

Air Conditioning
Technical Data

RZAG-MV1



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RZAG-MV1

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1 Features

Industry leading technology for commercial applications and even for technical rooms

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



Infrastructure cooling



Inverter



Auto cooling-heating changeover

2 Specifications

2-1 Capacity and Power input			FBA71A/ RZAG71MV1	FBA100A/ RZAG71MV1	FBA100A/ RZAG100MV1	FBA140A/ RZAG100MV1	FBA125A/ RZAG125MV1	FBA140A/ RZAG140MV1	
Indoor unit			FBA71A2VEB	FBA100A2VEB		FBA140A2VE B	FBA125A2VE B	FBA140A2VE B	
Outdoor unit			RZAG71M7V1B		RZAG100M7V1B		RZAG125M7V 1B	RZAG140M7V 1B	
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)	
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class		A++	A+	A++		-	
		Pdesign	kW	6.80		9.50		12.1	13.4
		SEER		6.22	5.81	6.47	6.39	6.19	6.42
		Annual energy consumption	kWh	382	410	514	520	1,173	1,252
	Heating (Average climate)	Energy efficiency class		A+				-	
		Pdesign	kW	4.70		7.80		9.52	
		SCOP/A		4.20	4.06	4.36	4.20	4.12	4.11
		Annual energy consumption	kWh	1,566	1,621	2,505	2,600	3,235	3,243

Notes

(1) Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CDB [Btu/hr/W]

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

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

2-2 Capacity and Power input			FCAHG100G/ RZAG71MV1	FCAHG71G/ RZAG71MV1	FCAHG140G/ RZAG100MV1	FCAHG100G/ RZAG100MV1	FCAHG125G/ RZAG125MV1	FCAHG140G/ RZAG140MV1		
Indoor unit			FCAHG100GV EB	FCAHG71GV EB	FCAHG140GV EB	FCAHG100GV EB	FCAHG125GV EB	FCAHG140GV EB		
Outdoor unit			RZAG71M7V1B		RZAG100M7V1B		RZAG125M7V 1B	RZAG140M7V 1B		
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)		
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class		A++				-		
		Pdesign	kW	6.80		9.50		12.1	13.4	
		SEER		7.05	7.72	7.93	7.35	8.02	7.93	
		Annual energy consumption	kWh	338	308	419	452	905	1,014	
	Heating (Average climate)	Energy efficiency class		A+	A++			-		
		Pdesign	kW	4.70		9.52				
		SCOP/A		4.20	4.61	4.70	4.81	4.53	4.44	
		Annual energy consumption	kWh	1,567	1,427	2,836	2,771	2,942	3,002	

Notes

(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.

Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CDB [Btu/hr/W]

2-3 Capacity and Power input			FCAG100A/ RZAG71MV1	FCAG71A/ RZAG71MV1	FCAG140A/ RZAG100MV1	FCAG100A/ RZAG100MV1	FCAG125A/ RZAG125MV1	FCAG140A/ RZAG140MV1
Indoor unit			FCAG100AVE B	FCAG71AVEB	FCAG140AVE B	FCAG100AVE B	FCAG125AVE B	FCAG140AVE B
Outdoor unit			RZAG71M7V1B		RZAG100M7V1B		RZAG125M7V 1B	RZAG140M7V 1B
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)

2 Specifications

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2-3 Capacity and Power input				FCAG100A/ RZAG71MV1	FCAG71A/ RZAG71MV1	FCAG140A/ RZAG100MV1	FCAG100A/ RZAG100MV1	FCAG125A/ RZAG125MV1	FCAG140A/ RZAG140MV1
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class		A++				-	
		Pdesign	kW	6.80		9.50		12.1	13.4
		SEER		7.50	6.86	7.86	7.14	7.80	7.17
		Annual energy consumption	kWh	317	347	423	466	931	1,121
	Heating (Average climate)	Energy efficiency class		A+		A++		-	
		Pdesign	kW	4.70		7.80		9.52	
		SCOP/A		4.45	4.41	4.66	4.61	4.34	
		Annual energy consumption	kWh	1,479	1,492	2,343	2,369	3,071	

Notes

(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.

Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CDB [Btu/hr/W]

2-4 Capacity and Power input			FHA100A/ RZAG71MV1	FHA71A/ RZAG71MV1	FHA140A/ RZAG100MV1	FHA100A/ RZAG100MV1	FHA125A/ RZAG125MV1	FHA140A/ RZAG140MV1	
Indoor unit			FHA100AVEB	FHA71AVEB	FHA140AVEB	FHA100AVEB	FHA125AVEB	FHA140AVEB	
Outdoor unit			RZAG71M7V1B		RZAG100M7V1B		RZAG125M7V1B	RZAG140M7V1B	
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)	
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class		A++				-	
		Pdesign	kW	6.80		9.50		12.1	13.4
		SEER		6.69	7.11	8.24	6.42	8.22	6.42
		Annual energy consumption	kWh	356	335	404	518	883	1,252
	Heating (Average climate)	Energy efficiency class		A+		A++		-	
		Pdesign	kW	4.70		7.80		9.52	
		SCOP/A		4.26	4.32	4.64	4.61	4.09	4.30
		Annual energy consumption	kWh	1,545	1,523	2,353	2,369	3,259	3,100

Notes

(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.

Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CDB [Btu/hr/W]

2-5 Capacity and Power input				FUA100A/RZAG71MV1	FUA71A/RZAG71MV1	FUA100A/RZAG100MV1	FUA125A/RZAG125MV1
Indoor unit				FUA100AVEB	FUA71AVEB	FUA100AVEB	FUA125AVEB
Outdoor unit				RZAG71M7V1B		RZAG100M7V1B	RZAG125M7V1B
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)
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class		A++			-
		Pdesign	kW	6.80		9.50	12.1
		SEER		6.89	7.02	6.42	6.39
		Annual energy consumption	kWh	345	339	518	1,136
	Heating (Average climate)	Energy efficiency class		A+			-
		Pdesign	kW	4.70		7.80	9.52
		SCOP/A		4.28	4.20	4.50	4.26
		Annual energy consumption	kWh	1,537	1,567	2,427	3,129

2 Specifications

Notes

(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.

Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CDB [Btu/hr/W]

2-6 Capacity and Power input			FAA100A/RZAG71MV1	FAA71A/RZAG71MV1	FAA100A/RZAG100MV1
Indoor unit			FAA100AUVEB	FAA71AUVEB	FAA100AUVEB
Outdoor unit			RZAG71M7V1B		RZAG100M7V1B
Cooling capacity	Nom.	kW	6.80 (1)		9.50 (1)
Heating capacity	Nom.	kW	7.50 (2)		10.8 (2)
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class	A++		
		Pdesign	6.80		9.50
		SEER	6.43	6.58	6.42
		Annual energy consumption	370	362	518
	Heating (Average climate)	Energy efficiency class	A+		
		Pdesign	4.70		7.80
		SCOP/A	4.16	4.02	4.01
		Annual energy consumption	1,582	1,637	2,723

Notes

(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.

Cooling: T2: indoor temp. 26,6°CDB, 19,4°CWB, outdoor temp. 48°CDB [Btu/hr/W]

2-7 Capacity and Power input			FVA100A/RZAG71MV1	FVA71A/RZAG71MV1	FVA100A/RZAG100MV1	FVA140A/RZAG100MV1	FVA125A/RZAG125MV1	FVA140A/RZAG140MV1
Indoor unit			FVA100AMVE B	FVA71AMVEB	FVA100AMVE B	FVA140AMVE B	FVA125AMVE B	FVA140AMVE B
Outdoor unit			RZAG71M7V1B		RZAG100M7V1B		RZAG125M7V1B	RZAG140M7V1B
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)
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class	A++		A+	A++	-	
		Pdesign	6.80		9.50		12.1	13.4
		SEER	6.41	6.37	6.00	6.43	6.41	6.12
		Annual energy consumption	371	374	554	517	1,133	1,314
	Heating (Average climate)	Energy efficiency class	A+		-		-	
		Pdesign	4.70		7.80		9.52	
		SCOP/A	4.05		4.20	4.05	4.15	3.94
		Annual energy consumption	1,625		2,600	2,697	3,209	3,383

Notes

(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.

2-8 Technical Specifications		RZAG71MV1	RZAG100MV1	RZAG125MV1	RZAG140MV1
Capacity control	Method	Inverter controlled			
Casing	Colour	Ivory white			
	Material	Painted galvanized steel plate			

2 Specifications

2-8 Technical Specifications					RZAG71MV1		RZAG100MV1		RZAG125MV1		RZAG140MV1	
Dimensions	Unit	Height		mm	990		1,430					
		Width		mm	940							
		Depth		mm	320							
	Packed unit	Height		mm	1,170		1,610					
		Width		mm	1,015							
		Depth		mm	422							
Weight	Unit			kg	70		92					
	Packed unit			kg	79		102					
Packing	Weight			kg	9		10					
Heat exchanger	Fin	Type			WF fin							
		Treatment			Anti-corrosion treatment (PE)							
Compressor	Quantity				1							
	Type				Hermetically sealed swing compressor							
	Starting method				Inverter driven							
Fan	Type				Propeller							
	Discharge direction				Horizontal							
	Quantity				1		2					
	Air flow rate	Cooling	Nom.	m³/min	59		70		83			
		Heating	Nom.	m³/min	50		62					
Fan motor	Quantity				1		2					
	Model				Brushless DC motor							
	Output			W	94							
	Drive				Direct drive							
	Speed	Cooling	Super low	rpm	-							
		Heating	Super low	rpm	-							
Sound power level	Cooling			dBA	64		66		69		70	
	Heating			dBA	-							
Sound pressure level	Night quiet mode	Level 2		dBA	42		44					
	Cooling	Nom.		dBA	46		47		50		51	
	Heating	Nom.		dBA	49		51		52			
Operation range	Cooling	Ambient	Min.	°CDB	-20							
			Max.	°CDB	52							
	Heating	Ambient	Min.	°CWB	-20							
			Max.	°CWB	18.0							
Refrigerant	Type				R-32							
	Charge			kg	2.95		3.75					
				TCO _{2eq}	1.99		2.53					
	Control				Expansion valve (electronic type)							
	GWP				675							
	Circuits	Quantity			1							

2 Specifications

2-8 Technical Specifications				RZAG71MV1		RZAG100MV1		RZAG125MV1		RZAG140MV1	
Piping connections	Liquid	Quantity			1						
		Type			Flare connection						
		OD		mm	9.52						
	Gas	Quantity			1						
		Type			Flare connection						
		OD		mm	15.9						
	Drain	Quantity			5						
		Type			Hole						
		ID		mm	-						
		OD		mm	26						
	Piping length	OU - IU	Min.	m	3						
			Max.	m	55		85				
		System	Equivalent	m	75		100				
			Chargel ess	m	40						
			Additional refrigerant charge			kg/m	See installation manual				
Level difference	IU - OU	Max.	m	30.0							
	IU - IU	Max.	m	0.5							
Heat insulation				Both liquid and gas pipes							
Refrigerant oil	Type			FW68DA							
	Charged volume			l	0.90		1.35				
Defrost method				Reversed cycle							
Defrost control				Sensor for outdoor heat exchanger temperature							
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 : Refrigerant label for F-gas regulation; Quantity : 1;

Standard Accessories : General safety precautions; Quantity : 1;

Standard Accessories : LOT10 Energy Label; Quantity : 1;

2-9 Electrical Specifications			RZAG71MV1	RZAG100MV1	RZAG125MV1	RZAG140MV1
Power supply	Name		V1			
	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-240			
Current - 50Hz	Maximum fuse amps (MFA)	A	20	32		
Current	Zmax	List	Complies to EN61000-3-11			
	Minimum Ssc value	kVa	Equipment complying with EN / IEC 61000-3-12 / (1) / See note 2			
Current - 60Hz	Maximum fuse amps (MFA)	A	-			
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			

Notes

(1) European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current larger than 16A and ≤ 75A per phase.

(2) Ssc: Short-circuit power

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

3 Electrical data

3 - 1 Electrical Data

AZAS-MV1

AZAS-MY1

RZAG-MV1

RZAG-MY1

RZASG-MV1

RZASG-MY1

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.
- 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

3D110014A

RZAG-MV1

RZAG-MY1

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.
- 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

3D110015A

3 Electrical data

3 - 1 Electrical Data

RZAG71-100MV1

		Power supply	Voltage range		MCA	TOCA	MFA	Compressor		OFM		IFM	
Indoor	Outdoor							MSC	RLA	kW	FLA	kW	FLA
FAHG71GVEB	RZAG71M7V1B	50Hz ~ 220-240V	Minimum: 198 V Maximum: 264 V	17.5	—	20	—	15.5	0.094	0.8	0.091	0.5	—
FCAG35AVEB	x2 RZAG71M7V1B			17.6	—	20	—	15.5	0.094	0.8	0.044 x2	0.3 x2	—
FCAG71AVEB	RZAG71M7V1B			17.4	—	20	—	15.5	0.094	0.8	0.054	0.4	—
FFA35A2VEB	x2 RZAG71M7V1B			17.8	—	20	—	15.5	0.094	0.8	0.050 x2	0.4 x2	—
FBA35A2VEB	x2 RZAG71M7V1B			18.2	—	20	—	15.5	0.094	0.8	0.089 x2	0.6 x2	—
FBA71A2VEB	RZAG71M7V1B			17.6	—	20	—	15.6	0.094	0.8	0.070	0.5	—
FNA35A2VEB	x2 RZAG71M7V1B			17.3	—	20	—	15.5	0.094	0.8	0.034 x2	0.3	—
FUA71AVEB	RZAG71M7V1B			17.9	—	20	—	15.5	0.094	0.8	0.046	0.9	—
FUA71AUVEB	RZAG71M7V1B			17.4	—	20	—	15.5	0.094	0.8	0.048	0.4	—
FVA71AMVEB	RZAG71M7V1B			17.6	—	20	—	15.5	0.094	0.8	0.117	0.6	—
FDXM35F3V1B	x2 RZAG71M7V1B			17.6	—	20	—	15.5	0.094	0.8	0.034 x2	0.3 x2	—
FHA35AVEB	x2 RZAG71M7V1B			18.2	—	20	—	15.5	0.094	0.8	0.060 x2	0.6 x2	—
FHA71AVEB	RZAG71M7V1B			17.8	—	20	—	15.5	0.094	0.8	0.091	0.8	—
FAHG100GVEB	RZAG100M7V1B	50Hz ~ 220-240V	Minimum: 198 V Maximum: 264 V	27.4	—	32	—	23.5	0.094+0.094	0.75+0.75	0.221	1.3	—
FCAG35AVEB	x3 RZAG100M7V1B			26.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.044 x3	0.3 x3	—
FCAG50AVEB	x2 RZAG100M7V1B			26.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.039 x2	0.3 x2	—
FCAG100AVEB	RZAG100M7V1B			26.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.117	0.7	—
FFA35A2VEB	x3 RZAG100M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x3	0.4 x3	—
FFA50A2VEB	x2 RZAG100M7V1B			26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x2	0.4 x2	—
FBA35A2VEB	x3 RZAG100M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x3	0.6 x3	—
FBA50A2VEB	x2 RZAG100M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x2	0.6 x2	—
FBA100A2VEB	RZAG100M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.127	1.0	—
FNA35A2VEB	x3 RZAG100M7V1B			26.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x3	0.3 x3	—
FNA50A2VEB	x2 RZAG100M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x2	0.5 x2	—
FUA100AVEB	RZAG100M7V1B			27.4	—	32	—	23.5	0.094+0.094	0.75+0.75	0.106	1.3	—
FUA100AUVEB	RZAG100M7V1B			26.4	—	32	—	23.5	0.094+0.094	0.75+0.75	0.064	0.4	—
FVA100AMVEB	RZAG100M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.238	1.2	—
FDXM35F3V1B	x3 RZAG100M7V1B			26.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x3	0.3 x3	—
FDXM50F3V1B	x2 RZAG100M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x2	0.5 x2	—
FHA35AVEB	x3 RZAG100M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.6 x3	—
FHA50AVEB	x2 RZAG100M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x2	0.6 x2	—
FHA100AVEB	RZAG100M7V1B			27.4	—	32	—	23.5	0.094+0.094	0.75+0.75	0.150	1.3	—

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RZAG71-100MV1

		Power supply	Voltage range		MCA	TOCA	MFA	Compressor		OFM		IFM	
Indoor	Outdoor							MSC	RLA	kW	FLA	kW	FLA
FAHG100GVEB	RZAG71M7V1B	50Hz ~ 220-240V	Minimum: 198 V Maximum: 264 V	18.3	—	20	—	15.5	0.094	0.8	0.221	1.3	—
FCAG35AVEB	x3 RZAG71M7V1B			17.9	—	20	—	15.5	0.094	0.8	0.044 x3	0.3 x3	—
FCAG50AVEB	x2 RZAG71M7V1B			17.6	—	20	—	15.5	0.094	0.8	0.039 x2	0.3 x2	—
FCAG100AVEB	RZAG71M7V1B			17.7	—	20	—	15.5	0.094	0.8	0.117	0.7	—
FFA35A2VEB	x3 RZAG71M7V1B			18.2	—	20	—	15.5	0.094	0.8	0.050 x3	0.4 x3	—
FFA50A2VEB	x2 RZAG71M7V1B			17.8	—	20	—	15.5	0.094	0.8	0.050 x2	0.4 x2	—
FBA35A2VEB	x3 RZAG71M7V1B			18.8	—	20	—	15.5	0.094	0.8	0.089 x3	0.6 x3	—
FBA50A2VEB	x2 RZAG71M7V1B			18.2	—	20	—	15.5	0.094	0.8	0.089 x2	0.6 x2	—
FBA100A2VEB	RZAG71M7V1B			18.0	—	20	—	15.5	0.094	0.8	0.127	1.0	—
FUA100AVEB	RZAG71M7V1B			18.3	—	20	—	15.5	0.094	0.8	0.106	1.3	—
FUA100AUVEB	RZAG71M7V1B			17.4	—	20	—	15.5	0.094	0.8	0.064	0.4	—
FVA100AMVEB	RZAG71M7V1B			18.2	—	20	—	15.5	0.094	0.8	0.238	1.2	—
FDXM35F3V1B	x3 RZAG71M7V1B			17.9	—	20	—	15.5	0.094	0.8	0.034 x3	0.3 x3	—
FDXM50F3V1B	x2 RZAG71M7V1B			18.0	—	20	—	15.5	0.094	0.8	0.060 x2	0.5 x2	—
FHA35AVEB	x3 RZAG71M7V1B			18.8	—	20	—	15.5	0.094	0.8	0.060 x3	0.6 x3	—
FHA50AVEB	x2 RZAG71M7V1B			18.2	—	20	—	15.5	0.094	0.8	0.060 x2	0.6 x2	—
FHA100AVEB	RZAG71M7V1B			18.3	—	20	—	15.5	0.094	0.8	0.150	1.3	—
FAHG71GVEB	x2 RZAG100M7V1B	50Hz ~ 220-240V	Minimum: 198 V Maximum: 264 V	27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.5 x2	—
FAHG140GVEB	RZAG100M7V1B			27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.244	1.4	—
FCAG35AVEB	x4 RZAG100M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.044 x4	0.3 x4	—
FCAG50AVEB	x3 RZAG100M7V1B			26.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.039 x3	0.3 x3	—
FCAG71AVEB	x2 RZAG100M7V1B			26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.054 x2	0.4 x2	—
FCAG140AVEB	RZAG100M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.168	1.0	—
FFA35A2VEB	x4 RZAG100M7V1B			27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x4	0.4 x4	—
FFA50A2VEB	x3 RZAG100M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x3	0.4 x3	—
FBA35A2VEB	x4 RZAG100M7V1B			28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x4	0.6 x4	—
FBA50A2VEB	x3 RZAG100M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x3	0.6 x3	—
FBA71A2VEB	x2 RZAG100M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.07 x2	0.5 x2	—
FBA140A2VEB	RZAG100M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.187	1.5	—
FUA71AVEB	x2 RZAG100M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.046 x2	0.9 x2	—
FAA71AUVEB	x2 RZAG100M7V1B			26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.048 x2	0.4 x2	—
FVA140AMVEB	RZAG100M7V1B			27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.276	1.4	—
FDXM35F3V1B	x4 RZAG100M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x4	0.3 x4	—
FDXM50F3V1B	x3 RZAG100M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.5 x3	—
FHA35AVEB	x4 RZAG100M7V1B			28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x4	0.6 x4	—
FHA50AVEB	x3 RZAG100M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.6 x3	—
FHA71AVEB	x2 RZAG100M7V1B			27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.8 x2	—
FHA140AVEB	RZAG100M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.150	1.8	—

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3 Electrical data

3 - 1 Electrical Data

RZAG125-140MV1

		Power supply	Voltage range	Compressor					OFM		IFM	
Indoor	Outdoor			MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAHG125GVEB	RZAG125M7V1B	50Hz ~ 220-240V	Minimum: 198 V Maximum: 264 V	27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.244	1.4
FCAG35AVEB	x4 RZAG125M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.044 x4	0.3 x4
FCAG50AVEB	x3 RZAG125M7V1B			26.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.039 x3	0.3 x3
FCAG60AVEB	x2 RZAG125M7V1B			26.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.044 x2	0.3 x2
FCAG125AVEB	RZAG125M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.168	1.0
FFA35A2VEB	x4 RZAG125M7V1B			27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x4	0.4 x4
FFA50A2VEB	x3 RZAG125M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x3	0.4 x3
FFA60A2VEB	x2 RZAG125M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x2	0.6 x2
FBA35A2VEB	x4 RZAG125M7V1B			28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x4	0.6 x4
FBA50A2VEB	x3 RZAG125M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x3	0.6 x3
FBA60A2VEB	x2 RZAG125M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.070 x2	0.5 x2
FBA125AVEB	RZAG125M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.187	1.5
FNA35A2VEB	x4 RZAG125M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x4	0.3 x4
FNA50A2VEB	x3 RZAG125M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.5 x3
FNA60A2VEB	x2 RZAG125M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x2	0.5 x2
FUA125AVEB	RZAG125M7V1B			27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.106	1.4
FDA125AVEB	RZAG125M7V1B			28.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.350	2.1
FVA125AVEB	RZAG125M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.238	1.2
FDXM35F3V1B	x4 RZAG125M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x4	0.3 x4
FDXM50F3V1B	x3 RZAG125M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.5 x3
FDXM60F3V1B	x2 RZAG125M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x2	0.5 x2
FHA35AVEB	x4 RZAG125M7V1B	50Hz ~ 220-240V	Minimum: 198 V Maximum: 264 V	28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x4	0.6 x4
FHA50AVEB	x3 RZAG125M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.6 x3
FHA60AVEB	x2 RZAG125M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.6 x2
FHA125AVEB	RZAG125M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.150	1.5
FCAHG71GVEB	x2 RZAG140M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.5 x2
FCAHG140GVEB	RZAG140M7V1B			27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.244	1.4
FCAG35AVEB	x4 RZAG140M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.044 x4	0.3 x4
FCAG50AVEB	x3 RZAG140M7V1B			26.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.039 x3	0.3 x3
FCAG71AVEB	x2 RZAG140M7V1B			26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.054 x2	0.4 x2
FCAG140AVEB	RZAG140M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.168	1.0
FFA35A2VEB	x4 RZAG140M7V1B			27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x4	0.4 x4
FFA50A2VEB	x3 RZAG140M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x3	0.4 x3
FFA60A2VEB	x2 RZAG140M7V1B			28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x4	0.6 x4
FBA35A2VEB	x4 RZAG140M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x3	0.6 x3
FBA50A2VEB	x3 RZAG140M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.070 x2	0.5 x2
FBA140AVEB	RZAG140M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.187	1.5
FNA35A2VEB	x4 RZAG140M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x4	0.3 x4
FNA50A2VEB	x3 RZAG140M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.5 x3
FUA71AVEB	x2 RZAG140M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.046 x2	0.9 x2
FAA71AUVEB	x2 RZAG140M7V1B			26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.048 x2	0.4 x2
FVA71AMVEB	x2 RZAG140M7V1B	50Hz ~ 220-240V	Minimum: 198 V Maximum: 264 V	27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.117 x2	0.6 x2
FVA140AMVEB	RZAG140M7V1B			27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.276	1.4
FDXM35F3V1B	x4 RZAG140M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x4	0.3 x4
FDXM50F3V1B	x3 RZAG140M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.5 x3
FHA35AVEB	x4 RZAG140M7V1B			28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x4	0.6 x4
FHA50AVEB	x3 RZAG140M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.6 x3
FHA71AVEB	x2 RZAG140M7V1B			27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.8 x2
FHA140AVEB	RZAG140M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.150	1.8
FCAHG71GVEB	x2 RZAG140M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.5 x2
FCAHG140GVEB	RZAG140M7V1B			27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.244	1.4
FCAG35AVEB	x4 RZAG140M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.044 x4	0.3 x4
FCAG50AVEB	x3 RZAG140M7V1B			26.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.039 x3	0.3 x3
FCAG71AVEB	x2 RZAG140M7V1B			26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.054 x2	0.4 x2
FCAG140AVEB	RZAG140M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.168	1.0
FFA35A2VEB	x4 RZAG140M7V1B			27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x4	0.4 x4
FFA50A2VEB	x3 RZAG140M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x3	0.4 x3
FFA60A2VEB	x2 RZAG140M7V1B			28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x4	0.6 x4
FBA35A2VEB	x4 RZAG140M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x3	0.6 x3
FBA140AVEB	RZAG140M7V1B			27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.07 x2	0.5 x2
FUA71AVEB	x2 RZAG140M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.187	1.5
FAA71AUVEB	x2 RZAG140M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.046 x2	0.9 x2
FVA140AMVEB	RZAG140M7V1B			26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.048 x2	0.4 x2
FVA71AMVEB	x2 RZAG140M7V1B			27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.276	1.4
FDXM35F3V1B	x4 RZAG140M7V1B			27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x4	0.3 x4
FDXM50F3V1B	x3 RZAG140M7V1B			27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.5 x3
FHA35AVEB	x4 RZAG140M7V1B			28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x4	0.6 x4
FHA50AVEB	x3 RZAG140M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.6 x3
FHA71AVEB	x2 RZAG140M7V1B			27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.8 x2
FHA140AVEB	RZAG140M7V1B			27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.150	1.8

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RZAG125-140MV1

							Compressor		OFM		IFM			
Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
			50Hz ~ 220-240V	Minimum: 198 V. Maximum 264 V.		27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.5 x2
FCAHG140GVEB		x2			RZAG125M7V1B	27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.244	1.4
FCAG35AVEB		x4			RZAG125M7V1B	27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.044 x4	0.3 x4
FCAG50AVEB		x3			RZAG125M7V1B	26.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.039 x3	0.3 x3
FCAG71AVEB		x2			RZAG125M7V1B	26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.054 x2	0.4 x2
FCAG140AVEB					RZAG125M7V1B	27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.168	1.0
FFA35A2VEB		x4			RZAG125M7V1B	27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x4	0.4 x4
FFA50A2VEB		x3			RZAG125M7V1B	27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x3	0.4 x3
FBA35A2VEB		x4			RZAG125M7V1B	28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x4	0.6 x4
FBA50A2VEB		x3			RZAG125M7V1B	27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x3	0.6 x3
FBA71A2VEB		x2			RZAG125M7V1B	27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.07 x2	0.5 x2
FBA140A2VEB					RZAG125M7V1B	27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.187	1.5
FUA71AVEB		x2	RZAG125M7V1B	27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.046 x2	0.9 x2		
FAA71AUVEB		x2	RZAG125M7V1B	26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.048 x2	0.4 x2		
FVA140AMVEB			RZAG125M7V1B	27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.276	1.4		
FDXM35F3V1B		x4	RZAG125M7V1B	27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x4	0.3 x4		
FDXM50F3V1B		x3	RZAG125M7V1B	27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.5 x3		
FHA35AVEB		x4	RZAG125M7V1B	28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x4	0.6 x4		
FHA50AVEB		x3	RZAG125M7V1B	27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.6 x3		
FHA71AVEB		x2	RZAG125M7V1B	27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.8 x2		
FHA140AVEB			RZAG125M7V1B	27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.150	1.8		
			50Hz ~ 220-240V	Minimum: 198 V. Maximum 264 V.		27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.5 x2
FCAHG140GVEB		x2			RZAG140M7V1B	27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.244	1.4
FCAG35AVEB		x4			RZAG140M7V1B	27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.044 x4	0.3 x4
FCAG50AVEB		x3			RZAG140M7V1B	26.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.039 x3	0.3 x3
FCAG71AVEB		x2			RZAG140M7V1B	26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.054 x2	0.4 x2
FCAG140AVEB					RZAG140M7V1B	27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.168	1.0
FFA35A2VEB		x4			RZAG140M7V1B	27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x4	0.4 x4
FFA50A2VEB		x3			RZAG140M7V1B	27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.050 x3	0.4 x3
FBA35A2VEB		x4			RZAG140M7V1B	28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x4	0.6 x4
FBA50A2VEB		x3			RZAG140M7V1B	27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.089 x3	0.6 x3
FBA71A2VEB		x2			RZAG140M7V1B	27.0	—	32	—	23.5	0.094+0.094	0.75+0.75	0.07 x2	0.5 x2
FBA140A2VEB					RZAG140M7V1B	27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.187	1.5
FUA71AVEB		x2	RZAG140M7V1B	27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.046 x2	0.9 x2		
FAA71AUVEB		x2	RZAG140M7V1B	26.8	—	32	—	23.5	0.094+0.094	0.75+0.75	0.048 x2	0.4 x2		
FVA140AMVEB			RZAG140M7V1B	27.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.276	1.4		
FDXM35F3V1B		x4	RZAG140M7V1B	27.2	—	32	—	23.5	0.094+0.094	0.75+0.75	0.034 x4	0.3 x4		
FDXM50F3V1B		x3	RZAG140M7V1B	27.6	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.5 x3		
FHA35AVEB		x4	RZAG140M7V1B	28.5	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x4	0.6 x4		
FHA50AVEB		x3	RZAG140M7V1B	27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.060 x3	0.6 x3		
FHA71AVEB		x2	RZAG140M7V1B	27.7	—	32	—	23.5	0.094+0.094	0.75+0.75	0.091 x2	0.8 x2		
FHA140AVEB			RZAG140M7V1B	27.9	—	32	—	23.5	0.094+0.094	0.75+0.75	0.150	1.8		

4 Options

4 - 1 Options

AZAS-MV1

AZAS-MY1

RZAG-MV1

RZAG-MY1

RZASG-MV1

RZASG-MY1

Available options for RZAG models

Option		Option kit			
		RZAG71M7V1B RZAG71M7Y1B	RZAG100M7V1B RZAG100M7Y1B	RZAG125M7V1B RZAG125M7Y1B	RZAG140M7V1B RZAG140M7Y1B
Bottom plate heater		EKBPH140L7			
Refrigerant branch piping	Twin	KHRQ22M20TA			
	Triple	-	-	KHRQ127H	
	Double twin	-	-	KHRQ22M20TA (3x)	

Available options for RZASG models

Option		Option kit			
		RZASG71M2V1B	RZASG100M7V1B RZASG100M7Y1B	RZASG125M7V1B RZASG125M7Y1B	RZASG140M7V1B RZASG140M7Y1B
Bottom plate heater		-			
Refrigerant branch piping	Twin	KHRQ22M20TA			
	Triple	-	-	KHRQ127H	
	Double twin	-	-	KHRQ22M20TA (3x)	

Available options for AZAS models

Option		Option kit			
		AZAS71M2V1B	AZAS100M7V1B AZAS100M7Y1B	AZAS125M7V1B AZAS125M7Y1B	AZAS140M7V1B AZAS140M7Y1B

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5 Combination table

5 - 1 Combination Table

AZAS-MV1
AZAS-MY1
RZAG-MV1
RZAG-MY1
RZASG-MV1
RZASG-MY1

Possible combinations

P= Pair	71	100	125	140
2= Twin	35+35	50+50	60+60	71+71
3= Triple		35+35+35 (*)	50+50+50 (*)	50+50+50 (*)
4= Double twin			35+35+35+35 (*)	35+35+35+35

(*) See table 1.

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	FCAG100VEB	FCAG100QVEB	FCAG125QVEB	FCAG140QVEB	FCAG35AVEB	FCAG35QVEB	FCAG35QVEB	FCAG71AVEB	FCAG100AVEB	FCAG125AVEB	FCAG140AVEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB
RZAG71M7Y1B	P				2			P				2					P		
RZAG100M7Y1B		P			3	2			P			3	2				P		
RZAG125M7Y1B			P		4	3	2		P			4	3	2			P		
RZAG140M7Y1B	2			P	4	3				P		4	3				P		
RZAG71M2Y1B					2			P				2					P		
RZAG100M7Y1B					3	2			P			3	2				P		
RZAG125M7Y1B					4	3	2		P			4	3	2			P		
RZAG140M7Y1B					4	3				P		4	3				P		
AZAS71M2Y1B								P										P	
AZAS100M7Y1B									P										P
AZAS125M7Y1B									P										P
AZAS140M7Y1B									P										P

Sky Air	Floor standing type				Slim duct			Ceiling-suspended			
Model	FVA71MAVEB	FVA100MAVEB	FVA125MAVEB	FVA140MAVEB	FDX35F3Y1B	FDX35F3Y1B	FDX35F3Y1B	FHA35AVEB	FHA35AVEB	FHA35AVEB	FHA35AVEB
RZAG71M7Y1B	P				2			2		P	
RZAG100M7Y1B		P			3	2		3	2		P
RZAG125M7Y1B			P		4	3	2	4	3	2	P
RZAG140M7Y1B	2			P	4	3		4	3		P
RZAG71M2Y1B					2			2			
RZAG100M7Y1B		P			3	2		3	2		P
RZAG125M7Y1B			P		4	3	2	4	3	2	P
RZAG140M7Y1B	2			P	4	3		4	3		P
AZAS71M2Y1B											
AZAS100M7Y1B											
AZAS125M7Y1B											
AZAS140M7Y1B											

Notes

- Maximum capacity is limited based on outdoor unit capacity.
- When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
- For the selection of the correct refnet kit, required to install a multi-combination, refer to the option list.

Twin : KHRQ(M)58T
Triple : KHRQ(M)58H
Double twin : KHRQ(M)58T

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RZAG-MV1
RZAG-MY1

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	FCAG100VEB	FCAG100QVEB	FCAG125QVEB	FCAG140QVEB	FCAG35AVEB	FCAG35QVEB	FCAG35QVEB	FCAG71AVEB	FCAG100AVEB	FCAG125AVEB	FCAG140AVEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB	FFA35A2VEB
RZAG71M7Y1B	P				3	2		P				3	2				P		
RZAG100M7Y1B		P			4	3	2		P			4	3	2			P		
RZAG125M7Y1B			P		4	3	2		P			4	3	2			P		
RZAG140M7Y1B	2			P	4	3			P			4	3				P		

Sky Air	Floor standing type				Slim duct			Ceiling-suspended			
Model	FVA71MAVEB	FVA100MAVEB	FVA125MAVEB	FVA140MAVEB	FDX35F3Y1B	FDX35F3Y1B	FDX35F3Y1B	FHA35AVEB	FHA35AVEB	FHA35AVEB	FHA35AVEB
RZAG71M7Y1B	P				3	2		3	2		P
RZAG100M7Y1B		P			4	3		4	3	2	P
RZAG125M7Y1B			P		4	3		4	3	2	P
RZAG140M7Y1B				P	4	3		4	3	2	P

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

Notes

- Maximum capacity is limited based on outdoor unit capacity.
- When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
- For the selection of the correct refnet kit, required to install a multi-combination, refer to the option list.

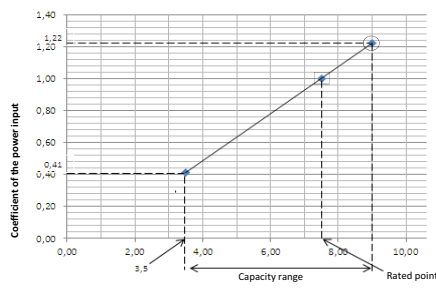
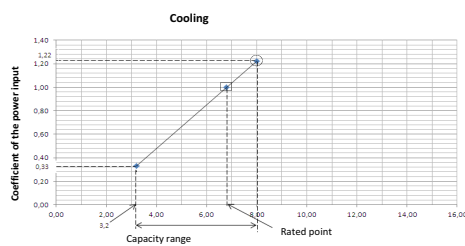
Twin : KHRQ(M)58T
Triple : KHRQ(M)58H
Double twin : KHRQ(M)58T

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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG71MV1 RZAG71MY1



Heating

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

Indoor		Outdoor temperature (°C DB)											
		25				30				35			
°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	25	6.03	5.45	1.00	7.76	5.30	1.11	7.98	5.20	1.21	7.95	5.05	1.32
18.0	25	6.40	5.45	1.05	8.11	5.12	1.13	8.28	5.10	1.22	8.28	5.05	1.33
19.5	27	6.59	5.45	1.05	8.35	5.12	1.13	8.58	5.10	1.22	8.58	5.05	1.33
19.5	27	6.59	5.45	1.05	8.35	5.12	1.13	8.58	5.10	1.22	8.58	5.05	1.33
21.0	27	6.59	5.45	1.05	8.35	5.12	1.13	8.58	5.10	1.22	8.58	5.05	1.33
22.0	27	6.59	5.45	1.05	8.35	5.12	1.13	8.58	5.10	1.22	8.58	5.05	1.33
24.0	27	6.59	5.45	1.05	8.35	5.12	1.13	8.58	5.10	1.22	8.58	5.05	1.33

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions.
 ○ = Rated capacity and rated coefficient of the power input.
 The maximum capacity is not guaranteed except at standard conditions.
 - SHC is based on indoor units EWB & EDB.
 SHC for other dry-bulb temperatures = SHC + SHC*
 SHC* = SHC correction for other dry-bulb temperatures
 = 0.02 x AFR (m³/min) x (L-BF) x (DB* - EDB)
 - The capacities are based on the following conditions:
 Outdoor air: 85% RH
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0m
 - 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.

Pair		FCAG71G	FCAG71A	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
AFR	21.2	15.3	18.0	18.0	20.5	23.0	18.0	18.0
BF	(0.20)	(0.14)	(0.16)	(0.16)	(0.13)	(0.24)	(0.13)	(0.13)

Twin		FCAG35A X 2	FHA35A X 2	FFA35A X 2	FXM35F3 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	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)	(0.17 x 2)

Indoor		Outdoor temperature (°C WB)											
		-15.0				-10.0				-5.0			
°CDB	kW	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
16	6.44	0.93	7.09	0.99	7.55	1.02	7.79	1.06	9.00	1.12	9.71	1.19	1.24
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	1.28
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	1.31
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	1.33
22	6.42	1.06	7.06	1.11	7.52	1.15	7.76	1.19	9.00	1.27	9.71	1.33	1.36
24	6.41	1.09	7.05	1.15	7.51	1.20	7.75	1.23	9.00	1.32	9.67	1.36	1.38

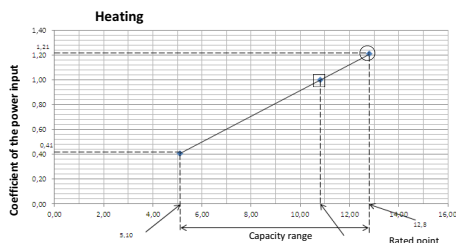
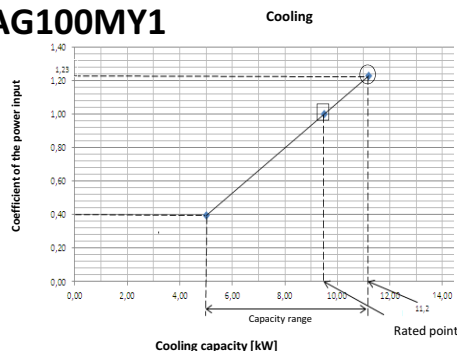
9. The rated power input for each model is mentioned in the table below.

Pair		FCAG71G	FCAG71A	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
Cooling	1.55	1.78	1.88	1.87	1.64	1.61	1.86	
Heating	1.60	2.29	2.19	2.33	2.07	1.95	2.10	

Twin		FCAG35A X 2	FHA35A X 2	FFA35A X 2	FXM35F3 X 2	FBA35A X 2	FNA35A X 2
Cooling	1.47	1.33	1.63	1.73	1.62	1.73	1.73
Heating	1.53	1.62	1.74	2.17	1.82	2.17	2.17

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RZAG100MV1 RZAG100MY1



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

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions.
 ○ = Rated capacity and rated coefficient of the power input.
 The maximum capacity is not guaranteed except at standard conditions.
 - SHC is based on indoor units EWB & EDB.
 SHC for other dry-bulb temperatures = SHC + SHC*
 SHC* = SHC correction for other dry-bulb temperatures
 = 0.02 x AFR (m³/min) x (L-BF) x (DB* - EDB)
 - The capacities are based on the following conditions:
 Outdoor air: 85% RH
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0m
 - 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.

Pair		FCAG100G	FCAG100A	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
AFR	32.3	22.8	26.0	28.0	28.0	31.0	29.0	29.0
BF	(0.17)	(0.17)	(0.10)	(0.20)	(0.09)	(0.20)	(0.03)	(0.03)

Twin		FCAG50A X 2	FHA50A X 2	FFA50A X 2	FXM50F3 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	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)	(0.13 x 2)	(0.11 x 2)

Triple		FCAG35A X 3	FHA35A X 3	FFA35A X 3	FXM35F3 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	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)	(0.17 x 3)

Indoor		Outdoor temperature (°C DB)											
		25				30				35			
°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	25	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
19.5	27	12.00	7.57	1.02	11.62	7.44	1.12	11.20	7.26	1.23	10.80	7.04	1.33
19.5	27	12.15	7.59	1.02	11.74	7.37	1.13	11.43	7.34	1.23	10.91	7.04	1.34
21.0	27	12.80	7.52	1.02	12.37	7.36	1.13	11.90	7.16	1.24	11.52	7.03	1.35
22.0	27	13.30	7.42	1.03	12.88	7.27	1.14	12.40	7.06	1.25	11.97	6.91	1.36

Indoor		Outdoor temperature (°C WB)											
		-15.0				-10.0				-5.0			
°CDB	kW	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
16	8.58	0.92	9.45	0.98	10.1	1.02	10.4	1.05	12.8	1.11	13.8	1.18	1.23
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	1.27
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	1.30
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	1.32
22	8.55	1.04	9.42	1.10	10.0	1.14	10.3	1.18	12.8	1.26	13.8	1.32	1.34
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	1.38

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

Pair							
	FCAHG100G	FCAG100A	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	1,88	2,15	2,14	2,24	1,95	2,24	2,26
Heating	2,12	2,72	2,45	2,88	2,58	2,62	2,78

Twin		FCAG50A X 2	FHA50A X 2	FFA50A X 2	FXM50F3 X 2	FBA50A X 2	FNA50A X 2
Cooling	1.94	1.95	2.50	1.89	1.98	2.89	2.89
Heating	2.04	2.55	3.16	2.47	2.68	2.47	2.47

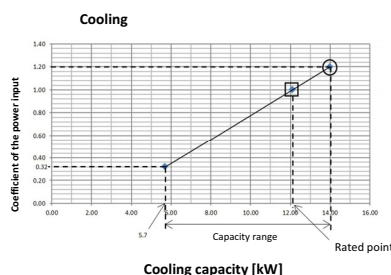
Triple		FCAG35A X 3	FHA35A X 3	FFA35A X 3	FXM35F3 X 3	FBA35A X 3	FNA35A X 3
Cooling	1.74	1.84	2.02	1.99	2.21	1.99	1.99
Heating	2.07	2.06	3.14	2.85	2.23	2.85	2.85

3D112141

6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG125MV1 RZAG125MY1



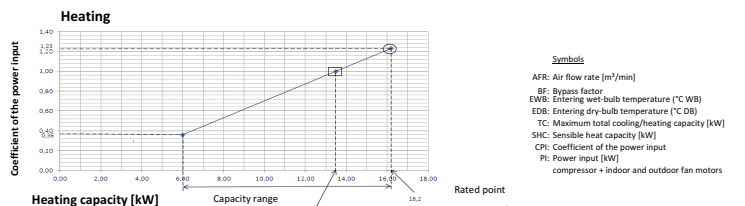
- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions
□ = Rated capacity and rated coefficient of the power input
The maximum capacity is not guaranteed except at standard conditions.
 - SHC is based on indoor units EWB & EDB.
SHC for other dry-bulb temperatures = SHC + SHC*
SHC* = SHC correction for other dry-bulb temperatures
= 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
 - The capacities are based on the following conditions:
Outdoor air: 85% RH
However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
 - 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.

Pair	FCAG125G	FCAG125A	FDA125A	FVA125A	FUA125A	FBA125A
AFR	33.5	26.0	39.0	28.0	31.0	32.5
(BF)	(0.19)	(0.21)	(0.16)	(0.16)	(0.14)	(0.19)

Twin	FCAG60A X 2	FHA60A X 2	FFA60A X 2	FXDM60F3 X 2	FBA60A X 2	FNA60A X 2
AFR	13.6 x 2	19.5 x 2	14.5 x 2	18.0 x 2	16.0 x 2	16.0 x 2
(BF)	(0.20 x 2)	(0.20 x 2)	(0.11 x 2)	(0.12 x 2)	(0.18 x 2)	(0.12 x 2)

Triple	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FXDM50F3 X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 x 3	15.0 x 3	12.0 x 3	15.8 x 3	15.0 x 3	16.0 x 3
(BF)	(0.22 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin	FCAG35A X 4	FHA35A X 4	FFA35A X 4	FXDM35F3 X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 x 4	14.0 x 4	10.0 x 4	8.7 x 4	15.0 x 4	8.7 x 4
(BF)	(0.40 x 4)	(0.17 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)



Indoor	Outdoor temperature [°C DB]															
	25			30			35			40						
	°CWB	°CDB	SHC	CPI	°CWB	°CDB	SHC	CPI	°CWB	°CDB	SHC	CPI	°CWB	°CDB	SHC	CPI
16.0	22	14.10	9.54	0.99	13.60	9.30	1.09	13.30	9.12	1.19	12.60	8.78	1.29	12.00	8.30	1.39
18.0	25	14.70	9.50	0.99	14.20	9.32	1.09	13.70	9.09	1.20	13.20	8.83	1.30	12.60	8.30	1.40
19.0	27	15.00	9.32	1.00	14.50	9.34	1.10	14.00	9.06	1.20	13.50	8.87	1.31	12.90	8.30	1.41
19.5	27	15.21	9.32	1.00	14.68	9.26	1.11	14.15	9.08	1.20	13.64	8.81	1.31	13.00	8.30	1.42
22.0	30	16.00	9.39	1.00	15.47	9.34	1.11	14.90	8.95	1.21	14.39	8.74	1.32	13.70	8.30	1.43
24.0	32	16.70	9.31	1.01	16.30	9.09	1.11	15.50	8.83	1.23	14.97	8.63	1.33	14.30	8.30	1.44

Heating													
Indoor	Outdoor temperature [°C WB]												
	-15.0		-10.0		-5.0		0.0		6.0		10.0		
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—	
16	11.0	0.94	12.1	1.00	12.9	1.03	13.2	1.06	16.2	1.13	17.5	1.20	
18	11.0	0.98	12.1	1.03	12.9	1.08	13.2	1.11	16.2	1.18	17.5	1.25	
20	11.0	1.02	12.0	1.05	12.9	1.13	13.2	1.15	16.2	1.23	17.5	1.30	
21	11.0	1.04	12.0	1.10	12.8	1.14	13.2	1.17	16.2	1.25	17.5	1.32	
22	11.0	1.06	12.0	1.12	12.8	1.16	13.2	1.20	16.2	1.28	17.4	1.34	
24	11.0	1.10	12.0	1.16	12.8	1.21	13.2	1.24	16.2	1.33	17.4	1.39	

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

Pair	FCAG125G	FCAG125A	FDA125A	FVA125A	FUA125A	FBA125A
Cooling	2.81	3.17	3.17	3.72	3.98	3.64
Heating	3.02	5.83	3.61	4.63	4.21	3.75

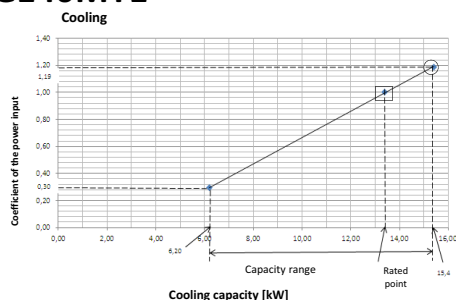
Twin	FCAG60A X 2	FHA60A X 2	FFA60A X 2	FXDM60F3 X 2	FBA60A X 2	FNA60A X 2
Cooling	2.57	2.78	3.09	2.42	3.21	2.47
Heating	3.45	4.31	3.63	3.63	3.32	3.63

Triple	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FXDM50F3 X 3	FBA50A X 3	FNA50A X 3
Cooling	2.25	2.69	2.78	2.09	3.10	2.09
Heating	2.84	3.38	3.26	2.92	3.13	2.92

Double twin	FCAG35A X 4	FHA35A X 4	FFA35A X 4	FXDM35F3 X 4	FBA35A X 4	FNA35A X 4
Cooling	2.06	2.05	2.43	2.36	2.93	2.34
Heating	2.59	2.86	3.50	3.44	2.87	3.44

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RZAG140MV1 RZAG140MY1



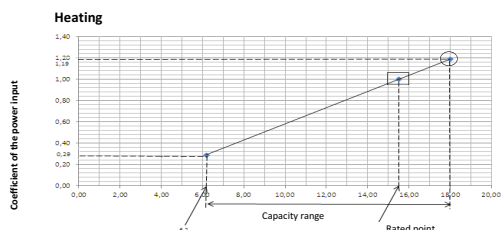
- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum at standard conditions
□ = Rated capacity and rated coefficient of the power input
The maximum capacity is not guaranteed except at standard conditions.
 - SHC is based on indoor units EWB & EDB.
SHC for other dry-bulb temperatures = SHC + SHC*
SHC* = SHC correction for other dry-bulb temperatures
= 0.02 x AFR (m³/min) x (1-BF) x (DB* - EDB)
 - The capacities are based on the following conditions:
Outdoor air: 85% RH
However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
Corresponding refrigerant piping length: 5.0 m
Level difference: 0m
 - 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.

Pair	FCAG140G	FCAG140A	FVA140A	FHA140A	FBA140A
AFR	33.5	26.0	30.0	34.0	34.0
(BF)	(0.15)	(0.23)	(0.18)	(0.17)	(0.06)

Twin	FCAG72G X 2	FCAG72A X 2	FVA72A X 2	FHA72A X 2	FUA72A X 2	FBA72A X 2
AFR	21.2 x 2	15.1 x 2	18.0 x 2	20.5 x 2	23.0 x 2	18.0 x 2
(BF)	(0.20 x 2)	(0.14 x 2)	(0.16 x 2)	(0.13 x 2)	(0.24 x 2)	(0.13 x 2)

Triple	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FXDM50F3 X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 x 3	15.0 x 3	12.0 x 3	15.8 x 3	15.0 x 3	16.0 x 3
(BF)	(0.22 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin	FCAG35A X 4	FHA35A X 4	FFA35A X 4	FXDM35F3 X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 x 4	14.0 x 4	10.0 x 4	8.7 x 4	15.0 x 4	8.7 x 4
(BF)	(0.40 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)



Cooling

Heating capacity [kW]

Indoor

25

30

35

40

Outdoor temperature [°C DB]

TC

SHC

CPI

TC

SHC

CPI

TC

SHC

CPI

TC

SHC

CPI

°CWB

°CDB

°CWB

°CDB

°CWB

°CDB

°CWB

°CDB

°CWB

°CDB

°CWB

°CDB

16.0

22

15.50

10.47

0.98

14.93

10.25

1.08

14.44

10.03

1.18

13.86

9.69

1.28

18.0

25

16.17

10.05

0.98

15.62

10.21

1.09

15.11

10.01

1.19

14.52

9.71

1.30

19.0

27

16.56

10.43

0.99

15.96

10.18

1.09

15.48

9.98

1.19

14.83

9.76

1.30

19.5

27

16.74

10.49

0.99

16.14

10.16

1.10

15.67

10.00

1.19

14.98

9.66

1.30

22.0

30

17.61

10.37

0.99

17.01

10.16

1.10

16.36

9.83

1.21

15.76

9.60

1.31

24.0

32

18.38

10.20

1.00

17.72

10.00

1.11

17.04

9.67

1.22

16.43

9.47

1.32

Heating

Indoor

-15.0

-10.0

-5.0

0.0

6.0

10.0

TC

CPI

TC

CPI

TC

CPI

TC

CPI

TC

CPI

°CDB

kW

°CDB

kW

°CDB

kW

°CDB

kW

°CDB

kW

°CDB

kW

16

11.6

0.91

12.7

0.87

13.6

1.00

13.9

1.03

18.0

1.09

19.4

1.16

18

11.6

0.95

12.7

1.00

13.6

1.04

13.9

1.07

18.0

1.14

19.4

1.21

20

11.6

0.99

12.7

1.05

13.5

1.09

13.9

1.11

18.0

1.19

19.4

1.25

21

11.5

1.00

12.7

1.06

13.5

1.11

13.9

1.13

18.0

1.21

19.4

1.28

22

11.5

1.02

12.7

1.08

13.5

1.12

13.9

1.16

18.0

1.24

19.4

1.30

24

11.5

1.06

12.7

1.12

13.5

1.16

13.9

1.21

18.0

1.29

19.4

1.34

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

Pair	FCAGH140G	FCAG140A	FVA140A	FHA140A	FBA140A
Cooling	3.44	4.21	4.61	4.49	4.30
Heating	3.49	5.83	5.56	3.46	5.04

Twin

	FCAGH71G x 2	FCAG71A x 2	FAA71A x 2	FAH71A x 2	FUA71A x 2	FBA71A x 2	FVA71A x 2
Cooling	2.71	3.33	3.77	3.64	3.30	3.48	4.13
Heating	2.79	4.79	3.05	3.10	2.90	4.82	5.24

Triple

	FCAGS0A x 3	FHAS0A x 3	FFAS0A x 3	FDXMS0F3 x 3	FBSA0A x 3	FNSA0A x 3
Cooling	3.10	3.85	3.93	2.95	3.59	2.95
Heating	4.46	2.96	5.18	3.96	4.29	3.96

Double twin	FCAG35A X 4	FHA35A X 4	FFA35A X 4	FXDM35F3 X 4	FBA35A X 4	FNA35A X 4
Cooling	2.82	2.86	3.34	3.34	3.35	3.34
Heating	5.84	3.31	5.60	4.67	3.81	4.67

3D112143

7 Dimensional drawings

7 - 1 Dimensional Drawings

AZAS100-140MV1

AZAS-MY1

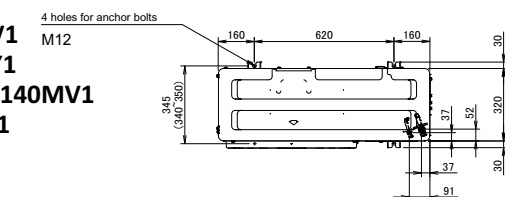
RZAG71MV1

M12

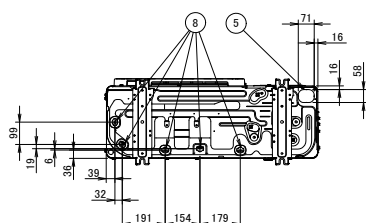
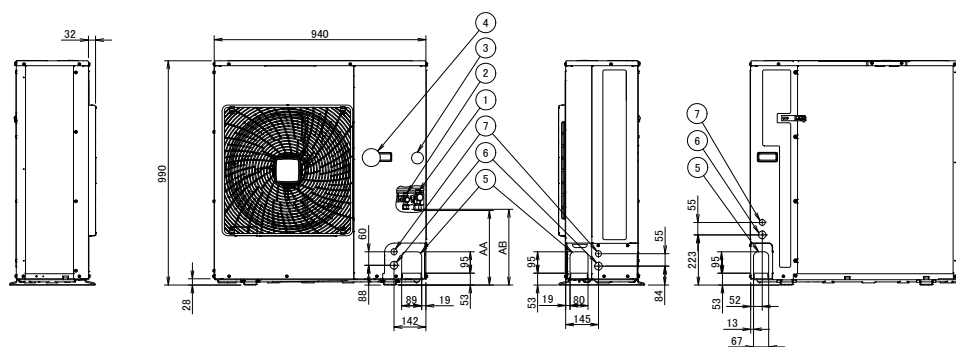
RZAG71MY1

RZASG100-140MV1

RZASG-MY1



Model	AA	AB
RZAG71* / RZASG100-125* / AZAS100-125*	331	337
RZASG140* / AZAS140*	414	420



- ① Gas pipe connection Ø15.9 flare
- ② Liquid pipe connection Ø9.5 flare
- ③ Service port (in the unit)
- ④ Electronic connection and grounding terminal M5 (in the switch box)
- ⑤ Refrigerant piping intake
- ⑥ Power supply wiring intake (knockout hole Ø34)
- ⑦ Control wiring intake (knockout hole Ø27)
- ⑧ Drain outlet

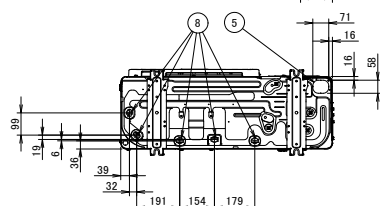
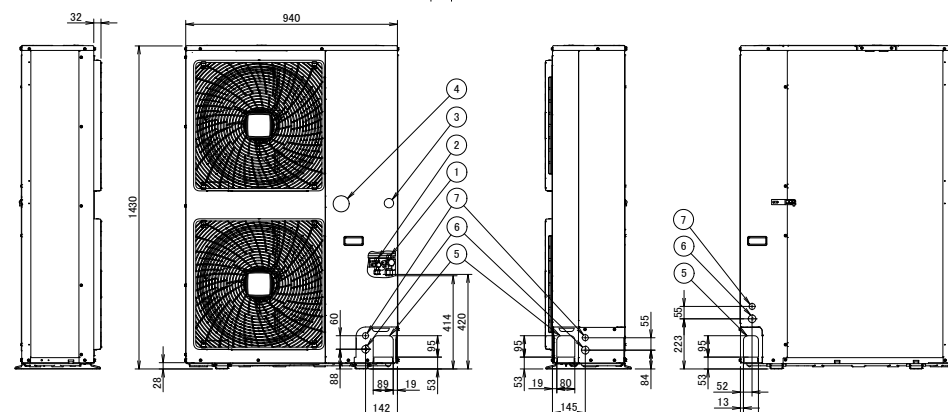
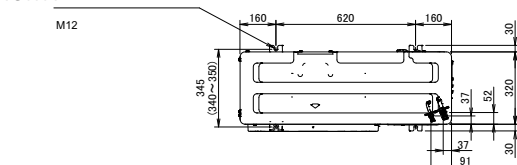
3D110011

RZAG100-140MV1

RZAG100-140MY1

4 holes for anchor bolts

M12



- ① Gas pipe connection Ø15.9 flare
- ② Liquid pipe connection Ø9.5 flare
- ③ Service port (in the unit)
- ④ Electronic connection and grounding terminal M5 (in the switch box)
- ⑤ Refrigerant piping intake
- ⑥ Power supply wiring intake (knockout hole Ø34)
- ⑦ Control wiring intake (knockout hole Ø27)
- ⑧ Drain outlet

3D110012

8 Centre of gravity

8 - 1 Centre of Gravity

AZAS100-140MV1

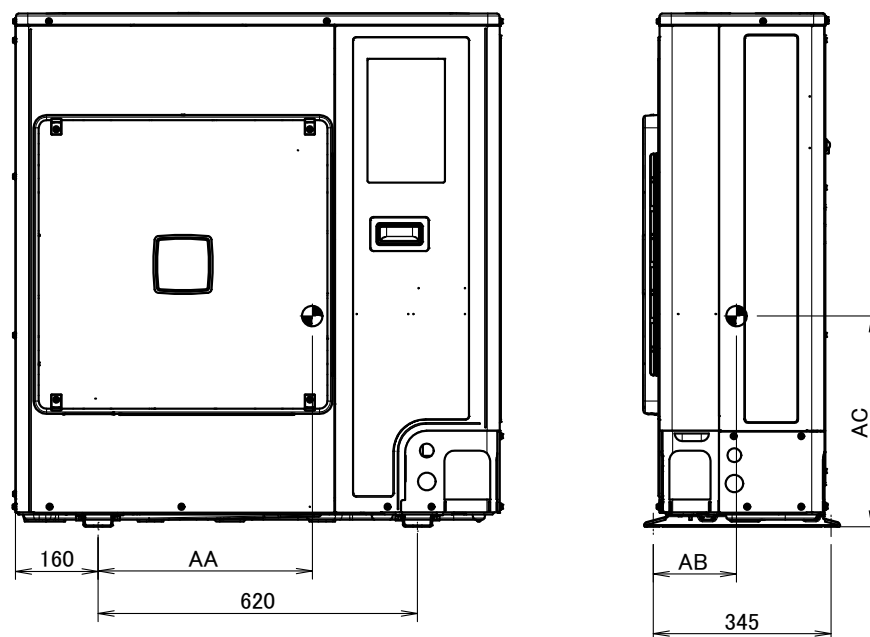
AZAS-MY1

RZAG71MV1

RZAG71MY1

RZASG100-140MV1

RZASG-MY1



Model	AA	AB	AC
RZAG71M7V*	414	163	407
RZAG71M7Y*	432	137	407
RZASG100-125M7V* / AZAS100-125M7V*	425	181	422
RZASG100-125M7Y* / AZAS100-125M7Y*	414	156	417
RZASG140M7V* / AZAS140M7V*	414	161	423
RZASG140M7Y* / AZAS140M7Y*	416	151	418

4D110025

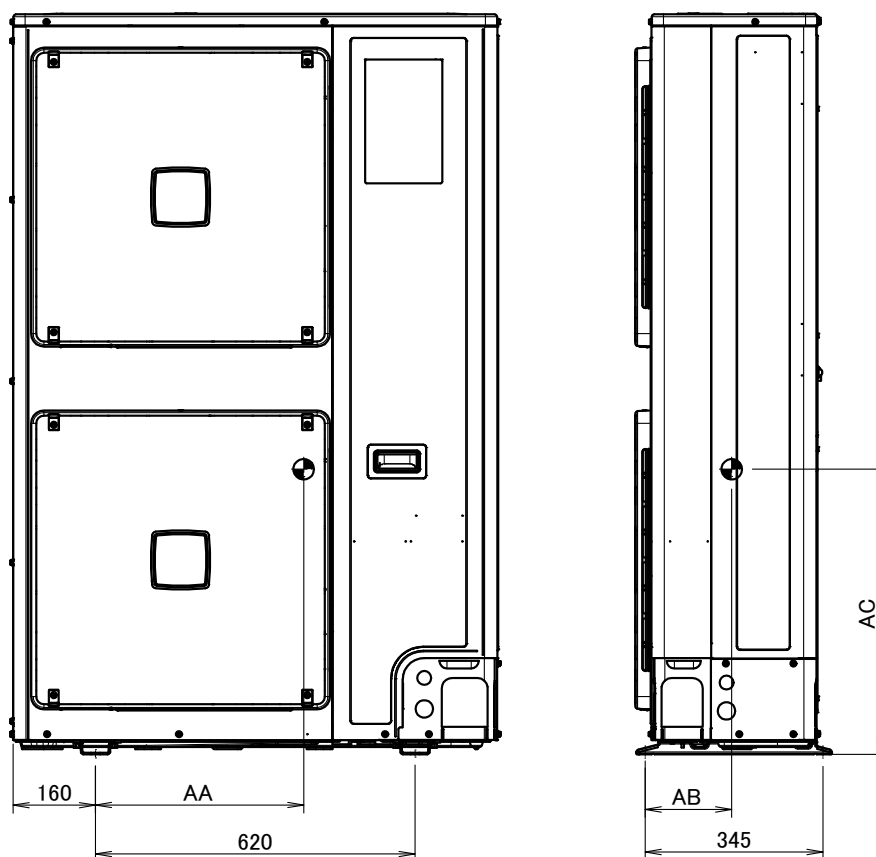
8 Centre of gravity

8 - 1 Centre of Gravity

RZAG100-140MV1

RZAG100-140MY1

8



Model	AA	AB	AC
RZAG100-140M7V*	403	176	536
RZAG100-140M7Y*	396	173	572

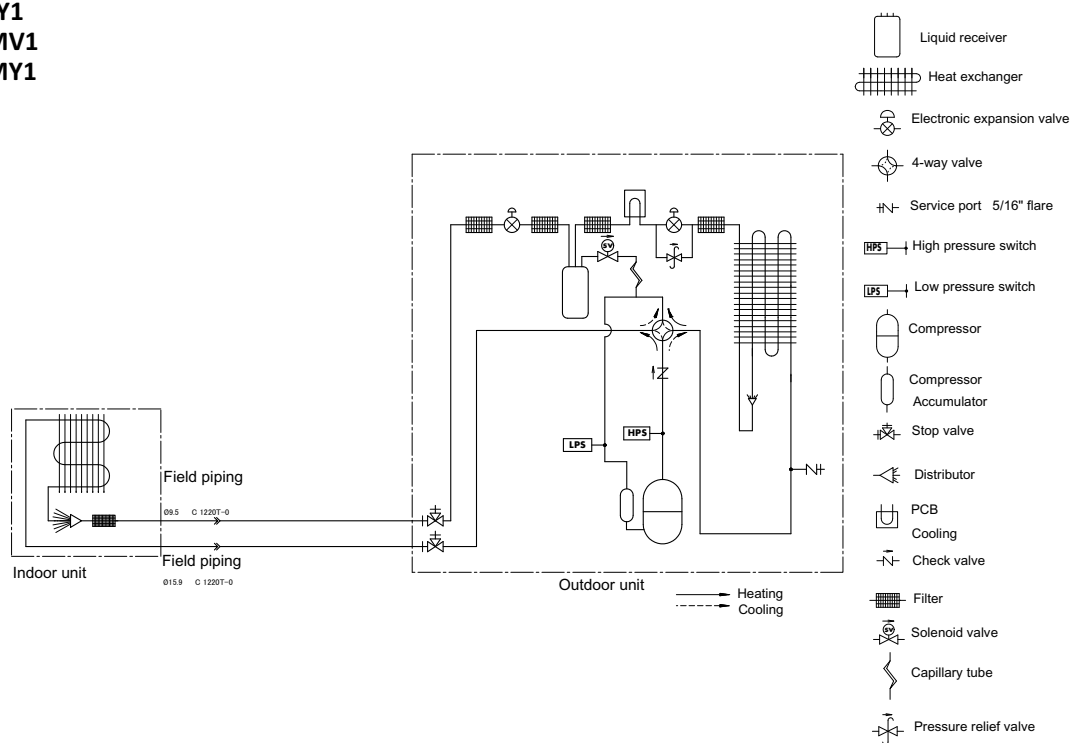
4D110026

9 Piping diagrams

9 - 1 Piping Diagrams

AZAS-MV1
AZAS-MY1
RZAG-MV1
RZAG-MY1
RZASG-MV1
RZASG-MY1

9



3D108855A

9 Piping diagrams

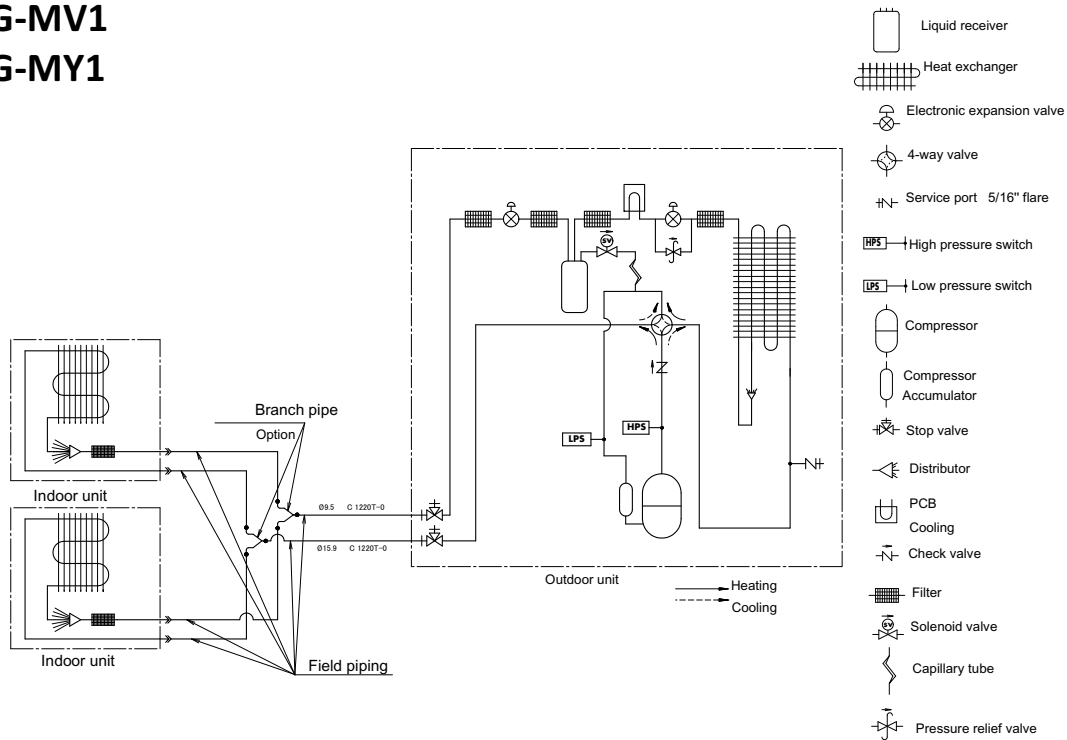
9 - 2 Piping Diagram Twin Application

RZAG-MV1

RZAG-MY1

RZASG-MV1

RZASG-MY1



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

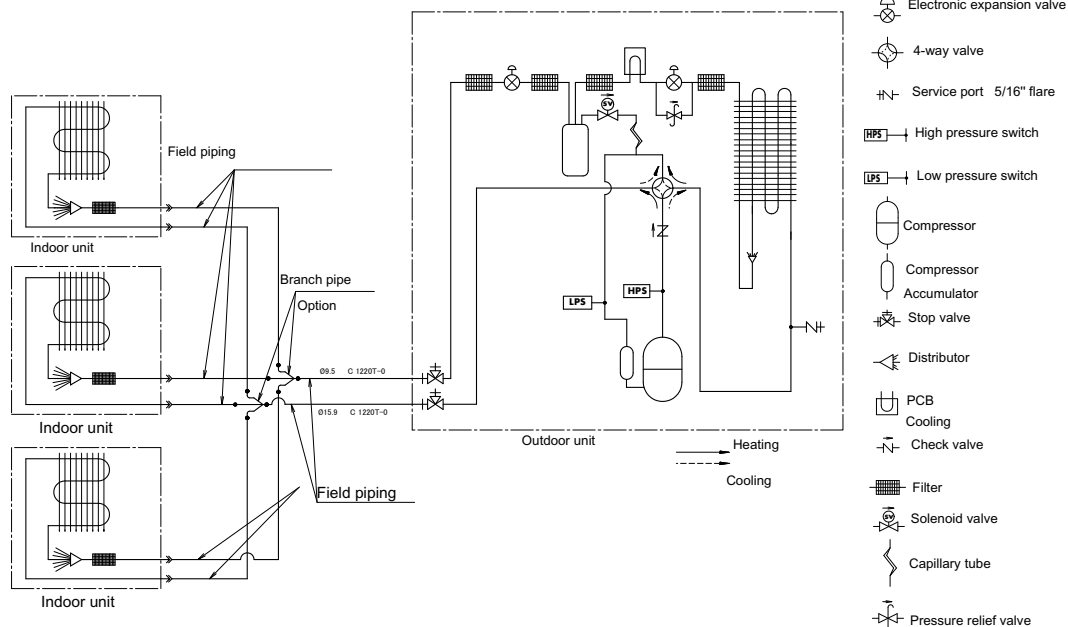
RZAG100-140MV1

RZAG100-140MY1

RZASG100-140MV1

RZASG-MY1

9



Notes

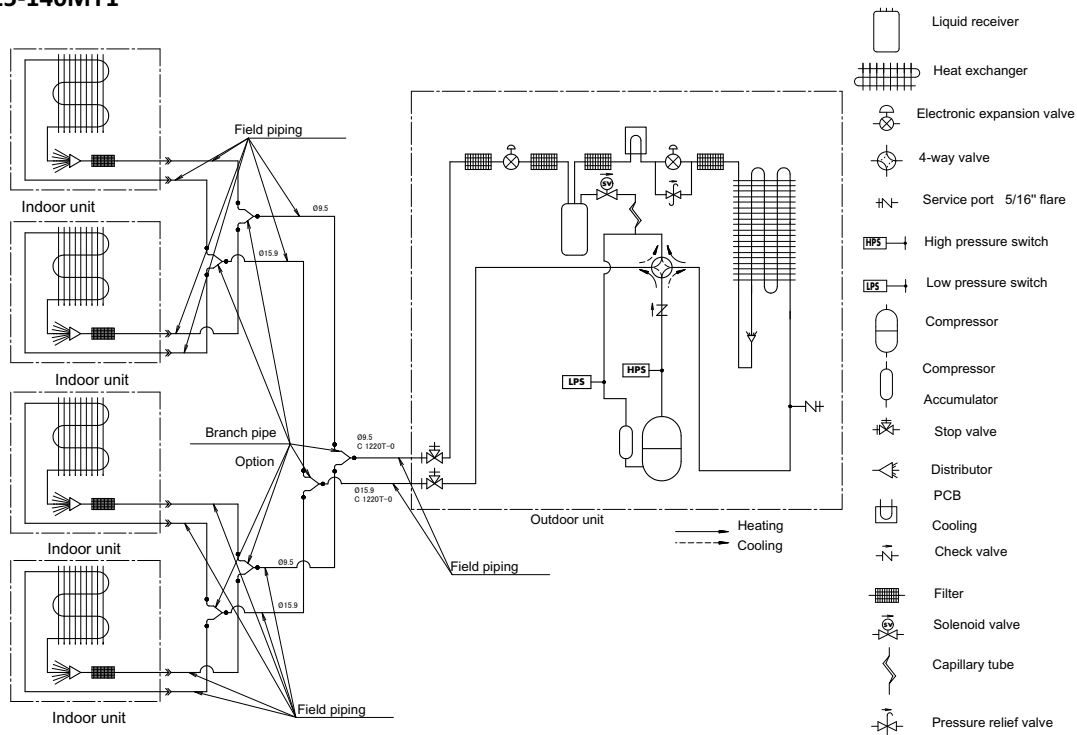
- The pipes between the branch and the indoor units should have the same size as the indoor connections.

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9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZAG125-140MV1
RZAG125-140MY1
RZASG125-140MV1
RZASG125-140MY1



Notes

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

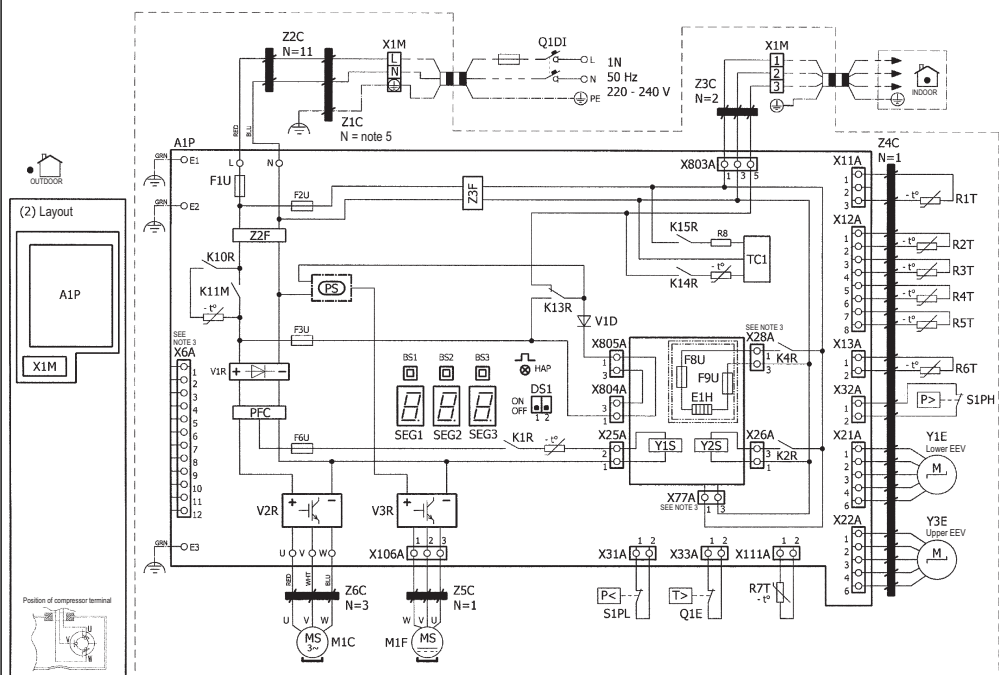
3D108858A

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

RZAG71MV1, RZASG100MV1, AZAS100MV1



X1M : Connection
 : Main terminal
 : Earth wiring
 : Field supply
 : Option
 : Switch box
 : Protective earth
 : PCB
 : Field wire

NOTES

1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BSI-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 X6A, X28A and X77A.
4. Colours: BLK: Black, RED: Red, BLU: Blue, WHT: White, GRN: Green.
5. Windings: L-N: 2 - Earth: 1

Part n°	Description
A1P	Printed circuit board (main)
BS1-3 (A1P)	Push-button switch
DS1 (A1P)	Dipswitch
E1-3 (AAP)	Connector
E1H	Bottom plate heater
F1U (A1P)	Fuse T 31.5 A 250 V
F2U (A1P)	Fuse T 6.3 A 250 V
F3U (A1P)	Fuse T 6.3 A 250 V
F6U (A1P)	Fuse T 5 A 250 V
F8-9U	Fuse F 1 A 250 V
HAP (A1P)	Light-emitting diode (service monitor is green)
K1R (A1P)	Magnetic relay (Y1S)
K2R (A1P)	Magnetic relay (Y2S)
K4R (A1P)	Magnetic relay (E1H)
K13R-K15R, K16R (A1P)	Magnetic relay
K11M (A1P)	Magnetic contactor
L (A1P)	Connector
M1C	Compressor motor
M1F	Fan motor
N (A1P)	Connector
PFC (A1P)	Power factor correction
PS (A1P)	Switching power supply
Q1DI	Earth leakage circuit breaker (30mA)
Q1E	Overload protection
R1T	Thermistor (air)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger)
R5T	Thermistor (heat exchanger middle)
R6T	Thermistor (liquid)
R7T	Thermistor (fin)
R8 (A1P)	Resistor
S1PH	High pressure switch
S1PL	Low pressure switch
SEG1-3 (A1P)	7-segment display
TC1 (A1P)	Signal transceiver circuit
U, V, W (A1P)	Connector
V1D (A1P)	Diode
V'R (A1P)	Diode module
X1M	Terminal strip
Y1E, Y3E	Electronic expansion valve
Y1-2S	Solenoid valve (4-way valve)
Z'C	Noise filter (ferrite core)
Z'F (A1P)	Noise filter

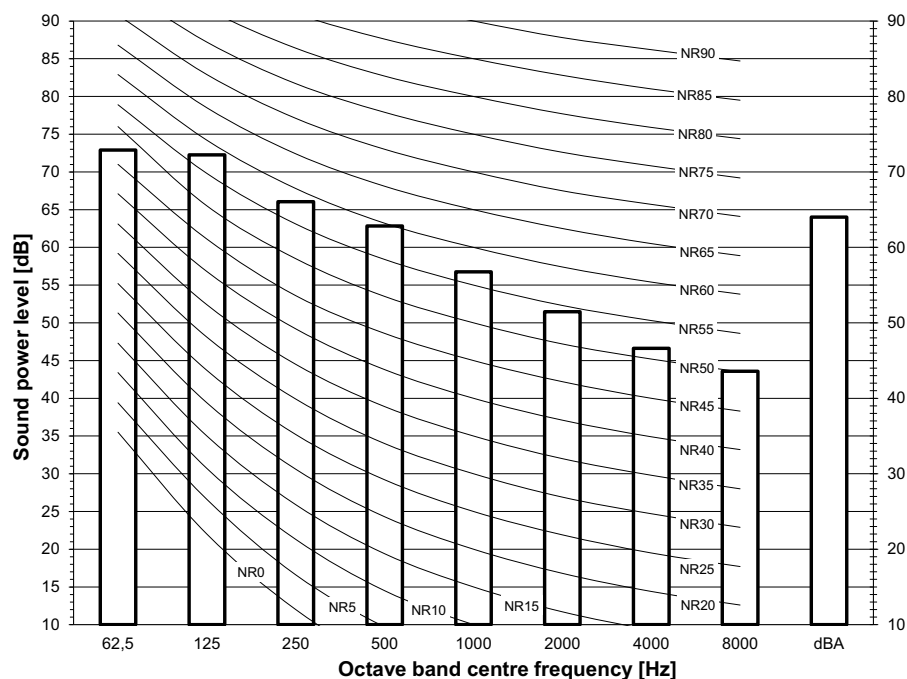
4D109936

RZAG10

11 Sound data

11 - 1 Sound Power Spectrum

RZAG71MV1

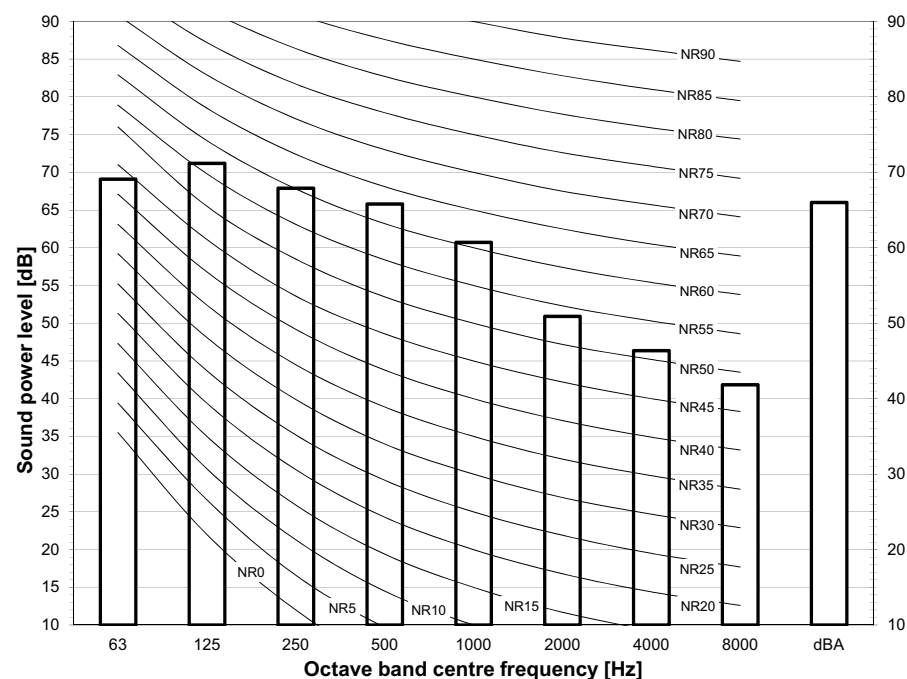


Notes

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

3D110029

RZAG100MV1



Notes

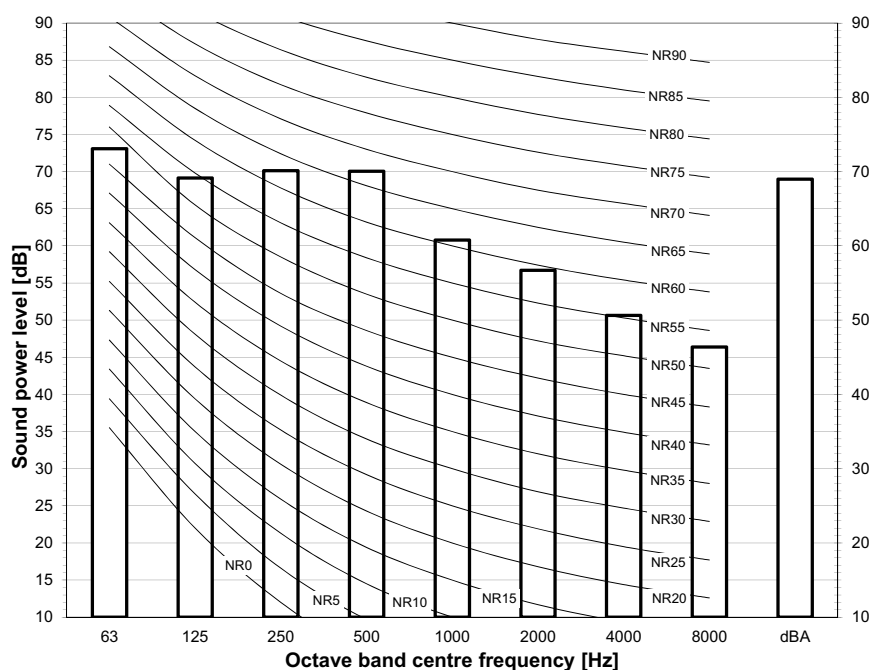
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$
- Measured according to ISO 3744

3D110030

11 Sound data

11 - 1 Sound Power Spectrum

RZAG125MV1

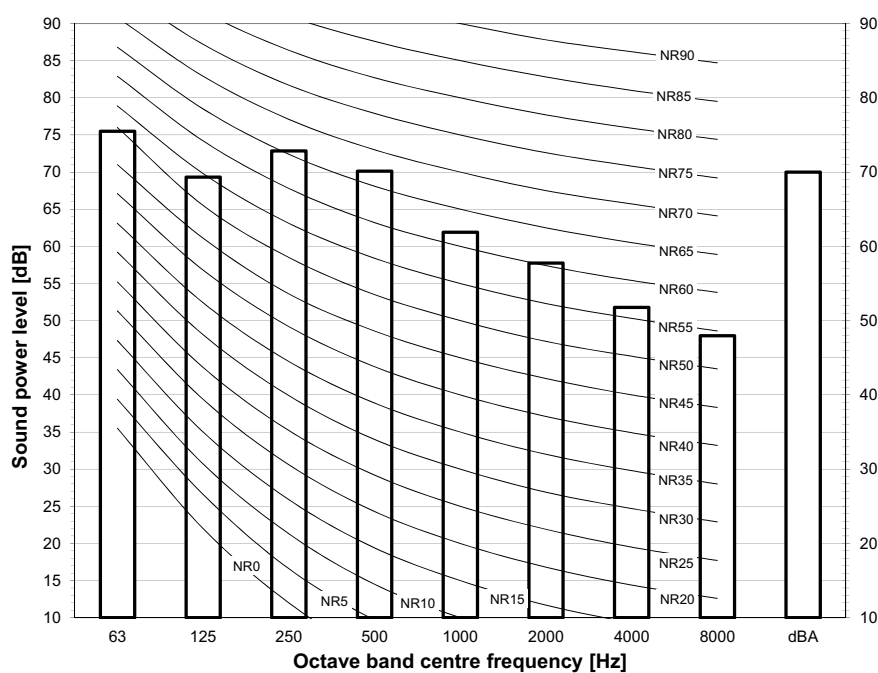


Notes

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

3D110031

RZAG140MV1



Notes

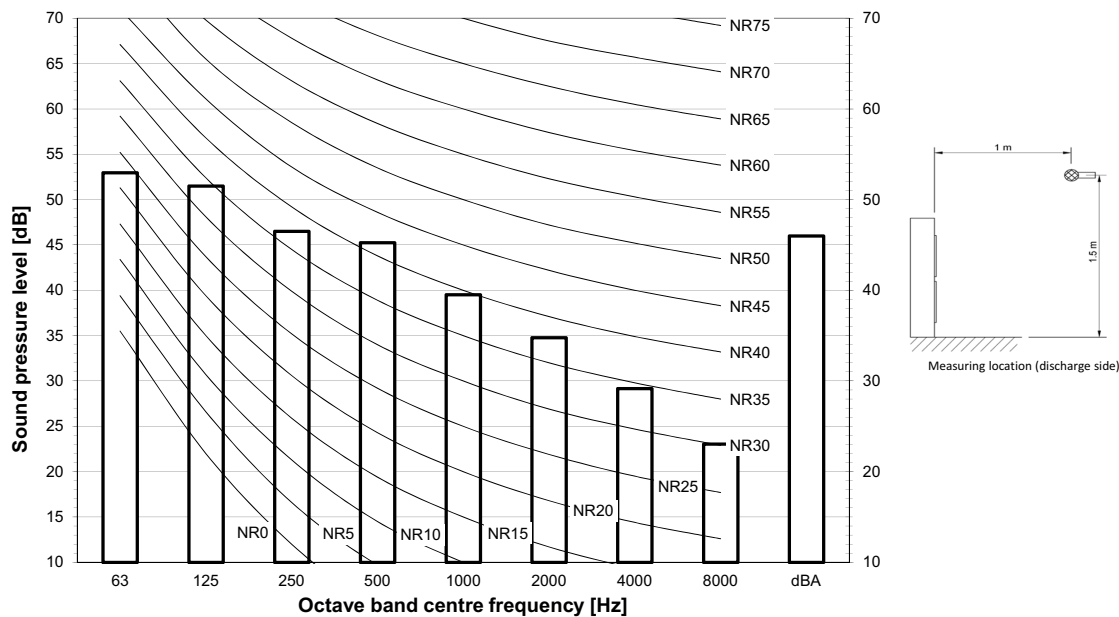
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- Measured according to ISO 3744

3D110032

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

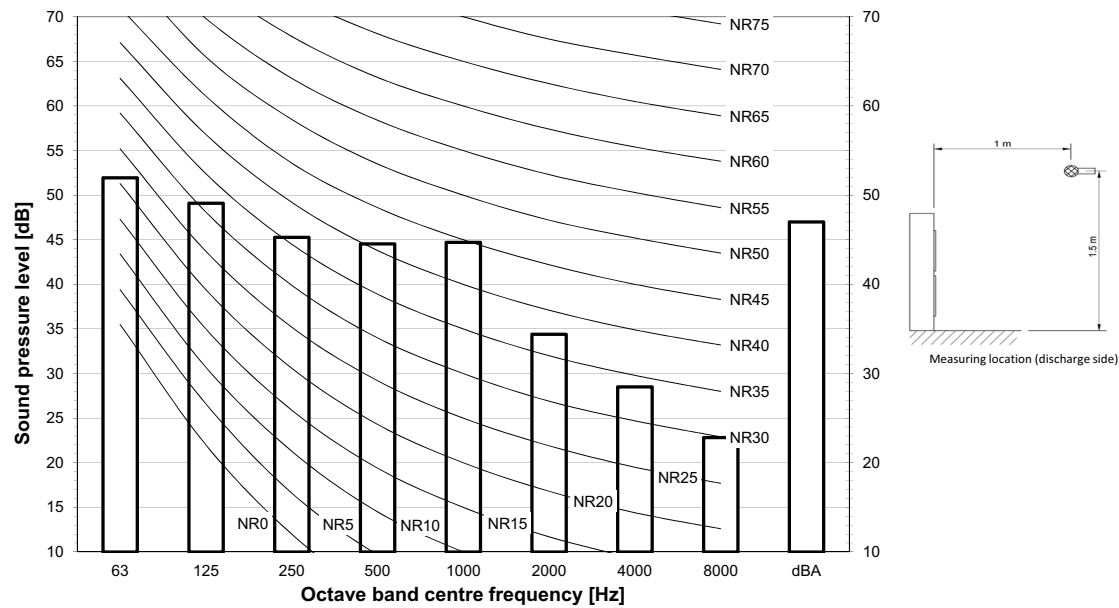
RZAG71MV1



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

3D110041

RZAG100MV1



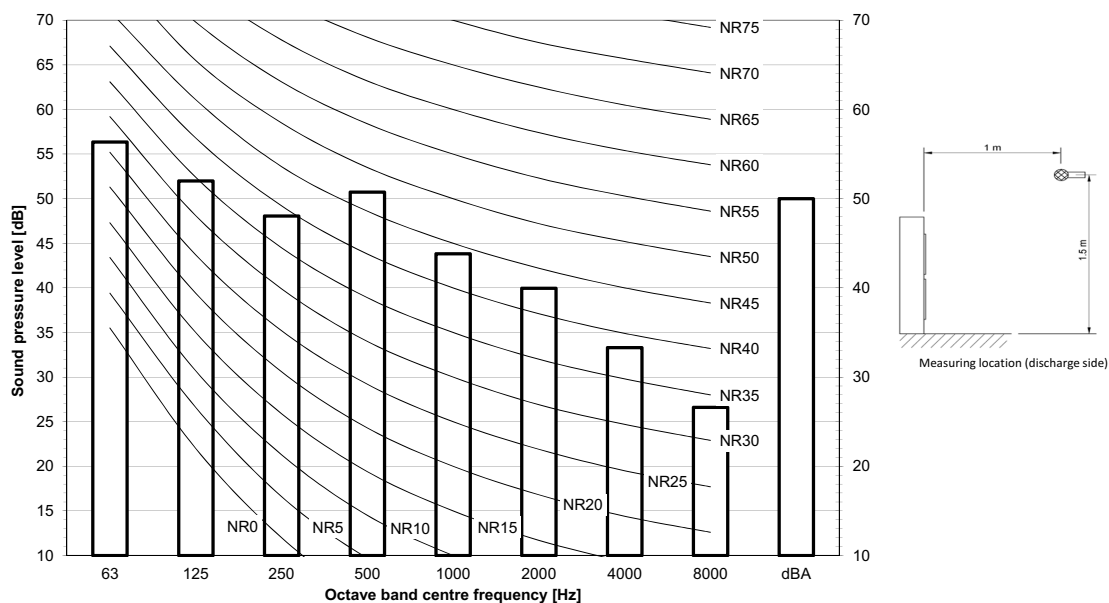
- Notes**
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 µPa

3D110042

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZAG125MV1

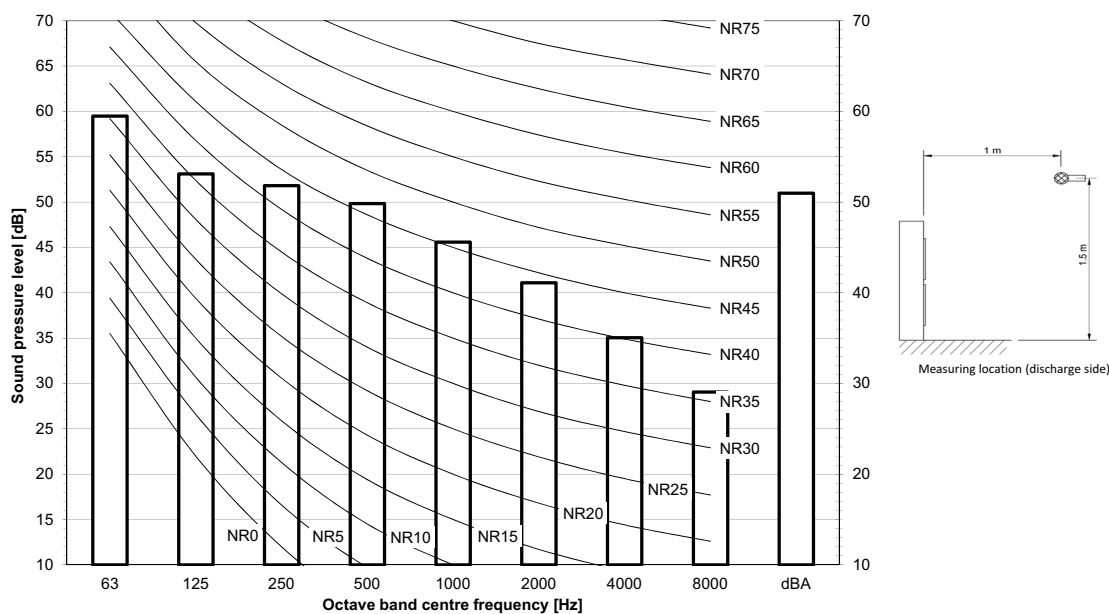


Notes

- 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

3D110043

RZAG140MV1



Notes

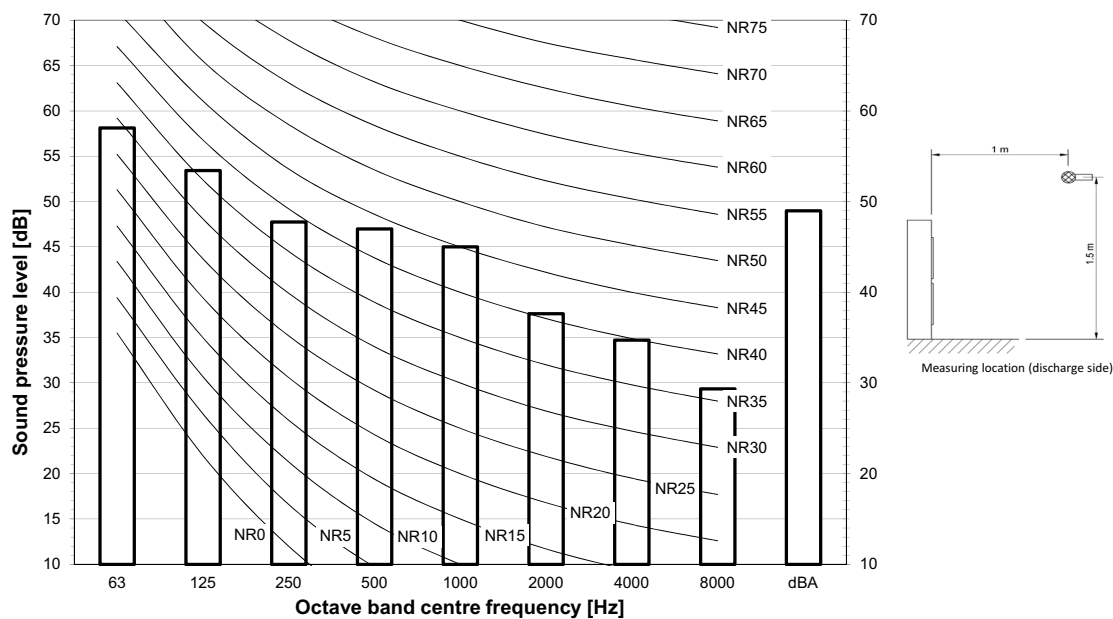
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D110044

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

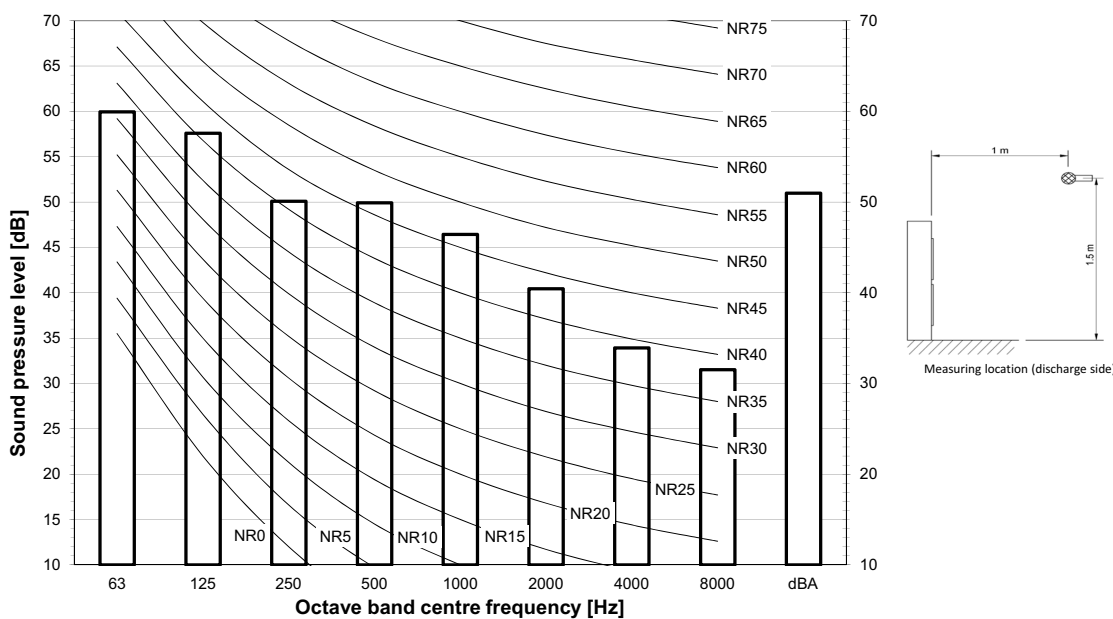
RZAG71MV1



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

3D111285

RZAG100MV1



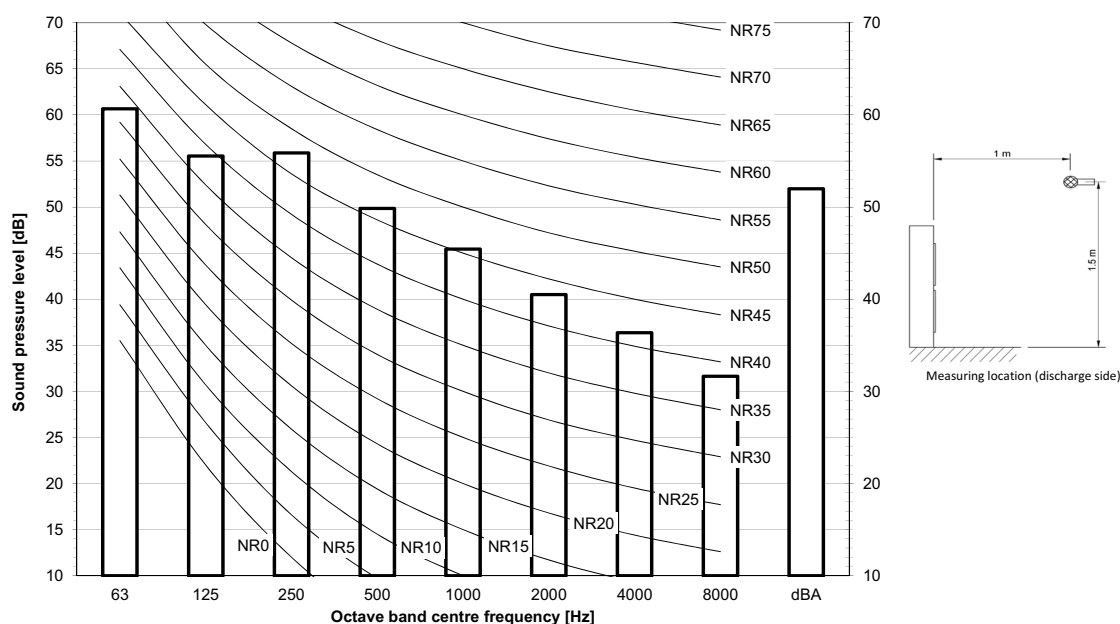
- Notes
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 µPa

3D111286

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZAG125MV1

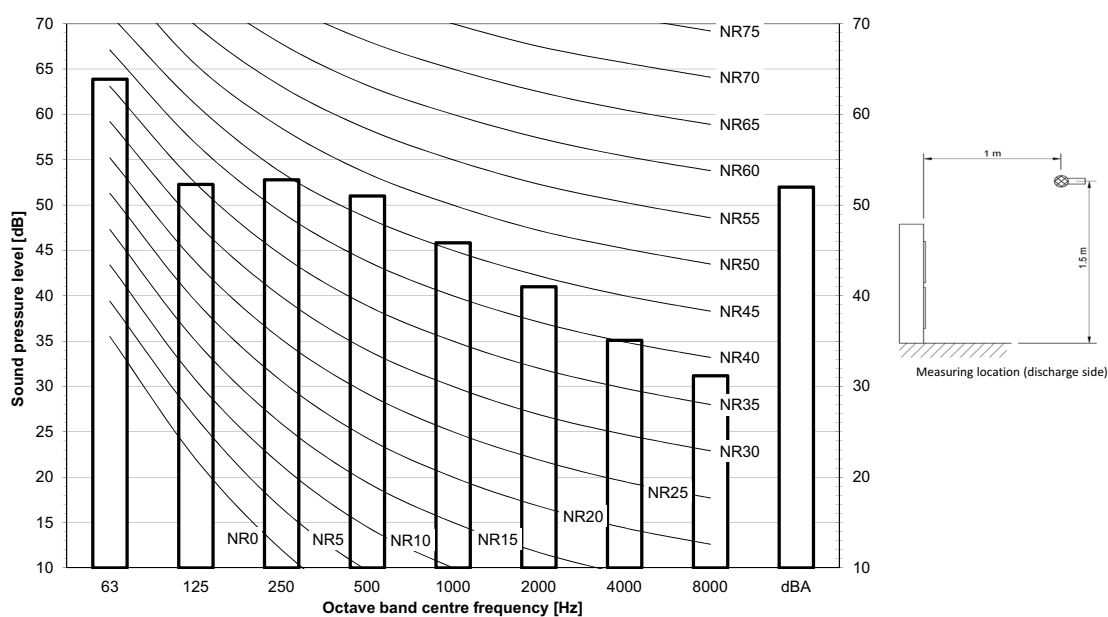


Notes

- 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

3D111287

RZAG140MV1



Notes

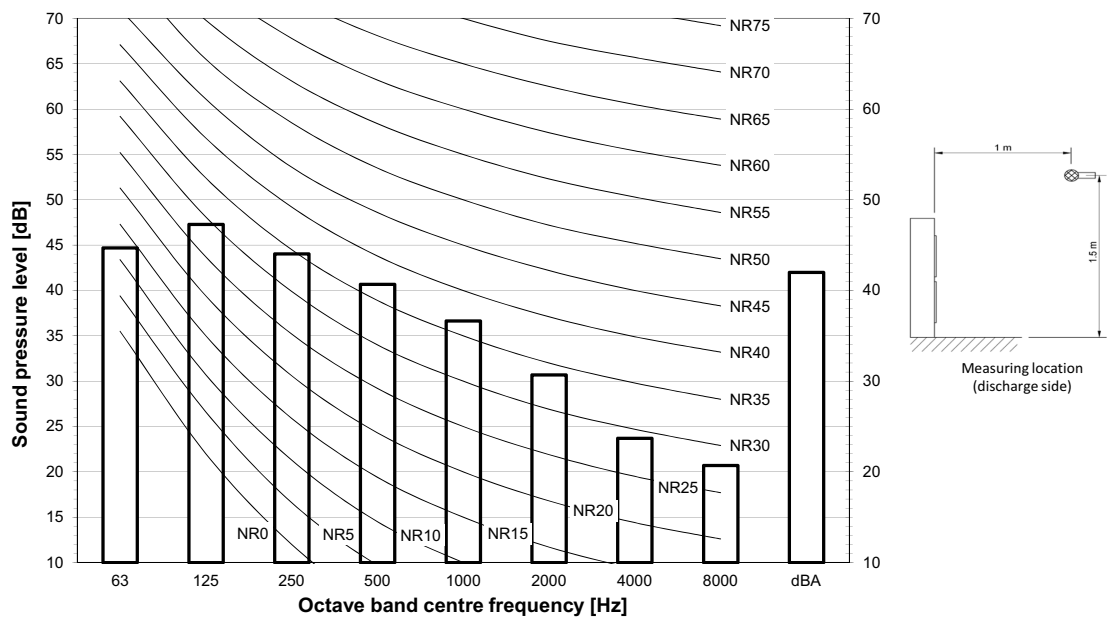
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D111288

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

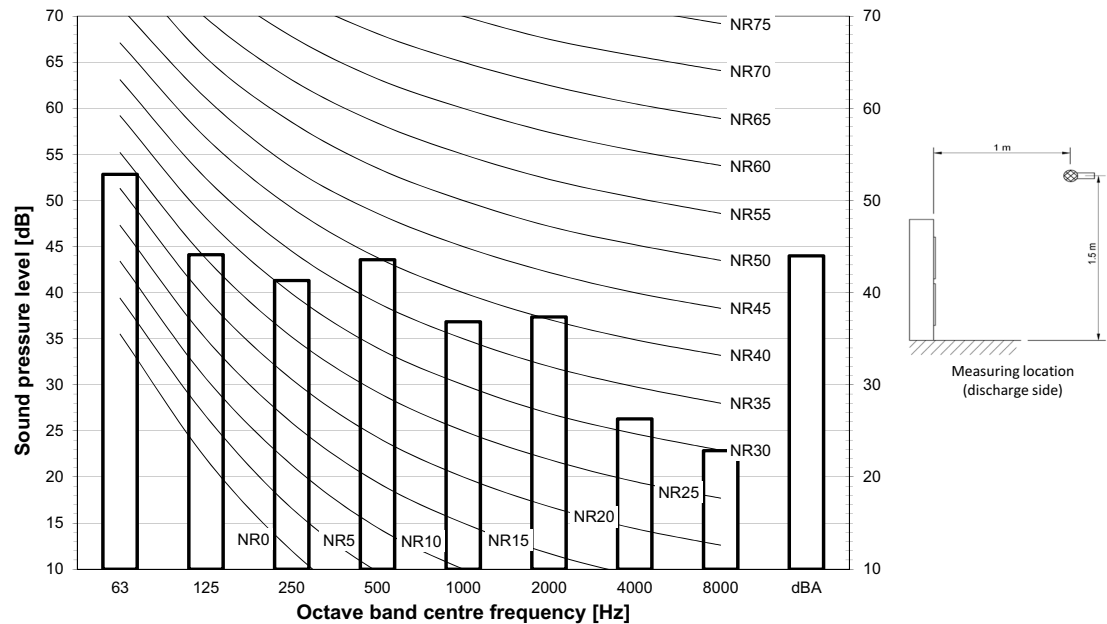
RZAG71MV1



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

3D111311

RZAG100-140MV1



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

3D111312

12 Installation

12 - 1 Installation Method

RZAG-MV1
RZAG-MY1
RZASG-MV1
RZASG-MY1
AZAS-MV1
AZAS-MY1

12

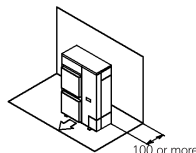
Installation service space

The measure of these values is "mm".

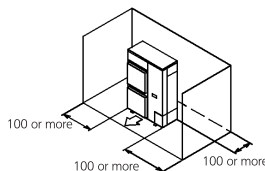
(A) When there are obstacles on suction sides.

• No obstacle above

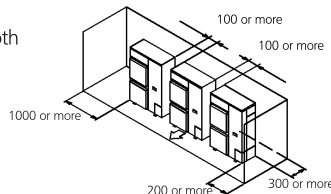
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

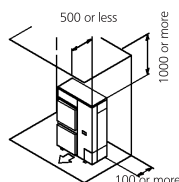


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

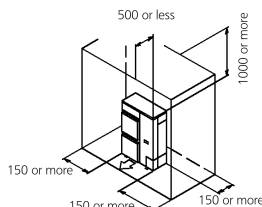


• Obstacle above, too.

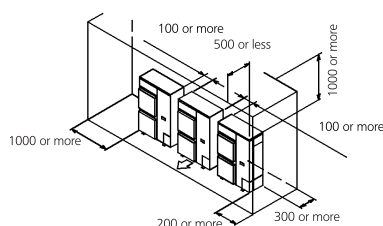
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



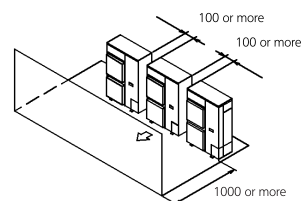
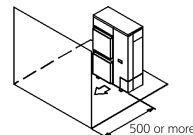
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



(B) When there are obstacles on discharge sides.

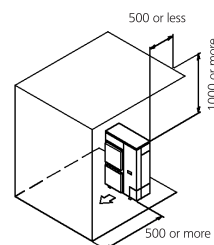
• No obstacle above

- ① Stand-alone installation
 - Obstacle on the discharge side only
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

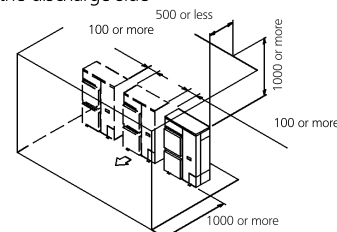


• Obstacle above, too

- ① Stand-alone installation
 - Obstacle on the discharge side only, too



- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side



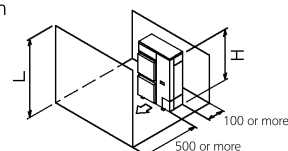
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

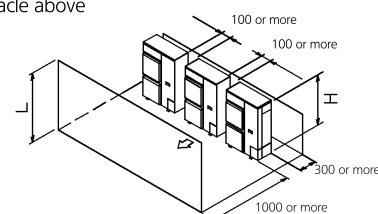
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
 - No obstacle above



- ② Series installation (2 or more) (Note 1)
 - No obstacle above



3D069554

12 Installation

12 - 1 Installation Method

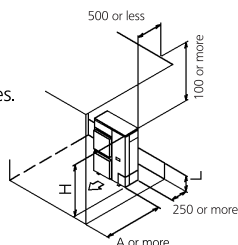
RZAG-MV1
RZAG-MY1
RZASG-MV1
RZASG-MY1
AZAS-MV1
AZAS-MY1

• Obstacle above, too

- ① Stand-alone installation (Note 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	750 or more 1000 or more
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	



- ② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

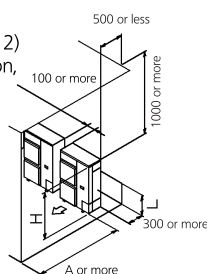
The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	1000 or more 1250 or more
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.

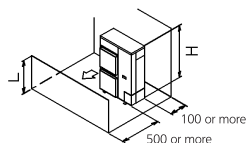
Pattern 2

When the obstacle on the discharge side is lower than the unit ($L \leq H$)
(There is no limit for the height of obstructions on the suction side.)



• No obstacle above

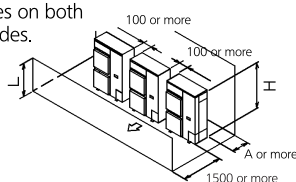
- ① Stand-alone installation
- No obstacle above



- ② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	250 or more 300 or more

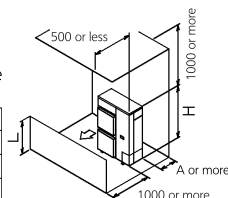


• obstacle above

- ① Stand-alone installation (Note 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	100 or more 200 or more
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	



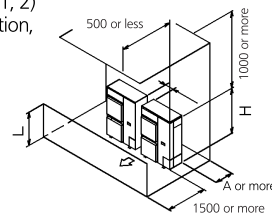
- ② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	250 or more 300 or more
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	

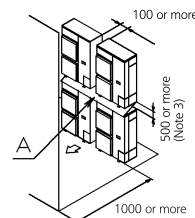
Limit of series installation is 2 units.



(D) Double-decker installation

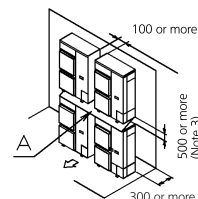
- ① Obstacle on the discharge side. (1)

- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



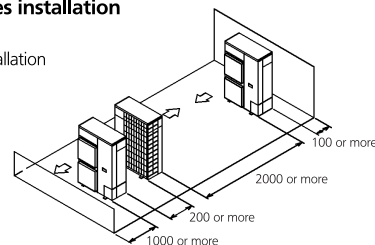
- ② Obstacle on the suction side. (1)

- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



(E) Multiple rows of series installation (on the rooftop, etc.)

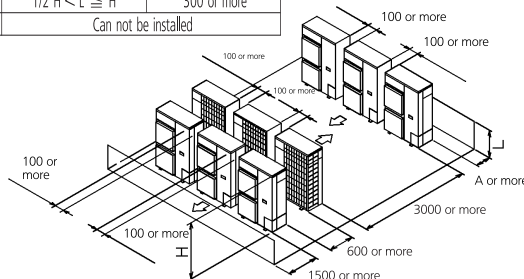
- ① One row of stand-alone installation



- ② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ $1/2 H < L \leq H$	250 or more 300 or more
$L > H$	Can not be installed	



NOTES

- In case of the sideways piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between the upper and lower outdoor units should be at least 100mm. Close off the gap between the upper and lower units so there is no re-intake of discharged air.

3D069554

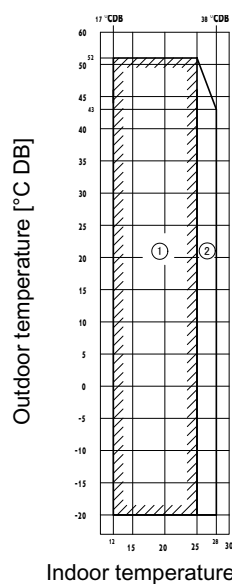
13 Operation range

13 - 1 Operation Range

RZAG-MV1

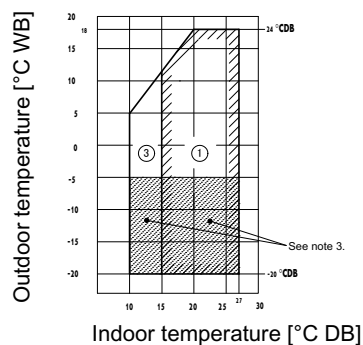
RZAG-MY1

Cooling



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

Heating

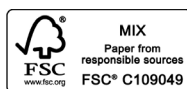


Notes

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

3D110020A

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EEEN17 08/17



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