



Sky Air Alpha-series Air Conditioning Technical Data RZAG-NY1



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RZAG-NY1

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1 Features

1 - 1 RZAG-NY1

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

2 - 1 Specifications

Technical Specifications					RZAG71NY1	RZAG100NY1	RZAG125NY1	RZAG140NY1
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	94		
	Packed unit	kg		92	96	105		
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				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)	71 (1)
Sound pressure level	Cooling	Nom.			dBA	46	47	49
	Heating	Nom.			dBA	48	50	52
Refrigerant	Type				R-32			
	Charge				3.20	3.70		
Refrigerant	Control				Expansion valve (electronic type)			
	GWP				675			
Refrigerant oil	Circuits	Quantity			1			
	Type				FW68DA			
Piping connections	Charged volume				0.9	1.4		
	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			
Level	IU - OU	Max.	m	30				
difference	IU - IU			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			RZAG71NY1	RZAG100NY1	RZAG125NY1	RZAG140NY1
Power supply	Name		Y1			
	Phase		3~			
	Frequency	Hz	50			
	Voltage	V	380-415			
	Voltage range	V	342			
		V	457			
Current	Zmax	List	Complies to EN61000-3-11			
Wiring connections	For power supply	Remark	See installation manual outdoor unit			
	For connection with indoor	Remark	See installation manual outdoor unit			
Power supply intake			See installation manual outdoor unit			
Current - 50Hz	Maximum fuse amps (MFA)	A	16			

(1)According to ENER Lot 21

Technical specifications			FCAHG71H + RZAG71NY1	FCAHG100H + RZAG71NY1	FCAHG100H + RZAG100NY1	FCAHG140H + RZAG100NY1	FCAHG125H + RZAG125NY1	FCAHG140H + RZAG140NY1	
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	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++		-		
	Capacity	Pdesign	4.70		9.52				
	SCOP/A		4.56	4.20	4.75	4.70	4.53	4.44	
	SCOPnet/A		4.56	4.20	4.75	4.70	4.53	4.44	
	ηs,h	%	-				178	175	
	Annual energy consumption	kWh/a	1,443	1,567	2,805	2,836	2,943	3,002	
	Required back up heating cap at design conditions		0.00						
	Space cooling	A Condition	Pdc	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	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	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	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)	-10					
			Pdh (declared heating cap)	4.70		9.52			
			COPd (declared COP)	2.91	2.94	2.79	2.77	2.22	2.23
			Power input	1.62	1.60	3.42	3.43	4.29	4.27
		TBivalent	Tbiv (bivalent temperature)	-10					
	Pdh (declared heating cap)		4.70		9.52				
	COPd (declared COP)		2.91	2.94	2.79	2.77	2.22	2.23	
	Power input		1.62	1.60	3.42	3.43	4.29	4.27	
	A Condition (-7°C)	Pdh (declared heating cap)	4.16	4.14	8.42	8.38	8.42		
		COPd (declared COP)	3.28	3.30	3.14	3.13	2.84	2.80	
	Space heating (Average climate)	A Condition (-7°C)	Power input	1.27	1.25	2.69	2.68	2.97	3.01
		B Condition (2°C)	Pdh (declared heating cap)	2.53	2.54	5.13	5.14	5.13	
			COPd (declared COP)	4.53	4.30	4.79	4.76	4.58	4.42
Power input			0.56	0.59	1.07	1.08	1.12	1.16	
C Condition (7°C)		Pdh (declared heating cap)	1.79	1.89	3.30	3.33	3.30		
		COPd (declared COP)	5.43	4.73	5.81	5.71	5.79	5.78	
		Power input	0.33	0.40	0.57	0.58	0.57		
D Condition (12°C)		Pdh (declared heating cap)	2.01	2.11	2.58		2.60		
		COPd (declared COP)	6.79	5.75	6.86	6.64	6.62	6.60	
		Power input	0.30	0.37	0.38		0.39		

2 Specifications

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Technical specifications					FCAHG71H + RZAG71NY1	FCAHG100H + RZAG71NY1	FCAHG100H + RZAG100NY1	FCAHG140H + RZAG100NY1	FCAHG125H + RZAG125NY1	FCAHG140H + RZAG140NY1	
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 + RZAG71NY1		FCAG100B + RZAG71NY1		FCAG100B + RZAG100NY1		FCAG140B + RZAG100NY1		FCAG125B + RZAG125NY1		FCAG140B + RZAG140NY1					
Cooling capacity	Nom.			kW		6.80 (1)				9.50 (1)				12.1 (1)		13.4 (1)			
Heating capacity	Nom.			kW		7.50 (2)				10.8 (2)				13.5 (2)		15.5 (2)			
Space cooling	Energy efficiency class			A++								-							
	Capacity	Pdesign	kW		6.80				9.50				12.1		13.4				
	SEER				6.83		7.50		7.14		7.86		7.15		6.80				
	ηs,c	%			-								283		269				
	Annual energy consumption	kWh/a			348		317		466		423		1,016		1,182				
Space heating (Average climate)	Energy efficiency class			A+								A++				-			
	Capacity	Pdesign	kW		4.70				7.80				9.52						
	SCOP/A				4.22		4.45		4.53		4.66		4.34						
	SCOPnet/A				4.22		4.45		4.53		4.66		4.34						
	ηs,h	%			-								171						
	Annual energy consumption	kWh/a			1,560		1,479		2,413		2,343		3,071						
	Required back up heating cap at design conditions			kW		0.00													
	Space cooling	A Condition (35°C - 27/19)	Pdc	kW		6.80				9.50				12.10		13.40			
EERd						3.54		4.14		3.59		4.13		3.32		3.12			
Power input			kW			1.92		1.64		2.65		2.30		3.65		4.29			
B Condition (30°C - 27/19)		Pdc	kW		5.03				7.03				8.92		9.88				
		EERd				5.43		5.65		5.83		5.76		5.65		4.47			
		Power input	kW			0.93		0.89		1.21		1.22		1.58		2.21			
C Condition (25°C - 27/19)		Pdc	kW		3.20				4.46				5.74		6.35				
		EERd				8.32		9.57		8.18		9.72		7.87		8.17			
		Power input	kW			0.38		0.33		0.55		0.46		0.73		0.78			
D Condition (20°C - 27/19)		Pdc	kW		2.40		2.65		3.31		3.61		3.25		3.32				
		EERd				12.31		13.42		13.03		14.70		12.77		13.55			
		Power input	kW			0.20				0.25									
Space heating (Average climate)		TOL	Tol (temperature operating limit)			°C		-10											
			Pdh (declared heating cap)			kW		4.70				7.80				9.52			
	COPd (declared COP)						2.54		2.88		2.51		2.73		1.91		1.93		
	Power input			kW			1.85		1.63		3.11		2.85		4.98		4.93		
	TBivalent	Tbiv (bivalent temperature)			°C		-10												
		Pdh (declared heating cap)			kW		4.70				7.80				9.52				
		COPd (declared COP)						2.54		2.88		2.51		2.73		1.91		1.93	
		Power input			kW			1.85		1.63		3.11		2.85		4.98		4.93	
	A Condition (-7°C)	Pdh (declared heating cap)			kW		4.13		4.14		6.86				8.43		8.42		
		COPd (declared COP)						2.96		3.25		2.87		3.04		2.59		2.52	

2 Specifications

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Technical specifications					FCAG71B + RZAG71NY1	FCAG100B + RZAG71NY1	FCAG100B + RZAG100NY1	FCAG140B + RZAG100NY1	FCAG125B + RZAG125NY1	FCAG140B + RZAG140NY1	
Space heating (Average climate)	A Condition (-7°C)	Power input	kW		1.40	1.27	2.39	2.26	3.25	3.34	
	B Condition (2°C)	Pdh (declared heating cap)	kW		2.54		4.21		5.12		
		COPd (declared COP)			4.23	4.46	4.37	4.65	4.29	4.33	
		Power input	kW		0.60	0.57	0.96	0.91	1.20	1.18	
	C Condition (7°C)	Pdh (declared heating cap)	kW		1.77	1.80	2.73		3.29		
		COPd (declared COP)			5.11	5.30	6.01	5.82	5.92		
		Power input	kW		0.35	0.34	0.45	0.47	0.56		
	D Condition (12°C)	Pdh (declared heating cap)	kW		1.96	2.02	2.47	2.51	2.52		
		COPd (declared COP)			6.01	6.60	7.75	7.16	6.94		
		Power input	kW		0.33	0.31	0.32	0.35	0.36		
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000						
		Heating	PCK	kW	0.000						
	Off mode	Cooling	POFF	kW	0.009						
		Heating	POFF	kW	0.009						
	Standby mode	Cooling	PSB	kW	0.009						
		Heating	PSB	kW	0.009						
	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.

2 Specifications

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Technical specifications					FBA71A9 + RZAG71NY1	FBA100A + RZAG71NY1	FBA100A + RZAG100NY1	FBA140A + RZAG100NY1	FBA125A + RZAG125NY1	FBA140A + RZAG140NY1
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 Pdc	kW			6.80		9.50		12.10	13.40
	(35°C - 27/19) 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 Pdc	kW			5.03		7.03		8.92	9.88
	(30°C - 27/19) 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 Pdc	kW			3.20		4.46	4.47	5.74	6.35
	(25°C - 27/19) 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 Pdc	kW			2.44	2.68	3.33	3.66	3.34	3.50
	(20°C - 27/19) 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	
	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
Space heating (Average climate)	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 Pdh (declared heating cap)	kW			4.14		6.87	6.86	8.42	8.43
	(-7°C) COPd (declared COP)				2.92	3.04	2.82	2.80	2.67	2.58
	Power input	kW			1.42	1.36	2.43	2.45	3.15	3.26
	B Condition Pdh (declared heating cap)	kW			2.54		4.21		5.12	
	(2°C) 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 Pdh (declared heating cap)	kW			1.76	1.83	2.73		3.29	
	(7°C) 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 Pdh (declared heating cap)	kW			1.96	2.05	2.51	2.55		2.56
	(12°C) 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
Power consumption in other than active mode	Crankcase heater mode Cooling PCK	kW					0.000			
	Heating PCK	kW					0.000			
	Off mode Cooling POFF	kW					0.011			
	Heating POFF	kW					0.011			
	Standby mode Cooling PSB	kW					0.011			
	Heating PSB	kW					0.011			
	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 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					FDA125A + RZAG125NY1	
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		
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10	
		Pdh (declared heating cap)		kW	9.52	
		COPd (declared COP)			1.99	
		Power input		kW	4.78	
	TBivalent	Tbiv (bivalent temperature)		°C	-10	
		Pdh (declared heating cap)		kW	9.52	
		COPd (declared COP)			1.99	
		Power input		kW	4.78	
	A Condition (-7°C)	Pdh (declared heating cap)		kW	8.42	
		COPd (declared COP)			2.69	
		Power input		kW	3.13	
	B Condition (2°C)	Pdh (declared heating cap)		kW	5.12	
	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	
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.

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Technical specifications					FAA71B + RZAG71NY1	FAA100B + RZAG71NY1	FAA100B + RZAG100NY1
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	Cooling			A	-	A
	Directive	Heating			B	-	D
	Energy efficiency class					A++	
Space cooling	Capacity	Pdesign	kW		6.80		9.50
	SEER				6.58	6.43	6.42
	Annual energy consumption		kWh/a		362	370	518
	Energy efficiency class					A+	
Space heating (Average climate)	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°		kW		4.70	-	7.80
	Annual energy consumption		kWh/a		1,567	1,605	2,725
	Required back up heating cap at design conditions		kW			0.00	
Space cooling	A Condition	Pdc	kW		6.80		9.50
	(35°C - 27/19)	EERd			3.27	3.47	3.24
		Power input	kW		2.08	1.96	2.93
	B Condition	Pdc	kW		5.02	5.03	7.00
	(30°C - 27/19)	EERd			5.04	5.22	4.59
		Power input	kW		1.00	0.96	1.53
	C Condition	Pdc	kW		3.23	3.20	4.51
	(25°C - 27/19)	EERd			8.40	7.90	7.56
		Power input	kW		0.38	0.40	0.60
	D Condition	Pdc	kW		2.59	2.48	3.10
	(20°C - 27/19)	EERd			11.70	10.59	13.20
		Power input	kW		0.22	0.23	
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	Pdh (declared heating cap)	kW		4.16	4.14	6.91
	(-7°C)	COPd (declared COP)			2.60	3.07	2.32
		Power input	kW		1.60	1.35	2.98
	B Condition	Pdh (declared heating cap)	kW		2.57	2.54	4.20
	(2°C)	COPd (declared COP)			4.28	4.11	4.06
		Power input	kW		0.60	0.62	1.03
	C Condition	Pdh (declared heating cap)	kW		1.83	1.79	2.70
	(7°C)	COPd (declared COP)			5.26	4.81	5.24
		Power input	kW		0.35	0.37	0.52
	D Condition	Pdh (declared heating cap)	kW		2.23	2.02	2.43
	(12°C)	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	

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Technical specifications					FAA71B + RZAG71NY1	FAA100B + RZAG71NY1	FAA100B + RZAG100NY1
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
	Sound power level indoor	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 + RZAG71NY1	FHA100A + RZAG71NY1	FHA100A + RZAG100NY1
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
Space cooling	Annual energy consumption		kWh/a		1,523	1,545	2,369
	Required back up heating cap at design conditions		kW			0.00	
	A Condition	Pdc	kW		6.80		9.50
	(35°C - 27/19)	EERd			3.75	4.02	4.10
Space heating (Average climate)	B Condition	Pdc	kW		5.03		7.03
		(30°C - 27/19)	EERd		5.46	5.34	4.92
	C Condition	Pdc	kW		3.20		4.47
		(25°C - 27/19)	EERd		8.99	8.27	7.62
Space heating (Average climate)	D Condition	Pdc	kW		2.48	2.62	3.54
		(20°C - 27/19)	EERd		12.58	10.71	10.27
	TOL	Pdc	kW		0.20	0.24	0.34
		(-7°C)					
Space heating (Average climate)	TBivalent	Pdh (declared heating cap)	kW		4.70		7.80
		COPd (declared COP)			2.43	2.90	2.65
	A Condition	Pdh (declared heating cap)	kW		4.14		6.86
		(-7°C)					
Space heating (Average climate)	B Condition	Pdh (declared heating cap)	kW		2.54		4.21
		(2°C)					
	C Condition	Pdh (declared heating cap)	kW				
		(7°C)					
Space heating (Average climate)	D Condition	Pdh (declared heating cap)	kW				
		(12°C)					
	TOL	Pdh (declared heating cap)	kW				
		(-7°C)					
Space heating (Average climate)	TBivalent	Pdh (declared heating cap)	kW		4.70		7.80
		COPd (declared COP)			2.43	2.90	2.65
	A Condition	Pdh (declared heating cap)	kW		4.14		6.86
		(-7°C)					
Space heating (Average climate)	B Condition	Pdh (declared heating cap)	kW		2.54		4.21
		(2°C)					
	C Condition	Pdh (declared heating cap)	kW				
		(7°C)					
Space heating (Average climate)	D Condition	Pdh (declared heating cap)	kW				
		(12°C)					
	TOL	Pdh (declared heating cap)	kW				
		(-7°C)					

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Technical specifications					FHA71A9 + RZAG71NY1	FHA100A + RZAG71NY1	FHA100A + RZAG100NY1
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 + RZAG100NY1	FHA125A + RZAG125NY1	FHA140A + RZAG140NY1
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				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				2,429	3,174	3,100
	Required back up heating cap at design conditions				kW	0.00	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		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
	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
Space heating (Average climate)	A Condition (-7°C)	Pdh (declared heating cap)	kW		6.86	8.42	
		COPd (declared COP)			3.15	2.55	2.70

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Technical specifications					FHA140A + RZAG100NY1	FHA125A + RZAG125NY1	FHA140A + RZAG140NY1
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
		Power input	kW		0.92	1.20	1.18
	C Condition (7°C)	Pdh (declared heating cap)	kW		2.73	3.29	
		COPd (declared COP)			5.30	5.49	5.54
		Power input	kW		0.52	0.60	0.59
	D Condition (12°C)	Pdh (declared heating cap)	kW		2.60	2.55	2.64
		COPd (declared COP)			6.21	6.13	6.25
		Power input	kW			0.42	
Power consumption in other than active mode	Crankcase heater	Cooling	PCK	kW		0.000	
		Heating	PCK	kW		0.000	
	Off mode	Cooling	POFF	kW		0.009	
		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					FUA71A + RZAG71NY1	FUA100A + RZAG71NY1	FUA100A + RZAG100NY1	FUA125A + RZAG125NY1
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				0.00			
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		6.80		9.50	12.10
		EERd			3.83	4.02	3.57	3.02
		Power input	kW		1.77	1.69	2.66	4.00
	B Condition (30°C - 27/19)	Pdc	kW		5.03		7.03	8.91
		EERd			5.34	5.65	4.93	5.08
		Power input	kW		0.94	0.89	1.43	1.76
	C Condition (25°C - 27/19)	Pdc	kW		3.20	3.19	4.46	5.74
		EERd			8.83	8.54	7.75	7.22
		Power input	kW		0.36	0.37	0.58	0.79
	D Condition (20°C - 27/19)	Pdc	kW		2.59	2.64	3.36	3.23
		EERd			12.48	10.88	10.65	10.56
		Power input	kW		0.21	0.24	0.32	0.31
	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
Space heating (Average climate)	A Condition (-7°C)	Pdh (declared heating cap)	kW		4.14		6.86	8.43
		COPd (declared COP)			2.99	3.31	3.00	2.66

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Technical specifications					FUA71A + RZAG71NY1	FUA100A + RZAG71NY1	FUA100A + RZAG100NY1	FUA125A + RZAG125NY1	
Space heating (Average climate)	A Condition (-7°C)	Power input	kW	1.38	1.25	2.29	3.17		
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.54		4.21	5.12		
		COPd (declared COP)		4.27	4.36	4.53	4.31		
		Power input	kW	0.60	0.58	0.93	1.19		
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.80	1.86	2.73	3.29		
		COPd (declared COP)		5.03	4.87	5.47			
		Power input	kW	0.36	0.38	0.50	0.60		
	D Condition (12°C)	Pdh (declared heating cap)	kW	2.00	2.09	2.55	2.58		
		COPd (declared COP)		6.00	5.94	6.76	6.18		
		Power input	kW	0.33	0.35	0.38	0.42		
Power consumption in other than active mode	Crankcase heater mode	Cooling PCK	kW	0.000					
		Heating PCK	kW	0.000					
	Off mode	Cooling POFF	kW	0.009					
		Heating POFF	kW	0.009					
	Standby mode	Cooling PSB	kW	0.009					
		Heating PSB	kW	0.009					
	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				FVA71A + RZAG71NY1	FVA100A + RZAG71NY1	FVA100A + RZAG100NY1	FVA140A + RZAG100NY1	FVA125A + RZAG125NY1	FVA140A + RZAG140NY1
Cooling capacity	Nom.	kW		6.80 (1)		9.50 (1)		12.1 (1)	13.4 (1)
Heating capacity	Nom.	kW		7.50 (2)		10.8 (2)		13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++				-	
	Capacity	Pdesign	kW	6.80		9.50		12.1	13.4
	SEER			6.34	6.41	6.40	6.43	6.41	6.12
	ηs,c		%	-				253	242
	Annual energy consumption		kWh/a	376	371	520	517	1,133	1,314
Space heating (Average climate)	Energy efficiency class			A+				-	
	Capacity	Pdesign	kW	4.70		7.80		9.52	
	SCOP/A			4.05	4.03	4.20	4.05	4.15	3.94
	SCOPnet/A			4.05	4.03	4.20	4.05	4.15	3.94
	ηs,h		%	-				163	155
	Annual energy consumption		kWh/a	1,625	1,634	2,600	2,697	3,209	3,383
	Required back up heating cap at design conditions			0.00					
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	6.80		9.50		12.10	13.40
		EERd		3.27	3.95	3.57	3.93	3.21	3.03
		Power input	kW	2.08	1.72	2.66	2.42	3.77	4.42
	B Condition (30°C - 27/19)	Pdc	kW	5.03		7.03		8.92	9.87
		EERd		5.15	5.40	5.21	5.13	5.23	4.89
		Power input	kW	0.98	0.93	1.35	1.37	1.70	2.02
	C Condition (25°C - 27/19)	Pdc	kW	3.20		4.46	4.47	5.73	6.35
		EERd		7.53	7.81	7.67	7.63	7.07	6.90
		Power input	kW	0.42	0.41	0.58	0.59	0.81	0.92
	D Condition (20°C - 27/19)	Pdc	kW	2.33	2.61	3.20	3.54	3.23	3.24
		EERd		11.27	9.56	9.85	10.01	10.28	9.46
		Power input	kW	0.21	0.27	0.33	0.35	0.31	0.34
	Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10				
			Pdh (declared heating cap)	kW	4.70	7.80		9.52	
			COPd (declared COP)		2.42	2.85	2.45	2.57	1.86
			Power input	kW	1.94	1.65	3.19	3.04	5.11
		TBivalent	Tbiv (bivalent temperature)	°C	-10				
			Pdh (declared heating cap)	kW	4.70	7.80		9.52	
			COPd (declared COP)		2.42	2.85	2.45	2.57	1.86
			Power input	kW	1.94	1.65	3.19	3.04	5.11
	A Condition (-7°C)	Pdh (declared heating cap)	COPd (declared COP)	kW	4.14	6.86	8.43	8.42	2.42

2 Specifications

2 - 1 Specifications

2

Technical specifications					FVA71A + RZAG71NY1	FVA100A + RZAG71NY1	FVA100A + RZAG100NY1	FVA140A + RZAG100NY1	FVA125A + RZAG125NY1	FVA140A + RZAG140NY1	
Space heating (Average climate)	A Condition (-7°C)	Power input	kW	1.46	1.30	2.43	2.42	3.30	3.48		
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.54		4.21		5.12			
		COPd (declared COP)		4.07	4.11	4.21	4.11	4.20	3.99		
		Power input	kW	0.62		1.00	1.02	1.22	1.28		
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.76	1.88	2.73		3.29			
		COPd (declared COP)		4.92	4.54	5.13	4.77	5.42	5.12		
		Power input	kW	0.36	0.41	0.53	0.57	0.61	0.64		
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.96	2.10	2.56	2.60	2.57	2.61		
		COPd (declared COP)		5.77	5.48	6.22	5.58	6.00	5.67		
		Power input	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						
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

RZAG71-140N7Y1

Indoor	Outdoor	Power supply	Voltage range	Compressor				OFM		IFM		
				MCA	TOCA	MFA	MSC	RLA	KW	FLA	KW	FLA
FCAHG71HVEB	RZAG71N7Y1B	3N-50Hz 380-415V	Minimum: 342 V Maximum: 457 V	11.1	—	16	—	9.2	0.234	0.8	0.091	0.7
FCAG35BVEB	x2 RZAG71N7Y1B			11.0	—	16	—	9.2	0.234	0.8	0.044 x2	0.3 x2
FCAG71BVEB	RZAG71N7Y1B			10.8	—	16	—	9.2	0.234	0.8	0.054	0.4
FFA35A2VEB	x2 RZAG71N7Y1B			10.8	—	16	—	9.2	0.234	0.8	0.050 x2	0.2 x2
FBA35A2VEB	x2 RZAG71N7Y1B			13.2	—	16	—	9.2	0.234	0.8	0.089 x2	1.4 x2
FBA71A2VEB	RZAG71N7Y1B			11.7	—	16	—	9.2	0.234	0.8	0.070	1.3
FNA35A2VEB	x2 RZAG71N7Y1B			11.4	—	16	—	9.2	0.234	0.8	0.034 x2	0.5 x2
FUA71A2VEB	RZAG71N7Y1B			11.3	—	16	—	9.2	0.234	0.8	0.046	0.9
FAA71B1V1B	RZAG71N7Y1B			10.5	—	16	—	9.2	0.234	0.8	0.048	0.5
FVA71A1V1B	RZAG71N7Y1B			11.2	—	16	—	9.2	0.234	0.8	0.117	0.8
FDXM35F3V1B	x2 RZAG71N7Y1B	3N-50Hz 380-415V	Minimum: 342 V Maximum: 457 V	11.0	—	16	—	9.2	0.234	0.8	0.034 x2	0.3 x2
FHA35A2VEB	x2 RZAG71N7Y1B			11.6	—	16	—	9.2	0.234	0.8	0.090 x2	0.6 x2
FHA71A2VEB	RZAG71N7Y1B			11.2	—	16	—	9.2	0.234	0.8	0.110	0.8
FCAHG100HVEB	RZAG100N7Y1B			14.9	—	16	—	11.8	0.234	1.2	0.221	1.3
FCAG35BVEB	x3 RZAG100N7Y1B			13.0	—	16	—	10.4	0.234	1.2	0.044 x3	0.3 x3
FCAG50BVEB	x2 RZAG100N7Y1B			12.7	—	16	—	10.4	0.234	1.2	0.039 x2	0.3 x2
FCAG100BVEB	RZAG100N7Y1B			14.2	—	16	—	11.8	0.234	1.2	0.117	0.7
FBA35A2VEB	x3 RZAG100N7Y1B			12.7	—	16	—	10.4	0.234	1.2	0.050 x3	0.2 x3
FFA50A2VEB	x2 RZAG100N7Y1B			12.9	—	16	—	10.4	0.234	1.2	0.050 x2	0.4 x2
FBA35A2VEB	x3 RZAG100N7Y1B			16.3	—	20	—	10.4	0.234	1.2	0.089 x3	1.4 x3
FBA50A2VEB	x2 RZAG100N7Y1B	3N-50Hz 380-415V	Minimum: 342 V Maximum: 457 V	14.9	—	16	—	10.4	0.234	1.2	0.089 x2	1.4 x2
FBA100A2VEB	RZAG100N7Y1B			17.0	—	20	—	11.8	0.234	1.2	0.127	3.5
FNA35A2VEB	x3 RZAG100N7Y1B			13.6	—	16	—	10.4	0.234	1.2	0.034 x3	0.5 x3
FNA50A2VEB	x2 RZAG100N7Y1B			13.1	—	16	—	10.4	0.234	1.2	0.060 x2	0.5 x2
FUA100A2VEB	RZAG100N7Y1B			14.9	—	16	—	11.8	0.234	1.2	0.106	1.3
FAA100B1V1B	RZAG100N7Y1B			14.4	—	16	—	11.8	0.234	1.2	0.064	0.9
FVA100A1V1B	RZAG100N7Y1B			15.1	—	16	—	11.8	0.234	1.2	0.238	1.5
FDXM35F3V1B	x3 RZAG100N7Y1B			13.0	—	16	—	10.4	0.234	1.2	0.034 x3	0.3 x3
FDXM50F3V1B	x2 RZAG100N7Y1B			13.9	—	16	—	10.4	0.234	1.2	0.060 x2	0.9 x2
FHA35A2VEB	x3 RZAG100N7Y1B			13.9	—	16	—	10.4	0.234	1.2	0.090 x3	0.6 x3
FHA50A2VEB	x2 RZAG100N7Y1B			13.3	—	16	—	10.4	0.234	1.2	0.090 x2	0.6 x2
FHA100A2VEB	RZAG100N7Y1B			14.9	—	16	—	11.8	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	KW	FLA			
FCAHG125HVEB	RZAG125N7Y1B	3N-50Hz 380-415V	Minimum: 342 V Maximum: 457 V	15.0	—	16	—	11.8	0.234	1.2	0.244	1.4	—	—			
FCAG35BVEB	x4 RZAG125N7Y1B			12.2	—	16	—	9.3	0.234	1.2	0.044 x4	0.3 x4	—	—			
FCAG50BVEB	x3 RZAG125N7Y1B			12.9	—	16	—	10.3	0.234	1.2	0.039 x3	0.3 x3	—	—			
FCAG60BVEB	x2 RZAG125N7Y1B			14.1	—	16	—	11.8	0.234	1.2	0.044 x2	0.3 x2	—	—			
FCAG125BVEB	RZAG125N7Y1B			14.6	—	16	—	11.8	0.234	1.2	0.168	1.0	—	—			
FFA35A2VEB	x4 RZAG125N7Y1B			11.8	—	16	—	9.3	0.234	1.2	0.050 x4	0.2 x4	—	—			
FFA50A2VEB	x3 RZAG125N7Y1B			13.2	—	16	—	10.3	0.234	1.2	0.050 x3	0.4 x3	—	—			
FFA60A2VEB	x2 RZAG125N7Y1B			14.8	—	16	—	11.8	0.234	1.2	0.050 x2	0.6 x2	—	—			
FBA35A2VEB	x4 RZAG125N7Y1B			16.5	—	20	—	9.3	0.234	1.2	0.089 x4	1.4 x4	—	—			
FBA50A2VEB	x3 RZAG125N7Y1B			16.2	—	20	—	10.3	0.234	1.2	0.089 x3	1.4 x3	—	—			
FBA60A2VEB	x2 RZAG125N7Y1B	16.1	—	20	—	11.8	0.234	1.2	0.070 x2	1.3 x2	—	—					
FBA125A2VEB	RZAG125N7Y1B	17.4	—	20	—	11.8	0.234	1.2	0.187	3.9	—	—					
FNA35A2VEB	x4 RZAG125N7Y1B	13.0	—	16	—	9.3	0.234	1.2	0.034 x4	0.5 x4	0.4 x4	0.3 x4					
FNA50A2VEB	x3 RZAG125N7Y1B	13.5	—	16	—	10.3	0.234	1.2	0.060 x3	0.5 x3	0.3 x3	0.3 x3					
FNA60A2VEB	x2 RZAG125N7Y1B	14.8	—	16	—	11.8	0.234	1.2	0.060 x2	0.6 x2	0.2 x2	0.2 x2					
FUA125AVEB9	RZAG125N7Y1B	15.0	—	16	—	11.8	0.234	1.2	0.106	1.4	—	—					
FDA125AVEB9	RZAG125N7Y1B	15.7	—	16	—	11.8	0.234	1.2	0.350	2.1	—	—					
FVA125AMVEB	RZAG125N7Y1B	15.1	—	16	—	11.8	0.234	1.2	0.238	1.5	—	—					
FDXM35F3V1B	x4 RZAG125N7Y1B	12.2	—	16	—	9.3	0.234	1.2	0.034 x4	0.3 x4	0.4 x4	0.3 x4					
FDXM50F3V1B	x3 RZAG125N7Y1B	14.8	—	16	—	10.3	0.234	1.2	0.060 x3	0.9 x3	0.4 x3	0.3 x3					
FDXM60F3V1B	x2 RZAG125N7Y1B	15.4	—	16	—	11.8	0.234	1.2	0.060 x2	0.9 x2	0.4 x2	0.3 x2					
FHA35AVEB98	x4 RZAG125N7Y1B	13.4	—	16	—	9.3	0.234	1.2	0.090 x4	0.6 x4	0.4 x4	0.3 x4					
FHA50AVEB98	x3 RZAG125N7Y1B	13.8	—	16	—	10.3	0.234	1.2	0.090 x3	0.6 x3	0.3 x3	0.3 x3					
FHA60AVEB98	x2 RZAG125N7Y1B	14.8	—	16	—	11.8	0.234	1.2	0.091 x2	0.6 x2	0.2 x2	0.2 x2					
FHA125AVEB9	RZAG125N7Y1B	15.1	—	16	—	11.8	0.234	1.2	0.217	1.5	—	—					
FCAHG71HVEB	RZAG140N7Y1B	15.0	—	16	—	11.6	0.234	1.4	0.091 x2	0.7 x2	0.2 x2	0.2 x2					
FCAG140HVEB	RZAG140N7Y1B	15.0	—	16	—	11.6	0.234	1.4	0.244	1.4	—	—					
FCAG35BVEB	x4 RZAG140N7Y1B	12.2	—	16	—	9.1	0.234	1.4	0.044 x4	0.3 x4	—	—					
FCAG50BVEB	x3 RZAG140N7Y1B	12.9	—	16	—	10.1	0.234	1.4	0.039 x3	0.3 x3	—	—					
FCAG71BVEB	x2 RZAG140N7Y1B	14.4	—	16	—	11.6	0.234	1.4	0.054 x2	0.4 x2	0.2 x2	0.2 x2					
FCAG140BVEB	RZAG140N7Y1B	14.9	—	16	—	11.6	0.234	1.4	0.168	1.3	—	—					
FFA35A2VEB	x4 RZAG140N7Y1B	11.8	—	16	—	9.1	0.234	1.4	0.050 x4	0.2 x4	—	—					
FFA50A2VEB	x3 RZAG140N7Y1B	13.2	—	16	—	10.1	0.234	1.4	0.050 x3	0.4 x3	—	—					
FBA35A2VEB	x4 RZAG140N7Y1B	16.5	—	20	—	9.1	0.234	1.4	0.089 x4	1.4 x4	—	—					
FBA50A2VEB	x3 RZAG140N7Y1B	16.2	—	20	—	10.1	0.234	1.4	0.089 x3	1.4 x3	—	—					
FBA71A2VEB	x2 RZAG140N7Y1B	16.1	—	20	—	11.6	0.234	1.4	0.070 x2	1.3 x2	—	—					
FBA140A2VEB	RZAG140N7Y1B	17.4	—	20	—	11.6	0.234	1.4	0.187	3.9	—	—					
FNA35A2VEB	x4 RZAG140N7Y1B	13.0	—	16	—	9.1	0.234	1.4	0.034 x4	0.5 x4	0.4 x4	0.3 x4					
FNA50A2VEB	x3 RZAG140N7Y1B	13.5	—	16	—	10.1	0.234	1.4	0.060 x3	0.5 x3	0.3 x3	0.3 x3					
FUA71AVEB9	x2 RZAG140N7Y1B	15.4	—	16	—	11.6	0.234	1.4	0.046 x2	0.9 x2	0.2 x2	0.2 x2					
FAA71BUV1B	x2 RZAG140N7Y1B	14.6	—	16	—	11.6	0.234	1.4	0.048 x2	0.5 x2	0.2 x2	0.2 x2					
FVA71AMVEB	x2 RZAG140N7Y1B	15.2	—	16	—	11.6	0.234	1.4	0.117 x2	0.8 x2	0.2 x2	0.2 x2					
FVA140AMVEB	RZAG140N7Y1B	15.4	—	16	—	11.6	0.234	1.4	0.276	1.8	—	—					
FDXM35F3V1B	x4 RZAG140N7Y1B	12.2	—	16	—	9.1	0.234	1.4	0.034 x4	0.3 x4	—	—					
FDXM50F3V1B	x3 RZAG140N7Y1B	14.8	—	16	—	10.1	0.234	1.4	0.060 x3	0.9 x3	0.4 x3	0.3 x3					
FHA35AVEB98	x4 RZAG140N7Y1B	13.4	—	16	—	9.1	0.234	1.4	0.090 x4	0.6 x4	0.4 x4	0.3 x4					
FHA50AVEB98	x3 RZAG140N7Y1B	13.8	—	16	—	10.1	0.234	1.4	0.090 x3	0.6 x3	0.3 x3	0.3 x3					
FHA17AVEB98	x2 RZAG140N7Y1B	15.2	—	16	—	11.6	0.234	1.4	0.110 x2	0.8 x2	—	—					
FHA140AVEB8	RZAG140N7Y1B	15.4	—	16	—	11.6	0.234	1.4	0.251	1.8	—	—					

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Indoor	Outdoor	Power supply	Voltage range	Compressor				OFM		IFM		
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FAH71HVEB	RZAG1N2Y1B	3N-50Hz 380-415V	Minimum: -342 V Maximum: -457 V	11.1	—	16	—	9.2	0.234	0.8	0.091	0.7
FCAG358VEB	x2 RZAG1N2Y1B			11.0	—	16	—	9.2	0.234	0.8	0.044 x2	0.3 x2
FCAG181VEB	RZAG1N2Y1B			10.8	—	16	—	9.2	0.234	0.8	0.054	0.4
FFA35A2VEB	x2 RZAG1N2Y1B			10.8	—	16	—	9.2	0.234	0.8	0.050 x2	0.2 x2
FBA35A2VEB	x2 RZAG1N2Y1B			13.2	—	16	—	9.2	0.234	0.8	0.089 x2	1.4 x2
FBA71A2VEB	RZAG1N2Y1B			11.7	—	16	—	9.2	0.234	0.8	0.070	1.3
FNA35A2VEB	x2 RZAG1N2Y1B			11.4	—	16	—	9.2	0.234	0.8	0.034 x2	0.5 x2
FUA71A1VEB9	RZAG1N2Y1B			11.3	—	16	—	9.2	0.234	0.8	0.046	0.9
FAA71BUV1B	RZAG1N2Y1B			10.9	—	16	—	9.2	0.234	0.8	0.048	0.5
FVA71AMVEB	RZAG1N2Y1B			11.2	—	16	—	9.2	0.234	0.8	0.117	0.8
FDXM35F3V1B	x2 RZAG1N2Y1B			11.0	—	16	—	9.2	0.234	0.8	0.034 x2	0.3 x2
FHA35AVEB98	x2 RZAG1N2Y1B			11.6	—	16	—	9.2	0.234	0.8	0.090 x2	0.6 x2
FHA71AVEB98	RZAG1N2Y1B	3N-50Hz 380-415V	Minimum: -342 V Maximum: -457 V	11.2	—	16	—	9.2	0.234	0.8	0.110	0.8
FAH610HVEB	RZAG100N2Y1B			14.9	—	16	—	11.8	0.234	1.2	0.221	1.3
FCAG358VEB	x3 RZAG100N2Y1B			13.0	—	16	—	10.4	0.234	1.2	0.044 x3	0.3 x3
FCAG508VEB	x2 RZAG100N2Y1B			12.7	—	16	—	10.4	0.234	1.2	0.039 x2	0.3 x2
FCAG100BVEB	RZAG100N2Y1B			14.2	—	16	—	11.8	0.234	1.2	0.117	0.7
FFA35A2VEB	x3 RZAG100N2Y1B			12.7	—	16	—	10.4	0.234	1.2	0.050 x3	0.2 x3
FFA50A2VEB	x2 RZAG100N2Y1B			12.9	—	16	—	10.4	0.234	1.2	0.050 x2	0.4 x2
FBA35A2VEB	x3 RZAG100N2Y1B			16.3	—	20	—	10.4	0.234	1.2	0.089 x3	1.4 x3
FBA50A2VEB	x2 RZAG100N2Y1B			14.9	—	16	—	10.4	0.234	1.2	0.089 x2	1.4 x2
FBA100A2VEB	RZAG100N2Y1B			17.0	—	20	—	11.8	0.234	1.2	0.127	3.5
FNA35A2VEB	x3 RZAG100N2Y1B			13.6	—	16	—	10.4	0.234	1.2	0.034 x3	0.5 x3
FNA50A2VEB	x2 RZAG100N2Y1B			13.1	—	16	—	10.4	0.234	1.2	0.060 x2	0.5 x2
FUA100AVEB9	RZAG100N2Y1B	3N-50Hz 380-415V	Minimum: -342 V Maximum: -457 V	14.9	—	16	—	11.8	0.234	1.2	0.106	1.3
FAA100BUV1B	RZAG100N2Y1B			14.4	—	16	—	11.8	0.234	1.2	0.064	0.9
FVA100AMVEB	RZAG100N2Y1B			15.1	—	16	—	11.8	0.234	1.2	0.238	1.5
FDXM35F3V1B	x3 RZAG100N2Y1B			13.0	—	16	—	10.4	0.234	1.2	0.034 x3	0.3 x3
FDXM50F3V1B	x2 RZAG100N2Y1B			13.9	—	16	—	10.4	0.234	1.2	0.060 x2	0.9 x2
FHA35AVEB98	x3 RZAG100N2Y1B			13.9	—	16	—	10.4	0.234	1.2	0.090 x3	0.6 x3
FHA50AVEB98	x2 RZAG100N2Y1B			13.3	—	16	—	10.4	0.234	1.2	0.090 x2	0.6 x2
FHA100AVEB8	RZAG100N2Y1B			14.9	—	16	—	11.8	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]

Indoor	Outdoor	Power supply	Voltage range	Compressor				OFM		IFM		
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FAH71HVEB	RZAG125N2Y1B	3N-50Hz 380-415V	Minimum: -342 V Maximum: -457 V	15.0	—	16	—	11.8	0.234	1.2	0.244	1.4
FCAG358VEB	x4 RZAG125N2Y1B			12.2	—	16	—	9.3	0.234	1.2	0.044 x4	0.3 x4
FCAG508VEB	x3 RZAG125N2Y1B			12.9	—	16	—	10.3	0.234	1.2	0.039 x3	0.3 x3
FCAG608VEB	x2 RZAG125N2Y1B			14.1	—	16	—	11.8	0.234	1.2	0.044 x2	0.3 x2
FAH35A2VEB	x4 RZAG125N2Y1B			14.6	—	16	—	11.8	0.234	1.2	0.168	1.0
FFA35A2VEB	x4 RZAG125N2Y1B			11.8	—	16	—	9.3	0.234	1.2	0.050 x4	0.2 x4
FFA50A2VEB	x3 RZAG125N2Y1B			13.2	—	16	—	10.3	0.234	1.2	0.050 x3	0.4 x3
FFA60A2VEB	x2 RZAG125N2Y1B			14.8	—	16	—	11.8	0.234	1.2	0.050 x2	0.6 x2
FBA35A2VEB	x4 RZAG125N2Y1B			16.5	—	20	—	9.3	0.234	1.2	0.089 x4	1.4 x4
FBA50A2VEB	x3 RZAG125N2Y1B			16.2	—	20	—	10.3	0.234	1.2	0.089 x3	1.4 x3
FBA60A2VEB	x2 RZAG125N2Y1B			16.1	—	20	—	11.8	0.234	1.2	0.070 x2	1.3 x2
FBA125A2VEB	RZAG125N2Y1B			17.4	—	20	—	11.8	0.234	1.2	0.187	3.9
FNA35A2VEB	x4 RZAG125N2Y1B	3N-50Hz 380-415V	Minimum: -342 V Maximum: -457 V	13.0	—	16	—	9.3	0.234	1.2	0.034 x4	0.5 x4
FNA50A2VEB	x3 RZAG125N2Y1B			13.5	—	16	—	10.3	0.234	1.2	0.060 x3	0.5 x3
FNA60A2VEB	x2 RZAG125N2Y1B			14.8	—	16	—	11.8	0.234	1.2	0.060 x2	0.6 x2
FUA125AVEB9	RZAG125N2Y1B			15.0	—	16	—	11.8	0.234	1.2	0.106	1.4
FDA125AVEB	RZAG125N2Y1B			15.7	—	16	—	11.8	0.234	1.2	0.350	2.1
FVA125AMVEB	RZAG125N2Y1B			15.1	—	16	—	11.8	0.234	1.2	0.238	1.5
FDXM35F3V1B	x4 RZAG125N2Y1B			12.2	—	16	—	9.3	0.234	1.2	0.034 x4	0.3 x4
FDXM50F3V1B	x3 RZAG125N2Y1B			14.8	—	16	—	10.3	0.234	1.2	0.060 x3	0.9 x3
FDXM60F3V1B	x2 RZAG125N2Y1B			15.4	—	16	—	11.8	0.234	1.2	0.060 x2	0.9 x2
FHA35AVEB98	x4 RZAG125N2Y1B			13.4	—	16	—	9.3	0.234	1.2	0.090 x4	0.6 x4
FHA50AVEB98	x3 RZAG125N2Y1B			13.8	—	16	—	10.3	0.234	1.2	0.090 x3	0.6 x3
FHA60AVEB98	x2 RZAG125N2Y1B			14.8	—	16	—	11.8	0.234	1.2	0.090 x2	0.6 x2
FHA125AVEB8	RZAG125N2Y1B	3N-50Hz 380-415V	Minimum: -342 V Maximum: -457 V	15.1	—	16	—	11.8	0.234	1.2	0.217	1.5
FAH71HVEB	x2 RZAG140N2Y1B			15.0	—	16	—	11.6	0.234	1.4	0.091 x2	0.7 x2
FAH610HVEB	RZAG140N2Y1B			15.0	—	16	—	11.6	0.234	1.4	0.244	1.4
FCAG358VEB	x4 RZAG140N2Y1B			12.2	—	16	—	9.1	0.234	1.4	0.044 x4	0.3 x4
FCAG508VEB	x3 RZAG140N2Y1B			12.9	—	16	—	10.1	0.234	1.4	0.039 x3	0.3 x3
FCAG71BVEB	x2 RZAG140N2Y1B			14.4	—	16	—	11.6	0.234	1.4	0.054 x2	0.4 x2
FCAG140BVEB	RZAG140N2Y1B			14.9	—	16	—	11.6	0.234	1.4	0.168	1.3
FFA35A2VEB	x4 RZAG140N2Y1B			11.8	—	16	—	9.1	0.234	1.4	0.050 x4	0.2 x4
FFA50A2VEB	x3 RZAG140N2Y1B			13.2	—	16	—	10.1	0.234	1.4	0.050 x3	0.4 x3
FBA35A2VEB	x4 RZAG140N2Y1B			16.5	—	20	—	9.1	0.234	1.4	0.089 x4	1.4 x4
FBA50A2VEB	x3 RZAG140N2Y1B			16.2	—	20	—	10.1	0.234	1.4	0.089 x3	1.4 x3
FBA71A2VEB	x2 RZAG140N2Y1B			16.1	—	20	—	11.6	0.234	1.4	0.070 x2	1.3 x2
FBA140A2VEB	RZAG140N2Y1B			17.4	—	20	—	11.6	0.234	1.4	0.187	3.9
FNA35A2VEB	x4 RZAG140N2Y1B	3N-50Hz 380-415V	Minimum: -342 V Maximum: -457 V	13.0	—	16	—	9.1	0.234	1.4	0.034 x4	0.5 x4
FNA50A2VEB	x3 RZAG140N2Y1B			13.5	—	16	—	10.1	0.234	1.4	0.060 x3	0.5 x3
FNA60A2VEB	x2 RZAG140N2Y1B			15.4	—	16	—	11.6	0.234	1.4	0.046 x2	0.9 x2
FUA71AVEB9	x2 RZAG140N2Y1B			14.6	—	16	—	11.6	0.234	1.4	0.048 x2	0.5 x2
FAA71BUV1B	x2 RZAG140N2Y1B			15.2	—	16	—	11.6	0.234	1.4	0.117 x2	0.8 x2
FVA71AMVEB	x2 RZAG140N2Y1B			15.4	—	16	—	11.6	0.234	1.4	0.276	1.8
FVA140AMVEB	RZAG140N2Y1B			12.2	—	16	—	9.1	0.234	1.4	0.034 x4	0.3 x4
FDXM35F3V1B	x4 RZAG140N2Y1B			14.8	—	16	—	10.1	0.234	1.4	0.060 x3	0.9 x3
FDXM50F3V1B	x3 RZAG140N2Y1B			13.4	—	16	—	9.1	0.234	1.4	0.090 x4	0.6 x4
FHA35AVEB98	x4 RZAG140N2Y1B			13.8	—	16	—	10.1	0.234	1.4	0.090 x3	0.6 x3
FHA50AVEB98	x3 RZAG140N2Y1B			15.2	—	16	—	11.6	0.234	1.4	0.110 x2	0.8 x2
FHA140AVEB8	RZAG140N2Y1B			15.4	—	16	—	11.6	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

- 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.

3 Electrical data

3 - 1 Electrical Data

RZAG71-140N7Y1

				Compressor					OFM		IFM	
Indoor	Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAGH100HVEB	RZAG71N7Y1B	3N-50Hz 380-415V	Minimum: -342 V- Maximum: -457 V-	11.8	—	16	—	9.2	0.234	0.8	0.221	1.3
FCAG35BVEB	x3 RZAG71N7Y1B			11.3	—	16	—	9.2	0.234	0.8	0.044 x3	0.3 x3
FCAG50BVEB	x2 RZAG71N7Y1B			11.0	—	16	—	9.2	0.234	0.8	0.039 x2	0.3 x2
FCAG100BVEB	RZAG71N7Y1B			11.1	—	16	—	9.2	0.234	0.8	0.117	0.7
FFA35A2VEB	x3 RZAG71N7Y1B			11.0	—	16	—	9.2	0.234	0.8	0.050 x3	0.2 x3
FFA50A2VEB	x2 RZAG71N7Y1B			11.2	—	16	—	9.2	0.234	0.8	0.050 x2	0.4 x2
FBA35A2VEB	x3 RZAG71N7Y1B			14.6	—	16	—	9.2	0.234	0.8	0.089 x3	1.4 x3
FBA50A2VEB	x2 RZAG71N7Y1B			13.2	—	16	—	9.2	0.234	0.8	0.089 x2	1.4 x2
FBA100A2VEB	RZAG71N7Y1B			13.9	—	16	—	9.2	0.234	0.8	0.127	3.5
FUA100AVEB9	RZAG71N7Y1B			11.8	—	16	—	9.2	0.234	0.8	0.106	1.3
FAA100BUV1B	RZAG71N7Y1B	3N-50Hz 380-415V	Minimum: -342 V- Maximum: -457 V-	11.3	—	16	—	9.2	0.234	0.8	0.064	0.9
FVA100AMVEB	RZAG71N7Y1B			12.0	—	16	—	9.2	0.234	0.8	0.238	1.5
FDXM35F3V1B	x3 RZAG71N7Y1B			11.3	—	16	—	9.2	0.234	0.8	0.034 x3	0.3 x3
FDXM50F3V1B	x2 RZAG71N7Y1B			12.3	—	16	—	9.2	0.234	0.8	0.060 x2	0.9 x2
FHA35AVEB98	x3 RZAG71N7Y1B			12.3	—	16	—	9.2	0.234	0.8	0.090 x3	0.6 x3
FHA50AVEB98	x2 RZAG71N7Y1B			11.6	—	16	—	9.2	0.234	0.8	0.090 x2	0.6 x2
FHA100AVEB8	RZAG71N7Y1B			11.8	—	16	—	9.2	0.234	0.8	0.172	1.3
FCAGH71HVEB	x2 RZAG100N7Y1B			13.5	—	16	—	10.4	0.234	1.2	0.091 x2	0.7 x2
FCAGH140HVEB	RZAG100N7Y1B			15.0	—	16	—	11.8	0.234	1.2	0.244	1.4
FCAG35BVEB	x4 RZAG100N7Y1B			13.3	—	16	—	10.4	0.234	1.2	0.044 x4	0.3 x4
FCAG50BVEB	x3 RZAG100N7Y1B	3N-50Hz 380-415V	Minimum: -342 V- Maximum: -457 V-	13.0	—	16	—	10.4	0.234	1.2	0.039 x3	0.3 x3
FCAG71BVEB	x2 RZAG100N7Y1B			12.9	—	16	—	10.4	0.234	1.2	0.054 x2	0.4 x2
FCAG140BVEB	RZAG100N7Y1B			14.9	—	16	—	11.8	0.234	1.2	0.168	1.3
FFA35A2VEB	x4 RZAG100N7Y1B			12.9	—	16	—	10.4	0.234	1.2	0.050 x4	0.8
FFA50A2VEB	x3 RZAG100N7Y1B			13.3	—	16	—	10.4	0.234	1.2	0.050 x3	0.4 x3
FBA35A2VEB	x4 RZAG100N7Y1B			17.7	—	20	—	10.4	0.234	1.2	0.089 x4	1.4 x4
FBA50A2VEB	x3 RZAG100N7Y1B			16.3	—	20	—	10.4	0.234	1.2	0.089 x3	1.4 x3
FBA71A2VEB	x2 RZAG100N7Y1B			14.7	—	16	—	10.4	0.234	1.2	0.070 x2	1.3 x2
FBA140A2VEB	RZAG100N7Y1B			17.4	—	20	—	11.8	0.234	1.2	0.187	3.9
FUA71AVEB9	x2 RZAG100N7Y1B			13.9	—	16	—	10.4	0.234	1.2	0.046 x2	0.9 x2
FAA71BUV1B	x2 RZAG100N7Y1B	3N-50Hz 380-415V	Minimum: -342 V- Maximum: -457 V-	13.1	—	16	—	10.4	0.234	1.2	0.048 x2	0.5 x2
FVA140AMVEB	RZAG100N7Y1B			15.4	—	16	—	11.8	0.234	1.2	0.276	1.8
FDXM35F3V1B	x4 RZAG100N7Y1B			13.3	—	16	—	10.4	0.234	1.2	0.034 x4	0.3 x4
FDXM50F3V1B	x3 RZAG100N7Y1B			14.9	—	16	—	10.4	0.234	1.2	0.060 x3	0.9 x3
FHA35AVEB98	x4 RZAG100N7Y1B			14.6	—	16	—	10.4	0.234	1.2	0.090 x4	0.6 x4
FHA50AVEB98	x3 RZAG100N7Y1B			13.9	—	16	—	10.4	0.234	1.2	0.090 x3	0.6 x3
FHA71AVEB98	x2 RZAG100N7Y1B			13.7	—	16	—	10.4	0.234	1.2	0.110 x2	0.8 x2
FHA140AVEB8	RZAG100N7Y1B			15.4	—	16	—	11.8	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 RZAG125N7Y1B	3N-60Hz 380-415V	Minimum: -342 V- Maximum: -457 V-	15.0	—	16	—	11.8	0.234	1.2	0.091 x2	0.7 x2
FCAG140HVEB	RZAG125N7Y1B			15.0	—	16	—	11.8	0.234	1.2	0.244	1.4
FCAG35BVEB	x4 RZAG125N7Y1B			12.2	—	16	—	9.3	0.234	1.2	0.044 x4	0.3 x4
FCAG50BVEB	x3 RZAG125N7Y1B			12.9	—	16	—	10.3	0.234	1.2	0.039 x3	0.3 x3
FCAG71BVEB	x2 RZAG125N7Y1B			14.4	—	16	—	11.8	0.234	1.2	0.054 x2	0.4 x2
FCAG140BVEB	RZAG125N7Y1B			14.9	—	16	—	11.8	0.234	1.2	0.168	1.3
FFA35A2VEB	x4 RZAG125N7Y1B			11.8	—	16	—	9.3	0.234	1.2	0.050 x4	0.2 x4
FFA50A2VEB	x3 RZAG125N7Y1B			13.2	—	16	—	10.3	0.234	1.2	0.050 x3	0.4 x3
FBA35A2VEB	x4 RZAG125N7Y1B			16.5	—	20	—	9.3	0.234	1.2	0.089 x4	1.4 x4
FBA50A2VEB	x3 RZAG125N7Y1B			16.2	—	20	—	10.3	0.234	1.2	0.089 x3	1.4 x3
FBA71A2VEB	x2 RZAG125N7Y1B	3N-60Hz 380-415V	Minimum: -342 V- Maximum: -457 V-	16.1	—	20	—	11.8	0.234	1.2	0.070 x2	1.3 x2
FBA140A2VEB	RZAG125N7Y1B			17.4	—	20	—	11.8	0.234	1.2	0.187	3.9
FUA71AVEB9	x2 RZAG125N7Y1B			15.4	—	16	—	11.8	0.234	1.2	0.046 x2	0.9 x2
FAA71BUV1B	x2 RZAG125N7Y1B			14.6	—	16	—	11.8	0.234	1.2	0.048 x2	0.5 x2
FVA140AMVEB9	RZAG125N7Y1B			15.4	—	16	—	11.8	0.234	1.2	0.276	1.8
FDXM35F3V1B	x4 RZAG125N7Y1B			12.2	—	16	—	9.3	0.234	1.2	0.034 x4	0.3 x4
FDXM50F3V1B	x3 RZAG125N7Y1B			14.8	—	16	—	10.3	0.234	1.2	0.060 x3	0.9 x3
FHA35AVEB98	x4 RZAG125N7Y1B			13.4	—	16	—	9.3	0.234	1.2	0.090 x4	0.6 x4
FHA50AVEB98	x3 RZAG125N7Y1B			13.8	—	16	—	10.3	0.234	1.2	0.090 x3	0.6 x3
FHA71AVEB98	x2 RZAG125N7Y1B			15.2	—	16	—	11.8	0.234	1.2	0.110 x2	0.8 x2
FHA140AVEB8	RZAG125N7Y1B	3N-60Hz 380-415V	Minimum: -342 V- Maximum: -457 V-	15.4	—	16	—	11.8	0.234	1.2	0.251	1.8
FCAGH71HVEB	x2 RZAG140N7Y1B			15.0	—	16	—	11.6	0.234	1.4	0.091 x2	0.7 x2
FCAG140HVEB	RZAG140N7Y1B			15.0	—	16	—	11.6	0.234	1.4	0.244	1.4
FCAG35BVEB	x4 RZAG140N7Y1B			12.2	—	16	—	9.1	0.234	1.4	0.044 x4	0.3 x4
FCAG50BVEB	x3 RZAG140N7Y1B			12.9	—	16	—	10.1	0.234	1.4	0.039 x3	0.3 x3
FCAG71BVEB	x2 RZAG140N7Y1B			14.4	—	16	—	11.6	0.234	1.4	0.054 x2	0.4 x2
FCAG140BVEB	RZAG140N7Y1B			14.9	—	16	—	11.6	0.234	1.4	0.168	1.3
FFA35A2VEB	x4 RZAG140N7Y1B			11.8	—	16	—	9.1	0.234	1.4	0.050 x4	0.2 x4
FFA50A2VEB	x3 RZAG140N7Y1B			13.2	—	16	—	10.1	0.234	1.4	0.050 x3	0.4 x3
FBA35A2VEB	x4 RZAG140N7Y1B			16.5	—	20	—	9.1	0.234	1.4	0.089 x4	1.4 x4
FBA50A2VEB	x3 RZAG140N7Y1B	3N-60Hz 380-415V	Minimum: -342 V- Maximum: -457 V-	16.2	—	20	—	10.1	0.234	1.4	0.089 x3	1.4 x3
FBA71A2VEB	x2 RZAG140N7Y1B			16.1	—	20	—	11.6	0.234	1.4	0.070 x2	1.3 x2
FBA140A2VEB	RZAG140N7Y1B			17.4	—	20	—	11.6	0.234	1.4	0.187	3.9
FUA71AVEB9	x2 RZAG140N7Y1B			15.4	—	16	—	11.6	0.234	1.4	0.046 x2	0.9 x2
FAA71BUV1B	x2 RZAG140N7Y1B			14.6	—	16	—	11.6	0.234	1.4	0.048 x2	0.5 x2
FVA140AMVEB	RZAG140N7Y1B			15.4	—	16	—	11.6	0.234	1.4	0.276	1.8
FDXM35F3V1B	x4 RZAG140N7Y1B			12.2	—	16	—	9.1	0.234	1.4	0.034 x4	0.3 x4
FDXM50F3V1B	x3 RZAG140N7Y1B			14.8	—	16	—	10.1	0.234	1.4	0.060 x3	0.9 x3
FHA35AVEB98	x4 RZAG140N7Y1B			13.4	—	16	—	9.1	0.234	1.4	0.090 x4	0.6 x4
FHA50AVEB98	x3 RZAG140N7Y1B			13.8	—	16	—	10.1	0.234	1.4	0.090 x3	0.6 x3
FHA71AVEB98	x2 RZAG140N7Y1B	3N-60Hz 380-415V	Minimum: -342 V- Maximum: -457 V-	15.2	—	16	—	11.6	0.234	1.4	0.110 x2	0.8 x2
FHA140AVEB8	RZAG140N7Y1B			15.4	—	16	—	11.6	0.234	1.4	0.251	1.8

3D120944F

RZAG71-140N2Y1

Indoor	Outdoor	Power supply	Voltage range	Compressor					OFM		IFM	
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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				3	2		3	2		P			3	2			3	2			P			P			
RZAG125N*Y1B				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*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	FAA71BUB1B	FAA100BUB1B	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.

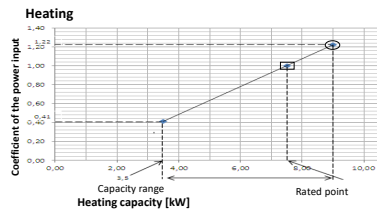
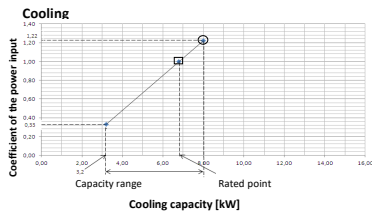
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Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG71NV1

RZAG71NY1



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

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
		kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
16.0	22	8.03	5.45	1.00	7.76	5.32	1.11	7.48	5.20	1.21	7.21	5.06	1.32
18.0	25	8.40	5.45	1.00	8.11	5.32	1.11	7.83	5.19	1.22	7.54	5.05	1.33
19.0	27	8.59	5.44	1.01	8.30	5.32	1.12	8.00	5.18	1.22	7.70	5.05	1.33
19.5	27	8.68	5.43	1.01	8.39	5.31	1.12	8.09	5.17	1.22	7.79	5.05	1.33
22.0	30	9.15	5.38	1.01	8.84	5.25	1.12	8.52	5.13	1.23	8.21	4.99	1.34
24.0	32	9.53	5.31	1.03	9.20	5.19	1.13	8.87	5.06	1.25	8.54	4.92	1.35

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
 = $0.02 \times \text{AFR (m³/min)} \times (1 - \text{BF}) \times (\text{DB*} - \text{EDB})$
- 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.

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
		kW	-	-	kW	-	-	kW	-	-	kW	-	-
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	FCAG71H	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	FCAG71H	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

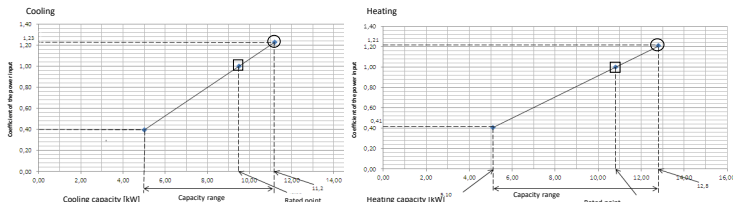
Performance characteristics for -EDP- room

Indoor		Outdoor temperature [°C DB]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		-20				-15				-10				-5				0				5				10				15				20				25				30				35				40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
RH [%]	°CWB	°CDB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG100NV1 RZAG100NY1



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)			Capacity range			Rated point			Heating capacity		
		Outdoor temperature (°C DB)											
Indoor		25			30			35			40		
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
[°C WB]	TC	kW	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	7.52	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											
		Outdoor temperature (°C WB)											
		-15			-10			-5			0		
TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI		
TC DBI	kW			kW			kW			kW			
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	FDXMS3F 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	FDXMS3F 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																																										
41.8	11	18	6.00	6.00	0.32	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39	8.36	7.98	1.00	7.92	7.72	1.10	7.48	7.43	1.20	7.09	7.15	1.21	8.45	6.88	1.13
57.0	13		7.48	6.37	0.42	7.48	6.37	0.42	7.48	6.37	0.44	7.48	6.37	0.45	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.46	9.71	7.67	1.00	9.30	7.42	1.11	8.90	7.16	1.21	8.45	6.88	1.13			
31.4	11	20	6.00	6.00	0.32	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39	8.36	7.98	1.00	7.92	7.72	1.10	7.48	7.48	1.20	7.09	7.09	1.21			
44.9	13		7.48	7.25	0.42	7.48	7.25	0.42	7.48	7.25	0.44	7.48	7.25	0.45	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.46	9.71	8.53	1.00	9.30	8.28	1.11	8.90	8.01	1.21	8.45	6.74	1.13			
52.0	14		8.22	7.18	0.46	8.22	7.18	0.47	8.22	7.18	0.48	8.22	7.18	0.49	8.22	7.18	0.51	8.22	7.18	0.50	8.22	7.18	0.50	8.22	7.18	0.49	8.22	7.18	0.49	10.50	8.45	1.01	10.23	8.31	1.11	9.96	8.41	1.21	9.68	7.88	1.14			
22.9	11	22	6.00	6.00	0.32	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39	8.36	7.98	1.00	7.92	7.72	1.10	7.48	7.48	1.20	7.09	7.09	1.21			
34.8	13		7.48	7.48	0.42	7.48	7.48	0.42	7.48	7.48	0.44	7.48	7.48	0.45	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.46	9.71	9.71	1.00	9.30	9.30	1.11	8.90	8.90	1.21	8.45	8.45	1.13			
47.6	15		8.96	7.82	0.51	8.96	7.82	0.52	8.96	7.82	0.53	8.96	7.82	0.54	8.96	7.82	0.55	8.96	7.82	0.54	8.96	7.82	0.54	8.96	7.82	0.54	8.96	7.82	0.54	11.84	9.72	1.01	10.89	8.96	1.11	10.51	8.72	1.22	10.12	8.48	1.13			
54.3	16		9.70	7.54	0.56	9.70	7.54	0.56	9.70	7.54	0.58	9.70	7.54	0.59	9.70	7.54	0.60	9.70	7.54	0.59	9.70	7.54	0.59	9.70	7.54	0.59	9.70	7.54	0.59	12.86	10.41	1.01	11.40	10.41	1.11	11.03	8.04	1.22	10.58	7.77	1.13			
21.2	12	24	6.74	6.74	0.37	6.74	6.74	0.38	6.74	6.74	0.39	6.74	6.74	0.40	6.74	6.74	0.41	6.74	6.74	0.42	6.74	6.74	0.42	6.74	6.74	0.42	6.74	6.74	0.42	9.04	9.04	1.00	8.61	8.61	1.10	8.19	8.19	1.21	7.77	7.77	1.13			
32.1	14		8.22	8.22	0.46	8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.50	8.22	8.22	0.49	8.22	8.22	0.49	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.13			
43.8	16		9.70	8.68	0.56	9.70	8.68	0.56	9.70	8.68	0.58	9.70	8.68	0.59	9.70	8.68	0.60	9.70	8.68	0.59	9.70	8.68	0.59	9.70	8.68	0.58	9.70	8.68	0.58	11.84	9.74	1.01	11.40	9.51	1.12	11.03	9.32	1.22	10.58	9.06	1.13			
50.0	17		9.98	7.86	0.57	9.98	7.86	0.58	9.98	7.86	0.59	9.98	7.86	0.60	9.98	7.86	0.61	9.98	7.86	0.60	9.98	7.86	0.60	9.98	7.86	0.59	9.98	7.86	0.59	12.86	10.45	1.02	11.86	9.16	1.12	11.33	8.86	1.22	10.80	8.52	1.13			
21.5	14	27	8.22	8.22	0.46	8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.50	8.22	8.22	0.49	8.22	8.22	0.49	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.13			
26.3	15		8.96	8.96	0.51	8.96	8.96	0.52	8.96	8.96	0.53	8.96	8.96	0.54	8.96	8.96	0.55	8.96	8.96	0.54	8.96	8.96	0.54	8.96	8.96	0.53	8.96	8.96	0.53	11.84	11.84	1.01	10.89	10.89	1.11	10.51	10.51	1.22	10.12	10.12	1.13			
31.3	16		9.70	9.70	0.56	9.70	9.70	0.56	9.70	9.70	0.58	9.70	9.70	0.59	9.70	9.70	0.60	9.70	9.70	0.59	9.70	9.70	0.59	9.70	9.70	0.58	9.70	9.70	0.58	12.86	12.86	1.01	11.40	11.40	1.12	11.03	11.03	1.22	10.58	10.58	1.13			

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	FUA140A
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	FDXMS3F x 4	FBA35A x 4
Cooling	2.00	2.01	2.12	2.00	2.18	

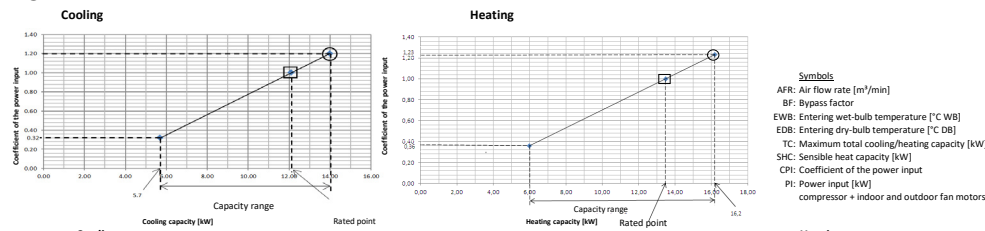
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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG125NV1

RZAG125NY1



Cooling													
Indoor		Outdoor Temperature (°C DB)											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°C/kW	°C/kW	°C/kW	°C/kW	°C/kW	°C/kW	°C/kW	°C/kW	°C/kW	°C/kW	°C/kW	°C/kW	°C/kW	
16.0	22	14.10	9.54	0.99	13.60	9.00	1.08	11.10	9.12	1.10	12.60	8.78	1.29
18.0	25	14.70	10.00	1.00	14.20	9.32	1.09	13.70	9.60	1.20	13.20	8.83	1.30
20.0	27	15.20	10.52	1.02	14.60	9.68	1.11	14.00	9.83	1.20	13.60	8.87	1.31
19.5	27	15.21	10.51	1.00	14.68	9.28	1.11	14.13	9.08	1.20	13.64	8.81	1.31
22.0	30	16.00	9.89	1.00	15.47	9.14	1.11	14.90	8.95	1.21	14.38	8.74	1.32
24.0	32	16.70	9.31	1.01	16.30	9.09	1.10	15.90	8.83	1.23	14.97	8.63	1.33

Heating													
indoor		Outdoor temperature (°C WB)											
		-15.0		-10.0		-5.0		0.0		6.0		10.0	
		TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	-	kW	-	kW	-	kW	-	kW	-	kW	-	kW
16	11.0	0.94	121	1.00	129	1.03	132	1.06	16.2	1.13	175	1.20	175
18	11.0	0.98	121	1.03	129	1.08	132	1.11	16.2	1.18	175	1.25	175
20	11.0	0.92	120	1.05	129	1.13	132	1.16	16.2	1.23	175	1.31	175
21	11.0	1.04	120	1.10	128	1.14	132	1.17	16.2	1.26	175	1.35	175
22	11.0	1.06	120	1.12	128	1.16	132	1.20	16.2	1.28	174	1.34	175
23	11.0	1.08	120	1.14	128	1.18	132	1.22	16.2	1.30	174	1.36	175

- Notes
- The ratings shown are net capacities which include a correction for indoor fan motor heat.
 - $\odot$ = Maximum at standard conditions
 - $\square$ = Rated capacity and rated coefficient of the power inputThe maximum capacity is not guaranteed except at standard conditions.
 - SHC = Based on indoor units - EWB & EDB.
 - SHC for other dry-bulb temperatures = $SHC + SHC^*$
 - $SHC^* = SHC$, correction for other dry-bulb temperatures
 $= 0.02 \times AFR (m^3/min) \times (1-BF) \times (DB^* - DB)$
 - 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
 - Corresponding refrigerant piping length: 5.0 m
 - Level difference: 0 m
 - COP is a percentage value compared to the rated value which is 1.00.
 - The error rate for the 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.

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

Pair	FCAG125H	FCAG125B	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
AFR (BF)	33.5 (0.19)	26.0 (0.21)	39.0 (0.16)	28.0 (0.16)	31.0 (0.14)	32.5 (0.19)	34.0 (0.06)

Pair	FCAG125H	FCAG125B	FDA125A	FAK125A	FHA125A	FUA125A	FBA125A
Cooling	3.15	3.65	3.73	3.77	3.56	4.00	3.70
Heating	3.08	3.82	3.26	3.84	3.36	3.40	3.15

Twins						
	FCAGG00 x 2	SHAG00 x 2	FFAG00 x 2	FOXMG00 x 2	FBAG00 x 2	FNAG00 x 2
AFR	13.6 x 2	29.5 x 2	34.5 x 2	16.0 x 2	18.0 x 2	16.0 x 2
(BF)	(0.20 x 2)	(0.20 x 2)	(0.11 x 2)	(0.12 x 2)	(0.18 x 2)	(0.12 x 2)

Twin	PCAG608 X 2	FHAGA X 2	FFAGA X 2	FD0002F X 2	FBAGA X 2	FRAGA X 2
Cooling	3,48	3,62	4,68	3,56	3,61	3,56
Heating	3,49	3,27	3,58	3,03	2,82	3,04

Triple						
	FCAGS3 X 2	IRAGS3 X 2	FFAS3 X 2	FOXMS3 X 2	FBAS3 X 2	IRAGS3 X 2
AFR (BF)	12.6 ± 3 (0.22 ± 3)	15.0 ± 3 (0.18 ± 3)	12.0 ± 3 (0.16 ± 3)	15.8 ± 3 (0.11 ± 3)	15.0 ± 3 (0.13 ± 3)	16.0 ± 3 (0.11 ± 3)

Triple						
	FCAGSDA X 2	FHASDA X 2	FFASDA X 2	FDMGSDX X 2	FBASDA X 2	FNASDA X 2
Cooling	3,15	3,50	3,88	3,24	3,53	3,14
Heatline	2,86	2,73	3,19	2,46	2,69	2,53

Double twin						
	FCAG2GB x 6	PAAG2GA x 6	FAAG2GA x 4	FDHM2GF x 6	FAAG2GA x 6	PAAG2GA x 6
AIR	12.5 x 4	14.0 x 4	10.0 x 4	8.7 x 4	15.0 x 4	8.7 x 4

	FCAG35 X 4	FHA35A X 4	FHA35A X 6	FDHM25F X 4	FHA35A X 6	FHA35A X 6
Cooling	2,64	3,05	3,36	3,38	3,10	3,38

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RZAG125NV1

RZAG125NY1

Performance characteristics for ·EDP· room

[illegible]

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

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

Pair	FCAHG140H	FCAG140B	FVA140A	FHA140A	FBA140A
Cooling	3.09	3.07	3.17	3.05	2.99

Twin	FCAHG71Hx2	FCAG71Bx2	FHA71Ax2	FUA71Ax2	FAA71Bx2	FBA71Ax2
Cooling	2.57	2.79	2.68	2.69	2.88	2.64

Triple	FCAG50Bx3	FHA50Ax3	FFA50Ax3	FDXM50Fx3	FBA50Ax3
Cooling	2.57	2.70	2.07	2.36	2.74

Double	FCAG35Bx4	FHA35Ax4	FFA35Ax4	FDXM35Fx4	FBA35Ax4
Cooling	2.51	2.45	2.71	2.55	2.96

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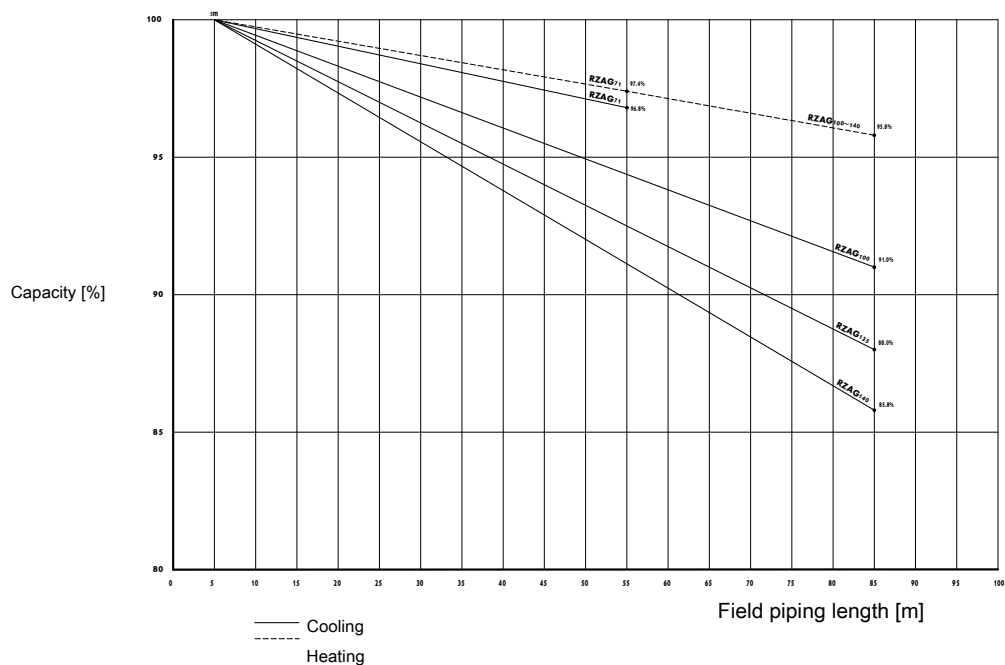
6 Capacity tables

6 - 2 Capacity Correction Factor

RZAG-NV1
RZAG-NY1

6

Capacity in function of field piping length



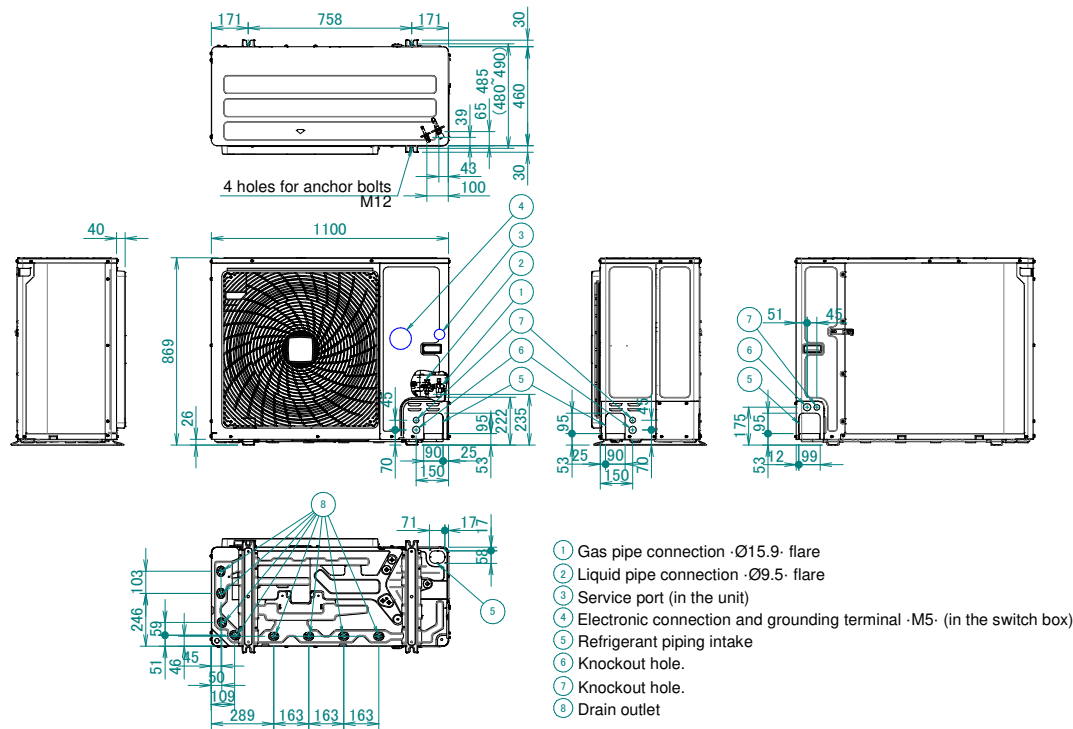
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7 Dimensional drawings

7 - 1 Dimensional Drawings

RZAG-NV1

RZAG-NY1



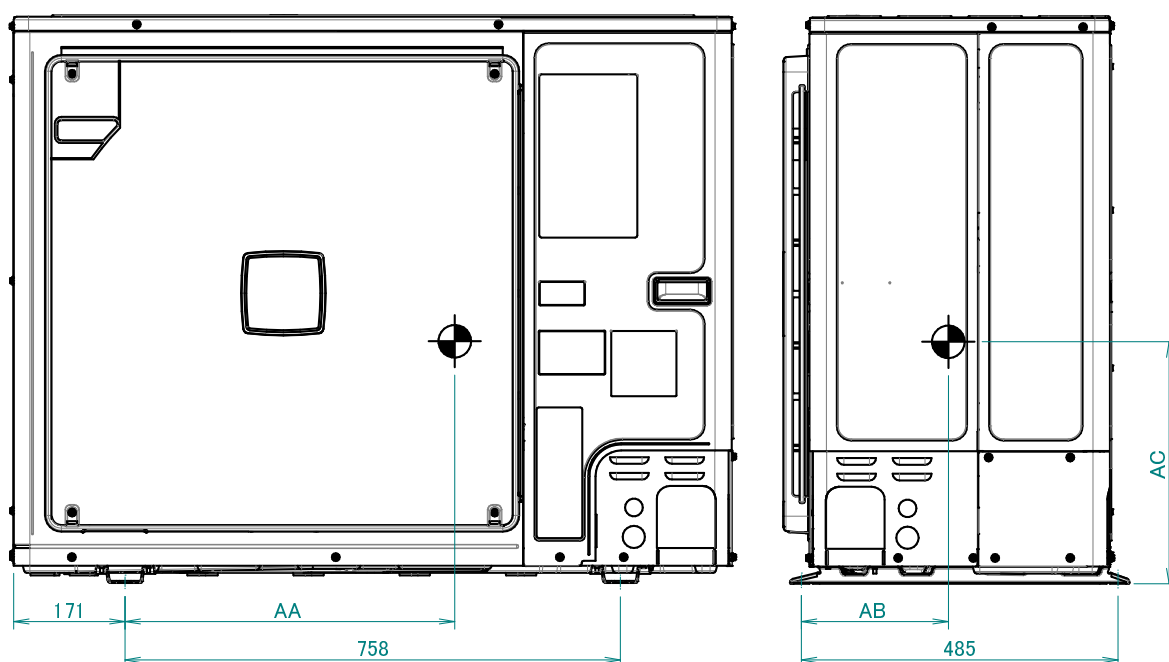
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8 Centre of gravity

8 - 1 Centre of Gravity

RZAG-NV1

RZAG-NY1



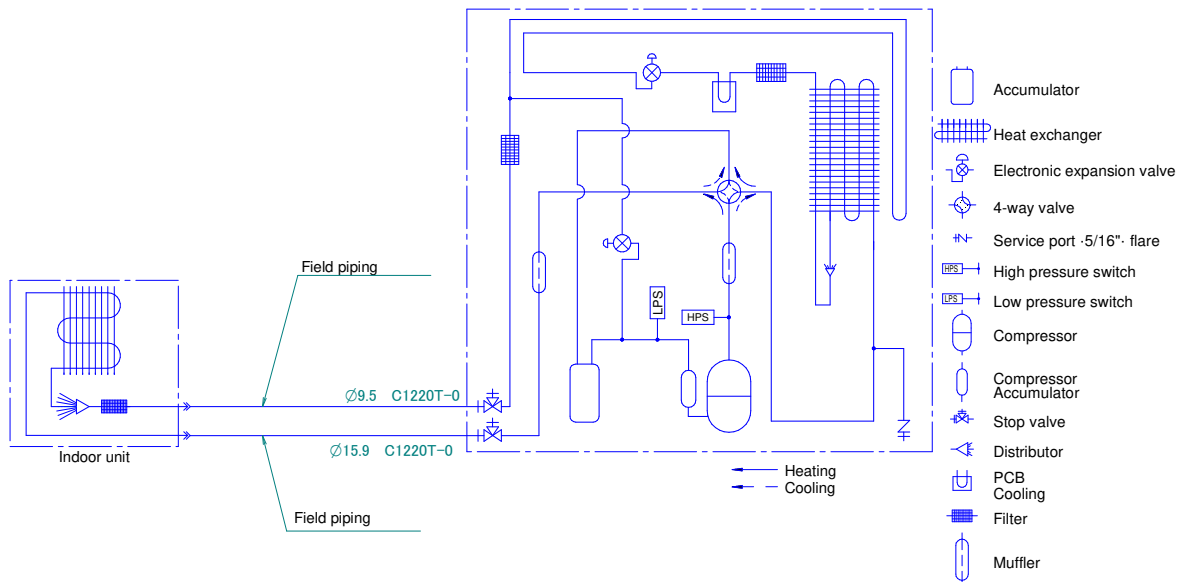
Model	AA	AB	AC
RZAG71N2/7V1B	520.3	238.7	357.8
RZAG71N2/7Y1B	525.9	224.7	359.8
RZAG100N2/7V1B	499.7	239.3	367.6
RZAG100N2/7Y1B	511.2	223.5	362.5
RZAG125/140N2/7V1B	486.3	229.2	371.8
RZAG125/140N2/7Y1B	493.4	215.8	372.2
RXYSA4/5/6A7V1B	530.4	249.9	389.0
RXYSA4/5/6A7Y1B			

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9 Piping diagrams

9 - 1 Piping Diagrams

RZAG-NV1
RZAG-NY1



Notes

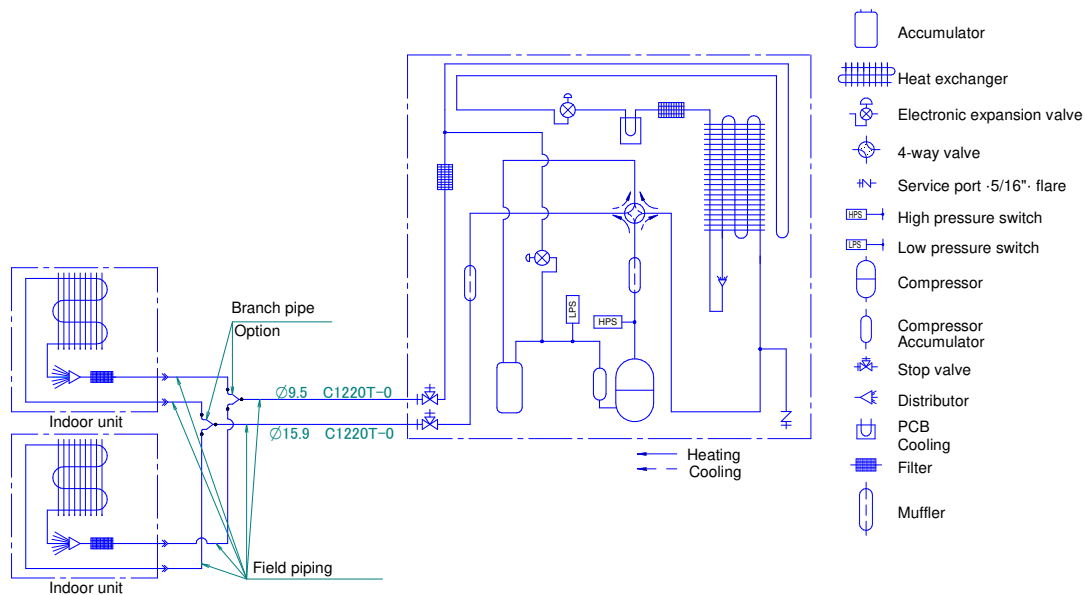
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

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9 Piping diagrams

9 - 2 Piping Diagram Twin Application

9

RZAG-NV1
RZAG-NY1


Notes

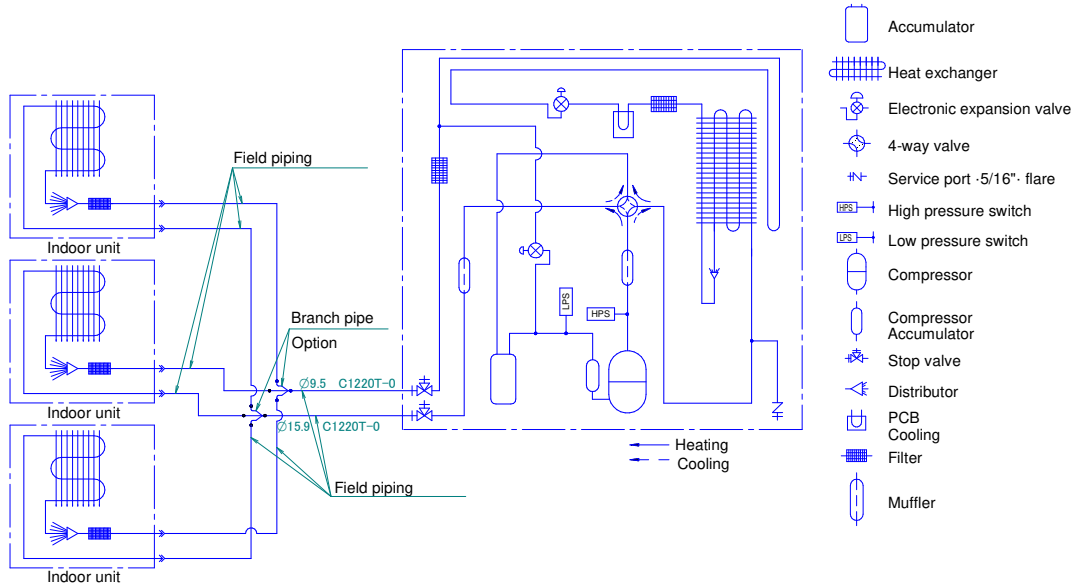
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

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9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZAG100-140NV1
RZAG100-140NY1



Notes

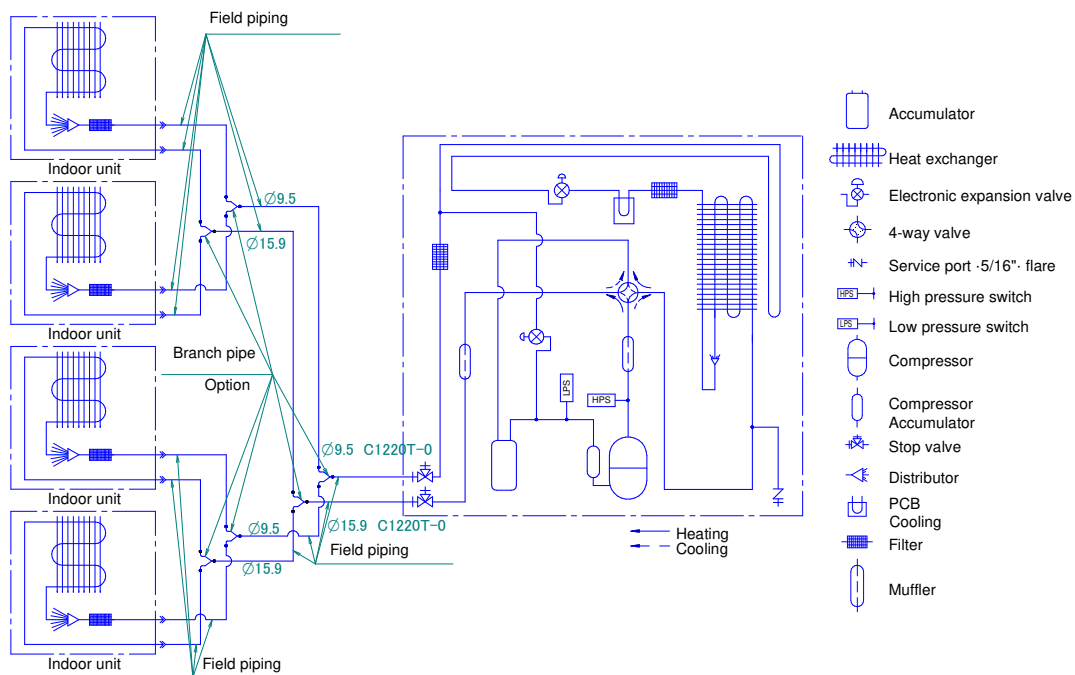
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

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9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZAG125-140NV1
RZAG125-140NY1



Notes

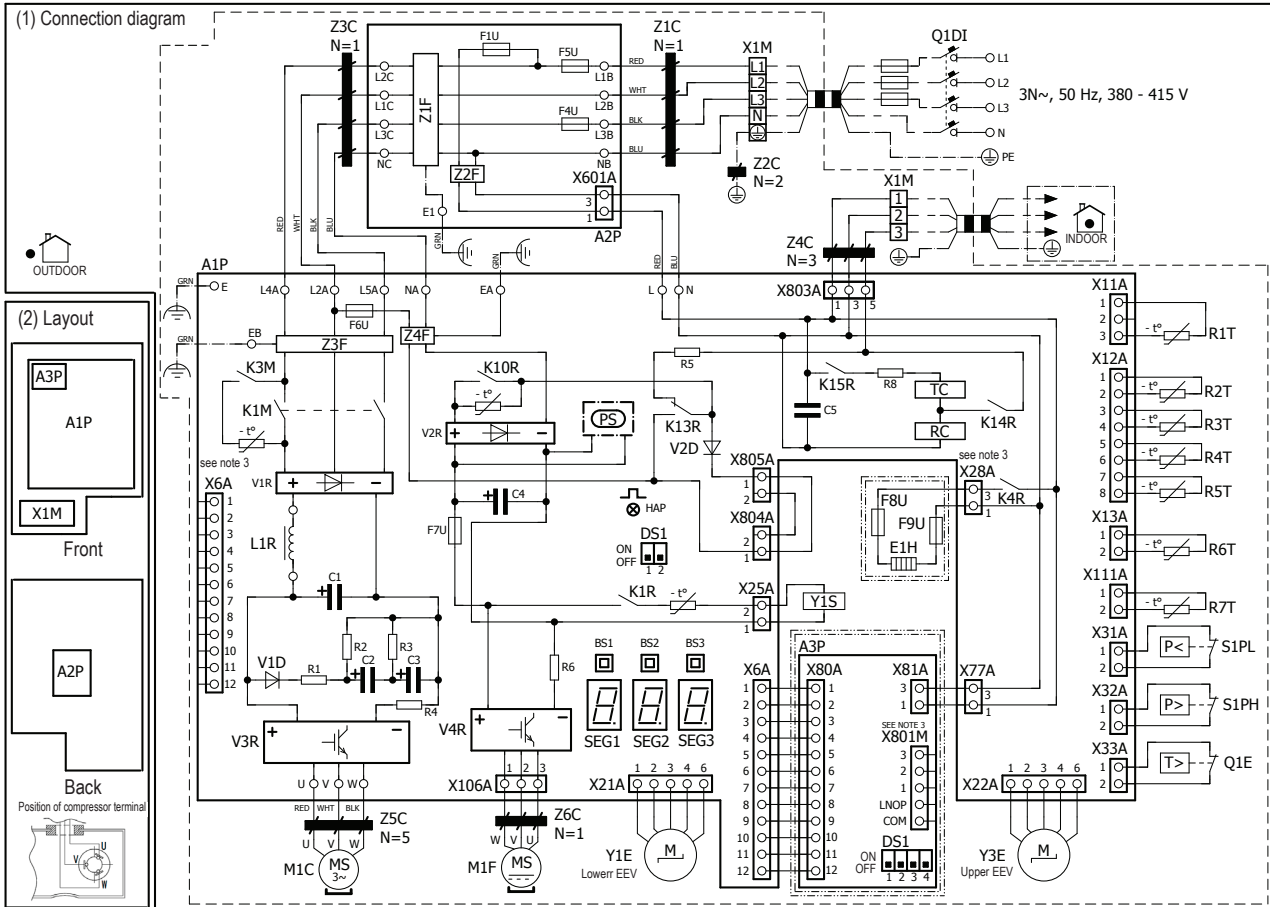
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

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10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

RZAG-NY1



10

(3) NOTES

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

(4) LEGEND

Part n°	Description
A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
A3P	* Printed circuit board (demand)
BS1-3 (A1P)	Push-button switch
C1-C5 (A1P)	Capacitor
DS1 (A1P, A3P)	Dipswitch
E1H	* Bottom plate heater
F1U (A2P)	Fuse T 6,3 A 250 V
F4U, F5U (A2P)	Fuse T 30 A 500 V
F6U (A1P)	Fuse T 6,3 A 250 V
F7U (A1P)	Fuse T 5 A 250 V
F8U, F9U	* Fuse F 1 A 250 V
HAP (A1P)	Light-emitting diode (service monitor is green)
K1M, K3M (A1P)	Magnetic contactor
K1R (A1P)	Magnetic relay (Y1S)
K4R (A1P)	Magnetic relay (E1H)
K10R	Magnetic relay
K13R-K15R (A1P)	Magnetic relay
L1R	Reactor
M1C	Compressor motor
M1F	Fan motor
PS (A1P)	Switching power supply
Q1DI	Earth leakage circuit breaker (30mA)

Part n°	Description
Q1E	Overload protection
R1-R6, R8 (A1P)	Resistor
R1T	Thermistor (air)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger)
R5T	Thermistor (heat exchanger middle)
R6T	Thermistor (liquid)
R7T	Thermistor (fin)
RC (A1P)	Signal receiver circuit
S1PH	High pressure switch
S1PL	Low pressure switch
SEG1-SEG3 (A1P)	7-segment display
TC (A1P)	Signal transmission circuit
V1D, V2D (A1P)	Diode
V1R, V2R (A1P)	Diode module
V3R, V4R (A1P)	IGBT power module
X1M	Terminal strip
Y1E, Y3E	Electronic expansion valve
Y1S	Solenoid valve (4-way valve)
Z1C-Z6C	Noise filter (ferrite core)
Z1F-Z4F (A1P-A2P)	Noise filter
L*A, L*B, NA, NB E*, U, V, W, X*A (A1P, A2P)	Connector

* : 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

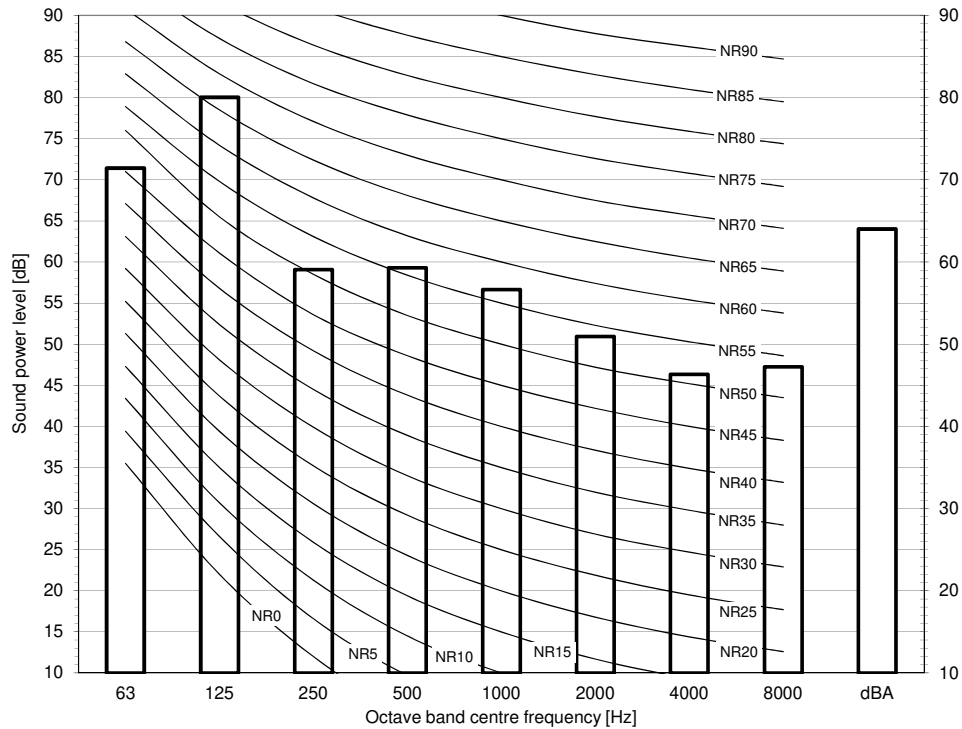
4D120911

11 Sound data

11 - 1 Sound Power Spectrum

RZAG71NV1

RZAG71NY1



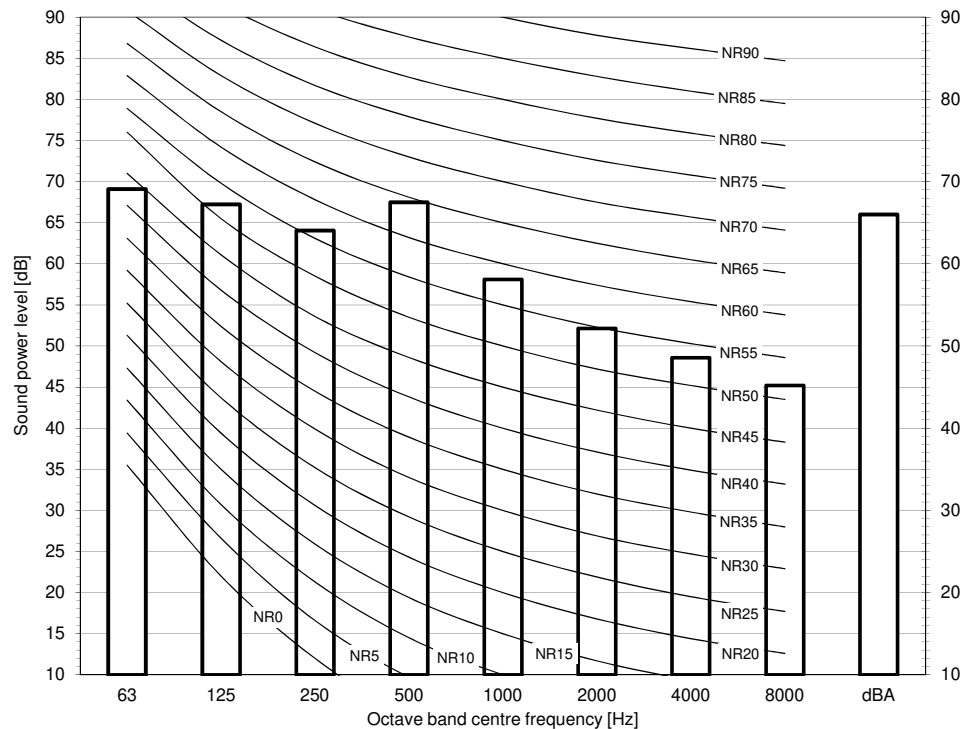
Notes

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

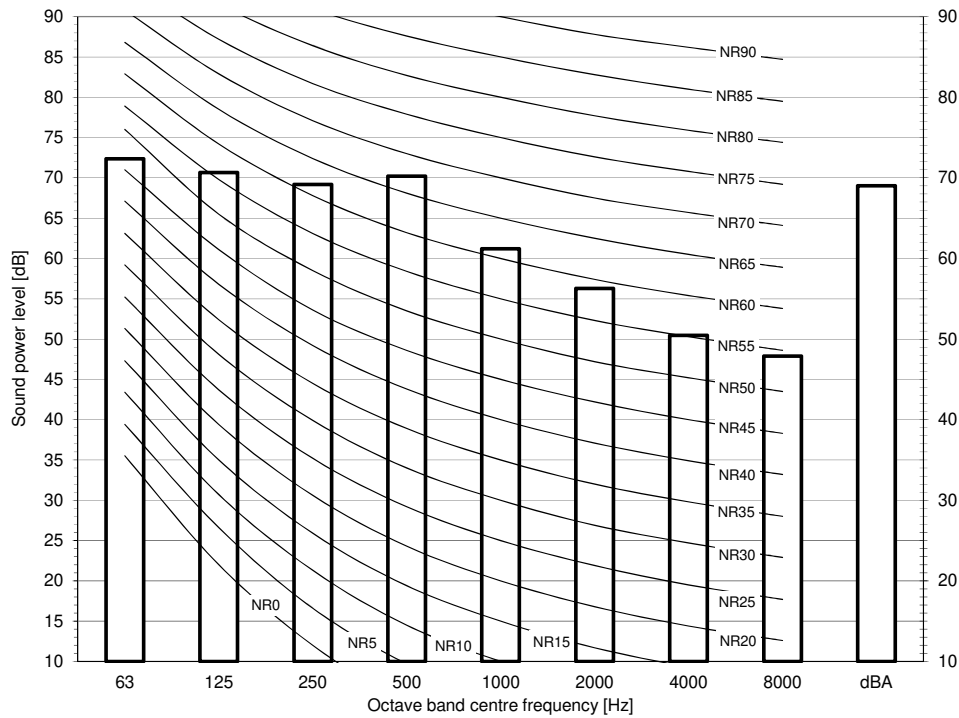
3D125155

11 Sound data

11 - 1 Sound Power Spectrum

RZAG125NV1

RZAG125NY1



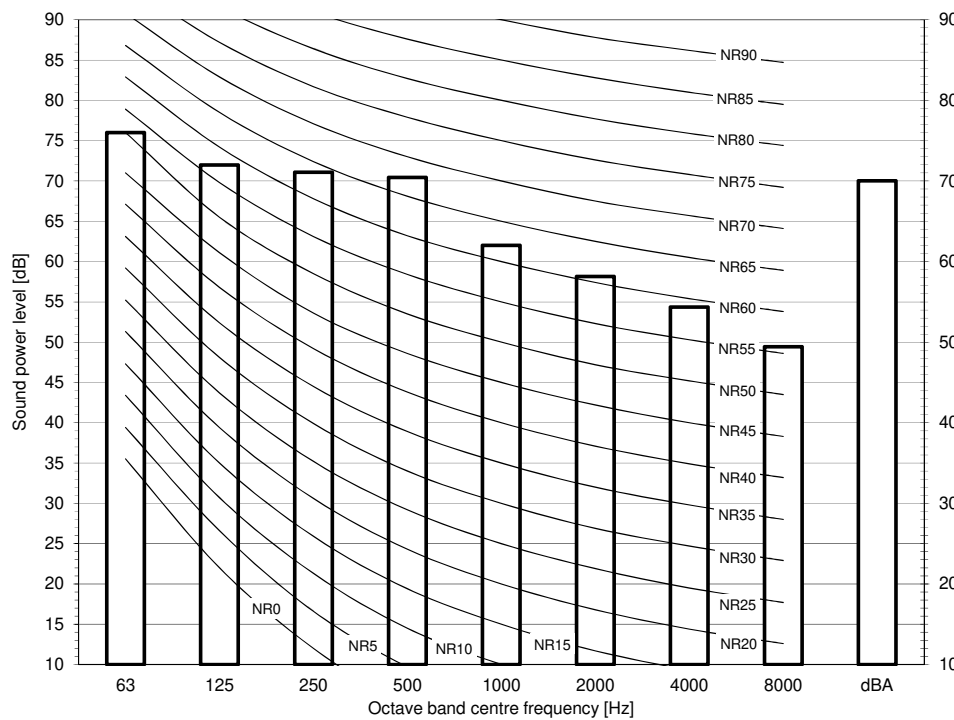
Notes

- 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

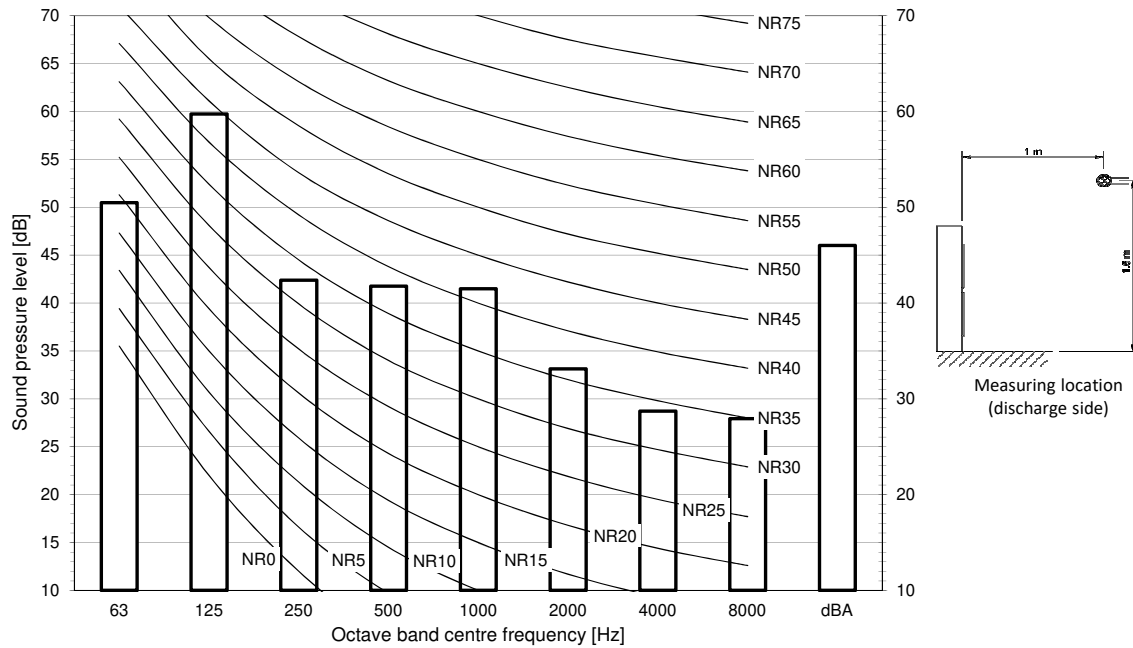
3D125167

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZAG71NV1

RZAG71NY1



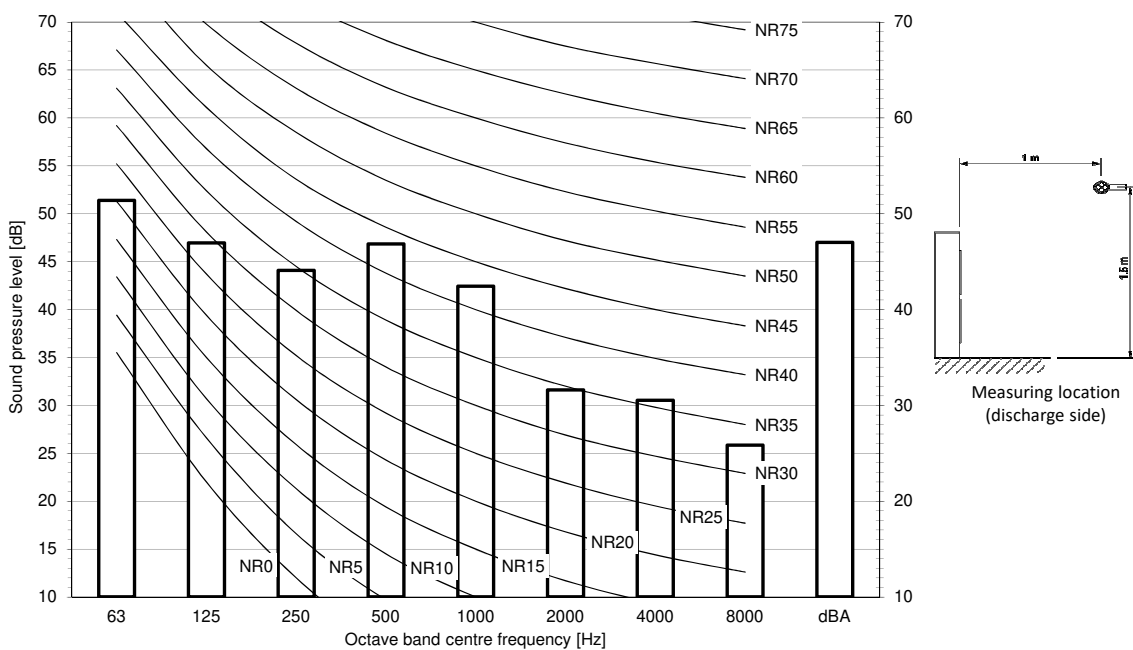
Notes

- 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

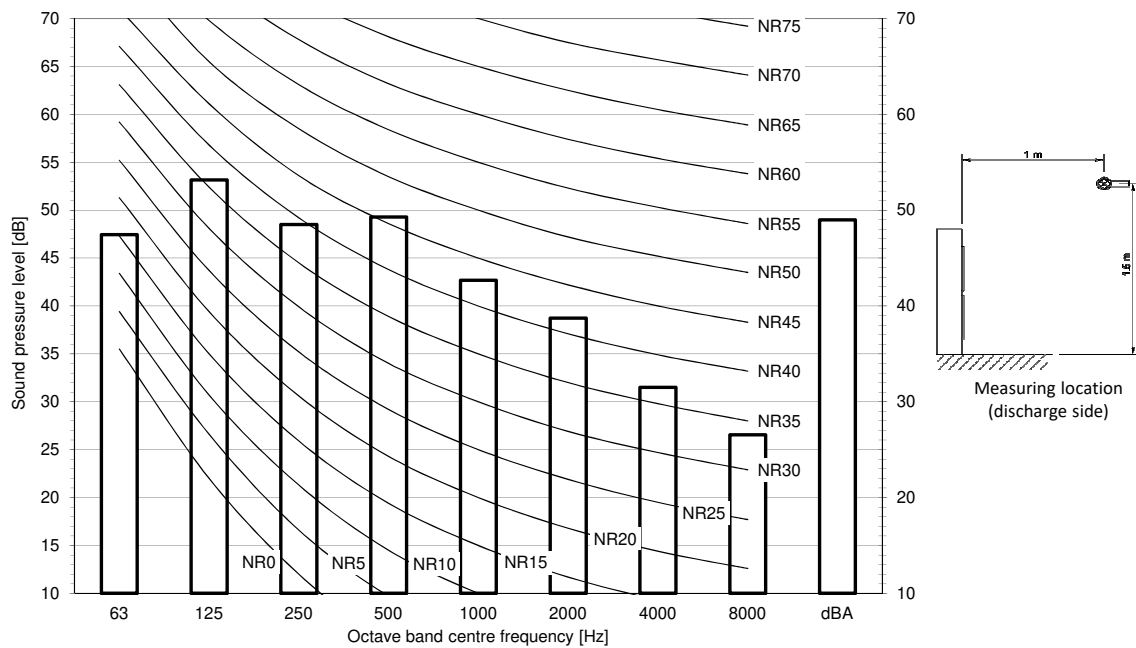
3D125153

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZAG125NV1

RZAG125NY1



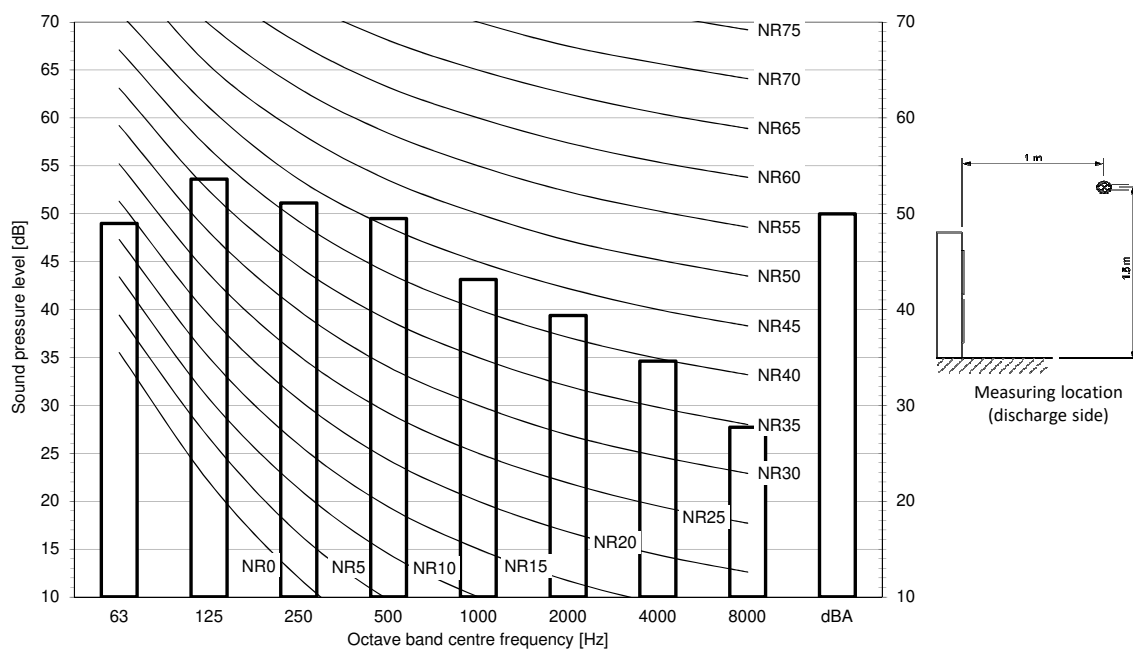
Notes

- 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

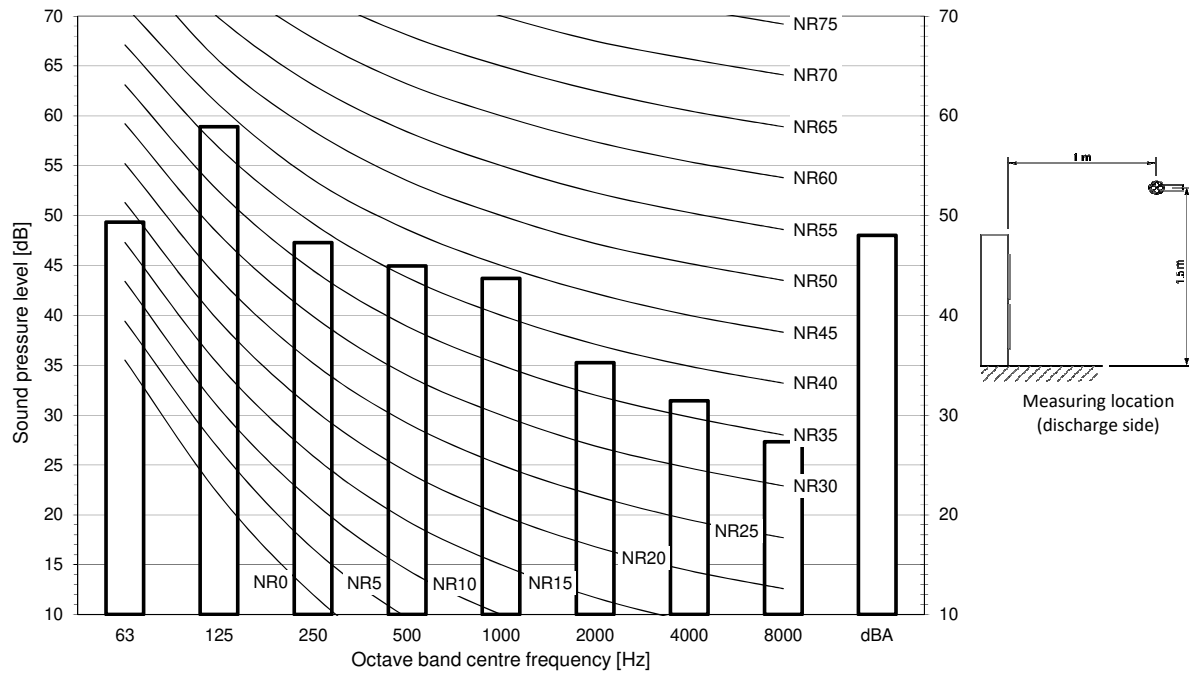
3D125165

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZAG71NV1

RZAG71NY1



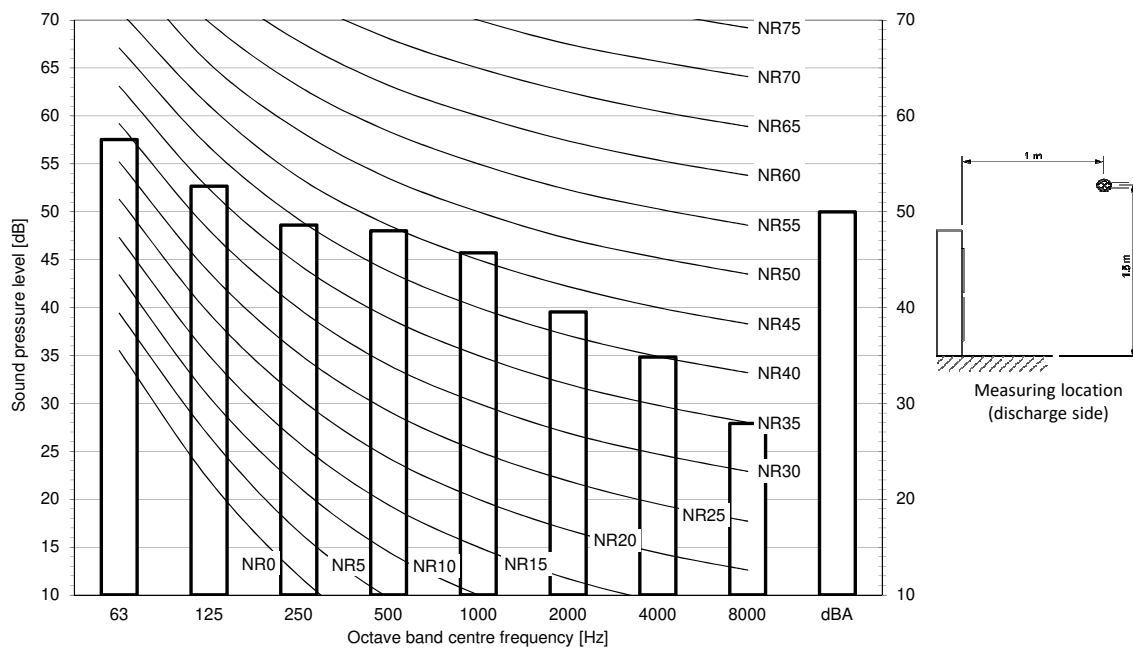
Notes

- 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

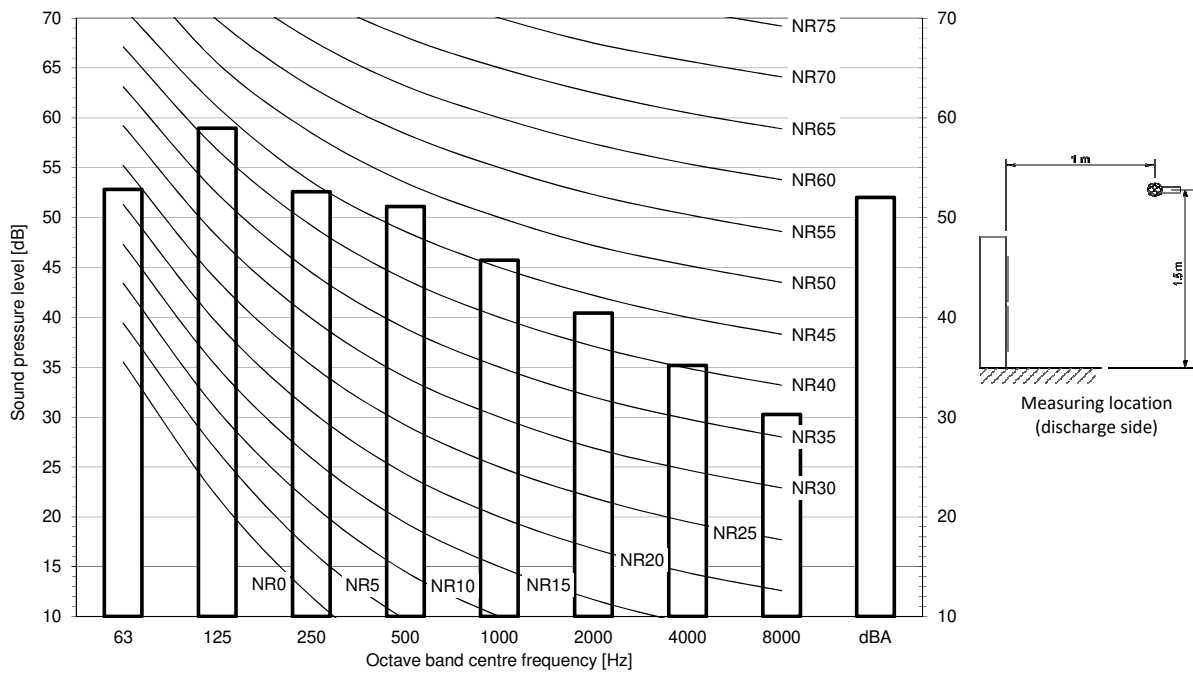
3D125154

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZAG125NV1

RZAG125NY1



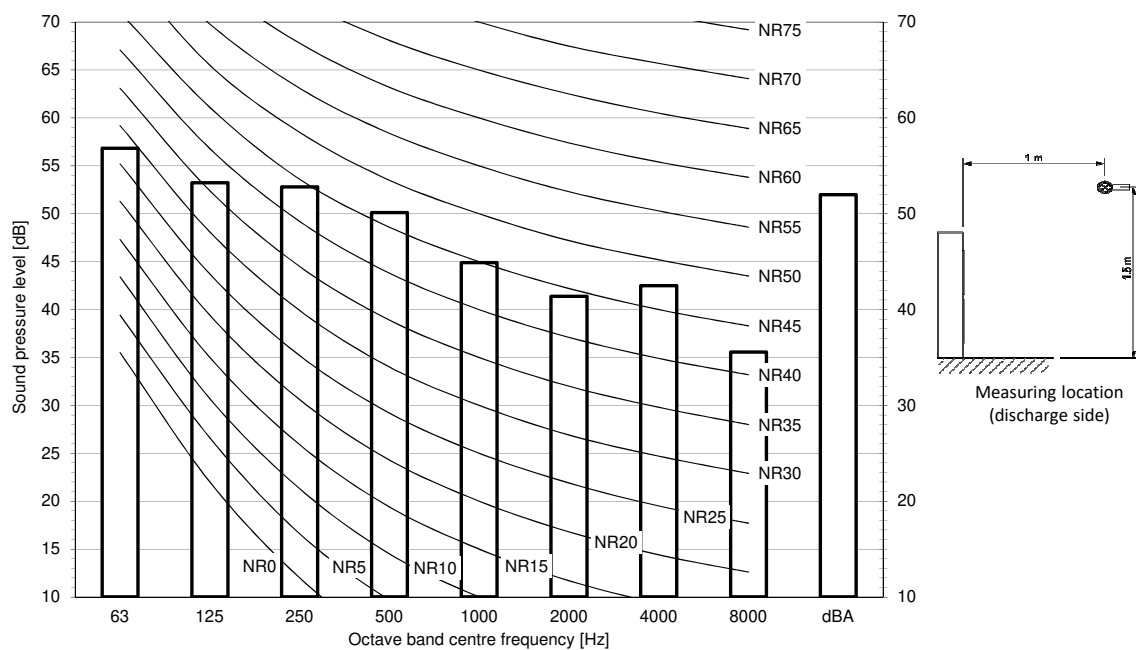
Notes

- 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

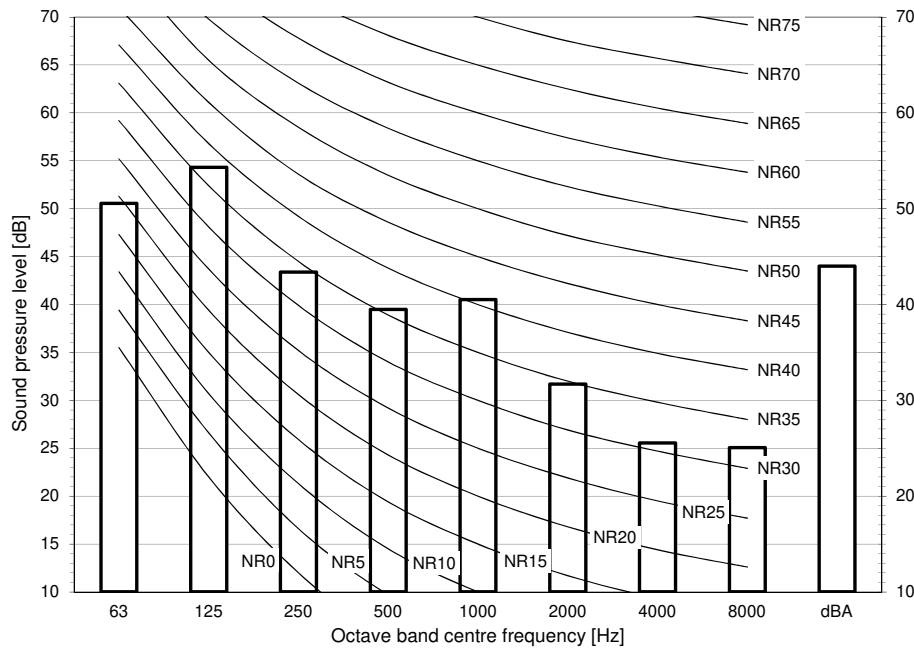
3D125166

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 1

RZAG71NV1
RZAG71NY1

LEVEL 1



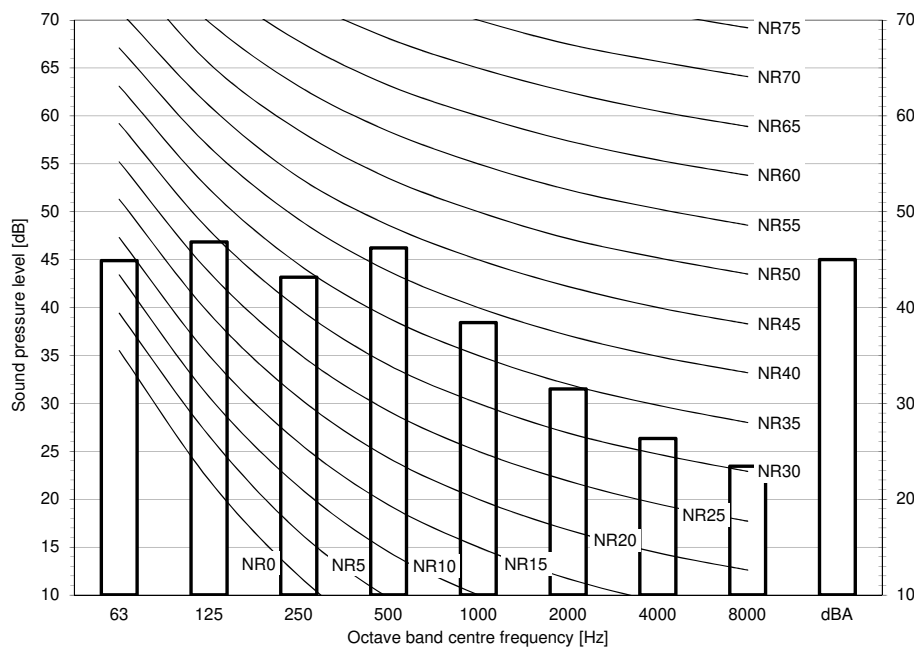
Notes

- 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

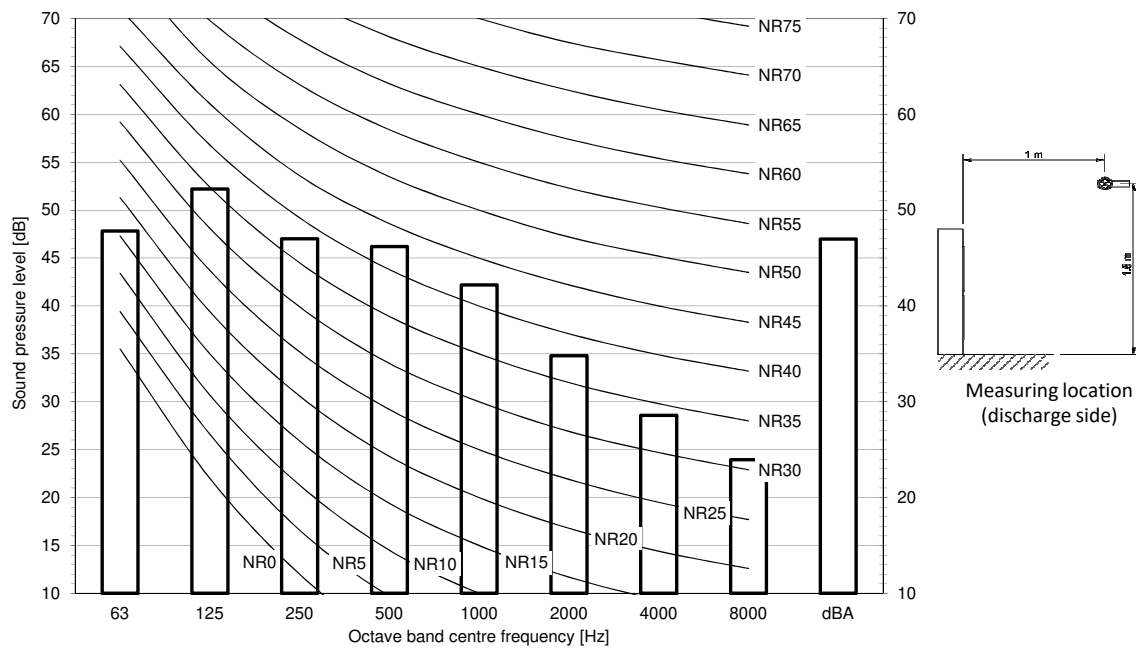
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 1

RZAG125NV1

RZAG125NY1

LEVEL 1



Notes

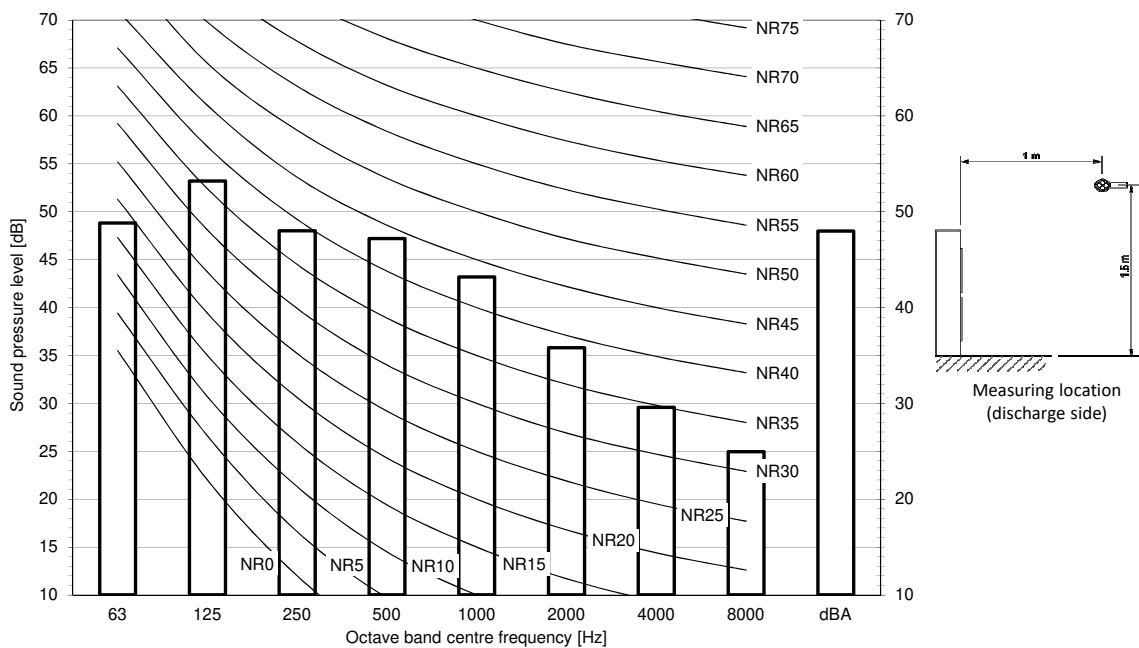
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

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

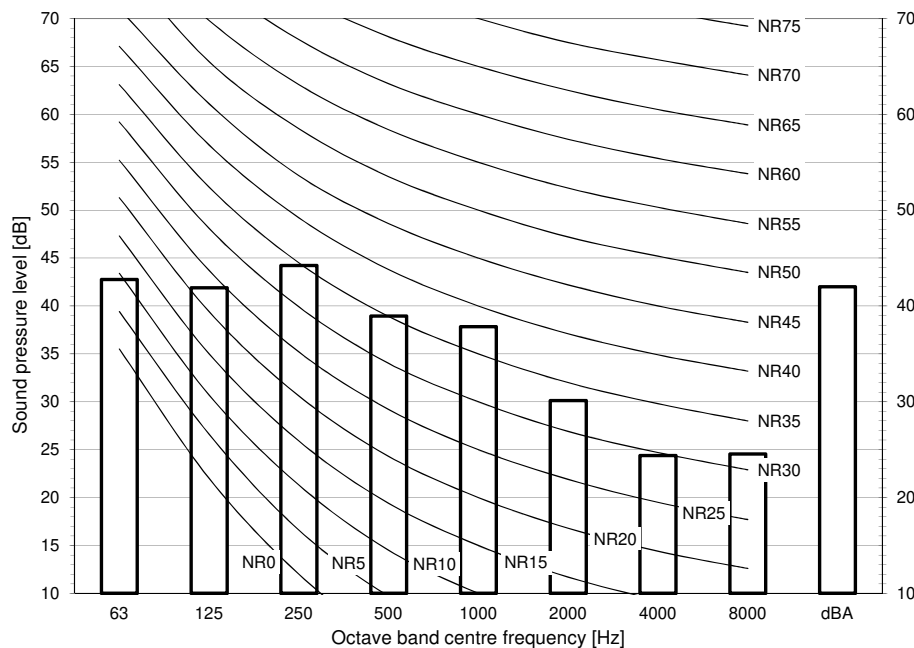
11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 2

RZAG71NV1

RZAG71NY1

LEVEL 2



Notes

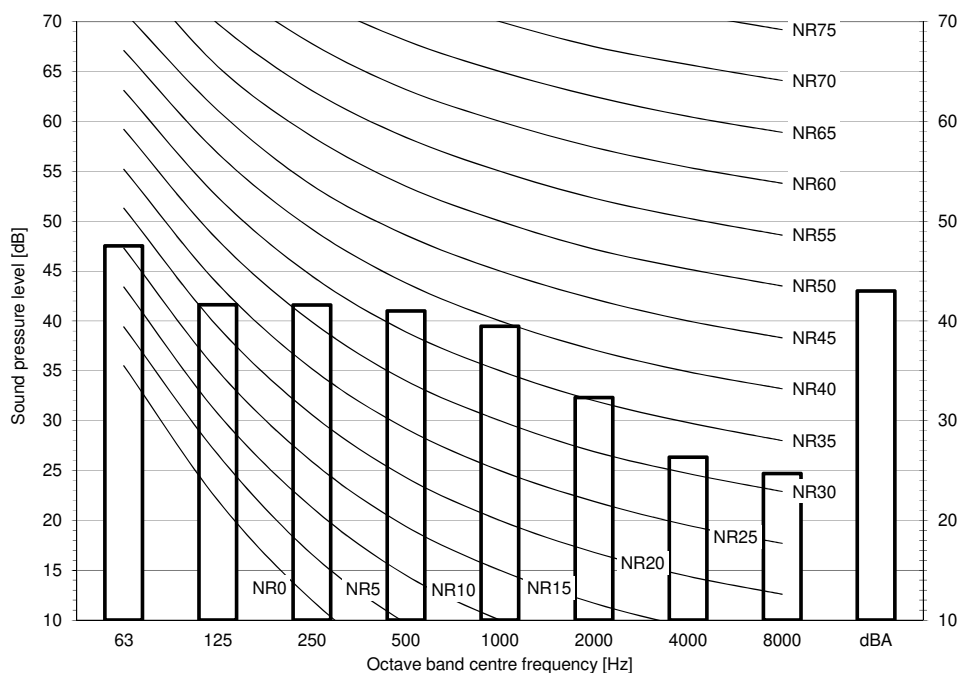
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

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

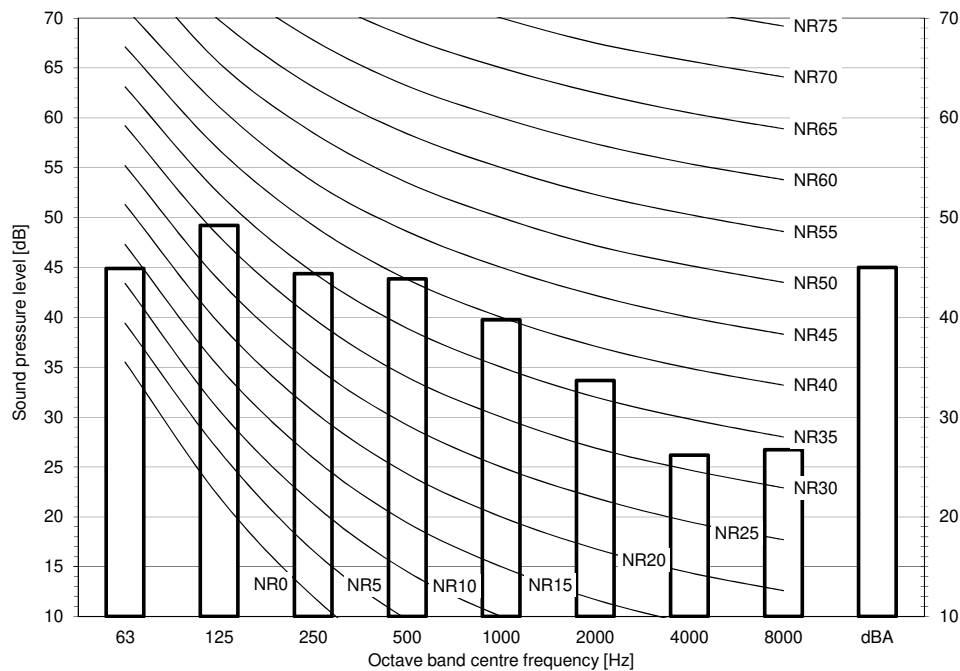
11 Sound data

11 - 5 Sound Pressure Spectrum Quiet Mode Level 2

RZAG125NV1

RZAG125NY1

LEVEL 2



Notes

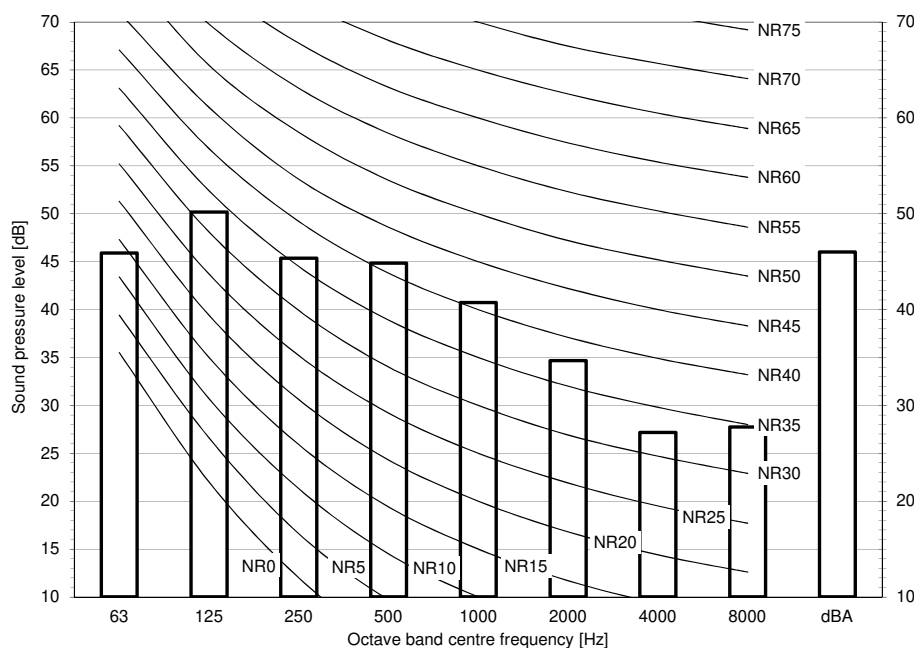
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

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

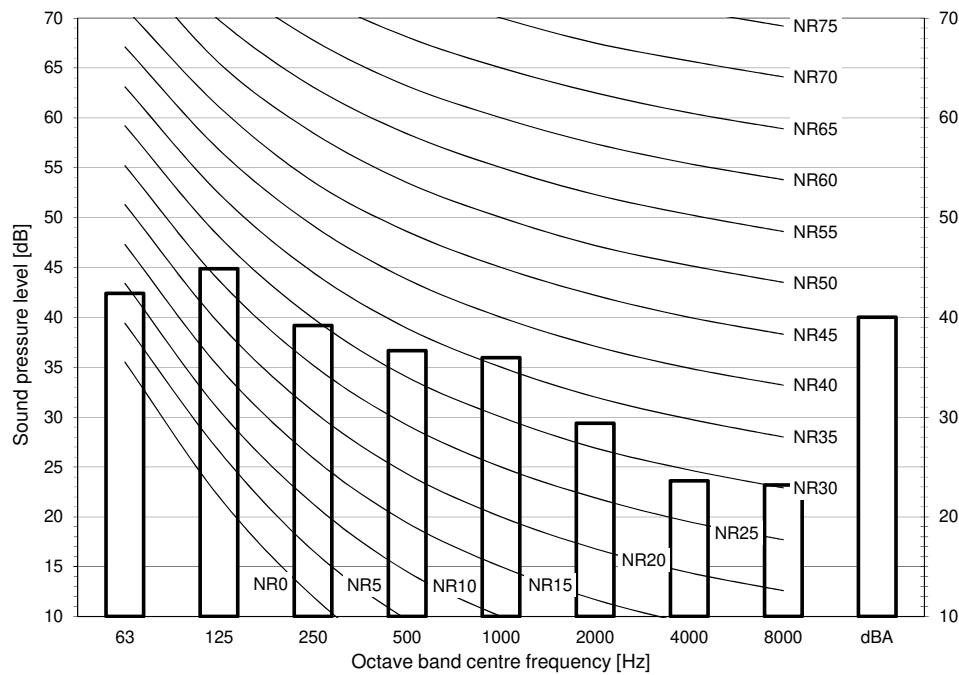
11 Sound data

11 - 6 Sound Pressure Spectrum Quiet Mode Level 3

RZAG71NV1

RZAG71NY1

LEVEL 3



Notes

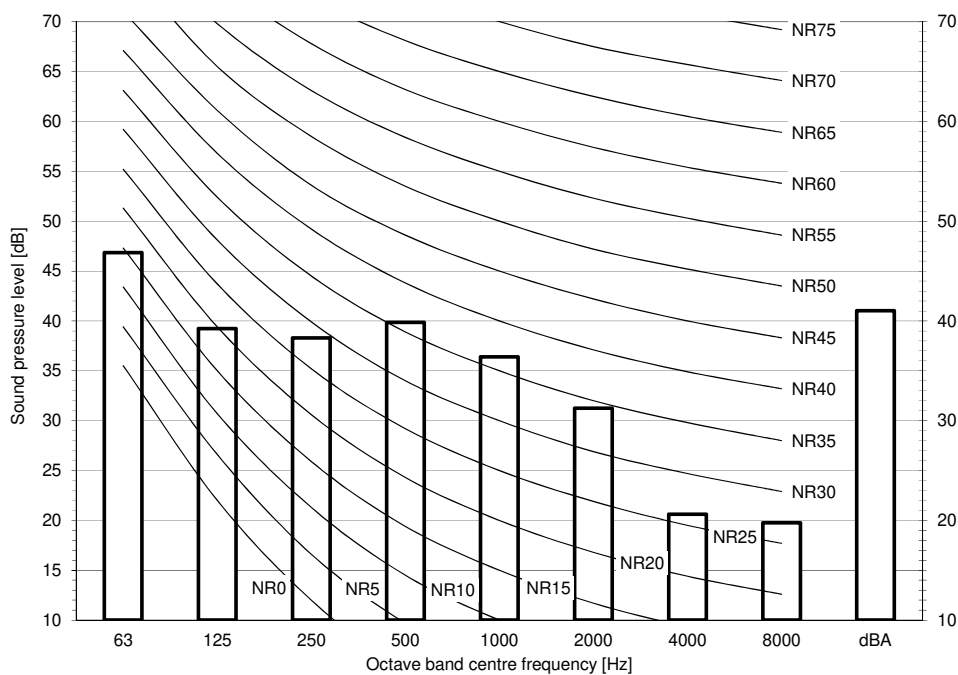
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

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

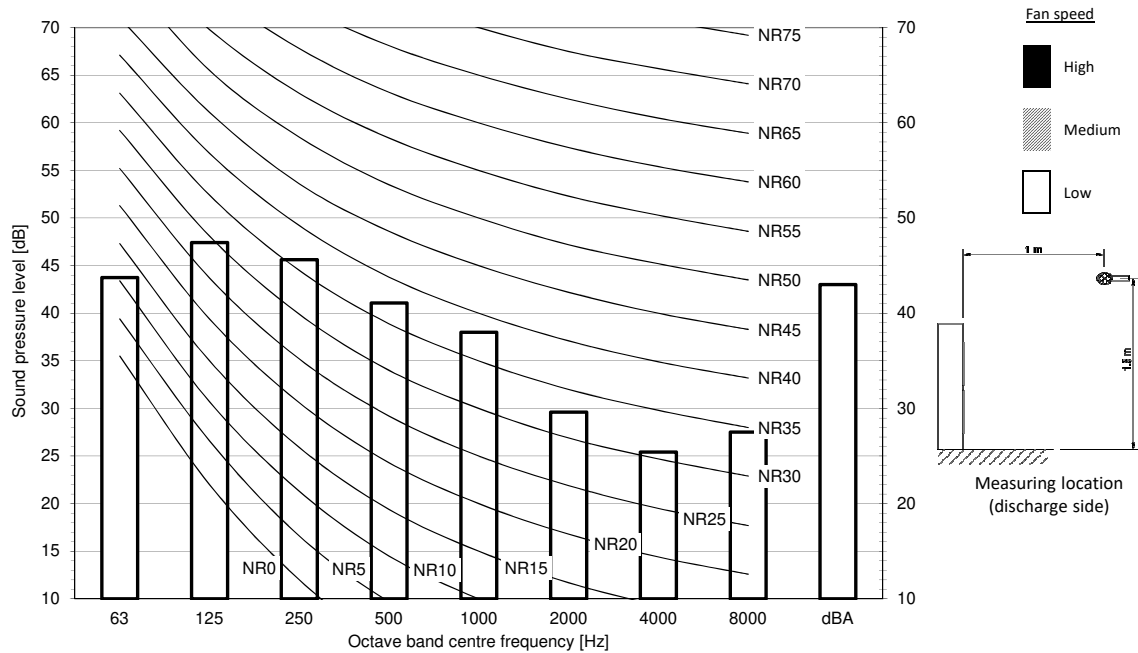
11 Sound data

11 - 6 Sound Pressure Spectrum Quiet Mode Level 3

RZAG125NV1

RZAG125NY1

LEVEL 3



Notes

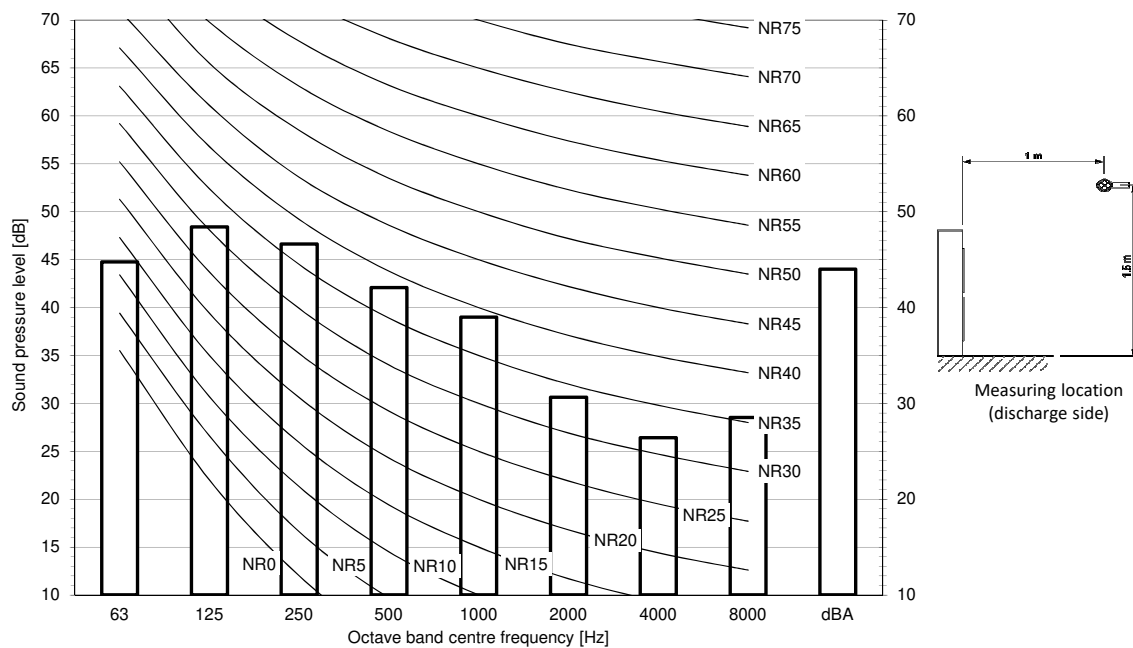
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

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

12

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				≥ 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

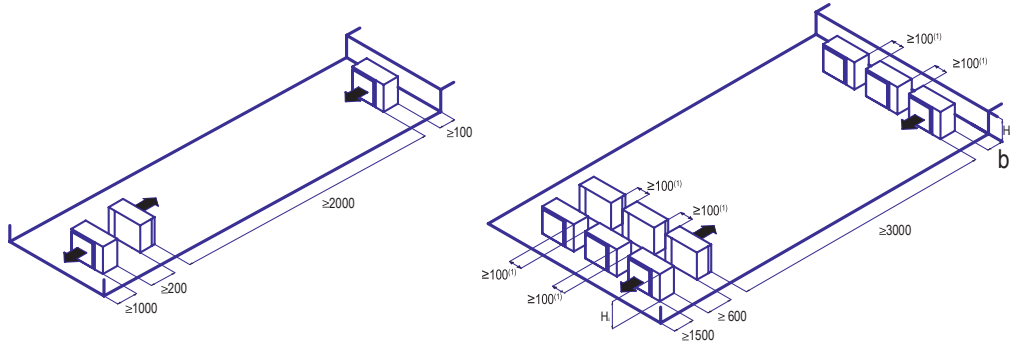
12 - 1 Installation Method

RZAG-NV1

RZAG-NY1

Multiple rows of units ()

Multiple rows of units ()



Hb Hu	b (mm)
$Hb \leq \frac{1}{2}Hu$	$b \geq 250$
$\frac{1}{2}Hu < Hb \leq Hu$	$b \geq 300$
$Hb > Hu$	⊘

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

⊘ Not allowed

1D128513

12 Installation

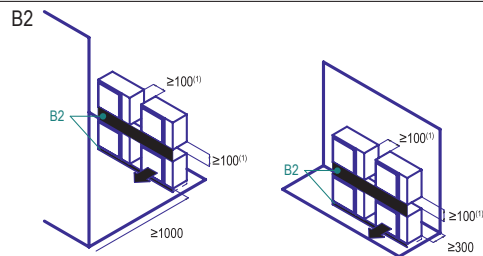
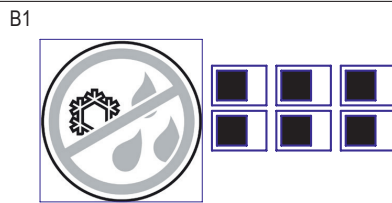
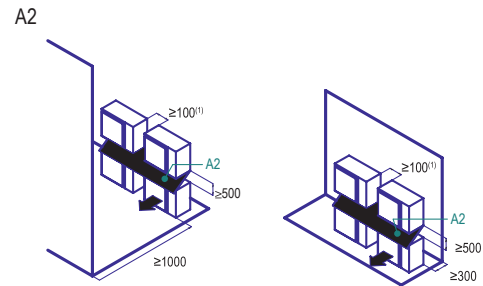
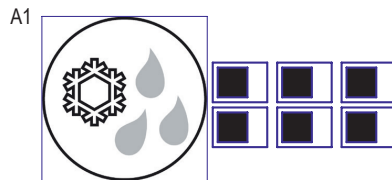
12 - 1 Installation Method

12

RZAG-NV1
RZAG-NY1

Stacked units (max.2 levels)

Stacked units (max.2 levels)



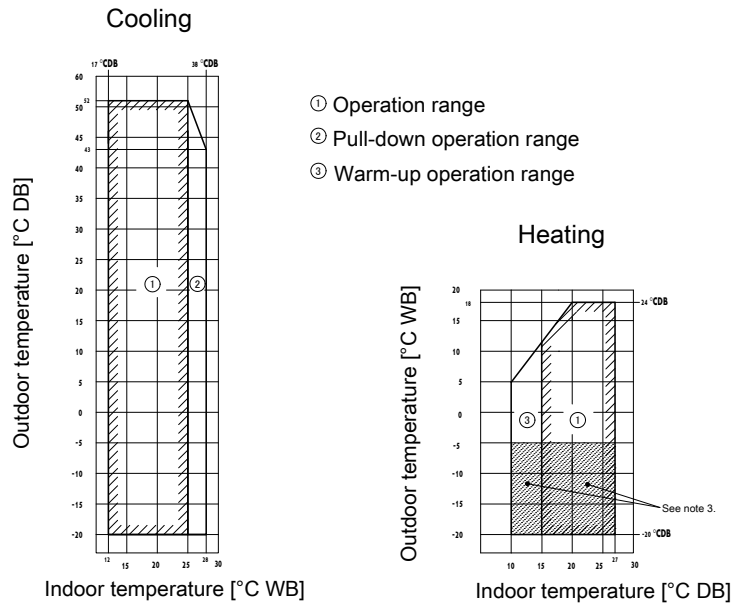
- (1) For better serviceability, use a distance ≥ 250 mm
- A1=>A2 (A1) If there is danger of drainage dripping and freezing between the upper and lower units...
(A2) Then install a roof between the upper and lower units. Install the upper unit high enough above the lower unit to prevent ice buildup at 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.

1D128513

13 Operation range

13 - 1 Operation Range

RZAG-NV1 RZAG-NY1

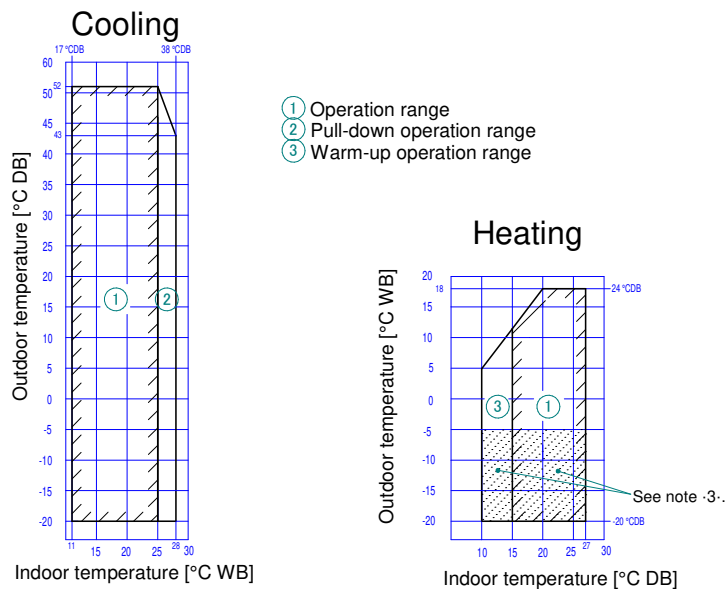


Notes

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

3D110020A

RZAG-NV1 RZAG-NY1



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

14

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		

4D140340A

RZASG125-140NV1

RZASG125-140NY1

ENER Lot 21

Appropriate indoor units

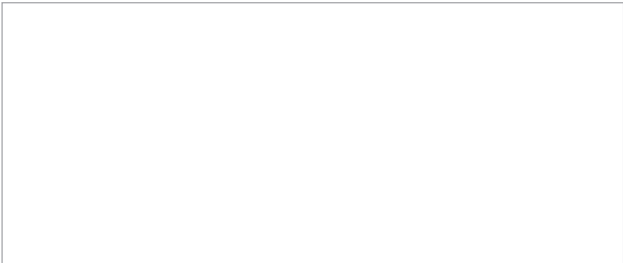
Connectable to ·RZAG125N*V1B/RZAG125N*Y1B· and covered by ·ENER Lot 21·

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	-

4D140340A



EEDEN24

06/2024



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