



Sky Air Alpha-series Air Conditioning Technical Data RZAG-NV1



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RZAG-NV1

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1 Features

1 - 1 RZAG-NV1

Industry leading technology in the most compact casing ever

- › Unique, low-height single fan range
- › Compact dimensions allow almost unnoticeable 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 (optional)



Guaranteed operation down to -20°C



Seasonal efficiency - Smart use of energy



Inverter (optional)



Swing compressor



Replacement technology



Auto cooling-heating changeover (optional)



Night quiet mode (optional)



Twin/triple/double twin application



Variable refrigerant temperature



Low sound enclosure (optional)

2 Specifications

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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		1,050			
		Width	mm		1,205			
		Depth	mm		569			
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.	m³/min	68	67	80	87
		Heating	Nom.	m³/min	75	82	80	87
			Partial	m³/min	-	45 (1)		
Fan motor	Quantity		1					
	Model		Brushless DC motor					
	Output		234					
	Drive		Direct drive					
Compressor	Quantity		1					
	Type		Hermetically sealed swing compressor					
Refrigerant	Charge		tCO2Eq	2.16	2.50			
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)			
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			
Refrigerant	Control		Expansion valve (electronic type)					
	GWP		675					
Refrigerant oil	Circuits	Quantity	1					
			FW68DA					
	Charged volume		l	0.9	1.4			
Piping connections	Liquid	Quantity		1				
		Type		Flare connection				
		OD		10				
	Gas	Quantity		1				
		Type		Flare connection				
		OD		15.9				
	Drain	Quantity		8				
		Type		Hole				
		OD		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	IU - OU	Max.	m	30			
	difference	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	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;

Standard accessories: General safety precautions;Quantity: 1;

2 Specifications

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

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

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Electrical Specifications			RZAG71NV1	RZAG100NV1	RZAG125NV1	RZAG140NV1
Power supply	Name		V1			
	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-240			
	Voltage range	V	198			
Current	Zmax	List	264			
			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

Technical specifications			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					
	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	2,836	2,943	3,002		
	Required back up heating cap at design conditions		kW	0.00						
	Space cooling	A Condition	Pdc kW	6.80		9.50		12.10	13.40	
(35°C - 27/19)		EERd	4.13	4.14	4.23	4.04	3.84	3.68		
		Power input	1.65	1.64	2.25	2.35	3.15	3.64		
B Condition		Pdc kW	5.01	5.03	7.00	7.03	8.92	9.88		
(30°C - 27/19)		EERd	5.96	6.00	6.14	5.96	5.81	5.77		
		Power input	0.84		1.14	1.18	1.54	1.71		
C Condition		Pdc kW	3.22	3.20	4.50	4.46	5.74	6.35		
(25°C - 27/19)		EERd	10.19	8.66	9.32	9.12	9.63	9.37		
		Power input	0.32	0.37	0.48	0.49	0.60	0.68		
D Condition		Pdc kW	2.64	2.72	3.71	3.59	3.61			
(20°C - 27/19)		EERd	14.60	10.83	12.87	12.38	13.99	14.07		
		Power input	0.18	0.25	0.29		0.26			
Space heating (Average climate)		TOL	Tol (temperature operating limit)	°C		-10				
			Pdh (declared heating cap)	kW	4.70		9.52			
			COPd (declared COP)		2.97	2.94	2.79	2.77	2.22	2.23
			Power input	kW	1.58	1.60	3.42	3.43	4.29	4.27
	TBivalent	Tbiv (bivalent temperature)	°C		-10					
		Pdh (declared heating cap)	kW	4.70		9.52				
		COPd (declared COP)		2.97	2.94	2.79	2.77	2.22	2.23	
		Power input	kW	1.58	1.60	3.42	3.43	4.29	4.27	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.16	4.14	8.42	8.38	8.42		
		COPd (declared COP)		3.32	3.30	3.14	3.13	2.84	2.80	
	Space heating (Average climate)	A Condition (-7°C)	Power input	kW	1.25		2.69	2.68	2.97	3.01
		B Condition (2°C)	Pdh (declared heating cap)	kW	2.53	2.54	5.13	5.14	5.13	
			COPd (declared COP)		4.57	4.30	4.79	4.76	4.58	4.42
			Power input	kW	0.55	0.59	1.07	1.08	1.12	1.16
C Condition (7°C)		Pdh (declared heating cap)	kW	1.79	1.89	3.30	3.33	3.30		
		COPd (declared COP)		5.48	4.73	5.81	5.71	5.79	5.78	
		Power input	kW	0.33	0.40	0.57	0.58	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	
		Power input	kW	0.29	0.37	0.38		0.39		

2 Specifications

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Technical specifications					FCAHG71H + RZAG71NV1	FCAHG100H + RZAG71NV1	FCAHG100H + RZAG100NV1	FCAHG140H + RZAG100NV1	FCAHG125H + RZAG125NV1	FCAHG140H + 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						
	Thermo-stat-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.

Technical specifications					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
	Annual energy consumption		kWh/a		348	317	466	423	1,016	1,182
Space heating (Average climate)	Energy efficiency class				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
Space cooling	Annual energy consumption		kWh/a		1,560	1,479	2,413	2,343		3,071
	Required back up heating cap at design conditions							0.00		
	A Condition	Pdc	kW		6.80			9.50	12.10	13.40
	(35°C - 27/19)	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
Space heating (Average climate)	B Condition	Pdc	kW		5.03			7.03	8.92	9.88
	(30°C - 27/19)	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	Pdc	kW		3.20			4.46	5.74	6.35
	(25°C - 27/19)	EERd			8.32	9.57	8.18	9.72	7.87	8.17
Space cooling		Power input	kW		0.38	0.33	0.55	0.46	0.73	0.78
	D Condition	Pdc	kW		2.40	2.65	3.31	3.61	3.25	3.32
	(20°C - 27/19)	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					
Space heating (Average climate)		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	Pdh (declared heating cap)	kW		4.13	4.14	6.86		8.43	8.42
	(-7°C)	COPd (declared COP)			2.96	3.25	2.87	3.04	2.59	2.52
Space heating (Average climate)	A Condition	Power input	kW		1.40	1.27	2.39	2.26	3.25	3.34
	(-7°C)									
	B Condition	Pdh (declared heating cap)	kW		2.54			4.21		5.12
	(2°C)	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
Space heating (Average climate)	C Condition	Pdh (declared heating cap)	kW		1.77	1.80	2.73			3.29
	(7°C)	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	Pdh (declared heating cap)	kW		1.96	2.02	2.47	2.51		2.52
	(12°C)	COPd (declared COP)			6.01	6.60	7.75	7.16		6.94
Space heating (Average climate)		Power input	kW		0.33	0.31	0.32	0.35		0.36

2 Specifications

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Technical specifications					FCAG71B + RZAG71NV1	FCAG100B + RZAG71NV1	FCAG100B + RZAG100NV1	FCAG140B + RZAG100NV1	FCAG125B + RZAG125NV1	FCAG140B + 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
	Thermo-stat-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.

Technical specifications					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
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
		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
		COPd (declared COP)			2.92	3.04	2.82	2.80	2.67	2.58
	A Condition (-7°C)	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
		Power input	kW		0.32	0.35	0.36	0.41	0.38	0.37

2 Specifications

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Technical specifications					FBA71A9 + RZAG71NV1	FBA100A + RZAG71NV1	FBA100A + RZAG100NV1	FBA140A + RZAG100NV1	FBA125A + RZAG125NV1	FBA140A + RZAG140NV1
Power consumption in other than active mode	Crankcase heater	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
	Thermo-stat-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.

Technical specifications					FDA125A + RZAG125NV1				
Cooling capacity	Nom.			kW					12.1 (1)
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	Pdc		kW					12.10
	(35°C - 27/19)	EERd							3.25
		Power input		kW					3.73
	B Condition	Pdc		kW					8.92
	(30°C - 27/19)	EERd							4.99
		Power input		kW					1.79
	C Condition	Pdc		kW					5.73
	(25°C - 27/19)	EERd							7.67
		Power input		kW					0.75
	D Condition	Pdc		kW					3.34
	(20°C - 27/19)	EERd							11.04
		Power input		kW					0.30
	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
Space heating (Average climate)	B Condition (2°C)	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

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Technical specifications					FDA125A + RZAG125NV1
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	0.012
		Heating	POFF	kW	0.012
	Standby mode	Cooling	PSB	kW	0.012
		Heating	PSB	kW	0.012
	Thermo-stat-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.

Technical specifications					FAA71B + RZAG71NV1	FAA100B + RZAG71NV1	FAA100B + RZAG100NV1
Cooling capacity	Nom.	kW			6.80	6.80 (1)	9.50
	Nom.	Btu/h			23,200	-	32,400
	Nom.	kcal/h			5,847	-	8,169
Heating capacity	Nom.	kW			7.50	7.50 (2)	10.80
	Nom.	Btu/h			25,600	-	36,900
	Nom.	kcal/h			6,449	-	9,286
Power input	Cooling	kW			2.08	-	2.93
	Heating	kW			2.19	-	3.41
Nominal efficiency	EER				3.27	-	3.24
	COP				3.42	-	3.17
	Annual energy consumption		kWh		1,040	-	1,466
	Energy labeling Directive	Cooling			A	-	A
		Heating			B	-	D
Space cooling	Energy efficiency class				A++		
	Capacity	Pdesign	kW		6.80		9.50
	SEER				6.58	6.43	6.42
	Annual energy consumption				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
	PdH Heating capacity at -10°				4.70	-	7.80
	Annual energy consumption				1,567	1,605	2,725
	Required back up heating cap at design conditions				0.00		
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		6.80		9.50
		EERd			3.27	3.47	3.24
		Power input	kW		2.08	1.96	2.93
	B Condition (30°C - 27/19)	Pdc	kW		5.02	5.03	7.00
		EERd			5.04	5.22	4.59
		Power input	kW		1.00	0.96	1.53
	C Condition (25°C - 27/19)	Pdc	kW		3.23	3.20	4.51
		EERd			8.40	7.90	7.56
		Power input	kW		0.38	0.40	0.60
	D Condition (20°C - 27/19)	Pdc	kW		2.59	2.48	3.10
		EERd			11.70	10.59	13.20
		Power input	kW		0.22		
					0.23		

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Technical specifications					FAA71B + RZAG71NV1	FAA100B + RZAG71NV1	FAA100B + RZAG100NV1
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	1.87	1.71	3.56	
	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	1.87	1.71	3.56	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.16	4.14	6.91	
		COPd (declared COP)		2.60	3.07	2.32	
		Power input	kW	1.60	1.35	2.98	
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.57	2.54	4.20	
		COPd (declared COP)		4.28	4.11	4.06	
		Power input	kW	0.60	0.62	1.03	
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.83	1.79	2.70	
		COPd (declared COP)		5.26	4.81	5.24	
		Power input	kW	0.35	0.37	0.52	
	D Condition (12°C)	Pdh (declared heating cap)	kW	2.23	2.02	2.43	
		COPd (declared COP)		7.10	5.94	6.37	
		Power input	kW	0.31	0.34	0.38	
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		
	Thermo-stat-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		
Eurovent	Sound power level outdoor	Cooling	Nom.	dBa	64	-	66
		Cooling	Nom.	dBa	61	-	65
	Piping length	Cooling	Measuring condition	m	7.50	-	

(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.

Technical specifications					FHA71A9 + RZAG71NV1	FHA100A + RZAG71NV1	FHA100A + 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			7.11	6.69	6.42	
	Annual energy consumption		kWh/a	335	356	518	
Space heating (Average climate)	Energy efficiency class				A+		
	Capacity	Pdesign	kW		4.70		7.80
	SCOP/A			4.32	4.26	4.61	
	SCOPnet/A			4.32	4.26	4.61	
	Annual energy consumption		kWh/a	1,523	1,545	2,369	
	Required back up heating cap at design conditions				0.00		

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Technical specifications					FHA71A9 + RZAG71NV1	FHA100A + RZAG71NV1	FHA100A + RZAG100NV1
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	6.80		9.50	
		EERd		3.75	4.02	4.10	
		Power input	kW	1.81	1.69	2.31	
	B Condition (30°C - 27/19)	Pdc	kW	5.03		7.03	
		EERd		5.46	5.34	4.92	
		Power input	kW	0.92	0.94	1.43	
	C Condition (25°C - 27/19)	Pdc	kW	3.20		4.47	
		EERd		8.99	8.27	7.62	
		Power input	kW	0.36	0.39	0.59	
	D Condition (20°C - 27/19)	Pdc	kW	2.48		3.54	
		EERd		12.58	10.71	10.27	
		Power input	kW	0.20	0.24	0.34	
Space heating (Average climate)	TOL	Tol (temperature operating limit)		-10			
		Pdh (declared heating cap)		4.70		7.80	
		COPd (declared COP)		2.43	2.90	2.65	
		Power input		1.93	1.62	2.94	
	TBivalent	Tbiv (bivalent temperature)		-10			
		Pdh (declared heating cap)		4.70		7.80	
		COPd (declared COP)		2.43	2.90	2.65	
		Power input		1.93	1.62	2.94	
	A Condition (-7°C)	Pdh (declared heating cap)		4.14		6.86	
		COPd (declared COP)		2.95	3.26	3.03	
		Power input		1.40	1.27	2.27	
	B Condition (2°C)	Pdh (declared heating cap)		2.54		4.21	
Space heating (Average climate)	B Condition (2°C)	COPd (declared COP)		4.44	4.32	4.61	
		Power input		0.57	0.59	0.91	
	C Condition (7°C)	Pdh (declared heating cap)		1.79	1.84	2.73	
		COPd (declared COP)		5.15	4.90	5.70	
		Power input		0.35	0.38	0.48	
	D Condition (12°C)	Pdh (declared heating cap)		1.97	2.07	2.54	
		COPd (declared COP)		5.99	6.00	7.06	
		Power input		0.33	0.34	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		
	Thermo-stat-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		

Technical specifications				FHA140A + RZAG100NV1	FHA125A + RZAG125NV1	FHA140A + RZAG140NV1
Cooling capacity	Nom.	kW		9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.	kW		10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++	-	
	Capacity	Pdesign	kW	9.50	12.1	13.4
	SEER			7.35	7.14	6.42
	ηs,c	%		-	283	254
	Annual energy consumption		kWh/a	453	1,017	1,253
Space heating (Average climate)	Energy efficiency class			A+	-	
	Capacity	Pdesign	kW	7.80	9.52	
	SCOP/A			4.50	4.20	4.30
	SCOPnet/A			4.50	4.20	4.30
	ηs,h	%		-	165	169
	Annual energy consumption		kWh/a	2,429	3,174	3,100
	Required back up heating cap at design conditions			0.00		

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Technical specifications				FHA140A + RZAG100NV1	FHA125A + RZAG125NV1	FHA140A + RZAG140NV1
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	9.50	12.10	13.40
		EERd		4.05	3.40	3.11
		Power input	kW	2.34	3.56	4.31
	B Condition (30°C - 27/19)	Pdc	kW	7.03	8.92	9.87
		EERd		6.03	5.55	4.94
		Power input	kW	1.17	1.61	2.00
	C Condition (25°C - 27/19)	Pdc	kW	4.46	5.73	6.35
		EERd		8.88	8.20	7.48
		Power input	kW	0.50	0.70	0.85
	D Condition (20°C - 27/19)	Pdc	kW	3.61	3.36	3.35
		EERd		11.63	12.00	10.13
		Power input	kW	0.31	0.28	0.33
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10		
		Pdh (declared heating cap)	kW	7.80	9.52	
		COPd (declared COP)		2.85	1.87	2.13
		Power input	kW	2.73	5.10	4.47
	TBivalent	Tbiv (bivalent temperature)	°C	-10		
		Pdh (declared heating cap)	kW	7.80	9.52	
		COPd (declared COP)		2.85	1.87	2.13
		Power input	kW	2.73	5.10	4.47
	A Condition (-7°C)	Pdh (declared heating cap)	kW	6.86	8.42	
		COPd (declared COP)		3.15	2.55	2.70
	B Condition (2°C)	Pdh (declared heating cap)	kW	4.21	5.12	
		COPd (declared COP)		4.57	4.26	4.33
Space heating (Average climate)	A Condition (-7°C)	Power input	kW	2.18	3.30	3.11
	B Condition (2°C)	Pdh (declared heating cap)	kW	4.21	5.12	
		COPd (declared COP)		4.57	4.26	4.33
	C Condition (7°C)	Pdh (declared heating cap)	kW	2.73	3.29	
		COPd (declared COP)		5.30	5.49	5.54
	D Condition (12°C)	Power input	kW	0.52	0.60	0.59
	Power input		kW		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	
	Thermo-stat-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	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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Technical specifications				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 Pdc	kW		6.80		9.50	12.10
	(35°C - 27/19) EERd			3.83	4.02	3.57	3.02
	Power input	kW		1.77	1.69	2.66	4.00
	B Condition Pdc	kW		5.03		7.03	8.91
	(30°C - 27/19) EERd			5.34	5.65	4.93	5.08
	Power input	kW		0.94	0.89	1.43	1.76
	C Condition Pdc	kW		3.20	3.19	4.46	5.74
	(25°C - 27/19) EERd			8.83	8.54	7.75	7.22
	Power input	kW		0.36	0.37	0.58	0.79
	D Condition Pdc	kW		2.59	2.64	3.36	3.23
	(20°C - 27/19) 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 Pdh (declared heating cap)	kW		4.14		6.86	8.43
	(-7°C) COPd (declared COP)			2.99	3.31	3.00	2.66
	Power input	kW		1.38	1.25	2.29	3.17
	B Condition Pdh (declared heating cap)	kW		2.54		4.21	5.12
Space heating (Average climate)	(2°C) COPd (declared COP)			4.27	4.36	4.53	4.31
	Power input	kW		0.60	0.58	0.93	1.19
	C Condition Pdh (declared heating cap)	kW		1.80	1.86	2.73	3.29
	(7°C) COPd (declared COP)			5.03	4.87	5.47	
	Power input	kW		0.36	0.38	0.50	0.60
	D Condition Pdh (declared heating cap)	kW		2.00	2.09	2.55	2.58
	(12°C) COPd (declared COP)			6.00	5.94	6.76	6.18
	Power input	kW		0.33	0.35	0.38	0.42
	Power consumption in other than active mode	Cooling PCK	kW	0.000			
	heater Heating PCK	kW		0.000			
	Off mode Cooling POFF	kW		0.009			
	Heating POFF	kW		0.009			
	Standby Cooling PSB	kW		0.009			
	Heating PSB	kW		0.009			
	Thermo-stat-off 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 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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Technical specifications					FVA71A + RZAG71NV1	FVA100A + RZAG71NV1	FVA100A + RZAG100NV1	FVA140A + RZAG100NV1	FVA125A + RZAG125NV1	FVA140A + RZAG140NV1
Cooling capacity	Nom.		kW		6.80 (1)	6.80	9.50 (1)		12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW		7.50 (2)	7.50	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		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	-	2.45	2.57	1.86	
Power input			kW		1.94	-	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
				kW		-	4.70	-		
Space heating (Average climate)						-	2.85	-		
Space heating (Average climate)			kW		-	1.65	-			
					2.83	3.18	2.82	2.84	2.55	2.42
			kW		1.46	1.30	2.43	2.42	3.30	3.48
			kW		2.54		4.21		5.12	
					4.07	4.11	4.21	4.11	4.20	3.99
			kW		0.62		1.00	1.02	1.22	1.28
			kW		1.76	1.88	2.73		3.29	
					4.92	4.54	5.13	4.77	5.42	5.12
			kW		0.36	0.41	0.53	0.57	0.61	0.64
			kW		1.96	2.10	2.56	2.60	2.57	2.61
					5.77	5.48	6.22	5.58	6.00	5.67
			kW		0.34	0.38	0.41	0.47	0.43	0.46
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					
	Thermo-stat-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					

2 Specifications

2 - 1 Specifications

2

Technical specifications		FVA71A + RZAG71NV1	FVA100A + RZAG71NV1	FVA100A + RZAG100NV1	FVA140A + RZAG100NV1	FVA125A + RZAG125NV1	FVA140A + RZAG140NV1
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.

Electrical data

Electrical Data

RZAG-NV1

RZAG-NY1

Notes

- 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

- TOCA· is the total value of each overcurrent set.

- 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.

- The maximum allowable voltage that is unbalanced between phases is ·2·%.

- 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.

- Select the wire size according to the MCA.

- MFA· is used to select the circuit breaker and the ground fault circuit interruptor.

Earth leakage circuit breaker

3D120943E

RZAG71-140N7V1

												Compressor			OFM			IFM				
Indoor		Outdoor		Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA	kW	FLA	kW	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	—	—	—	23,8	0,234	1,2	0,244	1,4	
FCAG35BVEB	x2 RZAG71N7V1B			17,6	—	20	—	—	15,5	0,234	0,8	0,044 x2	0,3 x2	—	—	—	—	23,8	0,234	1,2	0,044 x4	0,3 x4
FCAG71BVEB	RZAG71N7V1B			17,4	—	20	—	—	15,5	0,234	0,8	0,054	0,4	—	—	—	—	23,8	0,234	1,2	0,039 x3	0,3 x3
FFA35A2VEB	x2 RZAG71N7V1B			17,4	—	20	—	—	15,5	0,234	0,8	0,050 x2	0,2 x2	—	—	—	—	23,8	0,234	1,2	0,044 x2	0,3 x2
FBA35A2VEB	x2 RZAG71N7V1B			19,9	—	20	—	—	15,5	0,234	0,8	0,089 x2	1,4 x2	—	—	—	—	23,8	0,234	1,2	0,168	1,0
FBA71A2VEB	RZAG71N7V1B			18,3	—	20	—	—	15,5	0,234	0,8	0,070	1,3	—	—	—	—	23,8	0,234	1,2	0,050 x4	0,2 x4
FNA35A2VEB	x2 RZAG71N7V1B			18,0	—	20	—	—	15,5	0,234	0,8	0,034 x2	0,5 x2	—	—	—	—	23,8	0,234	1,2	0,050 x3	0,4 x3
FUA71AVEB9	RZAG71N7V1B			17,9	—	20	—	—	15,5	0,234	0,8	0,046	0,9	—	—	—	—	23,8	0,234	1,2	0,050 x2	0,6 x2
FAA71BU1V1B	RZAG71N7V1B			17,5	—	20	—	—	15,5	0,234	0,8	0,048	0,5	—	—	—	—	23,8	0,234	1,2	0,089 x4	1,4 x4
FVA71AMVEB	RZAG71N7V1B			17,8	—	20	—	—	15,5	0,234	0,8	0,117	0,8	—	—	—	—	23,8	0,234	1,2	0,089 x3	1,4 x3
FDXM35F3V1B	x2 RZAG71N7V1B	50Hz - 220-240V	Minimum: -198 V- Maximum: -264 V-	17,6	—	20	—	—	15,5	0,234	0,8	0,034 x2	0,3 x2	—	—	—	—	23,8	0,234	1,2	0,070 x2	1,3 x2
FHA35AVEB98	x2 RZAG71N7V1B			18,2	—	20	—	—	15,5	0,234	0,8	0,090 x2	0,6 x2	—	—	—	—	23,8	0,234	1,2	0,090 x2	0,6 x2
FHA71AVEB98	RZAG71N7V1B			17,8	—	20	—	—	15,5	0,234	0,8	0,110	0,8	—	—	—	—	23,8	0,234	1,2	0,110	0,8
FCAHG100HVEB	RZAG100N7V1B			22,2	—	32	—	—	18,8	0,234	1,2	0,221	1,3	—	—	—	—	23,8	0,234	1,2	0,244	1,4
FCAG35BVEB	x3 RZAG100N7V1B			21,7	—	32	—	—	18,8	0,234	1,2	0,044 x3	0,3 x3	—	—	—	—	23,8	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	—	—	—	—	23,8	0,234	1,2	0,060 x3	0,5 x3
FCAG100BVEB	RZAG100N7V1B			21,5	—	32	—	—	18,8	0,234	1,2	0,117	0,7	—	—	—	—	23,8	0,234	1,2	0,060 x2	0,6 x2
FFA35A2VEB	x3 RZAG100N7V1B			21,4	—	32	—	—	18,8	0,234	1,2	0,050 x3	0,2 x3	—	—	—	—	23,8	0,234	1,2	0,106	1,4
FFA50A2VEB	x2 RZAG100N7V1B			21,6	—	32	—	—	18,8	0,234	1,2	0,050 x2	0,4 x2	—	—	—	—	23,8	0,234	1,2	0,034 x4	0,3 x4
FBA35A2VEB	x3 RZAG100N7V1B			25,2	—	32	—	—	18,8	0,234	1,2	0,089 x3	1,4 x3	—	—	—	—	23,8	0,234	1,2	0,060 x3	0,9 x3
FBA50A2VEB	x2 RZAG100N7V1B	50Hz - 220-240V	Minimum: -198 V- Maximum: -264 V-	23,7	—	32	—	—	18,8	0,234	1,2	0,089 x2	1,4 x2	—	—	—	—	23,8	0,234	1,2	0,060 x2	0,9 x2
FBA100A2VEB	RZAG100N7V1B			24,4	—	32	—	—	18,8	0,234	1,2	0,127	3,5	—	—	—	—	23,8	0,234	1,2	0,090 x4	0,6 x4
FNA35A2VEB	x3 RZAG100N7V1B			22,4	—	32	—	—	18,8	0,234	1,2	0,034 x3	0,5 x3	—	—	—	—	23,8	0,234	1,2	0,090 x3	0,6 x3
FNA50A2VEB	x2 RZAG100N7V1B			21,8	—	32	—	—	18,8	0,234	1,2	0,060 x2	0,5 x2	—	—	—	—	23,8	0,234	1,2	0,091 x2	0,6 x2
FUA100AVEB9	RZAG100N7V1B			22,2	—	32	—	—	18,8	0,234	1,2	0,106	1,3	—	—	—	—	23,8	0,234	1,2	0,217	1,5
FAA100BU1V1B	RZAG100N7V1B			21,7	—	32	—	—	18,8	0,234	1,2	0,064	0,9	—	—	—	—	23,8	0,234	1,4	0,091 x2	0,7 x2
FVA100AMVEB	RZAG100N7V1B			22,4	—	32	—	—	18,8	0,234	1,2	0,238	1,5	—	—	—	—	23,8	0,234	1,4	0,244	1,4
FDXM35F3V1B	x3 RZAG100N7V1B			21,7	—	32	—	—	18,8	0,234	1,2	0,034 x3	0,3 x3	—	—	—	—	23,8	0,234	1,4	0,044 x4	0,3 x4
FDXM50F3V1B	x2 RZAG100N7V1B			22,7	—	32	—	—	18,8	0,234	1,2	0,060 x2	0,9 x2	—	—	—	—	23,8	0,234	1,4	0,039 x3	0,3 x3
FHA35AVEB98	x3 RZAG100N7V1B			22,7	—	32	—	—	18,8	0,234	1,2	0,090 x3	0,6 x3	—	—	—	—	23,8	0,234	1,4	0,054 x2	0,4 x2
FHA50AVEB98	x2 RZAG100N7V1B	50Hz - 220-240V	Minimum: -198 V- Maximum: -264 V-	22,0	—	32	—	—	18,8	0,234	1,2	0,090 x2	0,6 x2	—	—	—	—	23,8	0,234	1,4	0,168	1,3
FHA100AVEB8	RZAG100N7V1B			22,2	—	32	—	—	18,8	0,234	1,2	0,172	1,3	—	—	—	—	23,8	0,234	1,4	0,251	1,8
FCAHG125HVEB	RZAG125N7V1B			27,5	—	32	—	—	23,8	0,234	1,2	0,244	1,4	—	—	—	—	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	—	—	—	—	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	—	—	—	—	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	—	—	—	—	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	—	—	—	—	23,8	0,234	1,2	0,168	1,0
FBA125A2VEB	x4 RZAG125N7V1B			26,8	—	32	—	—	23,8	0,234	1,2	0,050 x4	0,2 x4	—	—	—	—	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	—	—	—	—	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	—	—	—	—	23,8	0,234	1,2	0,089 x4	1,4 x4
FBA50A2VEB	x3 RZAG125N7V1B	50Hz - 220-240V	Minimum: -198 V- Maximum: -264 V-	30,4	—	32	—	—	23,8	0,234	1,2	0,089 x3	1,4 x3	—	—	—	—	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	—	—	—	—	23,8	0,234	1,2	0,070 x2	1,3 x2
FBA140A2VEB	RZAG140N7V1B			30,1	—	32	—	—	23,8	0,234	1,4	0,187	3,9	—	—	—	—	23,8	0,234	1,4	0,187	3,9
FNA35A2VEB	x4 RZAG140N7V1B			28,1	—	32	—	—	23,8	0,234	1,4	0,034 x4	0,5 x4	—	—	—	—	23,8	0,234	1,4	0,034 x4	0,5 x4
FNA50A2VEB	x3 RZAG140N7V1B			27,6	—	32	—	—	23,8	0,234	1,4	0,060 x3	0,5 x3	—	—	—	—	23,8	0,234	1,4	0,060 x3	0,5 x3
FUA71AVEB9	x2 RZAG140N7V1B			27,9	—	32	—	—	23,8	0,234	1,4	0,046 x2	0,9 x2	—	—	—	—	23,8	0,234	1,4	0,046 x2	0,9 x2
FAA71BU1V1B	x2 RZAG140N7V1B			27,0	—	32	—	—	23,8	0,234	1,4	0,048 x2	0,5 x2	—	—	—	—	23,8	0,234	1,4	0,048 x2	0,5 x2
FVA71AMVEB	x2 RZAG140N7V1B			27,7	—	32	—	—	23,8	0,234	1,4	0,117 x2	0,8 x2	—	—	—	—	23,8	0,234	1,4	0,117 x2	0,8 x2
FVA140AMVEB	RZAG140N7V1B			27,9	—	32	—	—	23,8	0,234	1,4	0,216	1,8	—	—	—	—	23,8	0,234	1,4	0,216	1,8
FDXM35F3V1B	x4 RZAG140N7V1B			27,9	—	32	—	—	23,8	0,234	1,4	0,034 x4	0,5 x4	—	—	—	—	23,8	0,234	1,4	0,034 x4	0,5 x4
FDXM50F3V1B	x3 RZAG140N7V1B	27,9	—	32	—	—	23,8	0,234	1,4	0,060 x3	0,9 x3	—	—	—	—	23,8	0,234	1,4	0,060 x3	0,9 x3		
FHA35AVEB98	x4 RZAG140N7V1B	28,5	—	32	—	—	23,8	0,234	1,4	0,090 x4	0,6 x4	—	—	—	—	23,8	0,234	1,4	0,090 x4	0,6 x4		
FHA50AVEB98	x3 RZAG140N7V1B	27,9	—	32	—	—	23,8	0,234	1,4	0,090 x3	0,6 x3	—	—	—	—	23,8	0,234	1,4	0,090 x3	0,6 x3		
FHA71AVEB98	x2 RZAG140N7V1B	27,7	—	32	—	—	23,8	0,234	1,4	0,110 x2	0,8 x2	—	—	—	—	23,8	0,234	1,4	0,110 x2	0,8 x2		
FHA140AVEB8	x2 RZAG140N7V1B	27,9	—	32	—	—	23,8	0,234	1,4	0,251	1,8	—	—	—	—	23,8	0,234	1,4	0,251	1,8		

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]

Electrical data

Electrical Data

RZAG71-140N2V1

				Compressor																			
Indoor		Outdoor	Power supply	Voltage range		MCA		TOCA		MFA		MSC		RLA		kW		FLA		IFM			
FCAGH71HVEB		RZAG71N2V1B	50Hz - 220-240V	Minimum: -198 V- Maximum: -264 V-	17.7	-	20	-	-	-	-	-	15.5	0.234	0.8	0.091	0.7						
FCAG35BVEB	x2	RZAG71N2V1B			17.6	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.044 x2	0.3 x2					
FCAG71BVEB		RZAG71N2V1B			17.4	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.054	0.4					
FFA35A2VEB	x2	RZAG71N2V1B			17.4	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.050 x2	0.2 x2					
FBA35A2VEB	x2	RZAG71N2V1B			19.9	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.089 x2	1.4 x2					
FBA71A2VEB		RZAG71N2V1B			18.3	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.070	1.3					
FNA35A2VEB	x2	RZAG71N2V1B			18.0	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.034 x2	0.5 x2					
FUA71AVEB9		RZAG71N2V1B			17.9	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.046	0.9					
FAA71BUV1B		RZAG71N2V1B			17.5	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.048	0.5					
FVA71AMVEB		RZAG71N2V1B			17.8	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.117	0.8					
FDXM35F3V1B	x2	RZAG71N2V1B	50Hz - 220-240V	Minimum: -198 V- Maximum: -264 V-	17.6	-	20	-	-	-	-	-	15.5	0.234	0.8	0.034 x2	0.3 x2	0.2 x2					
FHA35AVEB98	x2	RZAG71N2V1B			18.2	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.090 x2	0.6 x2	0.2 x2				
FHA71AVEB98		RZAG71N2V1B			17.8	-	20	-	-	-	-	-	-	15.5	0.234	0.8	0.110	0.8					
FCAGH100HVEB		RZAG100N2V1B			22.2	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.221	1.3					
FCAG35BVEB	x3	RZAG100N2V1B			21.7	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.044 x3	0.3 x3	0.3 x3				
FCAG50BVEB	x2	RZAG100N2V1B			21.4	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.039 x2	0.3 x2	0.2 x2				
FCAG100BVEB		RZAG100N2V1B			21.5	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.117	0.7					
FFA35A2VEB	x3	RZAG100N2V1B			21.4	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.050 x3	0.2 x3	0.3 x3				
FFA50A2VEB	x2	RZAG100N2V1B			21.6	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.050 x2	0.4 x2	0.2 x2				
FBA35A2VEB	x3	RZAG100N2V1B			25.2	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.089 x3	1.4 x3	1.4 x3				
FBA50A2VEB	x2	RZAG100N2V1B	50Hz - 220-240V	Minimum: -198 V- Maximum: -264 V-	23.7	-	32	-	-	-	-	-	18.8	0.234	1.2	0.089 x2	1.4 x2	1.4 x2					
FBA100A2VEB		RZAG100N2V1B			24.4	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.127	3.5					
FNA35A2VEB	x3	RZAG100N2V1B			22.4	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.034 x3	0.5 x3	0.5 x3				
FNA50A2VEB	x2	RZAG100N2V1B			21.8	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.060 x2	0.5 x2	0.5 x2				
FUA100AVEB9		RZAG100N2V1B			22.2	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.106	1.3					
FAA100BUV1B		RZAG100N2V1B			21.7	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.064	0.9					
FVA100AMVEB		RZAG100N2V1B			22.4	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.238	1.5					
FDXM35F3V1B	x3	RZAG100N2V1B			21.7	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.034 x3	0.3 x3	0.3 x3				
FDXM50F3V1B	x2	RZAG100N2V1B			22.7	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.060 x2	0.9 x2	0.9 x2				
FHA35AVEB98	x3	RZAG100N2V1B			22.7	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.090 x3	0.6 x3	0.6 x3				
FHA50AVEB98	x2	RZAG100N2V1B	50Hz - 220-240V	Minimum: -198 V- Maximum: -264 V-	22.0	-	32	-	-	-	-	-	18.8	0.234	1.2	0.090 x2	0.6 x2	0.6 x2					
FHA100AVEB8		RZAG100N2V1B			22.2	-	32	-	-	-	-	-	-	18.8	0.234	1.2	0.172	1.3					

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]

				Compressor										OFM		IFM	
Indoor		Outdoor		Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA		
FCAG125HVEB		RZAG125N2V1B		50Hz - 220-240V	Minimum: -198 V Maximum: -264 V	27.5	—	32	—	23.8	0.234	1.2	0.244	1.4			
FCAG35BVEB	x4	RZAG125N2V1B				27.2	—	32	—	23.8	0.234	1.2	0.044 x4	0.3 x4			
FCAG50BVEB	x3	RZAG125N2V1B				26.9	—	32	—	23.8	0.234	1.2	0.039 x3	0.3 x3			
FCAG60BVEB	x2	RZAG125N2V1B				26.6	—	32	—	23.8	0.234	1.2	0.044 x2	0.3 x2			
FCAG125BVEB		RZAG125N2V1B				27.0	—	32	—	23.8	0.234	1.2	0.168	1.0			
FFA35A2VEB	x4	RZAG125N2V1B				26.8	—	32	—	23.8	0.234	1.2	0.050 x4	0.2 x4			
FFA50A2VEB	x3	RZAG125N2V1B				27.2	—	32	—	23.8	0.234	1.2	0.050 x3	0.4 x3			
FFA60A2VEB	x2	RZAG125N2V1B				27.2	—	32	—	23.8	0.234	1.2	0.050 x2	0.6 x2			
FBA35A2VEB	x4	RZAG125N2V1B				31.8	—	32	—	23.8	0.234	1.2	0.089 x4	1.4 x4			
FBA50A2VEB	x3	RZAG125N2V1B				30.4	—	32	—	23.8	0.234	1.2	0.089 x3	1.4 x3			
FBA60A2VEB	x2	RZAG125N2V1B		50Hz - 220-240V	Minimum: -198 V Maximum: -264 V	28.7	—	32	—	23.8	0.234	1.2	0.070 x2	1.3 x2			
FBA125A2VEB		RZAG125N2V1B				30.1	—	32	—	23.8	0.234	1.2	0.187	3.9			
FNA35A2VEB	x4	RZAG125N2V1B				28.1	—	32	—	23.8	0.234	1.2	0.034 x4	0.5 x4			
FNA50A2VEB	x3	RZAG125N2V1B				27.6	—	32	—	23.8	0.234	1.2	0.060 x3	0.5 x3			
FNA60A2VEB	x2	RZAG125N2V1B				27.2	—	32	—	23.8	0.234	1.2	0.060 x2	0.6 x2			
FUA125AVEB9		RZAG125N2V1B				27.5	—	32	—	23.8	0.234	1.2	0.106	1.4			
FDA125ASVEB		RZAG125N2V1B				28.2	—	32	—	23.8	0.234	1.2	0.350	2.1			
FVA125AMVEB		RZAG125N2V1B				27.6	—	32	—	23.8	0.234	1.2	0.238	1.5			
FDXM35F3V1B	x4	RZAG125N2V1B				27.2	—	32	—	23.8	0.234	1.2	0.034 x4	0.3 x4			
FDXM50F3V1B	x3	RZAG125N2V1B				28.8	—	32	—	23.8	0.234	1.2	0.060 x3	0.9 x3			
FDXM60F3V1B	x2	RZAG125N2V1B		50Hz - 220-240V	Minimum: -198 V Maximum: -264 V	27.9	—	32	—	23.8	0.234	1.2	0.060 x2	0.9 x2			
FHA35AVEB98	x4	RZAG125N2V1B				28.5	—	32	—	23.8	0.234	1.2	0.090 x4	0.6 x4			
FHA50AVEB98	x3	RZAG125N2V1B				27.9	—	32	—	23.8	0.234	1.2	0.090 x3	0.6 x3			
FHA60AVEB98	x2	RZAG125N2V1B				27.2	—	32	—	23.8	0.234	1.2	0.091 x2	0.6 x2			
FHA125AVEB8		RZAG125N2V1B				27.6	—	32	—	23.8	0.234	1.2	0.217	1.5			
FCAGH71HVEB	x2	RZAG140N2V1B				27.5	—	32	—	23.6	0.234	1.4	0.091 x2	0.7 x2			
FCAGH140HVEB		RZAG140N2V1B				27.5	—	32	—	23.6	0.234	1.4	0.244	1.4			
FCAG35BVEB	x4	RZAG140N2V1B				27.2	—	32	—	23.6	0.234	1.4	0.044 x4	0.3 x4			
FCAG50BVEB	x3	RZAG140N2V1B				26.9	—	32	—	23.6	0.234	1.4	0.039 x3	0.3 x3			
FCAG71BVEB	x2	RZAG140N2V1B				26.8	—	32	—	23.6	0.234	1.4	0.054 x2	0.4 x2			
FFA140BVEB		RZAG140N2V1B		50Hz - 220-240V	Minimum: -198 V Maximum: -264 V	27.4	—	32	—	23.6	0.234	1.4	0.168	1.3			
FFA35A2VEB	x4	RZAG140N2V1B				26.8	—	32	—	23.6	0.234	1.4	0.050 x4	0.2 x4			
FFA50A2VEB	x3	RZAG140N2V1B				27.2	—	32	—	23.6	0.234	1.4	0.050 x3	0.4 x3			
FBA35A2VEB	x4	RZAG140N2V1B				31.8	—	32	—	23.6	0.234	1.4	0.089 x4	1.4 x4			
FBA50A2VEB	x3	RZAG140N2V1B				30.4	—	32	—	23.6	0.234	1.4	0.089 x3	1.4 x3			
FBA71A2VEB	x2	RZAG140N2V1B				28.7	—	32	—	23.6	0.234	1.4	0.070 x2	1.3 x2			
FBA140A2VEB		RZAG140N2V1B				30.1	—	32	—	23.6	0.234	1.4	0.187	3.9			
FNA35A2VEB	x4	RZAG140N2V1B				28.1	—	32	—	23.6	0.234	1.4	0.034 x4	0.5 x4			
FNA50A2VEB	x3	RZAG140N2V1B				27.6	—	32	—	23.6	0.234	1.4	0.060 x3	0.5 x3			
FUA71AVEB9	x2	RZAG140N2V1B				27.9	—	32	—	23.6	0.234	1.4	0.046 x2	0.9 x2			
FAA71BUV1B	x2	RZAG140N2V1B		50Hz - 220-240V	Minimum: -198 V Maximum: -264 V	27.0	—	32	—	23.6	0.234	1.4	0.048 x2	0.5 x2			
FVA71AMVEB	x2	RZAG140N2V1B				27.7	—	32	—	23.6	0.234	1.4	0.117 x2	0.8 x2			
FVA140AMVEB		RZAG140N2V1B				27.9	—	32	—	23.6	0.234	1.4	0.276	1.8			
FDXM35F3V1B	x4	RZAG140N2V1B				27.2	—	32	—	23.6	0.234	1.4	0.034 x4	0.3 x4			
FDXM50F3V1B	x3	RZAG140N2V1B				28.8	—	32	—	23.6	0.234	1.4	0.060 x3	0.9 x3			
FHA35AVEB98	x4	RZAG140N2V1B				28.5	—	32	—	23.6	0.234	1.4	0.090 x4	0.6 x4			
FHA50AVEB98	x3	RZAG140N2V1B				27.9	—	32	—	23.6	0.234	1.4	0.090 x3	0.6 x3			
FHA71AVEB98	x2	RZAG140N2V1B				27.7	—	32	—	23.6	0.234	1.4	0.110 x2	0.8 x2			
FHA140AVEB8		RZAG140N2V1B				27.9	—	32	—	23.6	0.234	1.4	0.251	1.8			

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RZAG-NV1

RZAG-NY1

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

- 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

- TO

3 Electrical data

3 - 1 Electrical Data

RZAG71-140N7V1

				Compressor												OFM		IFM	
Indoor		Outdoor		Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA	kW	FLA		
FCAGH100HVEB		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		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		RZAG71N7V1B				21.3	—	25	—	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	—	25	—	15.5	0.234	0.8	0.127	3.5					
FUA100AVEB9		RZAG71N7V1B				18.3	—	20	—	15.5	0.234	0.8	0.106	1.3					
FVA100AMVEB		RZAG71N7V1B		17.9	—	20	—	15.5	0.234	0.8	0.064	0.9							
FDXM35F3V1B	x3	RZAG71N7V1B		18.5	—	20	—	15.5	0.234	0.8	0.238	1.5							
FDXM50F3V1B	x2	RZAG71N7V1B		17.9	—	20	—	15.5	0.234	0.8	0.034 x3	0.3 x3							
FHA35AVEB98	x3	RZAG71N7V1B		18.8	—	20	—	15.5	0.234	0.8	0.090 x3	0.6 x3							
FHA50AVEB98	x2	RZAG71N7V1B		18.2	—	20	—	15.5	0.234	0.8	0.090 x2	0.6 x2							
FHA100AVEB8		RZAG71N7V1B		18.3	—	20	—	15.5	0.234	0.8	0.172	1.3							
FCAGH71HVEB	x2	RZAG100N7V1B		22.3	—	32	—	18.8	0.234	1.2	0.091 x2	0.7 x2							
FCAGH140HVEB		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	0.4							
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							
FUA71AVEB9	x2	RZAG100N7V1B		22.7	—	32	—	18.8	0.234	1.2	0.046 x2	0.9 x2							
FAA71BUV1B	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	x2	RZAG100N7V1B		23.6	—	32	—	18.8	0.234	1.2	0.060 x3	0.9 x3							
FHA35AVEB98	x4	RZAG100N7V1B		23.3	—	32	—	18.8	0.234	1.2	0.090 x4	0.6 x4							
FHA50AVEB98	x3	RZAG100N7V1B		22.7	—	32	—	18.8	0.234	1.2	0.090 x3	0.6 x3							
FHA71AVEB98	x2	RZAG100N7V1B		22.5	—	32	—	18.8	0.234	1.2	0.110 x2	0.8 x2							
FHA140AVEB8		RZAG100N7V1B		22.7	—	32	—	18.8	0.234	1.2	0.251	1.8							

				Compressor			OFM		IFM			
Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAGH71HVEB	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
FCAGH140HVEB	x2 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	x2 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	x2 RZAG125N7V1B	30.1	—	32	—	23.8	0.234	1.2	0.187	3.9		
FUA71AVEB9	x2 RZAG125N7V1B	27.9	—	32	—	23.8	0.234	1.2	0.046 x2	0.9 x2		
FAA71BUV1B	x2 RZAG125N7V1B	27.0	—	32	—	23.8	0.234	1.2	0.048 x2	0.5 x2		
FVA140AMVEB	x2 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		
FHA35AVEB98	x4 RZAG125N7V1B	28.5	—	32	—	23.8	0.234	1.2	0.090 x4	0.6 x4		
FHA50AVEB98	x3 RZAG125N7V1B	27.9	—	32	—	23.8	0.234	1.2	0.090 x3	0.6 x3		
FHA71AVEB98	x2 RZAG125N7V1B	27.7	—	32	—	23.8	0.234	1.2	0.110 x2	0.8 x2		
FHA140AVEB8	x2 RZAG125N7V1B	27.9	—	32	—	23.8	0.234	1.2	0.251	1.8		
FCAGH71HVEB	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
FCAGH140HVEB	x2 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	x2 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	x2 RZAG140N7V1B	30.1	—	32	—	23.6	0.234	1.4	0.187	3.9		
FUA71AVEB9	x2 RZAG140N7V1B	27.9	—	32	—	23.6	0.234	1.4	0.046 x2	0.9 x2		
FAA71BUV1B	x2 RZAG140N7V1B	27.0	—	32	—	23.6	0.234	1.4	0.048 x2	0.5 x2		
FVA140AMVEB	x2 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		
FHA35AVEB98	x4 RZAG140N7V1B	28.5	—	32	—	23.6	0.234	1.4	0.090 x4	0.6 x4		
FHA50AVEB98	x3 RZAG140N7V1B	27.9	—	32	—	23.6	0.234	1.4	0.090 x3	0.6 x3		
FHA71AVEB98	x2 RZAG140N7V1B	27.7	—	32	—	23.6	0.234	1.4	0.110 x2	0.8 x2		
FHA140AVEB8	x2 RZAG140N7V1B	27.9	—	32	—	23.6	0.234	1.4	0.251	1.8		

4 Options

4 - 1 Options

RZAG-NV1

RZAG-NY1

4

Available options for ·RZAG· models

Option			Option kit			
			RZAG71N7V1B	RZAG100N7V1B	RZAG125N7V1B	RZAG140N7V1B
			RZAG71N7Y1B	RZAG100N7Y1B	RZAG125N7Y1B	RZAG140N7Y1B
			RZAG71N2V1B	RZAG100N2V1B	RZAG125N2V1B	RZAG140N2V1B
			RZAG71N2Y1B	RZAG100N2Y1B	RZAG125N2Y1B	RZAG140N2Y1B
Bottom plate heater			EKBPH140N			
Refrigerant branch piping	Twin	(2)	KHRQ(M)58T			
	Triple	(2)	KHRQ(M)58H			
	Double twin	(2)	-		KHRQ(M)58T (3x)	
Demand adaptor kit		(1)	SB.KRP58M52 (KRP58M51 + EKMKA2)			
Sound reduction kit			EKLN140A1			

Notes

- (1) To mount ·KRP58M51·, an additional mounting kit (·EKMKA2·) needs to be used (obligatory). This will be offered as sales bom
SB·KRP58M52· = ·KRP58M51· + ·EKMKA2·
- (2) KHRQ* is branch piping for imperial pipe sizes, KHRQM* for metric pipe sizes.

3D120932D

5 Combination table

5 - 1 Combination Table

RZAG-NV1

RZAG-NY1

Possible combinations	
Pair	P
Twin	2
Triple	3
Double twin	4

OU_IO_ID	FAA71BUBV1B	FAA100BUBV1B	FBA100A2VEB	FBA125A2VEB	FBA140A2VEB	FBA35A2VEB9	FBA50A2VEB9	FBA60A2VEB9	FBA71A2VEB9	FCAG35BVEB	FCAG50BVEB	FCAG60BVEB	FCAG71BVEB	FCAG100BVEB	FCAG125BVEB	FCAG140BVEB	FCAHG71HVEB	FCAHG100HVEB	FCAHG125HVEB	FCAHG140HVEB	FDA125A5VEB	FDXM35F3V1B9	FDXM50F3V1B9	FDXM60F3V1B9	FFA35A2VEB9	FFA50A2VEB9	FFA60A2VEB9	FHA100AVEB8	FHA125AVEB8	FHA140AVEB8	FHA35AVEB98	FHA50AVEB98	FHA60AVEB98	FHA71AVEB98	FNA35A2VEB9	FNA50A2VEB9	FNA60A2VEB9	FUA71AVEB9	FUA100AVEB9	FUA125AVEB9	FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	
RZAG71N*V1B	P					2			P	2			P				P					2			2						2			P	2					P			P		
RZAG100N*V1B		P	P			3	2			3	2			P				P					3	2		3	2		P			3	2			3	2			P			P		
RZAG125N*V1B				P		4	3	2		4	3	2			P			P			P		4	3	2	4	3	2		P			4	3	2		4	3	2			P			P
RZAG140N*V1B	2				P	4	3		2	2	4	3		2			P	2			P	4	3		4	3				P		4	3		2	4	3		2			2			P
RZAG71N*Y1B	P					2			P	2			P				P					2			2							2			P	2			P			P			
RZAG100N*Y1B		P	P			3	2			3	2			P			P			P		3	2		3	2		P				3	2			3	2			P			P		
RZAG125N*Y1B				P		4	3	2		4	3	2			P			P		P		P	4	3	2	4	3	2		P			4	3	2		4	3	2			P			P
RZAG140N*Y1B	2				P	4	3		2	2	4	3		2			P	2			P	4	3		4	3				P		4	3		2	4	3		2			2			P

Notes

- When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.

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RZAG-NV1

RZAG-NY1

Possible combinations	
Pair	P
Twin	2
Triple	3
Double twin	4

OU_IO_ID	FAA71BUBV1B	FAA100BUBV1B	FBA100A2VEB	FBA140A2VEB	FBA35A2VEB9	FBA50A2VEB9	FBA71A2VEB9	FCAG35BVEB	FCAG50BVEB	FCAG71BVEB	FCAG100BVEB	FCAG140BVEB	FCAHG71HVEB	FCAHG100HVEB	FCAHG140HVEB	FDXM35F3V1B9	FDXM50F3V1B9	FFA35A2VEB9	FFA50A2VEB9	FHA100AVEB8	FHA140AVEB8	FHA35AVEB98	FHA50AVEB98	FHA71AVEB98	FUA71AVEB9	FUA100AVEB9	FVA100AMVEB	FVA140AMVEB
RZAG71N*V1B		P	P		3	2		3	2		P			P		3	2	3	2	P		3	2			P	P	
RZAG100N*V1B	2			P	4	3	2	4	3	2		P	2		P	4	3	4	3		P	4	3	2	2			P
RZAG125N*V1B	2			P	4	3	2	4	3	2		P	2		P	4	3	4	3		P	4	3	2	2			P
RZAG140N*V1B	2			P	4	3	2	4	3	2		P	2		P	4	3	4	3		P	4	3	2	2			P
RZAG71N*Y1B		P	P		3	2		3	2		P			P		3	2	3	2	P		3	2			P	P	
RZAG100N*Y1B	2			P	4	3	2	4	3	2		P	2		P	4	3	4	3		P	4	3	2	2			P
RZAG125N*Y1B	2			P	4	3	2	4	3	2		P	2		P	4	3	4	3		P	4	3	2	2			P
RZAG140N*Y1B	2			P	4	3	2	4	3	2		P	2		P	4	3	4	3		P	4	3	2	2			P

Notes

- When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.

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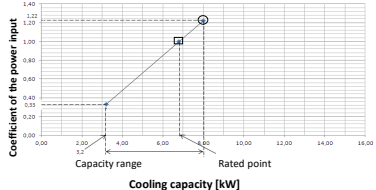
Capacity tables

6 - 1 Cooling/Heating Capacity Tables

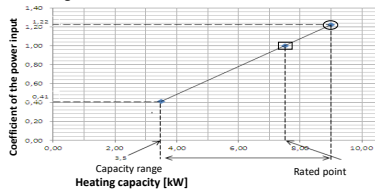
RZAG71NV1

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

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
[°C WB]	[°C DB]	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
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

Notes

- The ratings shown are net capacities which include a correction for indoor fan motor heat.
- = Maximum at standard conditions
□ = Rated capacity and rated coefficient of the power input
The maximum capacity is not guaranteed except at standard conditions.
- 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)
- 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
- CPI- is a percentage value compared to the rated value which is -1.00-.
- The error rate for this value is less than -5- % and depends on the indoor unit type.
- The heating performance takes into account the drop that occurs during defrost operation.
- The air flow rate and bypass factor are mentioned in the table.
- The rated power input for each model is mentioned in the table below.

Heating

Indoor		Outdoor temperature [°C WB]											
		-15			-10			-5			0		
[°C DB]	[°C WB]	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16	6.44	0.93	7.09	0.99	7.55	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	7.53	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	

Pair	FAHG71H	FCAG71B	FAA71B	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

Pair	FAHG71H	FCAG71B	FAA71B	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)

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RZAG71NV1

RZAG71NY1

Performance characteristics for -EDP- room

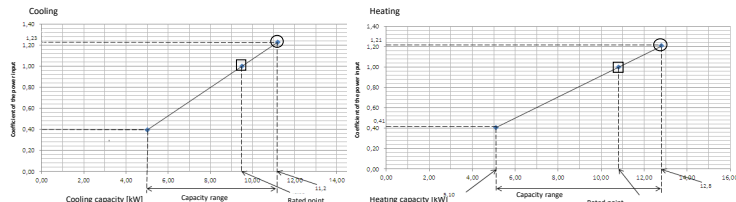
Indoor		Outdoor temperature [°C DB]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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		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

6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG100NV1 RZAG100NY1

6



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)		Rated point		Rated point							
Indoor		Outdoor temperature (°C DB)											
		25		30		35		40					
TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI		
[°C WB]	[°C DB]	kW	kW	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	7.24	1.23	10.91	7.04	1.34
22.0	30	12.80	7.50	1.02	12.37	7.36	1.13	11.80	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	6.93	1.36

Heating		Rated point													
TC [°C DB]	SHC	Outdoor temperature [°C WB]													
		-15				-5				0					
		TC	CPI	TC	10	CPI	TC	10	CPI	TC	CPI	TC	10	CPI	
16	8.58	0.92	9.45	0.88	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	1.1	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
- The ratings shown are net capacities which include a correction for indoor fan motor heat.
 - = Maximum at standard conditions
□ = Rated capacity and rated coefficient of the power input
The maximum capacity is not guaranteed except at standard conditions.
 - 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 × AFR (m³/min) × (1-BF) × (DB* - EDB)
 - 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
 - CPI is a percentage value compared to the rated value which is 1.00.
 - The error rate for this value is less than 5% and depends on the indoor unit type.
 - 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.

Pair	FCAGS100H	FCAGS100B	FAA100B	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	FCAGS08 X 2	FHA50A X 2	FFA50A X 2	FDXMS0F 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	FCAGS08 X 3	FHA35A X 3	FFA35A X 3	FDXMS0F 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)

9. The rated power input for each model is mentioned in the table below.

Pair	FCAGS100H	FCAGS100B	FAA100B	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	2.25	2.65	2.93	2.66	2.31	2.66	2.58
Heating	2.16	3.01	3.41	2.73	2.72	2.68	2.79

Twin	FCAGS08 X 2	FHA50A X 2	FFA50A X 2	FDXMS0F 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	FCAGS08 X 3	FHA35A X 3	FFA35A X 3	FDXMS0F 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

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RZAG100NV1 RZAG100NY1

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						
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	-						
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	0.39	6.00	6.00	0.41	6.00	6.00	0.43	6.00	6.00	0.45	6.00	6.00	0.47						
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	0.46	7.48	6.37	0.48	7.48	6.37	0.50	7.48	6.37	0.52	7.48	6.37	0.54	7.48	6.37	0.56	7.48	6.37	0.58	7.48	6.37	0.60						
31.4	11		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	0.39	6.00	6.00	0.41	6.00	6.00	0.43	6.00	6.00	0.45	6.00	6.00	0.47						
44.9	13	20	7.48	7.25	0.42	7.48	7.25	0.42	7.48	7.25	0.44	7.48	7.25	0.46	7.48	7.25	0.48	7.48	7.25	0.50	7.48	7.25	0.52	7.48	7.25	0.54	7.48	7.25	0.56	7.48	7.25	0.58	7.48	7.25	0.60						
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	0.50	8.22	7.18	0.51	8.22	7.18	0.52	8.22	7.18	0.53	8.22	7.18	0.54	8.22	7.18	0.55	8.22	7.18	0.56						
22.9	11		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	0.39	6.00	6.00	0.41	6.00	6.00	0.43	6.00	6.00	0.45	6.00	6.00	0.47						
34.8	13	22	7.48	7.48	0.42	7.48	7.48	0.42	7.48	7.48	0.44	7.48	7.48	0.46	7.48	7.48	0.48	7.48	7.48	0.50	7.48	7.48	0.52	7.48	7.48	0.54	7.48	7.48	0.56	7.48	7.48	0.58	7.48	7.48	0.60						
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	0.56	8.96	7.82	0.57	8.96	7.82	0.58	8.96	7.82	0.59	8.96	7.82	0.60	8.96	7.82	0.61						
54.3	16		9.70	7.54	0.56	9.70	7.54	0.56	9.70	7.54	0.57	9.70	7.54	0.58	9.70	7.54	0.59	9.70	7.54	0.60	9.70	7.54	0.61	9.70	7.54	0.62	9.70	7.54	0.63	9.70	7.54	0.64	9.70	7.54	0.65	9.70	7.54	0.66			
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	0.43	6.74	6.74	0.44	6.74	6.74	0.45	6.74	6.74	0.46	6.74	6.74	0.47						
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	0.50	8.22	8.22	0.51	8.22	8.22	0.52	8.22	8.22	0.53	8.22	8.22	0.54	8.22	8.22	0.55	8.22	8.22	0.56						
43.8	16		9.70	8.68	0.56	9.70	8.68	0.56	9.70	8.68	0.57	9.70	8.68	0.58	9.70	8.68	0.59	9.70	8.68	0.60	9.70	8.68	0.61	9.70	8.68	0.62	9.70	8.68	0.63	9.70	8.68	0.64	9.70	8.68	0.65	9.70	8.68	0.66			
50.0	17	27	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	0.62	9.98	7.86	0.63	9.98	7.86	0.64	9.98	7.86	0.65	9.98	7.86	0.66	9.98	7.86	0.67	9.98	7.86	0.68			
21.5	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	0.50	8.22	8.22	0.51	8.22	8.22	0.52	8.22	8.22	0.53	8.22	8.22	0.54	8.22	8.22	0.55	8.22	8.22	0.56	8.22	8.22	0.57			
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	0.56	8.96	8.96	0.57	8.96	8.96	0.58	8.96	8.96	0.59	8.96	8.96	0.60	8.96	8.96	0.61	8.96	8.96	0.62			
31.3	16		9.70	9.70	0.56	9.70	9.70	0.56	9.70	9.70	0.57	9.70	9.70	0.58	9.70	9.70	0.59	9.70	9.70	0.60	9.70	9.70	0.61	9.70	9.70	0.62	9.70	9.70	0.63	9.70	9.70	0.64	9.70	9.70	0.65	9.70	9.70	0.66			
38.3	17		10.94	9.52	0.67	10.94	9.52	0.68	10.94	9.52	0.69	10.94	9.52	0.70	10.94	9.52	0.71	10.94	9.52	0.72	10.94	9.52	0.73	10.94	9.52	0.74	10.94	9.52	0.75	10.94	9.52	0.76	10.94	9.52	0.77	10.94	9.52	0.78			

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
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - The capacities are based on the following conditions:
Outdoor air: 85% RH
Corresponding refrigerant piping length: 5.0 m
Level difference: 0 m
 - For EDP applications, it is recommended to use outdoor unit setting: 2-57-2.
 - CPI is a percentage value compared to the rated value which is 1.00.
 - 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	FCAGS140H	FCAGS140B	FVA140A	FHA140A	FBA140A
Cooling	2.35	2.28	2.39	2.32	2.25

Twin	FCAGS71B x 2	FCAGS71B x 2	FHA71A x 2	FUA71A x 2	FBA71A x 2	FNA71A x 2
Cooling	2.02	2.15	2.10	2.11	2.19	2.06

Triple	FCAGS08 x 3	FHA50A x 3	FFA50A x 3	FDXMS0F x 3	FBA50A x 3
Cooling	2.03	2.18	2.25	1.88	2.18

Double twin	FCAGS08 x 4	FHA35A x 4	FFA35A x 4	FDXMS0F x 4	FBA35A x 4
Cooling	2.00	2.01	2.12	2.00	2.18

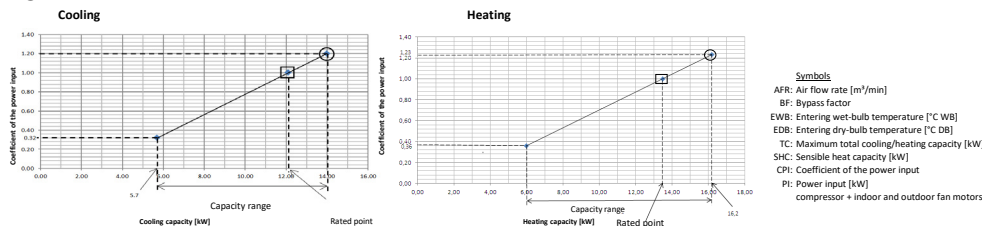
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Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG125NV1

RZAG125NY1



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]													
Relative humidity													
Relative humidity													
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Notes

- The ratings shown are net capacities which include a correction for indoor fan motor heat.
- = Maximum at standard conditions
 □ = Rated capacity and rated coefficient of the power input
 The maximum capacity is not guaranteed except at standard conditions.
- 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)
- 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
 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 below.

Pair	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1
AFR	38.5	38.0	38.5	38.0	38.5	38.0	38.5
BF	(0.18)	(0.18)	(0.18)	(0.18)	(0.18)	(0.18)	(0.18)

Pair	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1
AFR	33.0 x 2	33.0 x 2	33.0 x 2	33.0 x 2	33.0 x 2	33.0 x 2
BF	(0.20 x 2)	(0.20 x 2)	(0.20 x 2)	(0.20 x 2)	(0.20 x 2)	(0.20 x 2)

Pair	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1
AFR	12.0 x 3	12.0 x 3	12.0 x 3	12.0 x 3	12.0 x 3	12.0 x 3
BF	(0.22 x 3)	(0.22 x 3)	(0.22 x 3)	(0.22 x 3)	(0.22 x 3)	(0.22 x 3)

Pair	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1
AFR	12.5 x 4	12.5 x 4	12.5 x 4	12.5 x 4	12.5 x 4	12.5 x 4
BF	(0.22 x 4)	(0.22 x 4)	(0.22 x 4)	(0.22 x 4)	(0.22 x 4)	(0.22 x 4)

Indoor		Outdoor temperature [°C WB]									
		-15.0		-10.0		-5.0		0.0		10.0	
		TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CWB		°CWB									
°CDB		°CDB									
16	11.0	0.94	1.21	1.00	1.29	1.03	1.32	1.06	1.32	1.13	1.20
18	11.0	0.98	1.21	1.03	1.29	1.06	1.32	1.11	1.32	1.18	1.26
20	11.0	1.02	1.20	1.06	1.29	1.13	1.32	1.15	1.32	1.23	1.30
22	11.0	1.04	1.20	1.10	1.28	1.14	1.32	1.17	1.32	1.26	1.32
24	11.0	1.06	1.20	1.12	1.28	1.16	1.32	1.20	1.32	1.28	1.34

9. The rated power input for each model is mentioned in the table below.

Pair	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1
Cooling	3.15	3.05	3.23	3.23	3.58	3.70
Heating	3.08	3.21	3.26	3.34	3.38	3.40

Pair	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1
Cooling	3.48	3.22	3.48	3.58	3.61	3.58
Heating	3.49	3.27	3.58	3.60	3.61	3.64

Pair	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1
Cooling	3.15	3.16	3.88	3.14	3.15	3.14
Heating	2.85	2.73	3.29	2.46	2.65	2.51

Pair	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1	FWAG125V1
Cooling	2.64	3.05	3.36	3.38	3.10	3.38

3D125182B

RZAG125NV1

RZAG125NY1

Performance characteristics for ·EDP· room

Indoor		Outdoor temperature [°C DB]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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41.8	11	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	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	7.49</

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

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- 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	FWAG140H	FWAG140B	FWAG140A	FWAG140A	FWAG140A
Cooling	3.09	3.07	3.17	3.05	2.99

Pair	FWAG71Hx2	FWAG71Bx2	FWAG71Ax2	FWAG71Ax2	FWAG71Bx2	FWAG71Ax2
Cooling	2.57	2.79	2.68	2.69	2.88	2.64

Pair	FWAG50Bx3	FWAG50Ax3	FWAG50Ax3	FWAG50F3x3	FWAG50Ax3
Cooling	2.57	2.79	2.97	2.36	2.74

Pair	FWAG35Bx4	FWAG35Ax4	FWAG35Ax4	FWAG35F4x4	FWAG35Ax4
Cooling	2.51	2.45	2.71	2.55	2.96

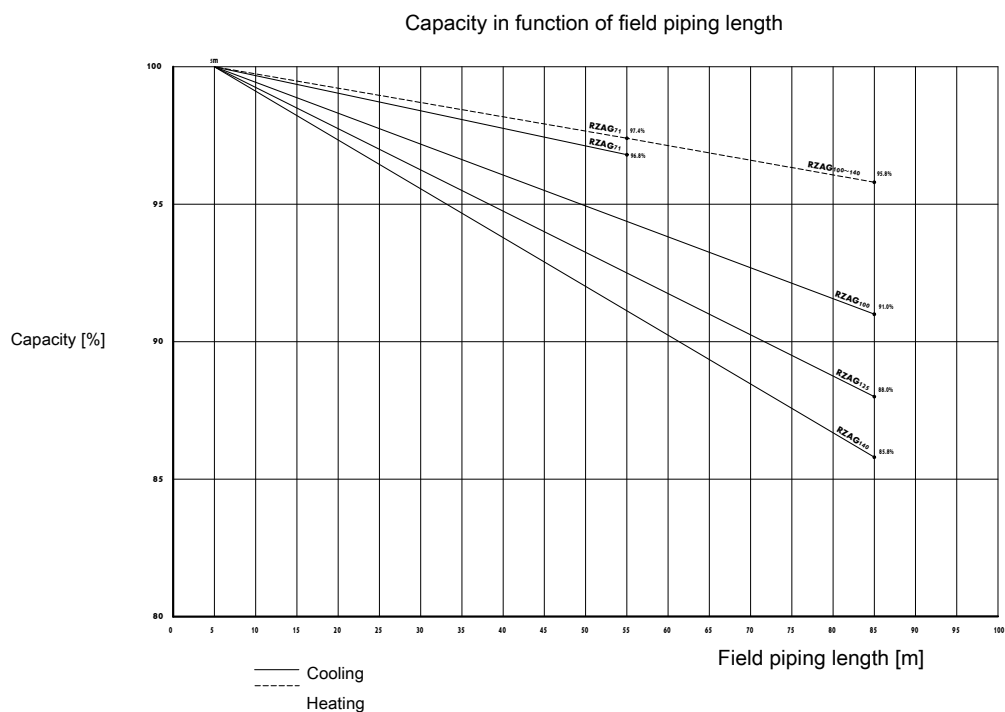
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6 Capacity tables

6 - 2 Capacity Correction Factor

RZAG-NV1
RZAG-NY1

6



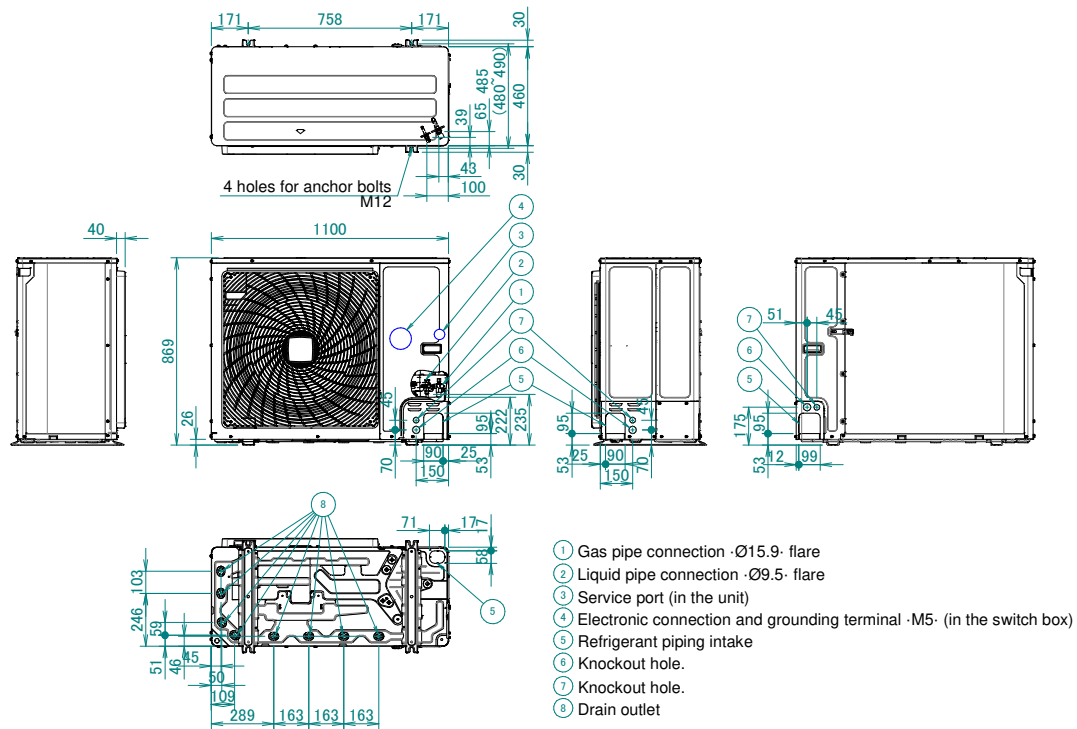
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7 Dimensional drawings

7 - 1 Dimensional Drawings

RZAG-NV1

RZAG-NY1



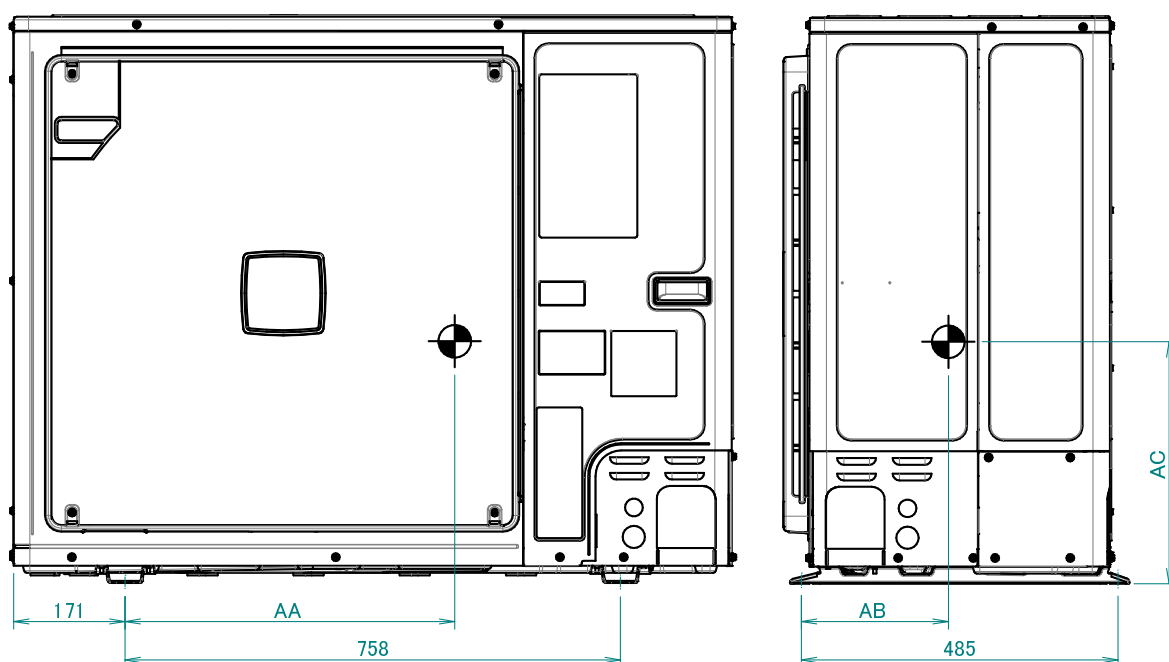
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8 Centre of gravity

8 - 1 Centre of Gravity

RZAG-NV1

RZAG-NY1



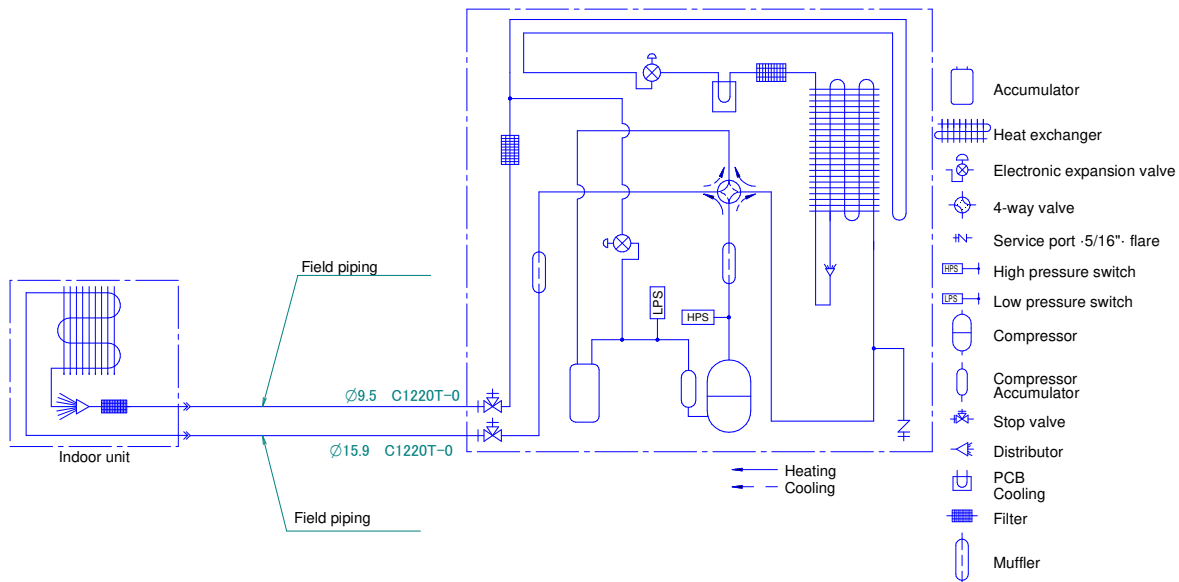
Model	AA	AB	AC
RZAG71N2/7V1B	520.3	238.7	357.8
RZAG71N2/7Y1B	525.9	224.7	359.8
RZAG100N2/7V1B	499.7	239.3	367.6
RZAG100N2/7Y1B	511.2	223.5	362.5
RZAG125/140N2/7V1B	486.3	229.2	371.8
RZAG125/140N2/7Y1B	493.4	215.8	372.2
RXYSA4/5/6A7V1B	530.4	249.9	389.0
RXYSA4/5/6A7Y1B			

4D120933C

9 Piping diagrams

9 - 1 Piping Diagrams

RZAG-NV1
RZAG-NY1



Notes

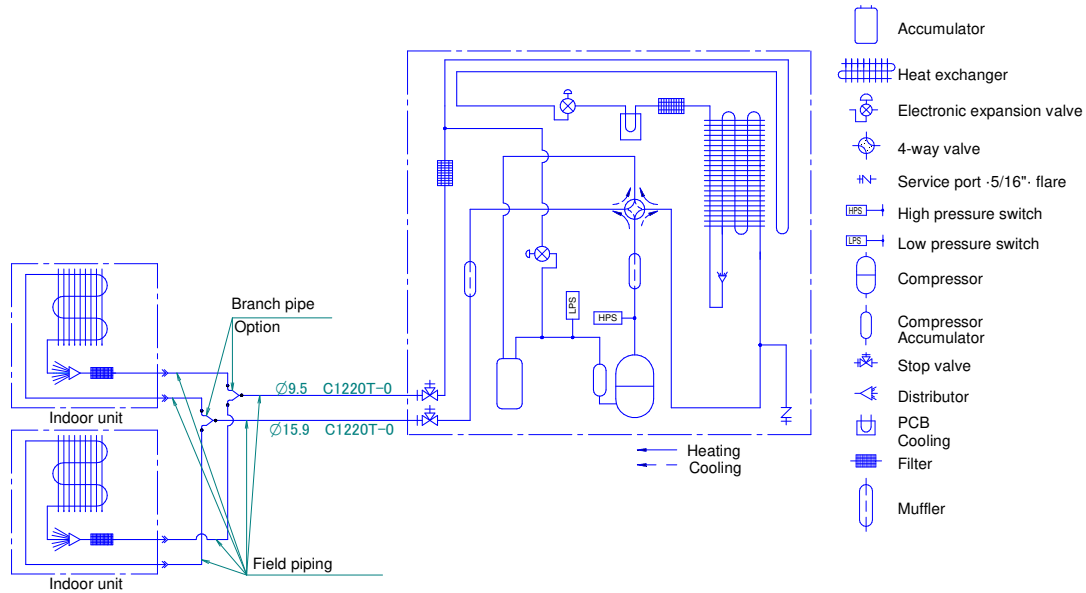
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D120907

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

RZAG-NV1
RZAG-NY1



Notes

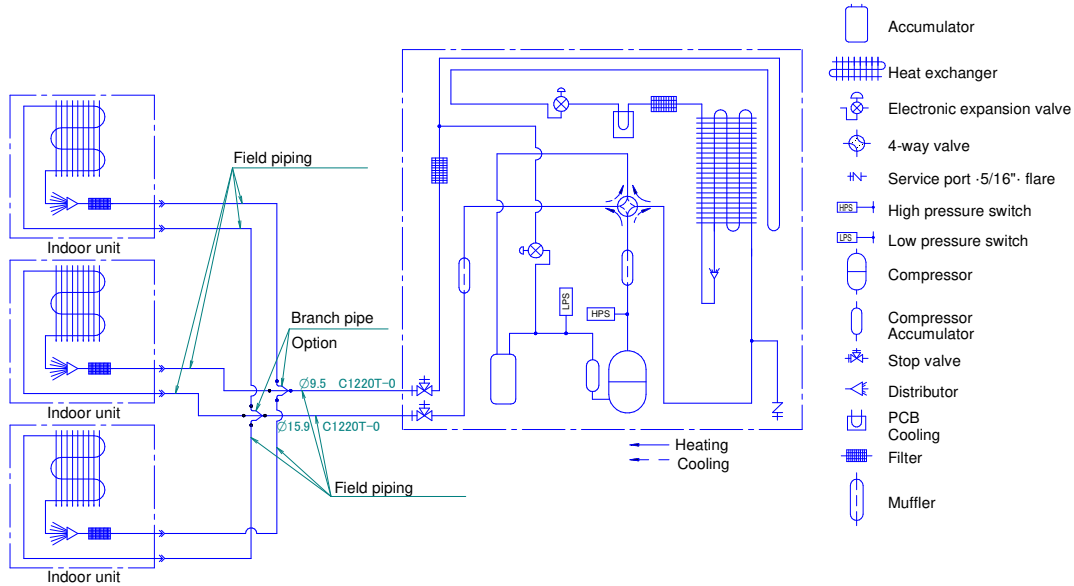
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D120913

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZAG100-140NV1
RZAG100-140NY1



Notes

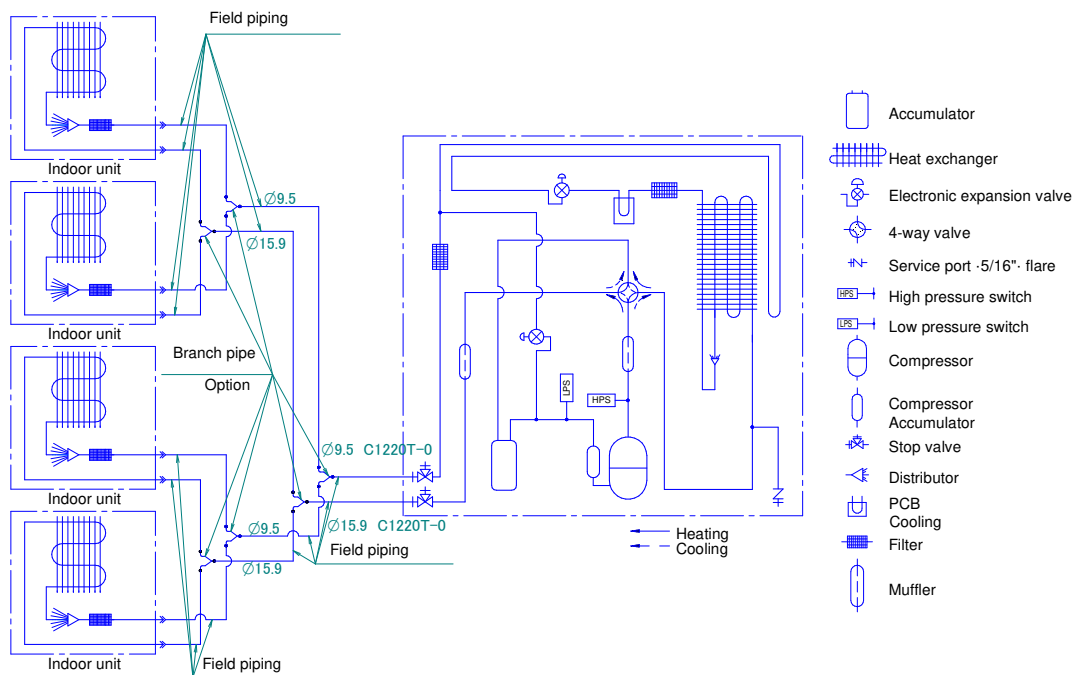
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D120914

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZAG125-140NV1
RZAG125-140NY1



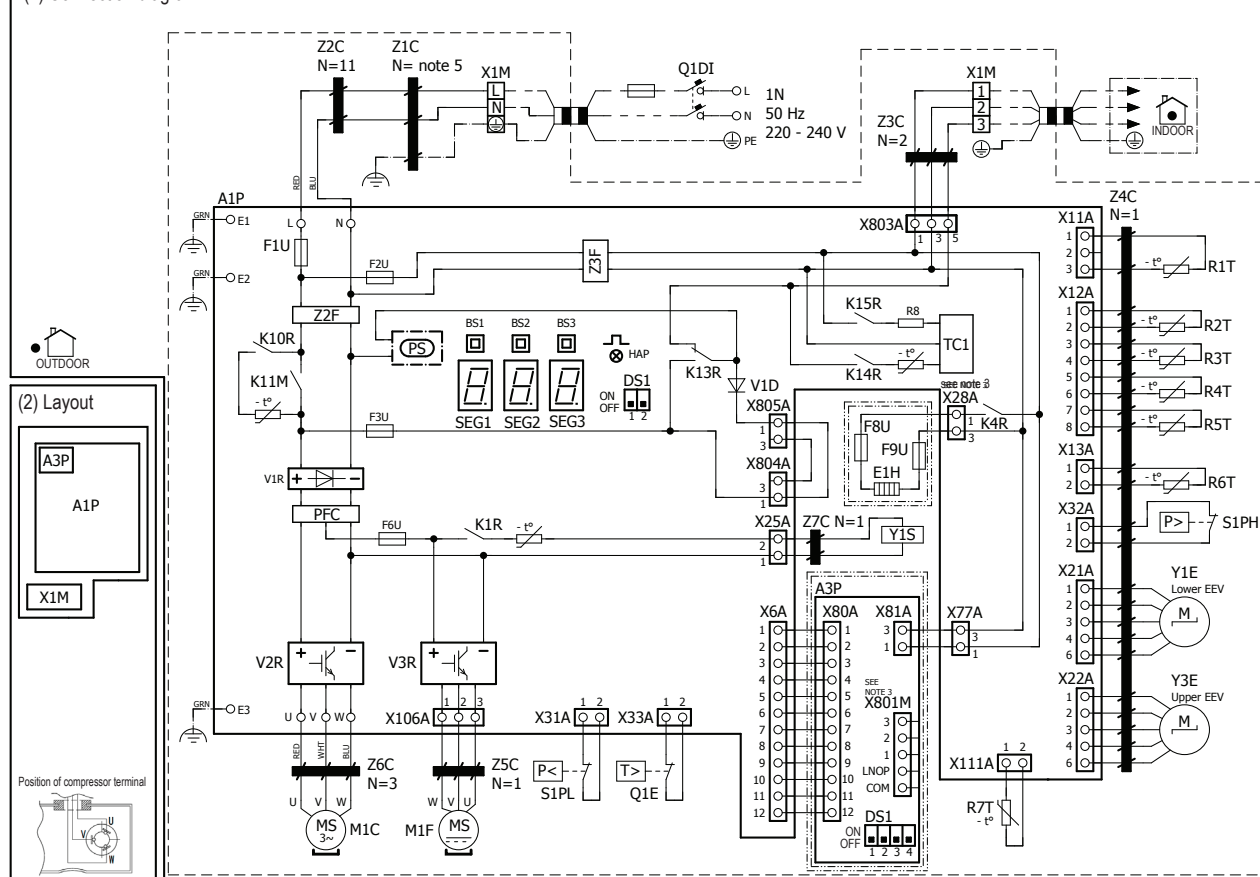
Notes

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

3D120915

10 - 1 Wiring Diagrams - Single Phase

(1) Connection diagram



(3) NOTES

-  : Connection
 X1M : Main terminal
 _____ : Earth wiring
 - - - - - : Field supply
 [_____] : Option
-  : switch box
 : PCB
 : Wiring depending on model
 : Protective earth
 : 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

Part n°	Description
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

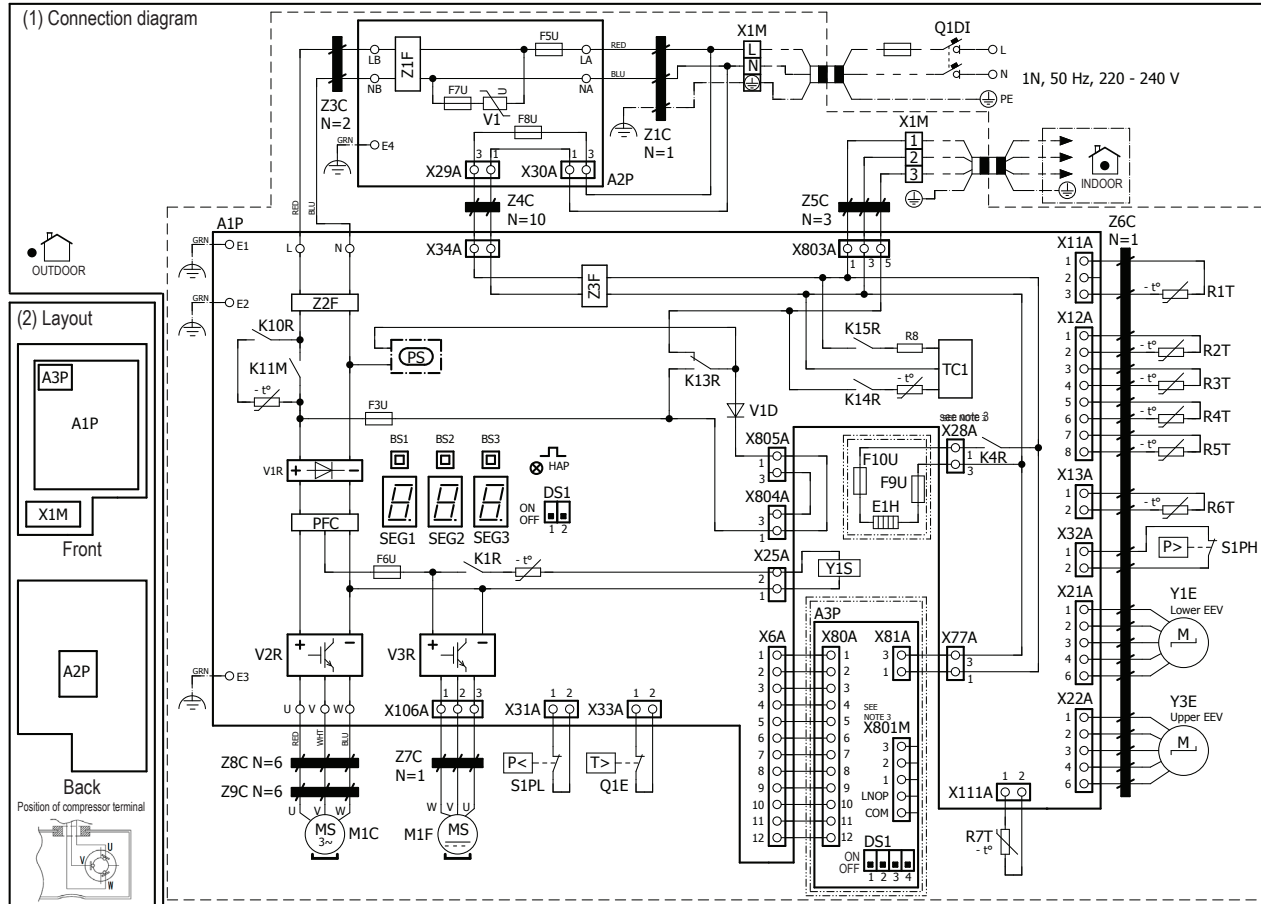
4D120909

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

RZAG125-140NV1



(3) NOTES

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

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

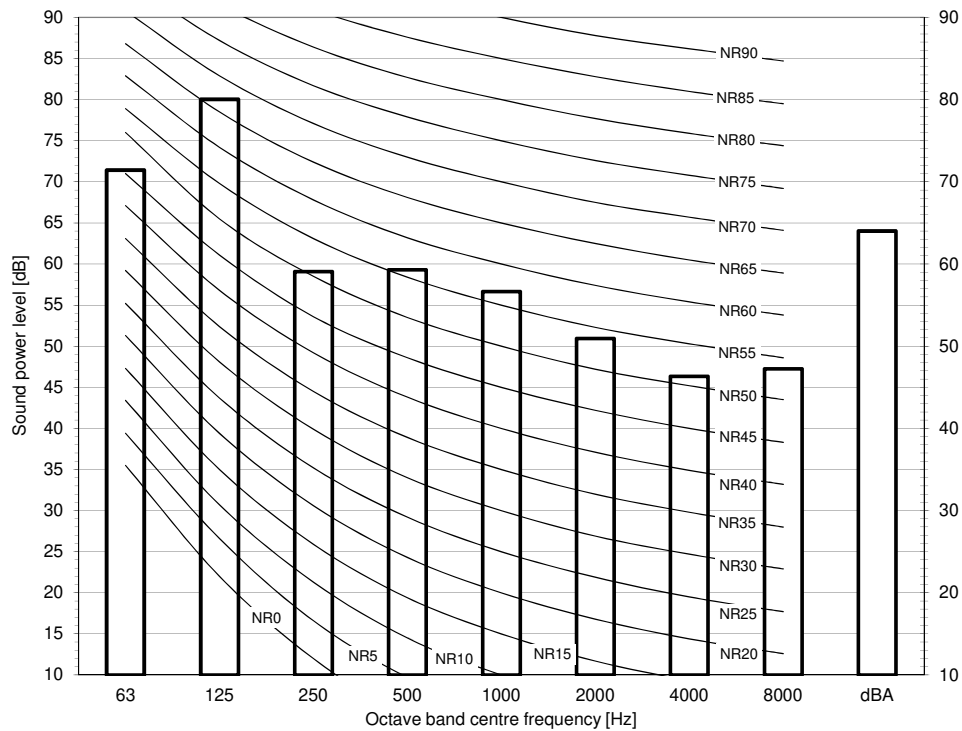
4D120910

11 Sound data

11 - 1 Sound Power Spectrum

RZAG71NV1

RZAG71NY1



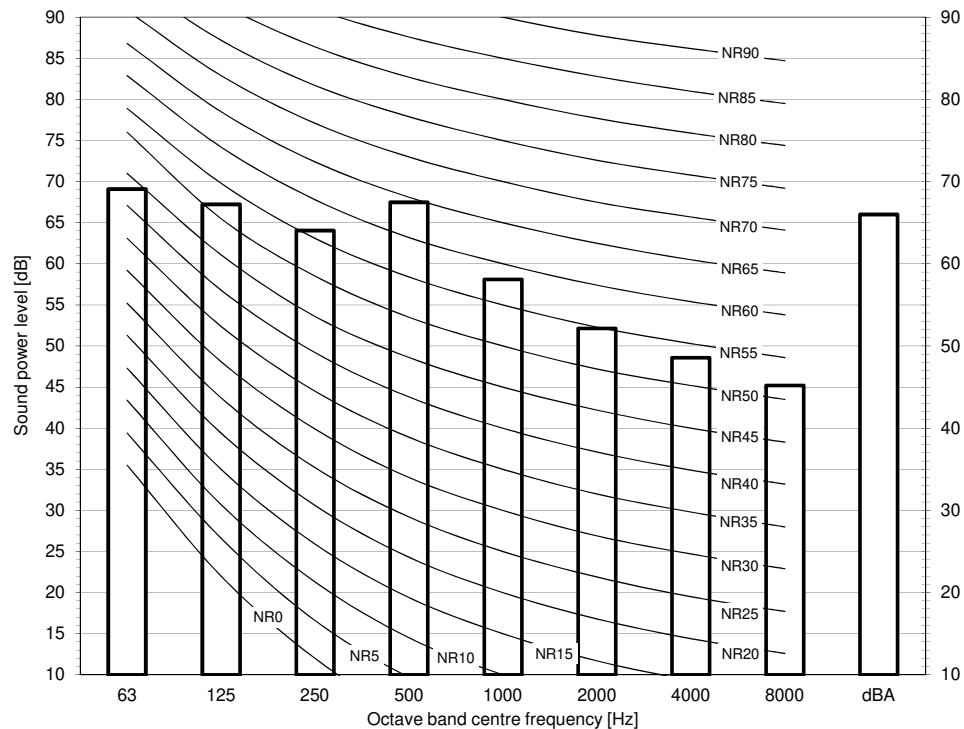
Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{dB} = 10^{-6}\text{W/m}^2$.
- Measured according to ISO 3744

3D125149

RZAG100NV1

RZAG100NY1



Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{dB} = 10^{-6}\text{W/m}^2$.
- Measured according to ISO 3744

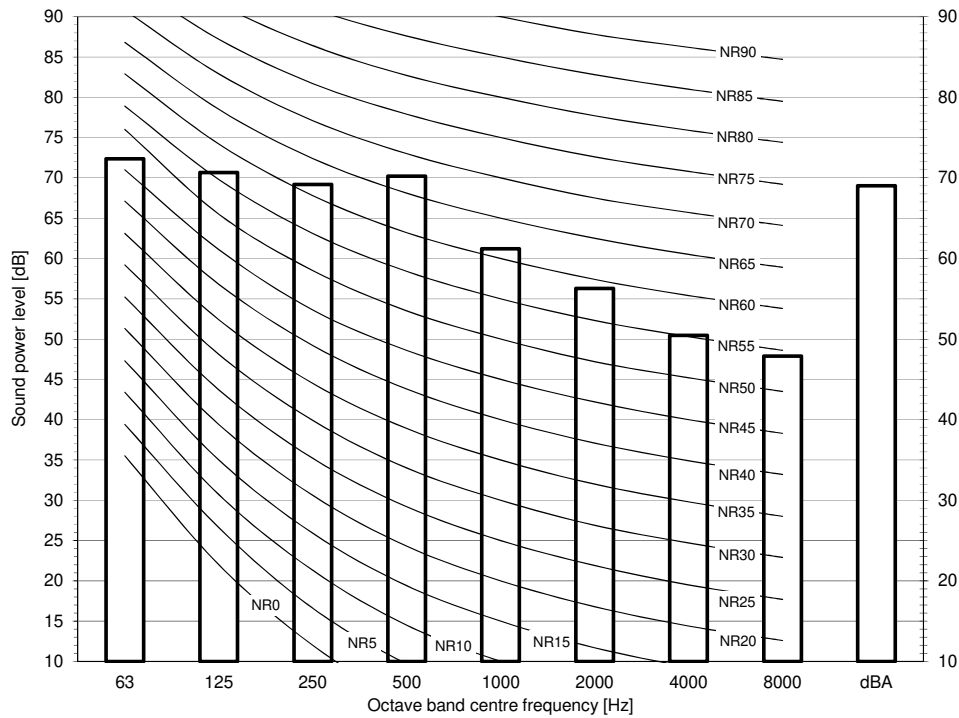
3D125155

11 Sound data

11 - 1 Sound Power Spectrum

RZAG125NV1

RZAG125NY1



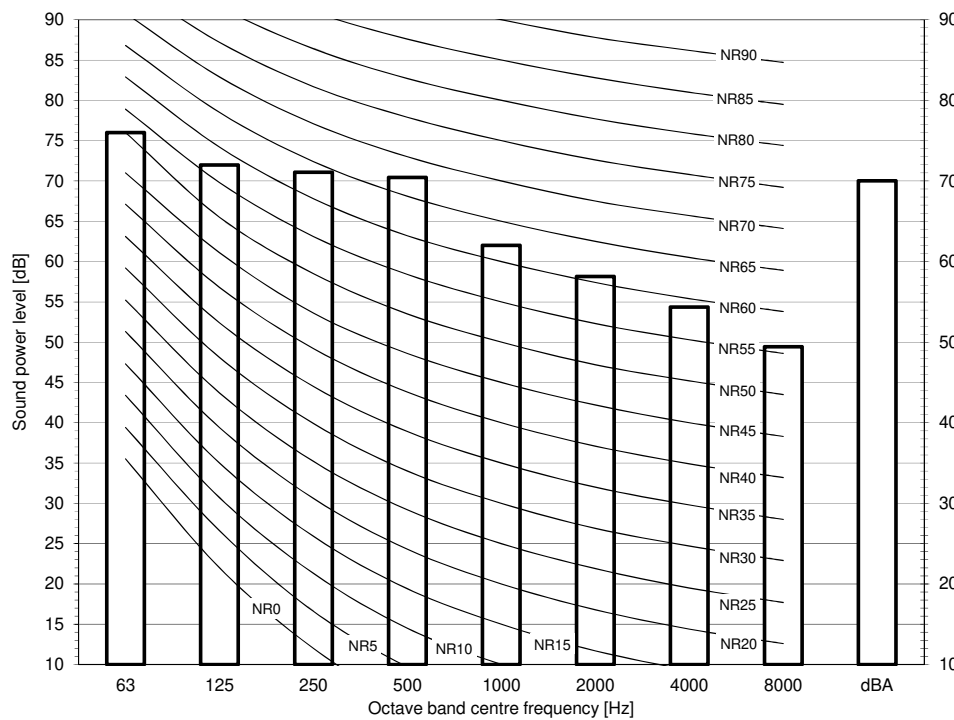
Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{dB} = 10^{-6}\text{W/m}^2$.
- Measured according to ISO 3744

3D125161

RZAG140NV1

RZAG140NY1



Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{dB} = 10^{-6}\text{W/m}^2$.
- Measured according to ISO 3744

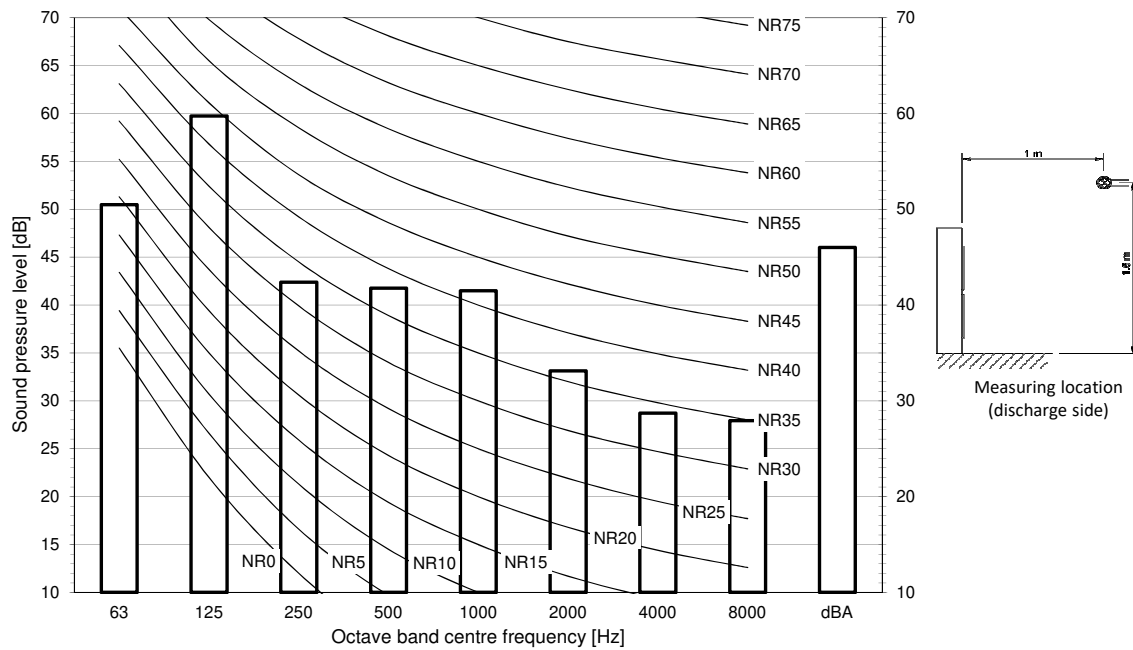
3D125167

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZAG71NV1

RZAG71NY1



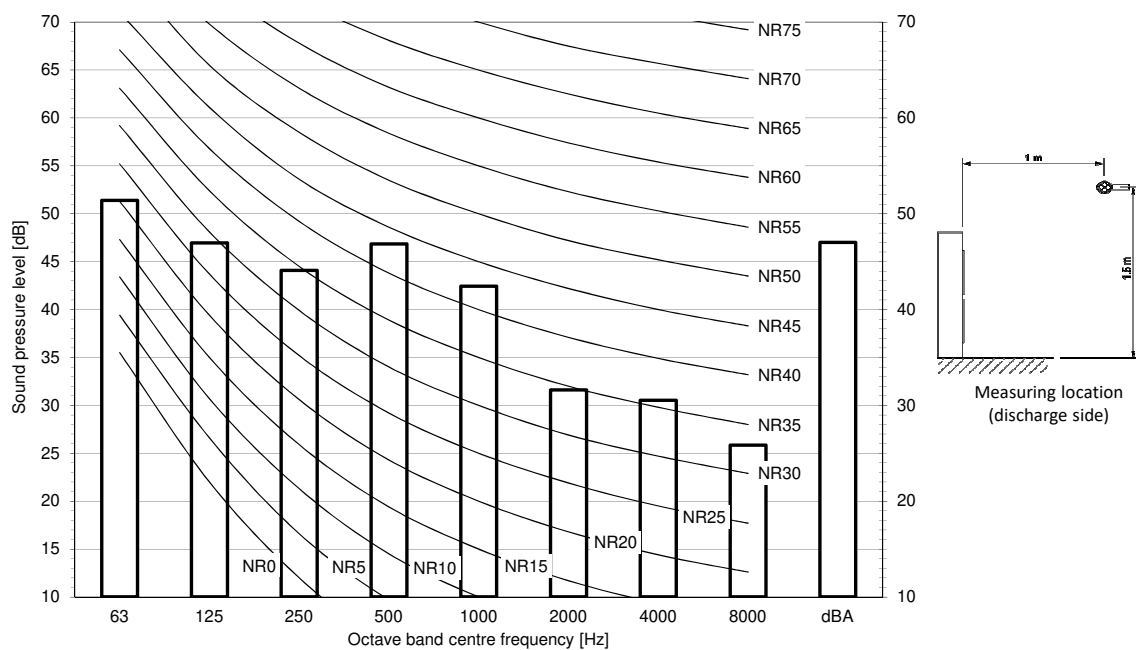
Notes

- 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 μ Pa

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 μ Pa

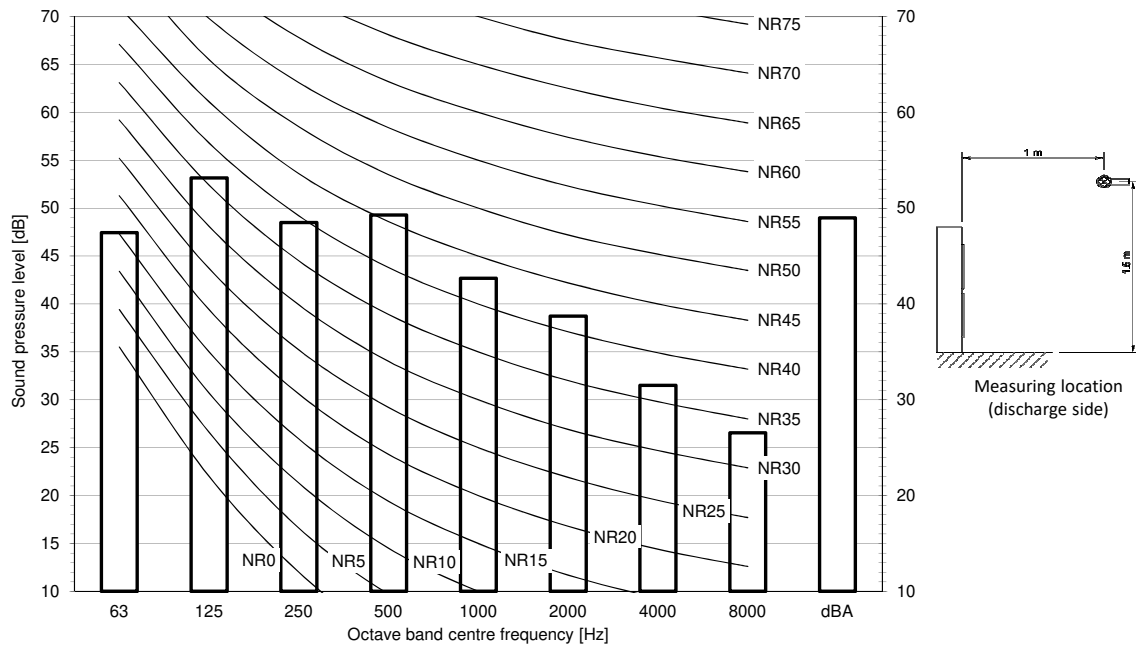
3D125153

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZAG125NV1

RZAG125NY1



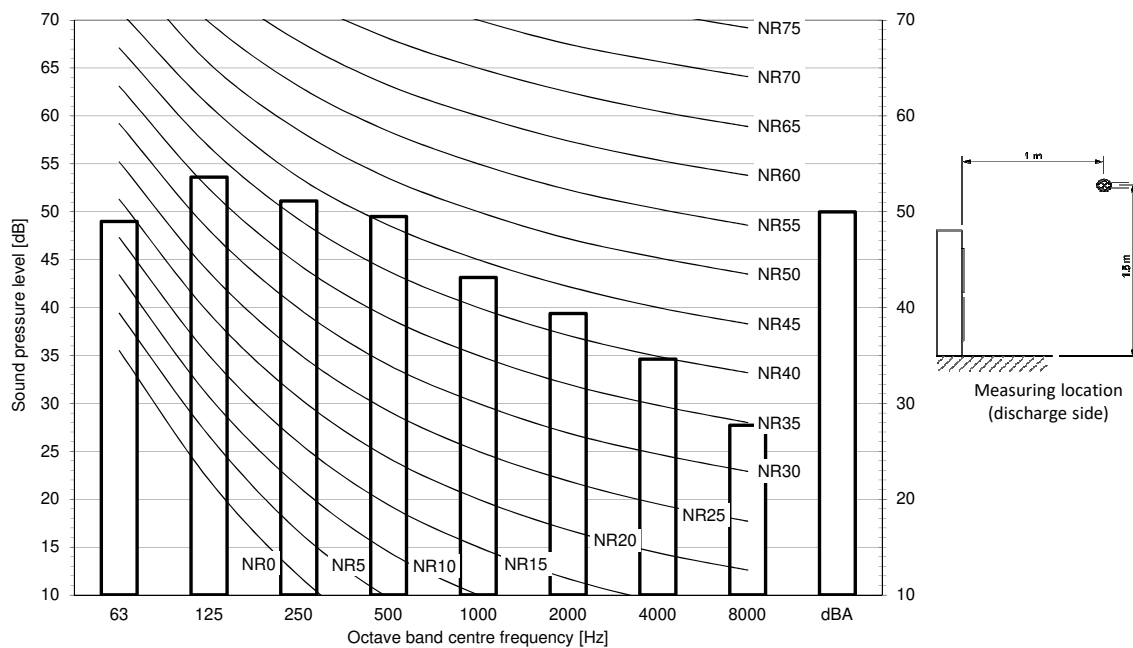
Notes

- 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 μ Pa

3D125159

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 μ Pa

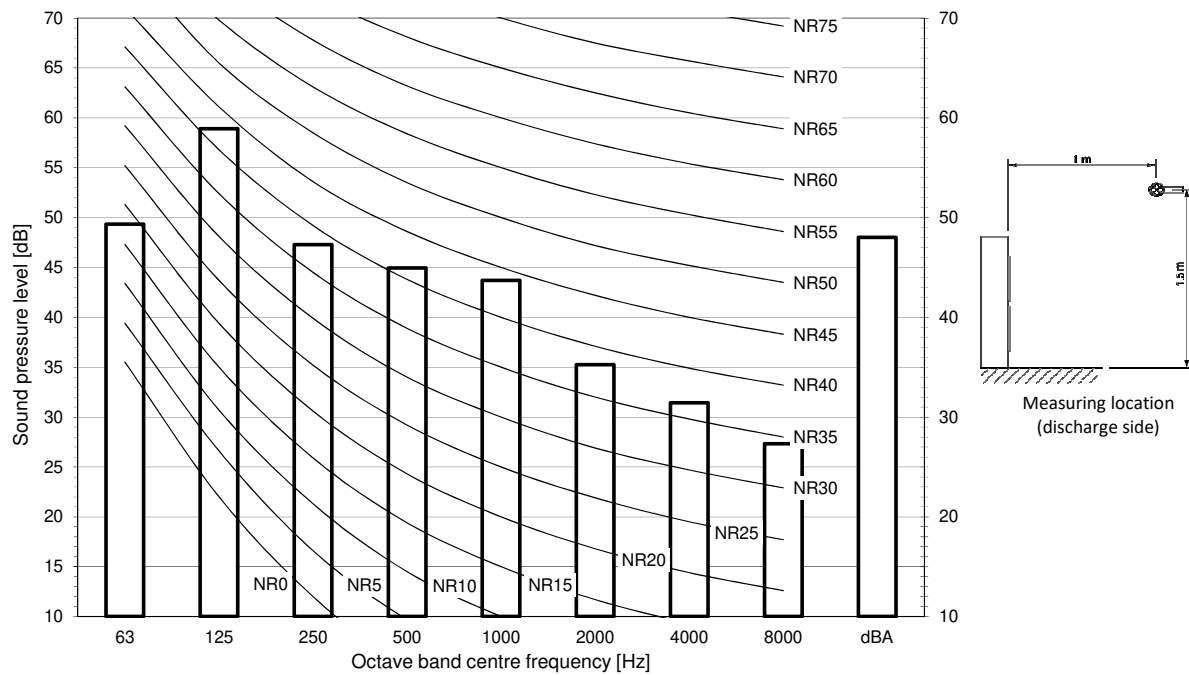
3D125165

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZAG71NV1

RZAG71NY1



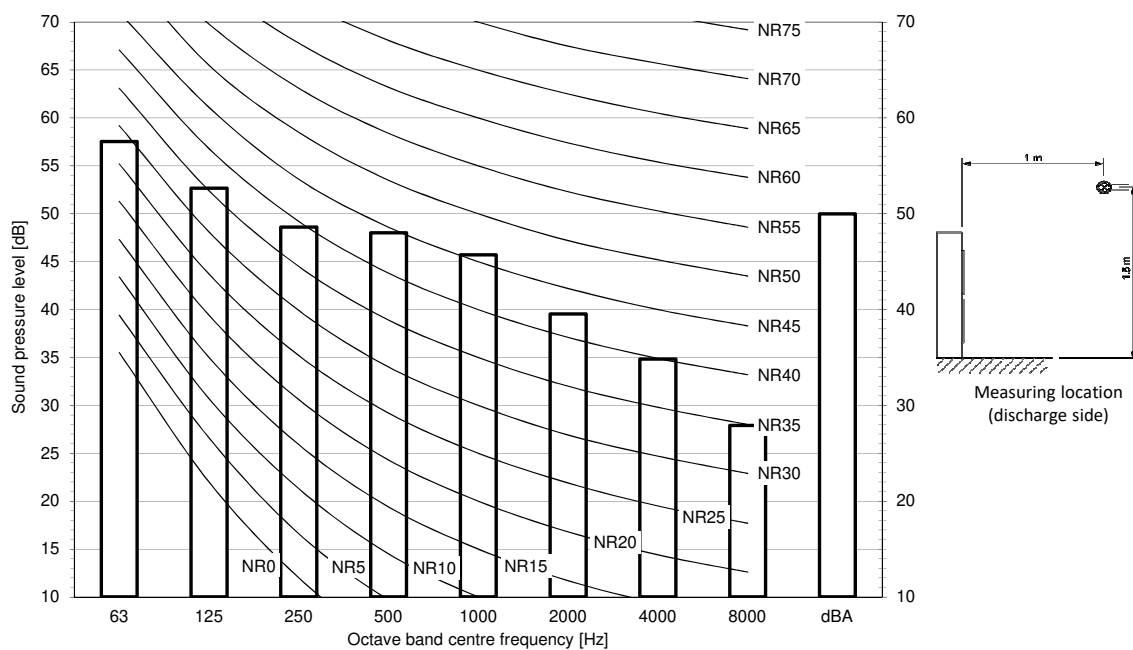
Notes

- 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 μ Pa

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 μ Pa

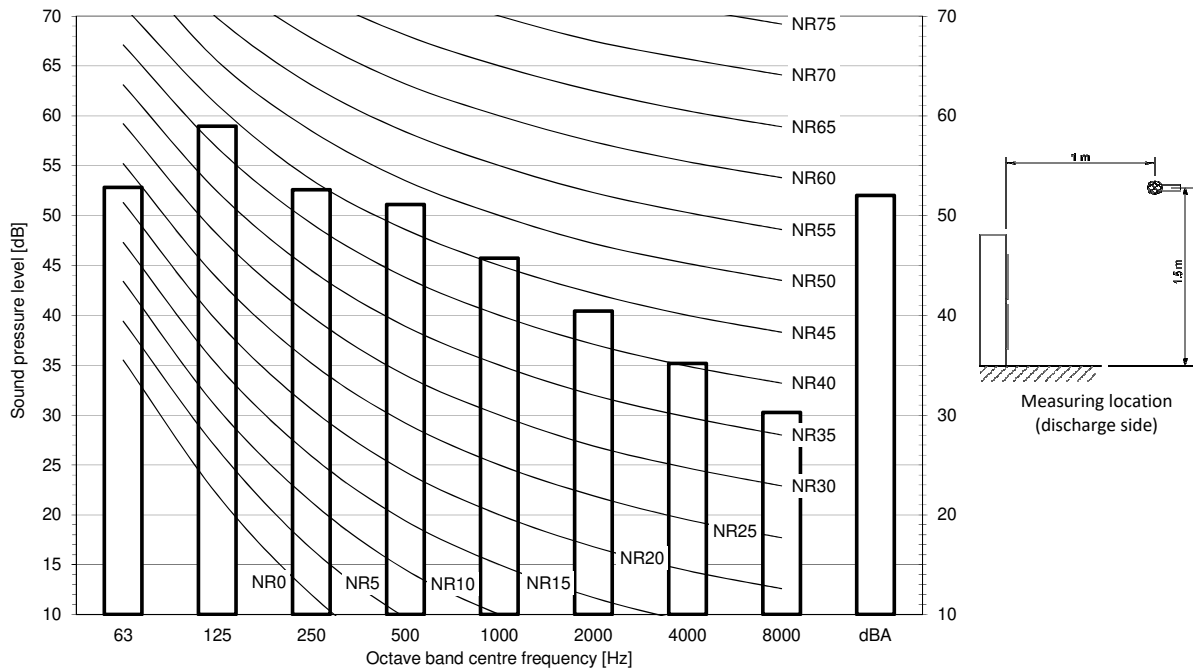
3D125154

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZAG125NV1

RZAG125NY1



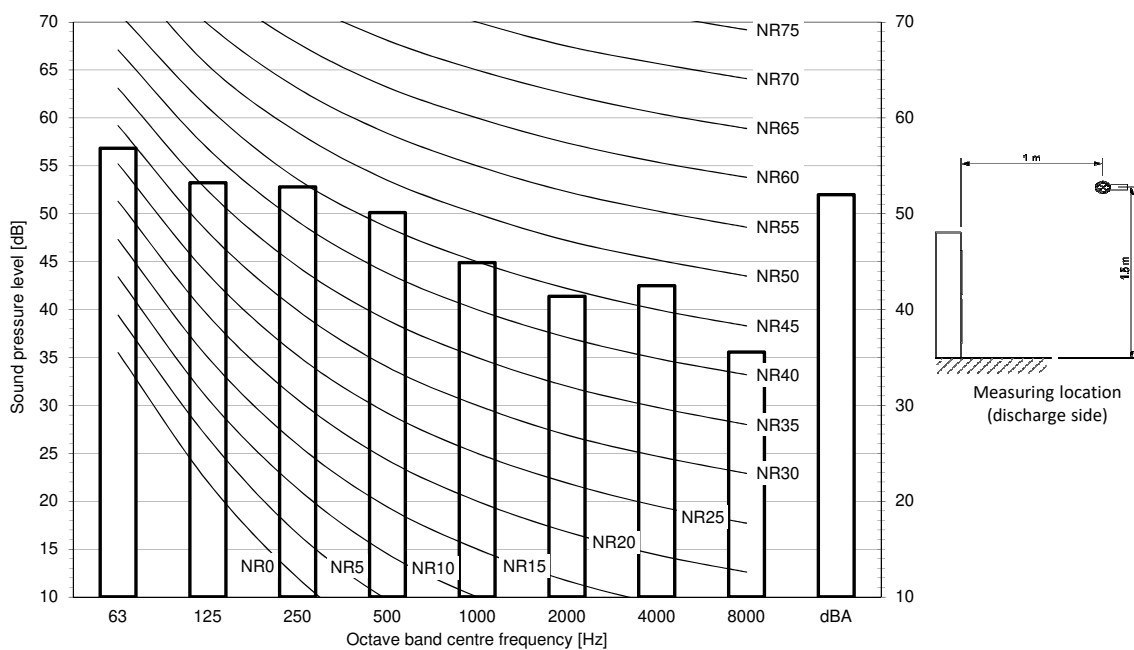
Notes

- 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 μ Pa

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 μ Pa

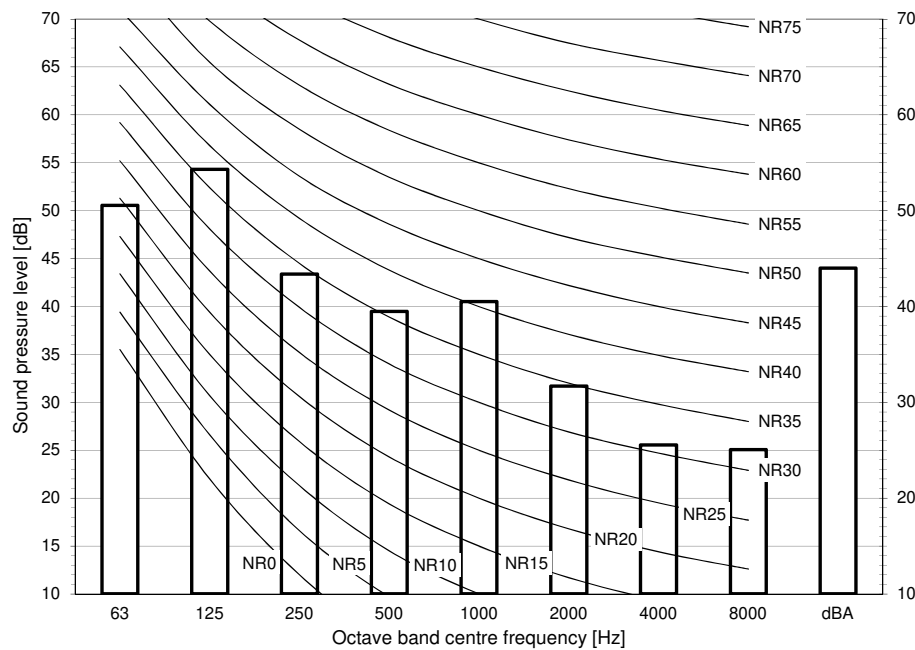
3D125166

11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 1

RZAG71NV1
RZAG71NY1

LEVEL 1



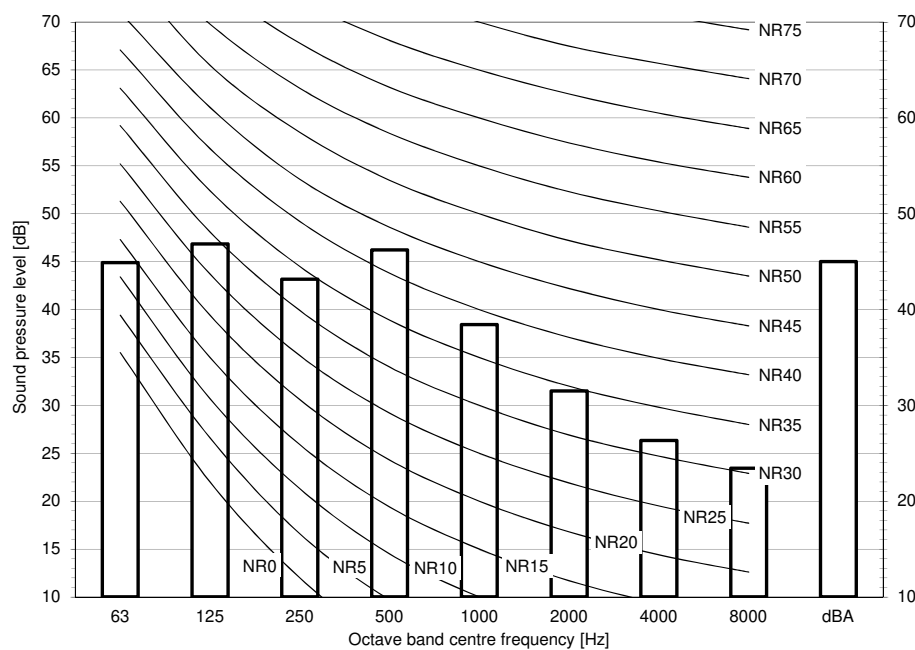
Notes

- 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 μ Pa

3D125144

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 μ Pa

3D125150

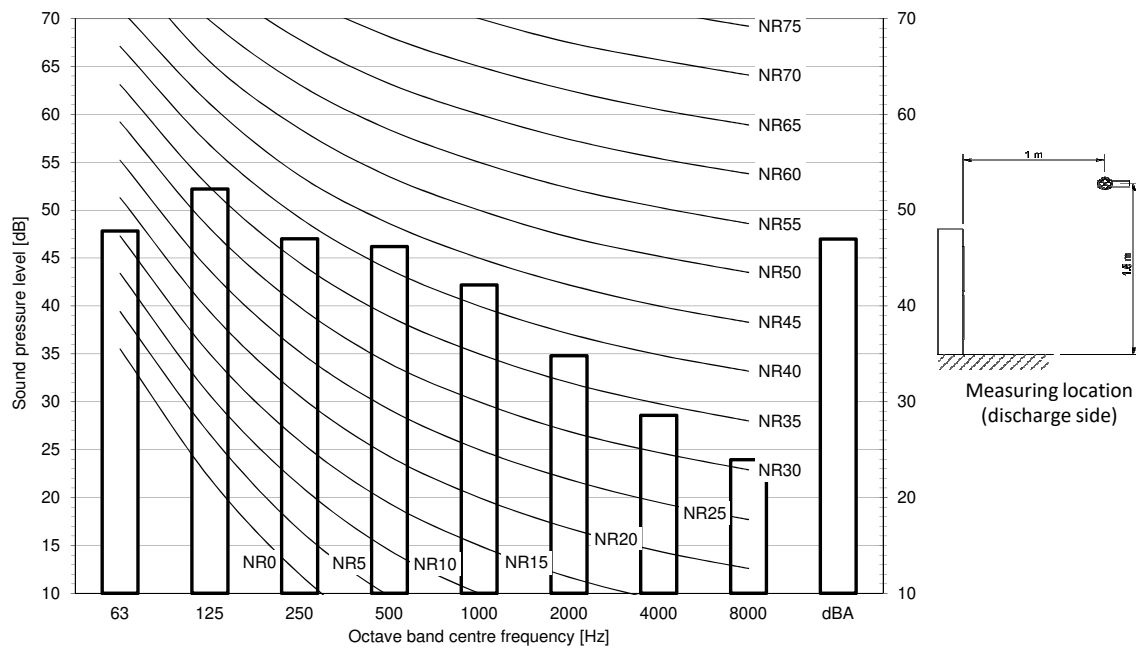
11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 1

RZAG125NV1

RZAG125NY1

LEVEL 1



Notes

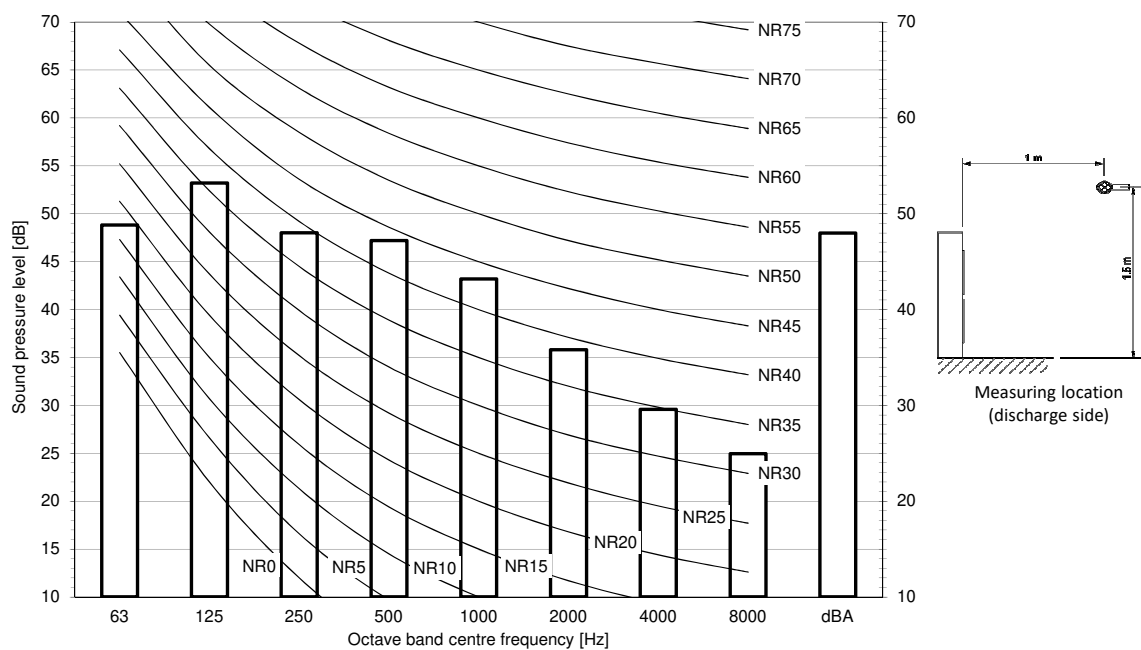
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125156

RZAG140NV1

RZAG140NY1

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 μ Pa

3D125162

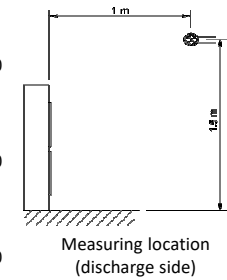
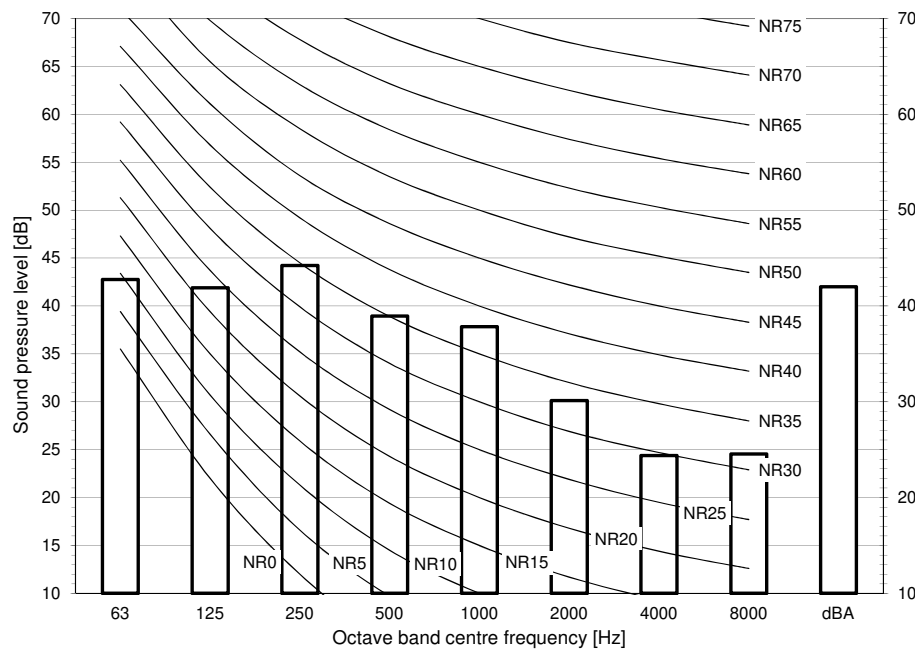
11 Sound data

11 - 6 Sound Pressure Spectrum Quiet Mode Level 2

RZAG71NV1

RZAG71NY1

LEVEL 2



Notes

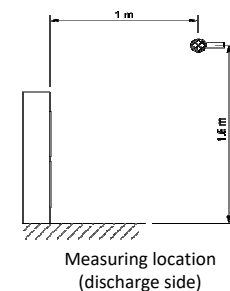
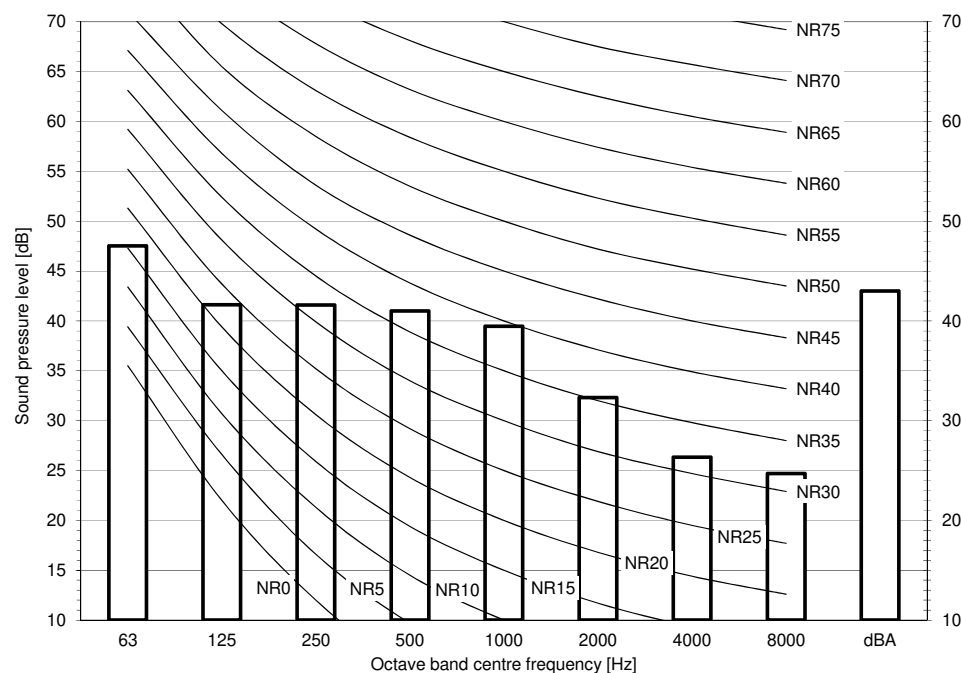
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125145

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 μ Pa

3D125151

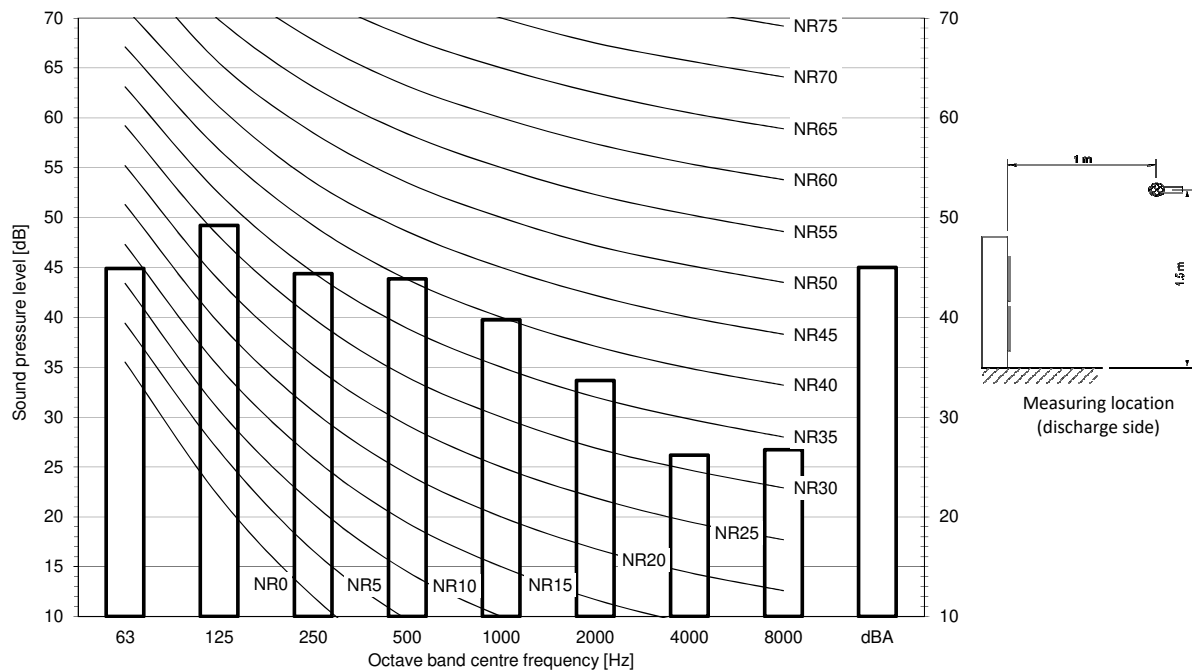
11 Sound data

11 - 6 Sound Pressure Spectrum Quiet Mode Level 2

RZAG125NV1

RZAG125NY1

LEVEL 2



Notes

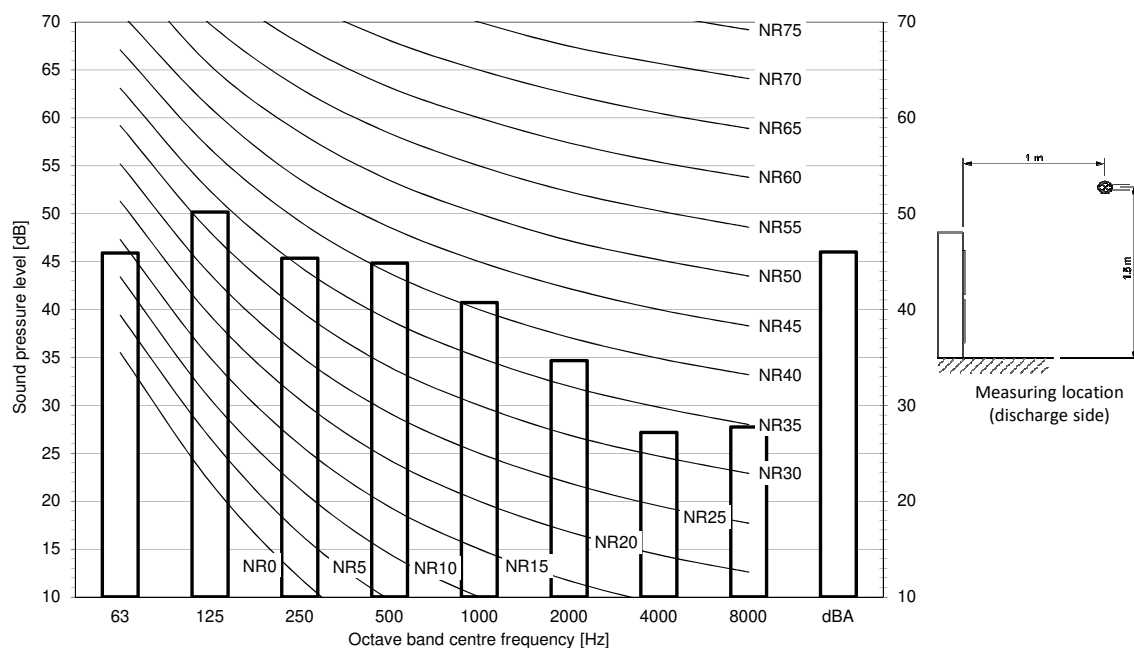
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125157

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 μ Pa

3D125163

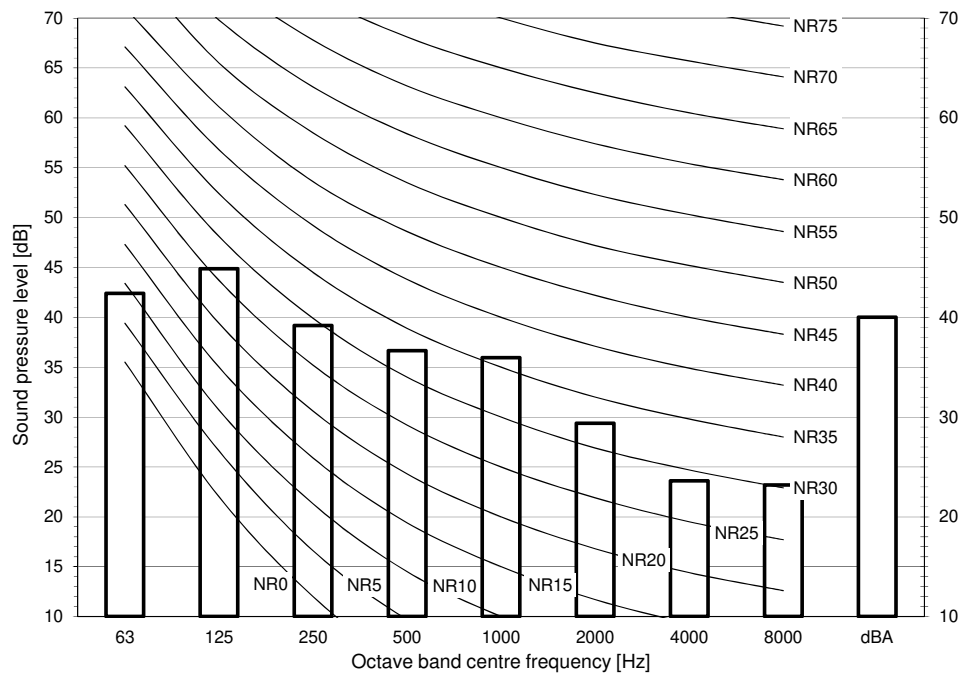
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 3

RZAG71NV1

RZAG71NY1

LEVEL 3



Notes

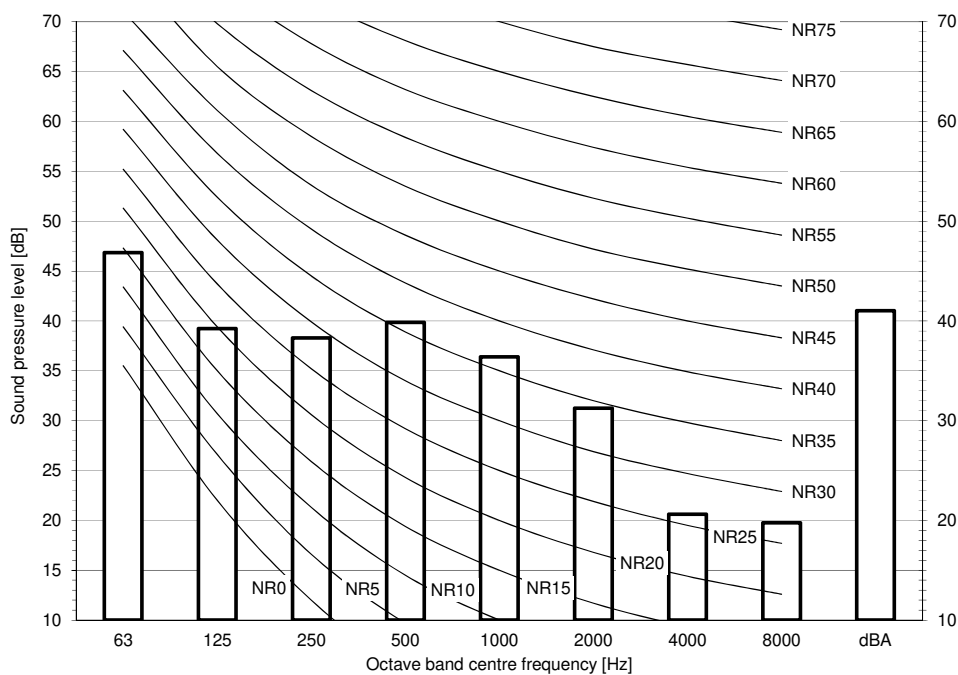
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125146

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 μ Pa

3D125152

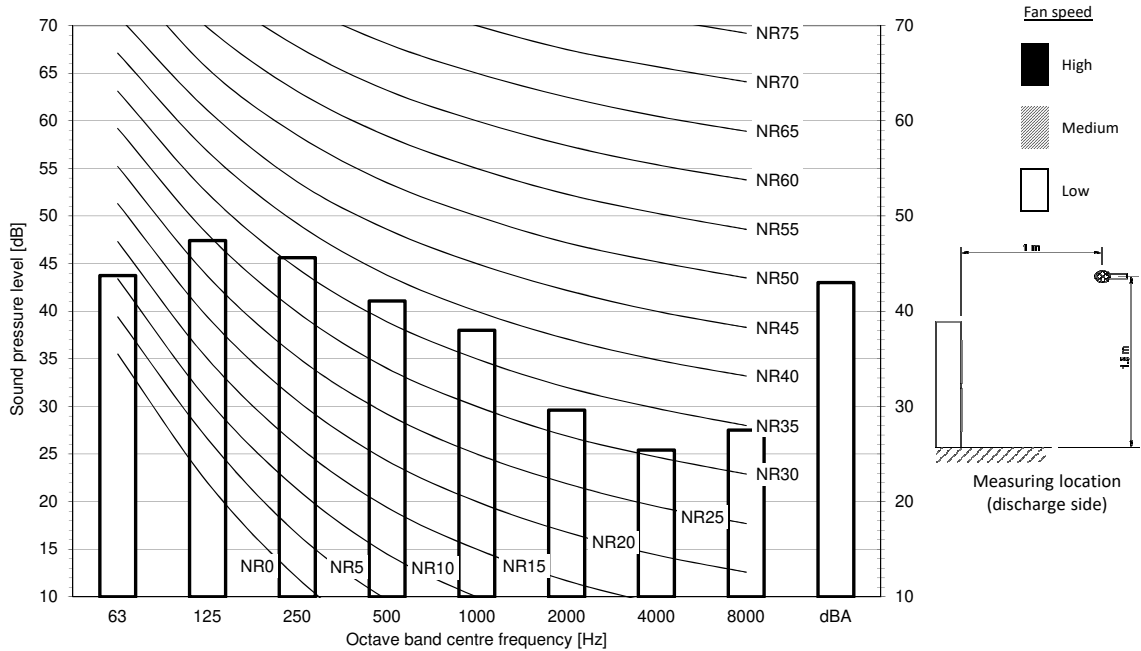
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 3

RZAG125NV1

RZAG125NY1

LEVEL 3



Notes

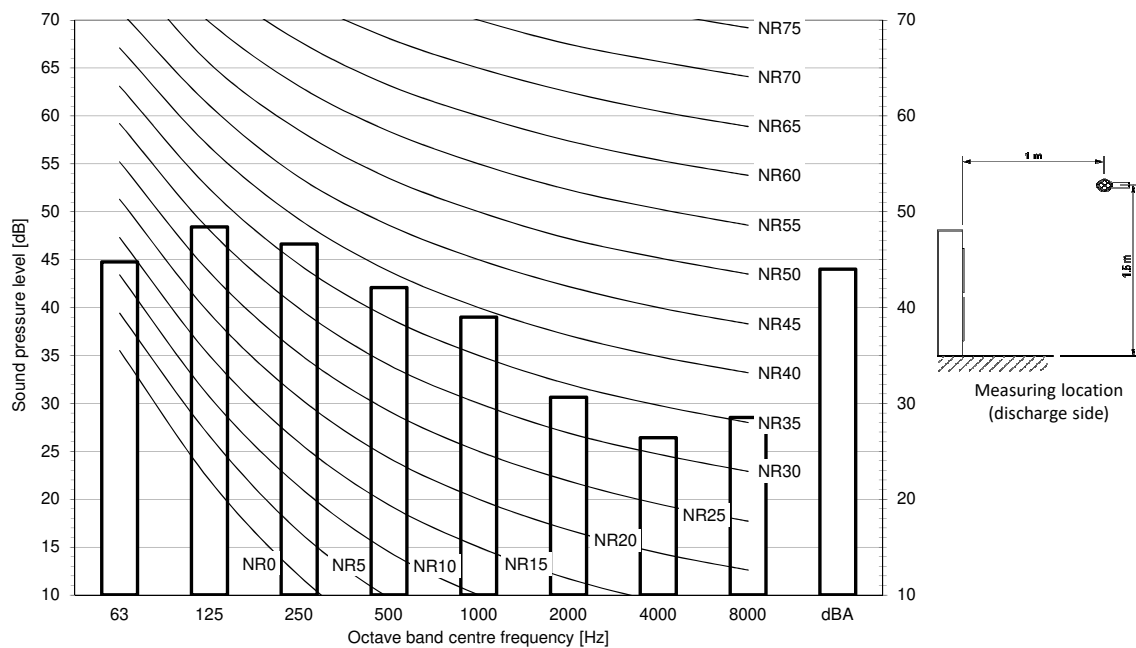
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125158

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 μ Pa

3D125164

12 Installation

12 - 1 Installation Method

RZAG-NV1

RZAG-NY1

Single unit () | Single row of units ()

Suction side

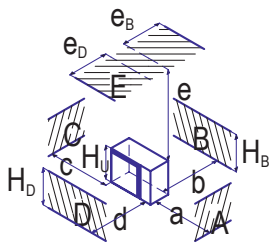
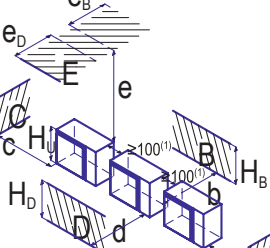
In the illustration below, the service space at the suction side is based on 35°C DB and cooling operation. Foresee more space in the following cases:

- 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	Hb>Hu	≥ 250			≥ 750	≥ 1000	≤ 500	
		1/2Hu>Hb≤Hu	≥ 250			≥ 1000	≥ 1000	≤ 500	
		Hb>Hu	⊘						
		Hd≤1/2Hu		≥ 100		≥ 1000	≥ 1000		≤ 500
		1/2Hu<Hd≤Hu		≥ 200		≥ 1000	≥ 1000		≤ 500
	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≤1/2Hu		≥ 250		≥ 1500			
		1/2Hu<Hd≤Hu		≥ 300		≥ 1500			
	B,D,E	Hb>Hu	≥ 300			≥ 1000	≥ 1000	≤ 500	
		1/2Hu<Hb≤Hu	≥ 300			≥ 1250	≥ 1000	≤ 500	
		Hb>Hu	⊘						
		Hd≤1/2Hu		≥ 250		≥ 1500	≥ 1000		≤ 500
		1/2Hu<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

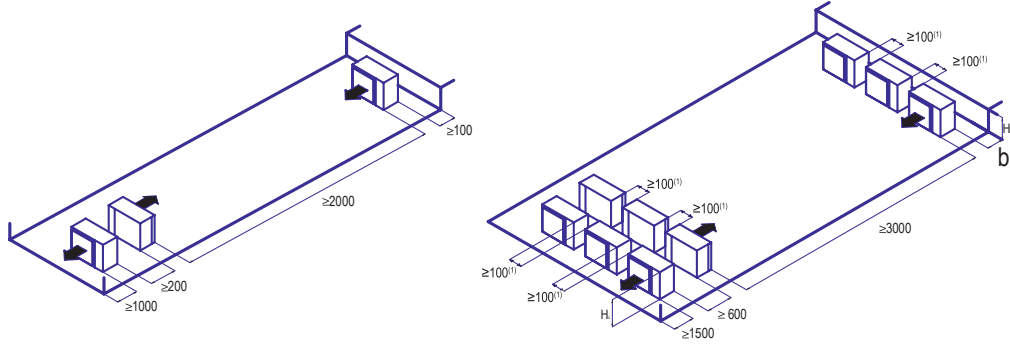
12 - 1 Installation Method

12

RZAG-NV1
RZAG-NY1

Multiple rows of units ()

Multiple rows of units ()



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

⊘ Not allowed

1D128513

12 Installation

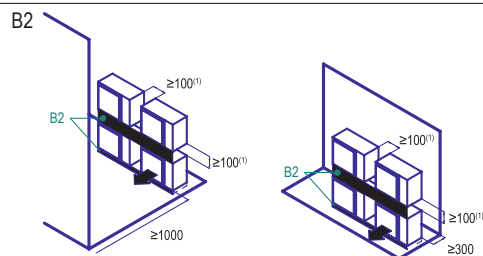
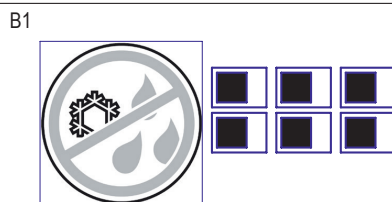
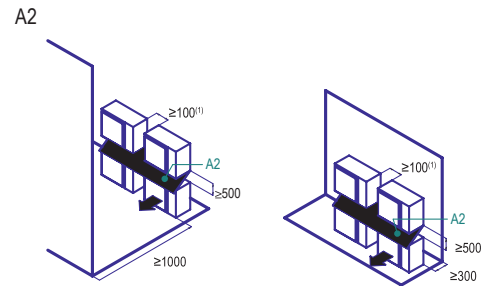
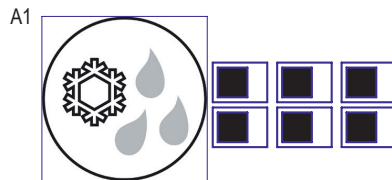
12 - 1 Installation Method

RZAG-NV1

RZAG-NY1

Stacked units (max.2 levels) 

Stacked units (max.2 levels) 



(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.

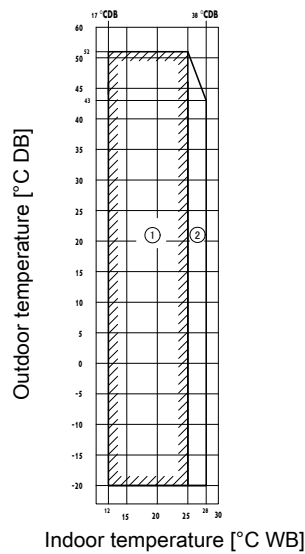
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13 Operation range

13 - 1 Operation Range

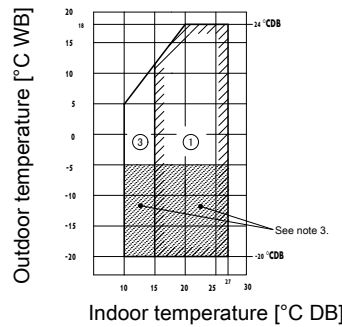
RZAG-NV1 RZAG-NY1

Cooling



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

Heating



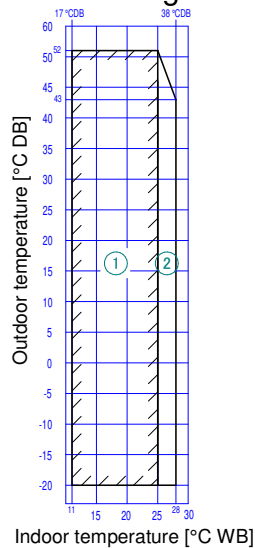
Notes

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.

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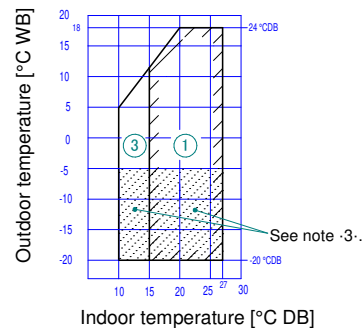
RZAG-NV1 RZAG-NY1

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

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
RZAG125N*V1B	RZAG125N*Y1B			P		4						P				4					P						P				P
RZAG140N*V1B	RZAG140N*Y1B				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	
RZAG125N*V1B	RZAG125N*Y1B			P										P			
RZAG140N*V1B	RZAG140N*Y1B				P										P		

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RZASG125-140NV1

RZASG125-140NY1

ENER Lot 21

Appropriate indoor units

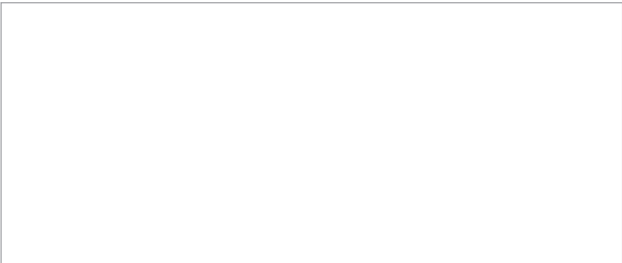
Connectable to ·RZAG125N*V1B/RZAG125N*Y1B· and covered by ·ENER Lot 21·

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 ·RZAG140N*V1B/RZAG140N*Y1B· 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	-

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06/2024



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