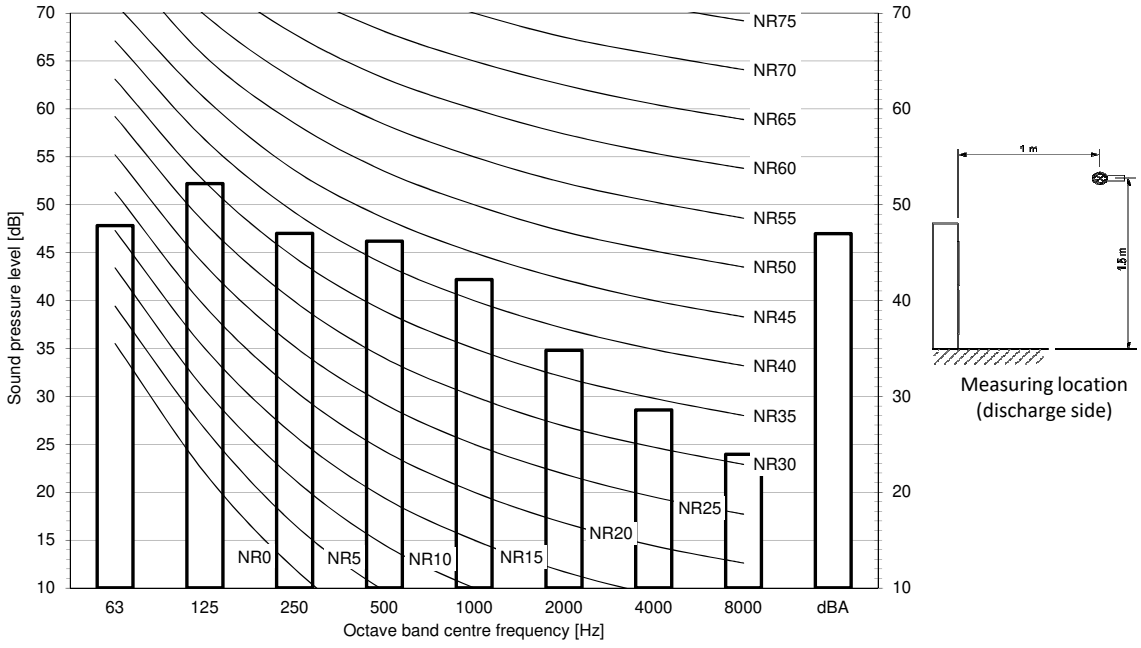


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125150

RZAG125NV1
RZAG125NY1

LEVEL 1



Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

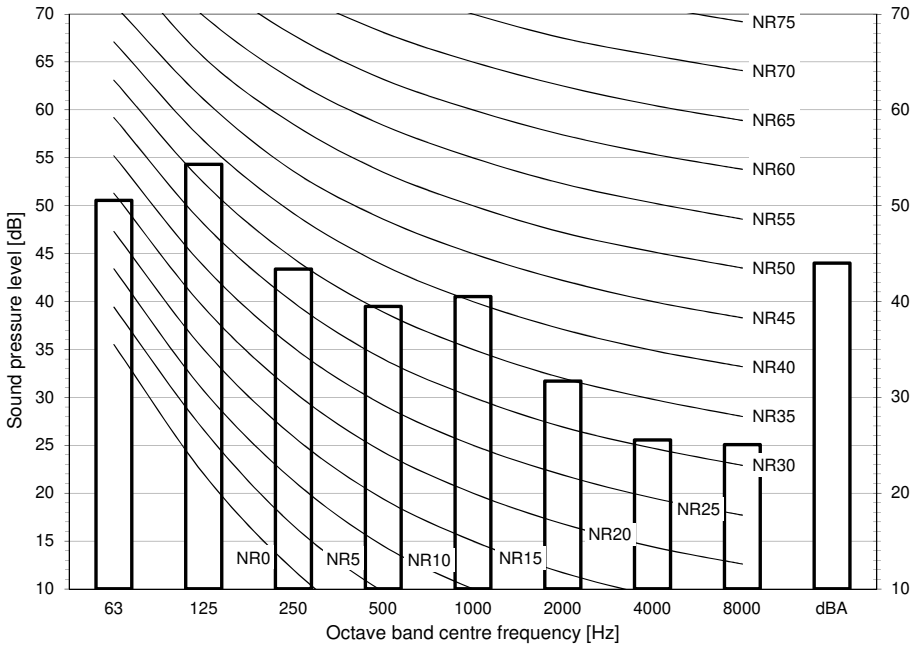
3D125156

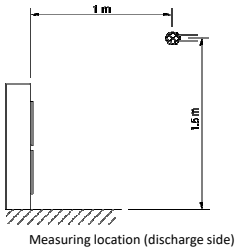
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 1

RZAG71NV1
RZAG71NY1

LEVEL 1





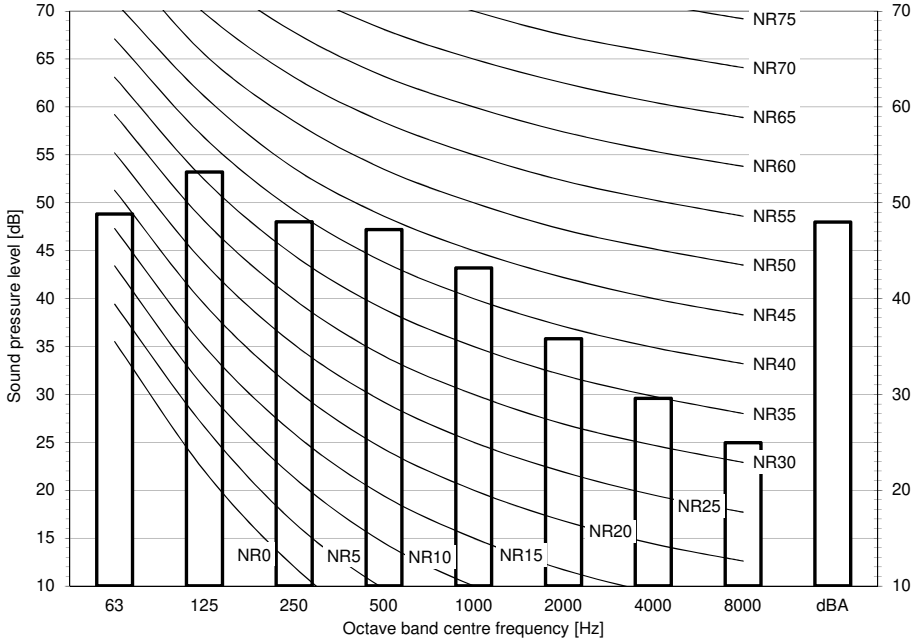
Measuring location (discharge side)

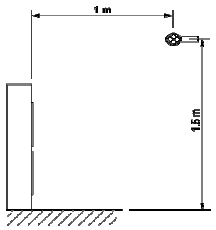
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125144

RZAG140NV1
RZAG140NY1

LEVEL 1





Measuring location (discharge side)

Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

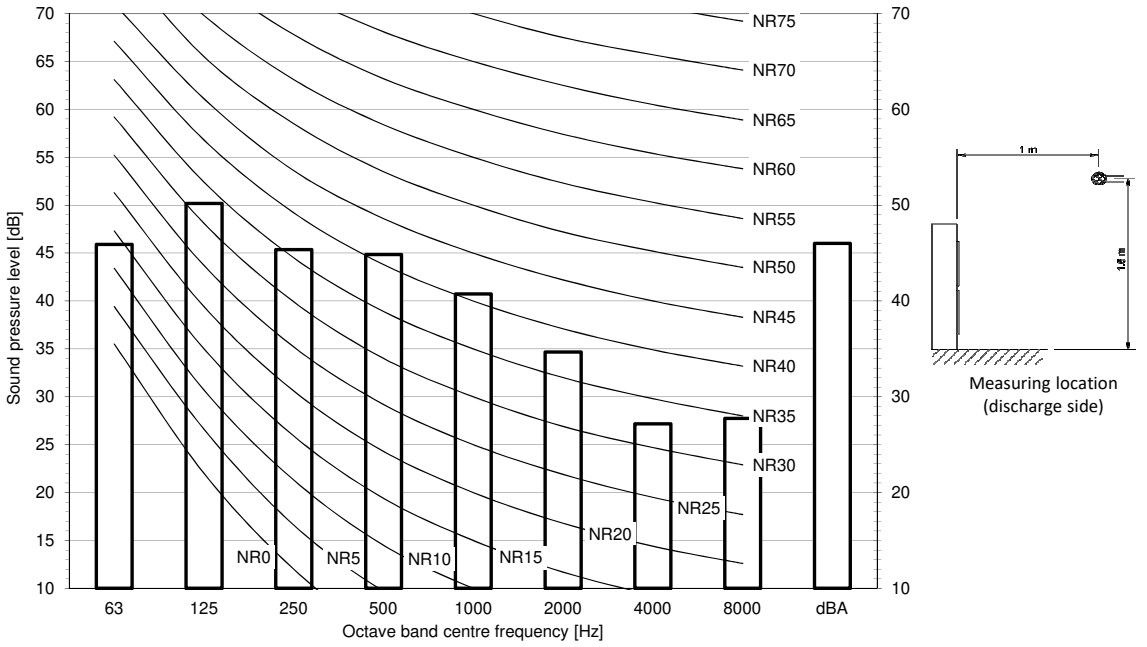
3D125162

11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 2

RZAG140NV1
RZAG140NY1

LEVEL 2

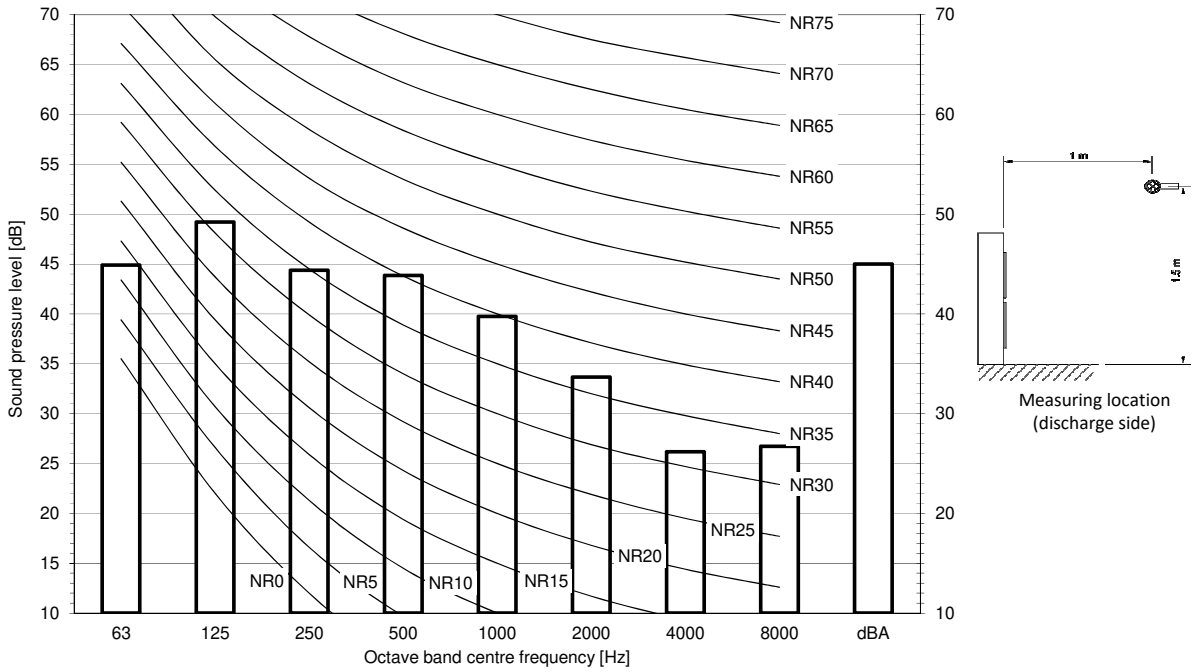


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125163

RZAG125NV1
RZAG125NY1

LEVEL 2



Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

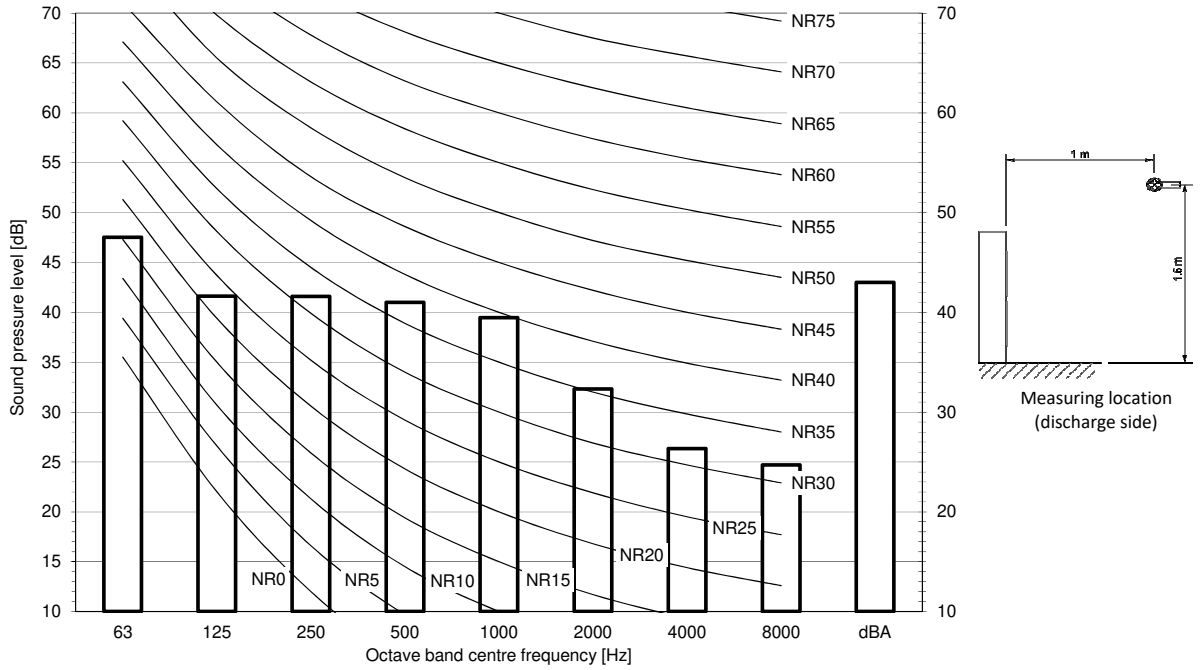
3D125157

11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 2

RZAG100NV1
RZAG100NY1

LEVEL 2

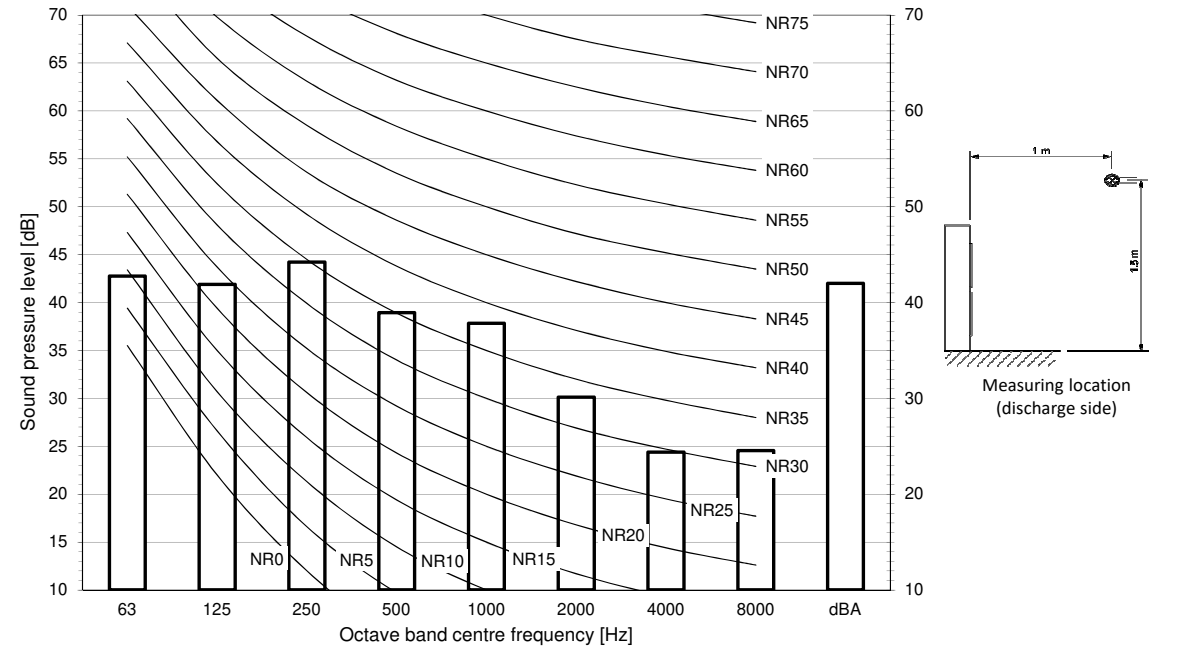


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125151

RZAG71NV1
RZAG71NY1

LEVEL 2



Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

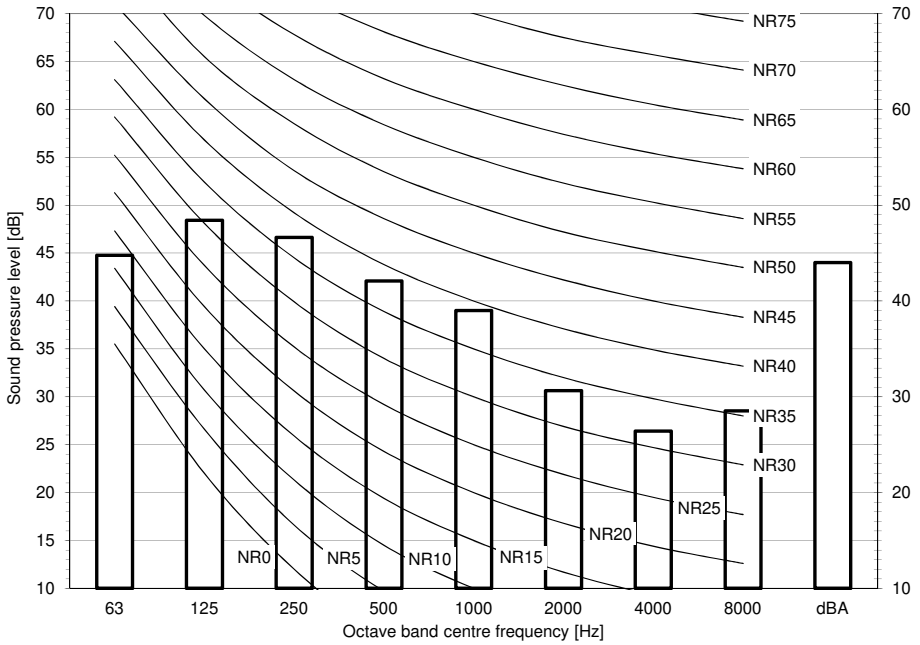
3D125145

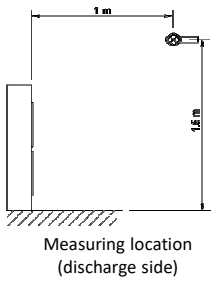
11 Sound data

11 - 6 Sound Pressure Spectrum Quiet Mode Level 3

RZAG140NV1
RZAG140NY1

LEVEL 3



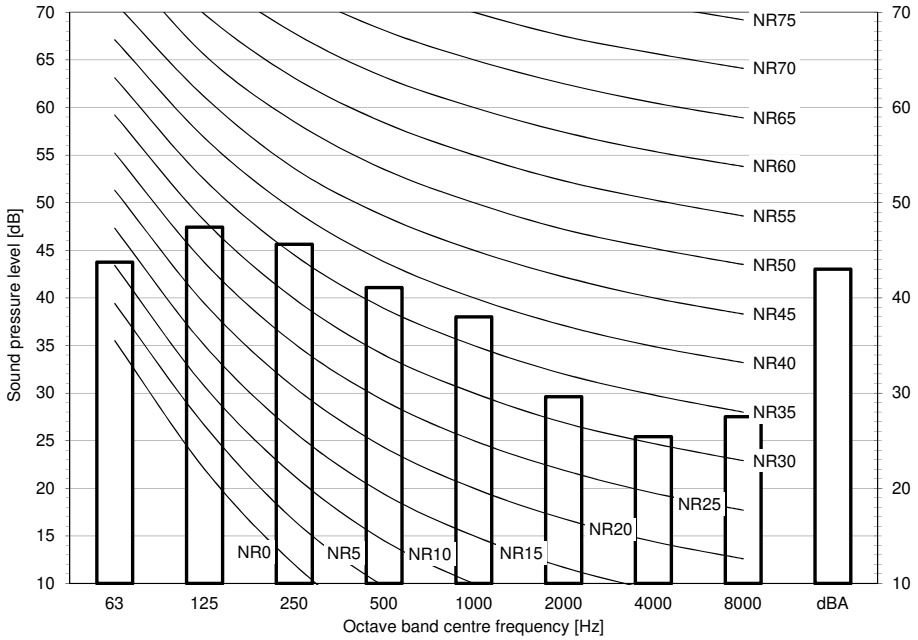


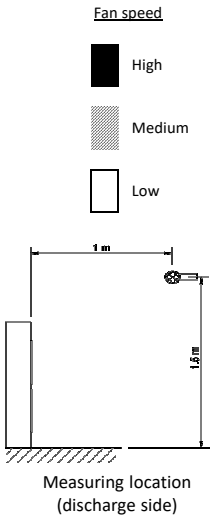
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125164

RZAG125NV1
RZAG125NY1

LEVEL 3





Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

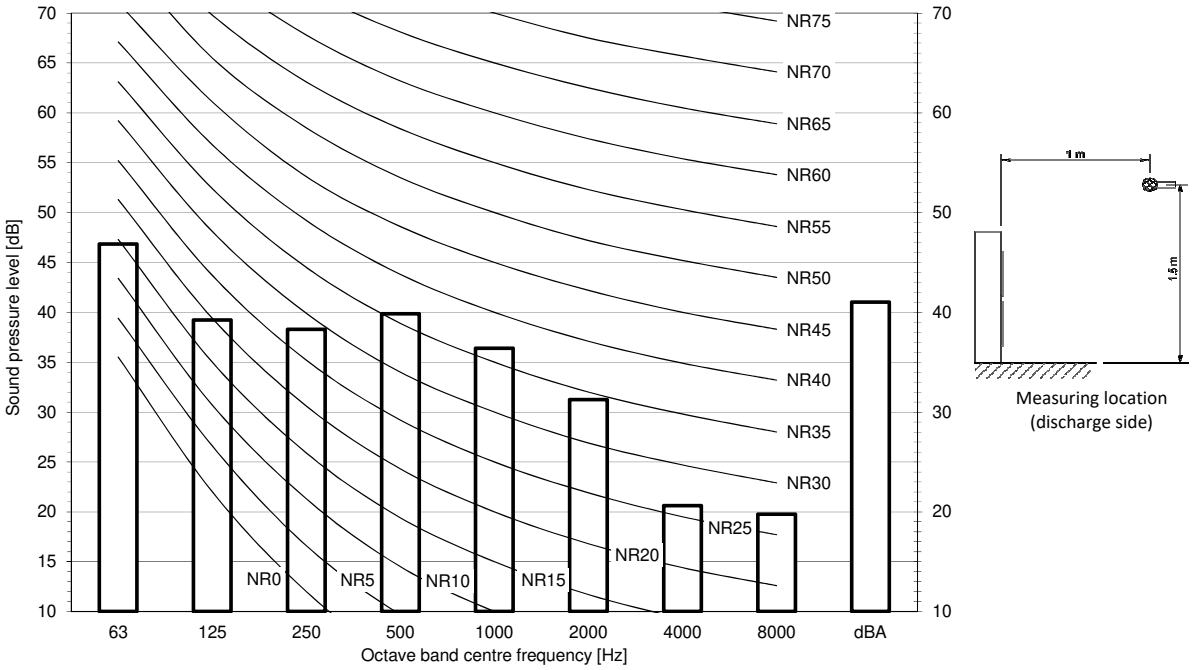
3D125158

11 Sound data

11 - 6 Sound Pressure Spectrum Quiet Mode Level 3

RZAG100NV1
RZAG100NY1

LEVEL 3

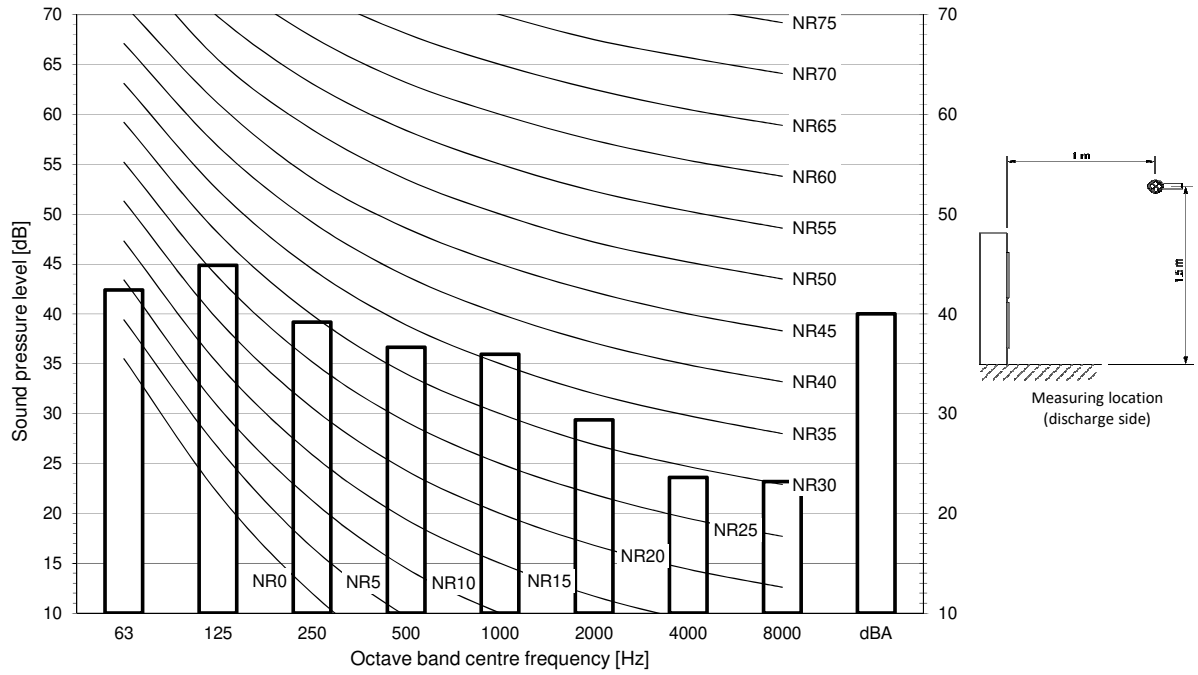


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125152

RZAG71NV1
RZAG71NY1

LEVEL 3



Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125146

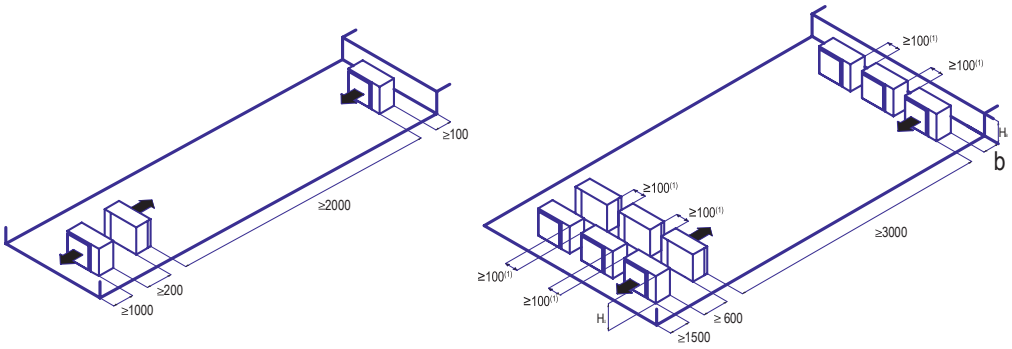
12 Installation

12 - 1 Installation Method

RZAG-NV1
RZAG-NY1

Multiple rows of units ( )

Multiple rows of units ( )



Hb Hu	b (mm)
Hb≤½Hu	b≥250
½Hu<Hb≤Hu	b≥ 300
Hb>Hu	⃠

(1) For better serviceability, use a distance ≥250 mm
⃠ Not allowed

1D128513

12 Installation

12 - 1 Installation Method

RZAG-NV1
RZAG-NY1

Single unit (■) | Single row of units (■■■)

Suction side

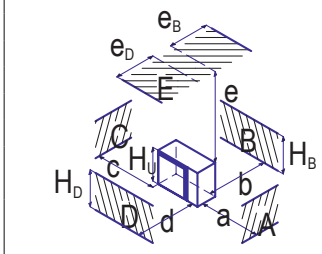
In the illustration below, the service space at the suction side is based on 35°C DB and cooling operation. Foresee more space in the following cases:

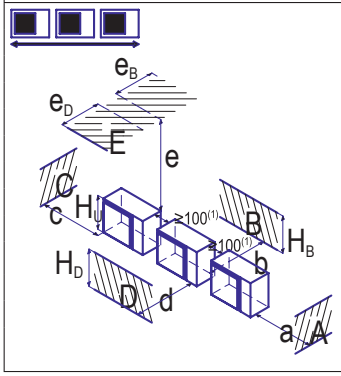
- When the suction side temperature regularly exceeds this temperature.
- When the heat load of the outdoor units is expected to regularly exceed the maximum operating capacity.

Discharge side

Take refrigerant piping work into account when positioning the units. If your lay out does not match with any of the layouts below, contact your dealer.

Single unit (■) | Single row of units (■■■)





A~E	Hb Hd Hu		(mm) a	b	c	d	e	e_B	e_D	
B	-			≥ 100						
A,B,C	-		≥ 100(1)	≥ 100	≥ 100					
B,E	-			≥ 100			≥ 1000		≤500	
A,B,C,E	-		≥ 150(1)	≥ 150	≥ 150		≥ 1000		≤500	
D	-					≥ 500				
D,E	-					≥ 500	≥ 1000	≤500		
B,D	Hd>Hu			≥ 100		≥ 500				
	Hd≤Hu			≥ 100		≥ 500				
B,D,E	Hd>Hu	Hb≤½Hu		≥ 250		≥ 750	≥ 1000	≤500		1
		½Hu>Hb≤Hu		≥ 250		≥ 1000	≥ 1000	≤500		
		Hb>Hu	⊘							
	Hd≤Hu	Hd≤½Hu		≥ 100		≥ 1000	≥ 1000		≤500	
		½Hu<Hd≤Hu		≥ 200		≥ 1000	≥ 1000		≤500	
		Hd>Hu	⊘							
A,B,C	-		≥ 200(1)	≥ 300 ≥	1000					
A,B,C,E	-		≥ 200(1)	≥ 300	≥ 1000		≥ 1000		≤500	
D	-					≥ 1000				
D,E	-					≥ 1000	≥ 1000	≤500		
B,D	Hd>Hu			≥ 300		≥ 1000				
	Hd≤Hu	Hd≤½Hu		≥ 250		≥ 1500				
		½Hu<Hd≤Hu		≥ 300		≥ 1500				
B,D,E	Hd>Hu	Hb≤½Hu		≥ 300		≥ 1000	≥ 1000	≤500		1+2
		½Hu<Hb≤Hu		≥ 300		≥ 1250	≥ 1000	≤500		
		Hb>Hu	⊘							
	Hd≤Hu	Hd≤½Hu		≥ 250		≥ 1500	≥ 1000		≤500	
		½Hu<Hd≤Hu		≥ 300		≥ 1500	≥ 1000		≤500	
		Hd>Hu	⊘							

(1) For better serviceability, use a distance ≥250 mm
A,B,C,D Obstacles (walls/baffle plates)
E Obstacle (roof)
a,b,c,d,e Minimum service space between the unit and obstacles A, B, C, D and E
e_B Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B
e_D Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D
Hu Height of the unit
Hb,Hd Height of obstacles B and D
1 Seal the bottom of the installation frame to prevent discharged air from flowing back to the suction side through the bottom of the unit.
2 Maximum two units can be installed.
⊘ Not allowed

1D128513

12 Installation

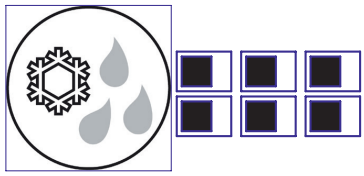
12 - 1 Installation Method

RZAG-NV1
RZAG-NY1

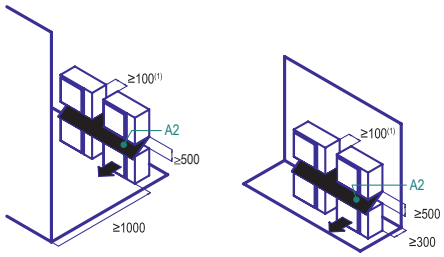
Stacked units (max.2 levels) ( )

Stacked units (max.2 levels) ( )

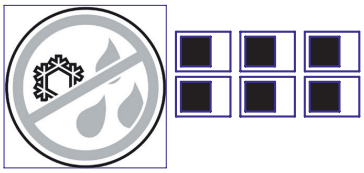
A1



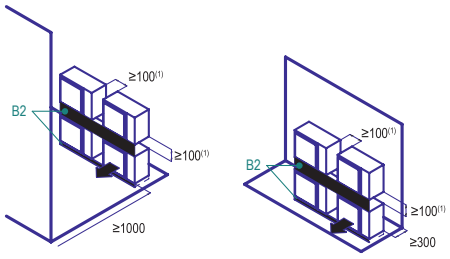
A2



B1



B2



(1) For better serviceability, use a distance ≥250 mm

A1=>A2 (A1) If there is danger of drainage dripping and freezing between the upper and lower units…
(A2) Then install a roof between the upper and lower units. Install the upper unit high enough above the lower unit to prevent ice buildup at the upper unit's bottom plate.

B1=>B2 (B1) If there is no danger of drainage dripping and freezing between the upper and lower units…
(B2) Then it is not required to install a roof, but seal the gap between the upper and lower units to prevent discharged air from flowing back to the suction side through the bottom of the unit.

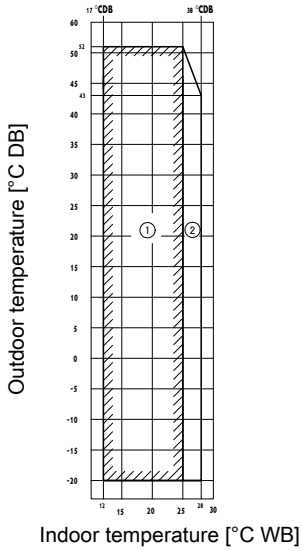
1D128513

13 Operation range

13 - 1 Operation Range

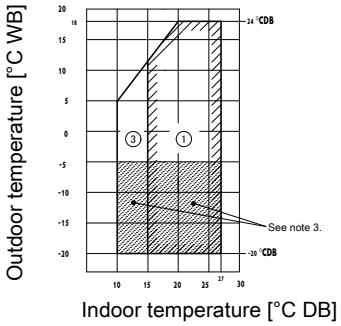
RZAG-NV1
RZAG-NY1

Cooling



① Operation range
② Pull-down operation range
③ Warm-up operation range

Heating



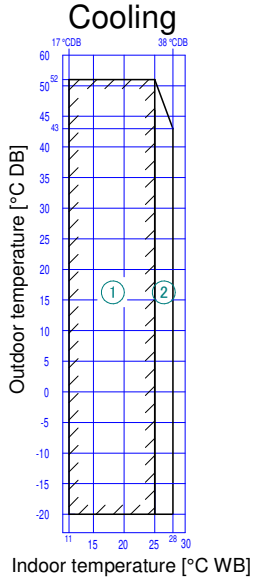
Notes

1. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
2. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
3. If the unit is selected to operate at ambient temperature < -5°C for 5 days or more, with relative humidity of 100%, it is required to install the optional bottom plate heater.

3D110020A

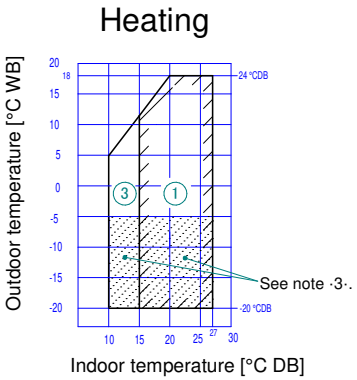
RZAG-NV1
RZAG-NY1

Cooling



① Operation range
② Pull-down operation range
③ Warm-up operation range

Heating



Notes

1. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
2. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
3. If the unit is selected to operate at ambient temperature < ·-5°C· for ·5· days or more, with relative humidity of 100%, it is required to install the optional bottom plate heater.

3D110022

14 Appropriate Indoors

14 - 1 Appropriate Indoors

RZAG-NV1
RZAG-NY1

ENER Lot 21
Appropriate indoor units

Connectable to ·RZAG125N7V1B / RZAG125N7Y1B· and covered by ·ENER Lot 21·

FCAHG125	FCAG35	FFA35	FBA35	FNA35	FUA125	-	FDA125	FVA125	FDXM35	FHA35	-
-	FCAG50	FFA50	FBA50	FNA50	-	-	-	-	FDXM50	FHA50	-
-	FCAG60	FFA60	FBA60	FNA60	-	-	-	-	FDXM60	FHA60	-
-	FCAG125	-	FBA125	-	-	-	-	-	-	FHA125	-

Connectable to ·RZAG140N7V1B / RZAG140N7Y1B· and covered by ·ENER Lot 21·

FCAHG71	FCAG35	FFA35	FBA35	FNA35	FUA71	FAA71	-	FVA71	FDXM35	FHA35	-
FCAHG140	FCAG50	FFA50	FBA50	FNA50	-	-	-	FVA140	FDXM50	FHA50	-
-	FCAG71	-	FBA71	-	-	-	-	-	-	FHA71	-
-	FCAG140	-	FBA140	-	-	-	-	-	-	FHA140	-

ENER Lot 10
Appropriate indoor units

Connectable to ·RZAG71N7V1B / RZAG71N7Y1B· and covered by ·ENER Lot 10·

FCAHG71	FCAG35	FFA35	FBA35	FNA35	FUA71	FAA71	-	FVA71	FDXM35	FHA35	-
-	FCAG71	-	FBA71	-	-	-	-	-	-	FHA71	-

Connectable to ·RZAG100N7V1B / RZAG100N7Y1B· and covered by ·ENER Lot 10·

FCAHG100	FCAG35	FFA35	FBA35	FNA35	FUA100	FAA100	-	FVA100	FDXM35	FHA35	-
-	FCAG50	FFA50	FBA50	FNA50	-	-	-	-	FDXM50	FHA50	-
-	FCAG100	-	FBA100	-	-	-	-	-	-	FHA100	-

3D120939

RZAG125-140NV1
RZAG125-140NY1

ENER Lot 21
Recommended combinations

Sky Air		High Cassette				Thin cassette						2x2 cassette			Duct (medium ESP)							Concealed floor standing type			Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)
Model		FCAHG71	FCAHG100	FCAHG125	FCAHG140	FCAG35	FCAG50	FCAG60	FCAG71	FCAG100	FCAG125	FCAG140	FFA35	FFA50	FFA60	FBA35	FBA50	FBA60	FBA71	FBA100	FBA125	FBA140	FNA35	FNA50	FNA60	FUA71	FUA100	FUA125	FAA71	FAA100	FDA125
RZAG125N7V1B	RZAG125N7Y1B			P		4					P				4					P							P			P
RZAG140N7V1B	RZAG140N7Y1B				P	4						P			4						P									

Sky Air		Floor standing type				Slim duct			Ceiling-suspended						Floor standing type
Model		FVA71	FVA100	FVA125	FVA140	FDXM35	FDXM50	FDXM60	FHA35	FHA50	FHA60	FHA71	FHA100	FHA125	FHA140	AVA125
RZAG125N7V1B	RZAG125N7Y1B			P										P		
RZAG140N7V1B	RZAG140N7Y1B				P										P	

P= Pair
2= Twin
3= Triple
4= Double twin

3D120939

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EEDEN20 06/2020