DAIKIN

Sky Air

Air Conditioning Technical Data

RZASG-MV1

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RZASG-MV1

1 Features

Technology and comfort combined for commercial applications

- High efficiency: - Energy labels up to A++ (cooling) / A+ (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
- Very compact and easy to install
- Replace existing systems with R-32 technology without needing to replace the piping
- Guarantees operation in both heating and cooling mode down to -15°C
- Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- Maximum piping length up to 50m, minimum piping length has no limitation
- Outdoor units for pair, twin, triple, double twin application

Inverter

Auto cooling-heating changeover

2 Specifications

2-1 Capacity and Power input				FCAG71A/RZASG71MV1	FCAG100A/ RZASG100MV1	FCAG125A/ RZASG125MV1	FCAG140A/ RZASG140MV1
Indoor unit				FCAG71AVEB	FCAG100AVEB	FCAG125AVEB	FCAG140AVEB
Outdoor unit				RZASG71M2V1B	RZASG100M7V1B	RZASG125M7V1B	RZASG140M7V1B
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		6.47	6.55	5.76	6.53
		Annual energy consumption	kWh	368	507	1,261	1,231
	Heating (Average climate)	Energy efficiency class		A	A+	-	
		Pdesign	kW	4.50	6.00		7.80
		SCOP/A		4.00	4.17	4.05	4.31
		Annual energy consumption	kWh	1,575	2,016	2,074	2,534

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				FBA71A/RZASG71MV1	FBA100A/RZASG100MV1	FBA125A/RZASG125MV1	FBA140A/RZASG140MV1
Indoor unit				FBA71A2VEB	FBA100A2VEB	FBA125A2VEB	FBA140A2VEB
Outdoor unit				RZASG71M2V1B	RZASG100M7V1B	RZASG125M7V1B	RZASG140M7V1B
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+	-	
		Pdesign	kW	6.80	9.50	12.1	13.4
		SEER		6.19	5.83	5.27	5.81
		Annual energy consumption	kWh	385	570	1,378	1,384
	Heating (Average climate)	Energy efficiency class		A+	A	-	
		Pdesign	kW	4.50	6.00		7.80
		SCOP/A		4.01	3.85	3.63	3.85
		Annual energy consumption	kWh	1,571	2,182	2,314	2,836

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.

2-3 Capacity and Power input				FHA71A/RZASG71MV1	FHA100A/RZASG100MV1	FHA125A/RZASG125MV1	FHA140A/RZASG140MV1
Indoor unit				FHA71AVEB	FHA100AVEB	FHA125AVEB	FHA140AVEB
Outdoor unit				RZASG71M2V1B	RZASG100M7V1B	RZASG125M7V1B	RZASG140M7V1B
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		5.95	5.83	5.60	5.88
		Annual energy consumption	kWh	400	570	1,297	1,368
	Heating (Average climate)	Energy efficiency class		A		-	
		Pdesign	kW	4.50	6.00		7.80
		SCOP/A		3.90	3.91	3.83	3.81
		Annual energy consumption	kWh	1,616	2,148	2,193	2,866

2 Specifications

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.

2-4 Capacity and Power input				FUA71A/RZASG71MV1	FUA100A/RZASG100MV1	FUA125A/RZASG125MV1
Indoor unit				FUA71AVEB	FUA100AVEB	FUA125AVEB
Outdoor unit				RZASG71M2V1B	RZASG100M7V1B	RZASG125M7V1B
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++	A+	-
		Pdesign	kW	6.80	9.50	12.1
		SEER		6.16	5.83	5.27
		Annual energy consumption	kWh	386	570	1,378
	Heating (Average climate)	Energy efficiency class		A	A+	-
		Pdesign	kW	4.50	6.00	
		SCOP/A		3.90	4.01	3.84
		Annual energy consumption	kWh	1,615	2,095	2,188

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.

2-5 Capacity and Power input				FAA71A/RZASG71MV1	FAA100A/RZASG100MV1
Indoor unit				FAA71AUVEB	FAA100AUVEB
Outdoor unit				RZASG71M2V1B	RZASG100M7V1B
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++	A+
		Pdesign	kW	6.80	9.50
		SEER		6.41	5.83
		Annual energy consumption	kWh	371	570
	Heating (Average climate)	Energy efficiency class		A	
		Pdesign	kW	4.50	6.00
		SCOP/A		3.90	3.85
		Annual energy consumption	kWh	1,615	2,182

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.

2-6 Capacity and Power input			FVA71A/RZASG71MV1	FAV100A/RZASG100MV1	FVA125A/RZASG125MV1	FVA140A/RZASG140MV1
Indoor unit			FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB
Outdoor unit			RZASG71M2V1B	RZASG100M7V1B	RZASG125M7Y1B	RZASG140M7V1B
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

2-6 Capacity and Power input					FVA71A/RZASG71MV1	FVA100A/RZASG100MV1	FVA125A/RZASG125MV1	FVA140A/RZASG140MV1
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class			A+		-	
		Pdesign		kW	6.80	9.50	12.1	13.4
		SEER			5.83	5.72	5.30	5.63
		Annual energy consumption		kWh	408	581	1,370	1,428
	Heating (Average climate)	Energy efficiency class			A+	A	-	
		Pdesign		kW	4.50	6.00		7.80
		SCOP/A			4.04	3.83	3.64	3.81
		Annual energy consumption		kWh	1,559	2,193	2,308	2,866

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.

2-7 Technical Specifications					RZASG71MV1	RZASG100MV1	RZASG125MV1	RZASG140MV1
Capacity control	Method				Inverter controlled			
Casing	Colour				Ivory white			
	Material				Painted galvanized steel plate			
Dimensions	Unit	Height		mm	770	990		
		Width		mm	900	940		
		Depth		mm	320			
	Packed unit	Height		mm	900	1,170		
		Width		mm	980	1,015		
		Depth		mm	420	422		
Weight	Unit			kg	60	70		78
	Packed unit			kg	64	78	79	87
Packing	Weight			kg	4	9		
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			
	Air flow rate	Cooling	Nom.	m³/min	56	69	71	76
		Heating	Nom.	m³/min	50	82		
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Output			W	94	200		
	Drive				Direct drive			
	Speed	Cooling	Super low	rpm	-			
		Heating	Super low	rpm	-			
Sound power level	Cooling			dBA	65	70	71	73
	Heating			dBA	-			
Sound pressure level	Night quiet mode	Level 2		dBA	42	44		
	Cooling	Nom.		dBA	46	53		54
	Heating	Nom.		dBA	47	57		
Operation range	Cooling	Ambient	Min.	°CDB	-15			
			Max.	°CDB	46			
	Heating	Ambient	Min.	°CWB	-15			
			Max.	°CWB	15.5			

2 Specifications

2-7 Technical Specifications					RZASG71MV1	RZASG100MV1	RZASG125MV1	RZASG140MV1
Refrigerant	Type				R-32			
	Charge			kg	2.45	2.60		2.90
				TCO_2eq	1.65	1.76		1.96
	Control				Expansion valve (electronic type)			
	GWP				675			
	Circuits	Quantity			1			
Piping connections	Liquid	Quantity			1			
		Type			Flare connection			
		OD		mm	9,52			
	Gas	Quantity			1			
		Type			Flare connection			
		OD		mm	15.9			
	Drain	Quantity			3	5		
		Type			Hole			
		ID		mm	-			
		OD		mm	26			
	Piping length	OU - IU	Min.	m	5			
			Max.	m	50			
		System	Equivalent	m	70			
			Chargeless	m	30			
	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;

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

2-8 Electrical Specifications			RZASG71MV1	RZASG100MV1	RZASG125MV1	RZASG140MV1
Power supply	Name		V1			
	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-240			
Current - 50Hz	Maximum fuse amps (MFA)	A	20	25	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			

2 Specifications

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

RZASG71-100MV1

Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCAG35AVEB	x2	RZASG71M2V1B	50Hz ~ 220-240V	Minimum: 198 V	Maximum 264 V	17,6	–	20	–	15,4	0,094	0,9	0.044 x2	0.3 x2
FCAG71AVEB		RZASG71M2V1B				17,4	–	20	–	15,4	0,094	0,9	0,054	0,4
FFA35A2VEB	x2	RZASG71M2V1B				17,8	–	20	–	15,4	0,094	0,9	0.050 x2	0.4 x2
FBA35A2VEB	x2	RZASG71M2V1B				18,2	–	20	–	15,4	0,094	0,9	0.089 x2	0.6 x2
FBA71A2VEB		RZASG71M2V1B				17,5	–	20	–	15,4	0,094	0,9	0,070	0,5
FNA35A2VEB	x2	RZASG71M2V1B				17,3	–	20	–	15,4	0,094	0,9	0.034 x2	0,3
FUA71AVEB		RZASG71M2V1B				17,9	–	20	–	15,4	0,094	0,9	0,046	0,9
FAA71AUVEB		RZASG71M2V1B				17,4	–	20	–	15,4	0,094	0,9	0,048	0,4
FVA71AMVEB		RZASG71M2V1B				17,6	–	20	–	15,4	0,094	0,9	0,117	0,6
FDXM35F3V1B	x2	RZASG71M2V1B				17,6	–	20	–	15,4	0,094	0,9	0.034 x2	0.3 x2
FHA35AVEB	x2	RZASG71M2V1B				18,2	–	20	–	15,4	0,094	0,9	0.060 x2	0.6 x2
FHA71AVEB		RZASG71M2V1B				17,8	–	20	–	15,4	0,094	0,9	0,091	0,8
FCAG35AVEB	x3	RZASG100M7V1B	50Hz ~ 220-240V	Minimum: 198 V	Maximum 264 V	21,7	–	25	–	19,0	0,200	1,0	0.044 x3	0.3 x3
FCAG50AVEB	x2	RZASG100M7V1B				21,4	–	25	–	19,0	0,200	1,0	0.039 x2	0.3 x2
FCAG100AVEB		RZASG100M7V1B				21,5	–	25	–	19,0	0,200	1,0	0,117	0,7
FFA35A2VEB	x3	RZASG100M7V1B				22,0	–	25	–	19,0	0,200	1,0	0.050 x3	0.4 x3
FFA50A2VEB	x2	RZASG100M7V1B				21,6	–	25	–	19,0	0,200	1,0	0.050 x2	0.4 x2
FBA100A2VEB		RZASG100M7V1B				21,8	–	25	–	19,0	0,200	1,0	0,127	1,0
FNA35A2VEB	x3	RZASG100M7V1B				21,7	–	25	–	19,0	0,200	1,0	0.034 x3	0.3 x3
FNA50A2VEB	x2	RZASG100M7V1B				21,8	–	25	–	19,0	0,200	1,0	0.060 x2	0.5 x2
FUA100AVEB		RZASG100M7V1B				22,2	–	25	–	19,0	0,200	1,0	0,106	1,3
FAA100AUVEB		RZASG100M7V1B				21,2	–	25	–	19,0	0,200	1,0	0,064	0,4
FVA100AMVEB		RZASG100M7V1B				22,0	–	25	–	19,0	0,200	1,0	0,238	1,2
FDXM35F3V1B	x3	RZASG100M7V1B				21,7	–	25	–	19,0	0,200	1,0	0.034 x3	0.3 x3
FDXM50F3V1B	x2	RZASG100M7V1B				21,8	–	25	–	19,0	0,200	1,0	0.060 x2	0.5 x2
FHA35AVEB	x3	RZASG100M7V1B				22,7	–	25	–	19,0	0,200	1,0	0.060 x3	0.6 x3
FHA50AVEB	x2	RZASG100M7V1B				22,0	–	25	–	19,0	0,200	1,0	0.060 x2	0.6 x2
FHA100AVEB		RZASG100M7V1B				22,2	–	25	–	19,0	0,200	1,0	0,150	1,3

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RZASG125-140MV1

Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCAG35AVEB	x4	RZASG125M7V1B	50Hz ~ 220-240V	Minimum: 198 V	Maximum 264 V	28,0	–	32	–	24,7	0,200	1,0	0.044 x4	0.3 x4
FCAG50AVEB	x3	RZASG125M7V1B				27,7	–	32	–	24,7	0,200	1,0	0.039 x3	0.3 x3
FCAG60AVEB	x2	RZASG125M7V1B				27,4	–	32	–	24,7	0,200	1,0	0.044 x2	0.3 x2
FCAG125AVEB		RZASG125M7V1B				27,8	–	32	–	24,7	0,200	1,0	0,168	1,0
FFA35A2VEB	x4	RZASG125M7V1B				28,4	–	32	–	24,7	0,200	1,0	0.050 x4	0.4 x4
FFA50A2VEB	x3	RZASG125M7V1B				28,0	–	32	–	24,7	0,200	1,0	0.050 x3	0.4 x3
FFA60A2VEB	x2	RZASG125M7V1B				28,0	–	32	–	24,7	0,200	1,0	0.050 x2	0.6 x2
FBA35A2VEB	x4	RZASG125M7V1B				29,2	–	32	–	24,7	0,200	1,0	0.089 x4	0.6 x4
FBA50A2VEB	x3	RZASG125M7V1B				28,6	–	32	–	24,7	0,200	1,0	0.089 x3	0.6 x3
FBA60A2VEB	x2	RZASG125M7V1B				27,8	–	32	–	24,7	0,200	1,0	0.070 x2	0.5 x2
FBA125A2VEB		RZASG125M7V1B				28,3	–	32	–	24,7	0,200	1,0	0,187	1,5
FNA35A2VEB	x4	RZASG125M7V1B				28,0	–	32	–	24,7	0,200	1,0	0.034 x4	0.3 x4
FNA50A2VEB	x3	RZASG125M7V1B				28,3	–	32	–	24,7	0,200	1,0	0.060 x3	0.5 x3
FNA60A2VEB	x2	RZASG125M7V1B				27,8	–	32	–	24,7	0,200	1,0	0.060 x2	0.5 x2
FUA125AVEB		RZASG125M7V1B				28,2	–	32	–	24,7	0,200	1,0	0,106	1,4
FDA125A5VEB		RZASG125M7V1B				28,9	–	32	–	24,7	0,200	1,0	0,350	2,1
FVA125AMVEB		RZASG125M7V1B				28,0	–	32	–	24,7	0,200	1,0	0,238	1,2
FDXM35F3V1B	x4	RZASG125M7V1B				28,0	–	32	–	24,7	0,200	1,0	0.034 x4	0.3 x4
FDXM50F3V1B	x3	RZASG125M7V1B				28,3	–	32	–	24,7	0,200	1,0	0.060 x3	0.5 x3
FDXM60F3V1B	x2	RZASG125M7V1B				27,8	–	32	–	24,7	0,200	1,0	0.060 x2	0.5 x2
FHA35AVEB	x4	RZASG125M7V1B				29,2	–	32	–	24,7	0,200	1,0	0.060 x4	0.6 x4
FHA50AVEB	x3	RZASG125M7V1B				28,6	–	32	–	24,7	0,200	1,0	0.060 x3	0.6 x3
FHA60AVEB	x2	RZASG125M7V1B				28,0	–	32	–	24,7	0,200	1,0	0.091 x2	0.6 x2
FHA125AVEB		RZASG125M7V1B				28,3	–	32	–	24,7	0,200	1,0	0,150	1,5
FCAG35AVEB	x4	RZASG140M7V1B	50Hz ~ 220-240V	Minimum: 198 V	Maximum 264 V	27,2	–	32	–	24,0	0,200	1,0	0.044 x4	0.3 x4
FCAG50AVEB	x3	RZASG140M7V1B				26,9	–	32	–	24,0	0,200	1,0	0.039 x3	0.3 x3
FCAG71AVEB	x2	RZASG140M7V1B				26,8	–	32	–	24,0	0,200	1,0	0.054 x2	0.4 x2
FCAG140AVEB		RZASG140M7V1B				27,0	–	32	–	24,0	0,200	1,0	0,168	1,0
FFA35A2VEB	x4	RZASG140M7V1B				27,7	–	32	–	24,0	0,200	1,0	0.050 x4	0.4 x4
FFA50A2VEB	x3	RZASG140M7V1B				27,2	–	32	–	24,0	0,200	1,0	0.050 x3	0.4 x3
FBA35A2VEB	x4	RZASG140M7V1B				28,5	–	32	–	24,0	0,200	1,0	0.089 x4	0.6 x4
FBA50A2VEB	x3	RZASG140M7V1B				27,9	–	32	–	24,0	0,200	1,0	0.089 x3	0.6 x3
FBA71A2VEB	x2	RZASG140M7V1B				27,0	–	32	–	24,0	0,200	1,0	0.070 x2	0.5 x2
FBA140A2VEB		RZASG140M7V1B				27,6	–	32	–	24,0	0,200	1,0	0,187	1,5
FNA35A2VEB	x4	RZASG140M7V1B				27,2	–	32	–	24,0	0,200	1,0	0.034 x4	0.3 x4
FNA50A2VEB	x3	RZASG140M7V1B				27,6	–	32	–	24,0	0,200	1,0	0.060 x3	0.5 x3
FUA71AVEB	x2	RZASG140M7V1B				27,9	–	32	–	24,0	0,200	1,0	0.046 x2	0.9 x2
FAA71AUVEB	x2	RZASG140M7V1B				26,8	–	32	–	24,0	0,200	1,0	0.048 x2	0.4 x2
FVA71AMVEB	x2	RZASG140M7V1B				27,2	–	32	–	24,0	0,200	1,0	0.117 x2	0.6 x2
FVA140AMVEB		RZASG140M7V1B				27,5	–	32	–	24,0	0,200	1,0	0,276	1,4
FDXM35F3V1B	x4	RZASG140M7V1B				27,2	–	32	–	24,0	0,200	1,0	0.034 x4	0.3 x4
FDXM50F3V1B	x3	RZASG140M7V1B				27,6	–	32	–	24,0	0,200	1,0	0.060 x3	0.5 x3
FHA35AVEB	x4	RZASG140M7V1B				28,5	–	32	–	24,0	0,200	1,0	0.060 x4	0.6 x4
FHA50AVEB	x3	RZASG140M7V1B				27,9	–	32	–	24,0	0,200	1,0	0.060 x3	0.6 x3
FHA71AVEB	x2	RZASG140M7V1B				27,7	–	32	–	24,0	0,200	1,0	0.091 x2	0.8 x2
FHA140AVEB		RZASG140M7V1B				27,9	–	32	–	24,0	0,200	1,0	0,150	1,8

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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

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

3D110014A

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	RZAG140M7Y1B RZAG140M7V1B
Bottom plate heater		EKBPH140L7			
Refrigerant branch piping	Twin	KHRQ22M20TA			
	Triple	-	KHRQ127H		
	Double twin	-		KHRQ22M20TA (3x)	
Demand adaptor kit		SB.KRP58M52			

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)	
Demand adaptor kit		SB.KRP58M52			

Available options for AZAS models

Option	Option kit			
	AZAS71M2V1B	AZAS100M7V1B AZAS100M7Y1B	AZAS125M7V1B AZAS125M7Y1B	AZAS140M7V1B AZAS140M7Y1B
Demand adaptor kit	SB.KRP58M52			

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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 note 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		FCAHG71GVEB	FCAHG100GVEB	FCAHG125GVEB	FCAHG140GVEB	FCAG35AVEB	FCAG50AVEB	FCAG60AVEB	FCAG71AVEB	FCAG100AVEB	FCAG125AVEB	FCAG140AVEB	FFA35A2VEB	FFA50A2VEB	FFA60A2VEB	FBA35A2VEB	FBA50A2VEB	FBA60A2VEB	FBA71A2VEB	FBA100A2VEB	FBA125A2VEB	FBA140A2VEB	FNA35A2VEB	FNA50A2VEB	FNA60A2VEB	FUA71AVEB	FUA100AVEB	FUA125AVEB	FAA71AUVEB	FAA100AUVEB	FDA125A5VEB
RZAG71M7V1B	RZAG71M7Y1B	P				2			P				2			2			P				2			P			P		
RZAG100M7V1B	RZAG100M7Y1B		P			3	2			P			3	2		3	2			P			3	2			P			P	
RZAG125M7V1B	RZAG125M7Y1B			P		4	3	2			P		4	3	2	4	3	2			P		4	3	2			P			P
RZAG140M7V1B	RZAG140M7Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			2		
RZASG71M2V1B						2			P				2			2			P				2			P			P		
RZASG100M7V1B	RZASG100M7Y1B					3	2			P			3	2						P			3	2			P			P	
RZASG125M7V1B	RZASG125M7Y1B					4	3	2			P		4	3	2	4	3	2			P		4	3	2			P			P
RZASG140M7V1B	RZASG140M7Y1B					4	3		2			P	4	3		4	3		2			P	4	3		2			2		
AZAS71M2V1B									P										P										P		
AZAS100M7V1B	AZAS100M7Y1B									P										P										P	
AZAS125M7V1B	AZAS125M7Y1B										P										P										
AZAS140M7V1B	AZAS140M7Y1B											P										P									

Sky Air		Floor standing type				Slim duct			Ceiling-suspended						
Model		FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	FDXM35F3V1B	FDXM50F3V1B	FDXM60F3V1B	FHA35AVEB	FHA50AVEB	FHA60AVEB	FHA71AVEB	FHA100AVEB	FHA125AVEB	FHA140AVEB
RZAG71M7V1B	RZAG71M7Y1B	P				2			2			P			
RZAG100M7V1B	RZAG100M7Y1B		P			3	2		3	2			P		
RZAG125M7V1B	RZAG125M7Y1B			P		4	3	2	4	3	2			P	
RZAG140M7V1B	RZAG140M7Y1B	2			P	4	3		4	3		2			P
RZASG71M2V1B		P				2			2			P			
RZASG100M7V1B	RZASG100M7Y1B		P			3	2		3	2			P		
RZASG125M7V1B	RZASG125M7Y1B			P		4	3	2	4	3	2			P	
RZASG140M7V1B	RZASG140M7Y1B	2			P	4	3		4	3		2			P
AZAS71M2V1B															
AZAS100M7V1B	AZAS100M7Y1B														
AZAS125M7V1B	AZAS125M7Y1B														
AZAS140M7V1B	AZAS140M7Y1B														

Notes

1. Maximum capacity is limited based on outdoor unit capacity.
2. When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
3. 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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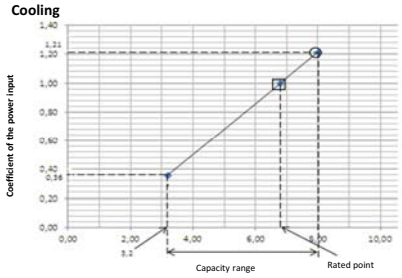
6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

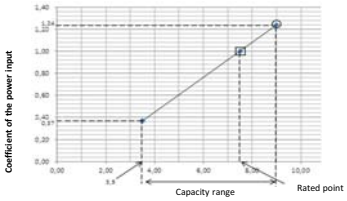
RZASG71MV1

Cooling



Cooling capacity [kW]

Heating



Heating capacity [kW]

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

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	7.29	4.95	0.92	7.28	4.99	1.08	7.50	5.21	1.20	7.20	5.06	1.32
18.0	25	8.37	5.43	1.00	8.11	5.32	1.11	7.83	5.19	1.21	7.52	5.04	1.34
19.0	27	8.54	5.41	1.01	8.28	5.31	1.11	**8.00**	**5.18**	**1.21**	7.68	5.03	1.34
19.5	27	8.63	5.40	1.01	8.37	5.30	1.11	8.08	5.17	1.21	7.76	5.03	1.34
22.0	30	9.07	5.33	1.03	8.80	5.23	1.12	8.51	5.12	1.22	8.18	4.97	1.35
24.0	32	9.43	5.25	1.03	9.15	5.16	1.13	8.85	5.05	1.23	8.51	4.90	1.36

Heating

Indoor	Outdoor temperature [°C WB]											
	-15		-10		-5		0		5		10	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	5.14	0.89	5.68	0.94	6.22	0.98	6.75	1.03	9.02	1.08	9.72	1.13
18	5.14	0.92	5.67	0.97	6.21	1.02	6.74	1.07	9.01	1.12	9.70	1.18
20	5.13	0.96	5.67	1.01	6.20	1.06	6.73	1.11	**9.00**	**1.17**	9.69	1.23
21	5.13	0.98	5.66	1.03	6.20	1.08	6.73	1.13	9.00	1.19	9.69	1.25
22	5.12	0.99	5.66	1.04	6.19	1.10	6.73	1.15	8.99	1.22	9.68	1.28
24	5.12	1.03	5.65	1.09	6.19	1.14	6.72	1.20	8.98	1.26	9.66	1.32

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

Pair

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

Twin

	FCAG35A X 2	FHA35A X 2	FFA35A X 2	FDXM35F3 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)	(0.4 x 2)	(0.17 x 2)	(0.25 x 2)	(0.17 x 2)	(0.08 x 2)	(0.17 x 2)

Pair

	FCAG71A	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
Cooling	2,17	2,00	2,01	1,78	1,77	1,89
Heating	2,38	2,09	2,25	2,00	1,85	2,09

Twin

	FCAG35A X 2	FHA35A X 2	FFA35A X 2	FDXM35F3 X 2	FBA35A X 2	FNA35A X 2
Cooling	1,81	1,47	2,08	1,77	1,78	1,77
Heating	1,89	1,55	2,80	2,02	1,62	2,02

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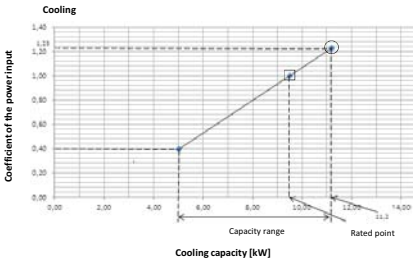
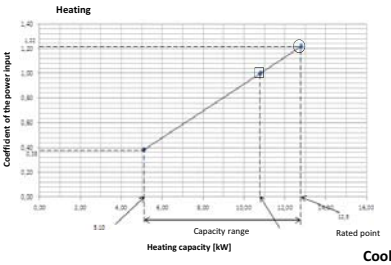
RZASG100MV1
RZASG100MY1

Cooling



Cooling capacity [kW]

Heating



Heating capacity [kW]

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

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	11.2	7.61	1.01	11.08	7.44	1.11	10.95	7.29	1.22	10.1	7.09	1.32
18.0	25	11.8	7.59	1.01	11.4	7.49	1.12	11.0	7.27	1.23	10.5	7.08	1.33
19.0	27	12.0	7.57	1.00	11.6	7.44	1.12	**11.2**	**7.26**	**1.23**	10.8	7.04	1.33
19.5	27	12.1	7.59	1.00	11.7	7.37	1.13	11.4	7.34	1.23	10.9	7.04	1.34
22.0	30	12.8	7.52	1.00	12.4	7.36	1.13	11.9	7.16	1.24	11.5	7.00	1.35
24.0	32	13.3	7.42	1.00	12.9	7.27	1.14	12.4	7.06	1.25	12.0	6.91	1.36

Heating

Indoor	Outdoor temperature [°C WB]											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	8.58	0.93	9.45	0.99	10.1	1.02	10.4	1.05	12.8	1.12	13.8	1.18
18	8.57	0.97	9.44	1.02	10.0	1.07	10.3	1.10	12.8	1.17	13.8	1.23
20	8.56	1.01	9.43	1.07	10.0	1.11	10.3	1.14	**12.8**	**1.22**	13.8	1.28
21	8.56	1.03	9.42	1.09	10.0	1.13	10.3	1.16	12.8	1.24	13.8	1.30
22	8.55	1.04	9.42	1.10	10.0	1.14	10.3	1.18	12.8	1.26	13.8	1.33
24	8.54	1.09	9.41	1.15	10.0	1.19	10.3	1.23	12.8	1.31	13.8	1.38

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

Pair

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

Twin

	FCAG50A X 2	FHA50A X 2	FFA50A X 2	FDXM50F3 X 2	FNA50A X 2
AFR	12.6 x 2	15.0 x 2	12.0 x 2	15.8 x 2	16.0 x 2
(BF)	(0.22 x 2)	(0.18 x 2)	(0.16 x 2)	(0.11 x 2)	(0.11 x 2)

Triple

	FCAG35A X 3	FHA35A X 3	FFA35A X 3	FDXM35F3 X 3	FNA35A X 3
AFR	12.5 x 3	14.0 x 3	10.0 x 3	8.7 x 3	8.7 x 3
(BF)	(0.4 x 3)	(0.17 x 3)	(0.25 x 3)	(0.17 x 3)	(0.17 x 3)

Pair

	FCAG100A	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	2,92	3,52	2,97	2,97	2,97	2,97
Heating	3,45	3,98	3,47	3,43	3,20	3,32

Twin

	FCAG50A X 2	FHA50A X 2	FFA50A X 2	FDXM50F3 X 2	FNA50A X 2
Cooling	2,57	2,97	3,39	2,44	2,44
Heating	3,33	3,26	3,89	2,96	2,96

Triple

	FCAG35A X 3	FHA35A X 3	FFA35A X 3	FDXM35F3 X 3	FNA35A X 3
Cooling	2,32	2,16	2,71	2,57	2,57
Heating	2,73	2,66	3,87	3,13	3,13

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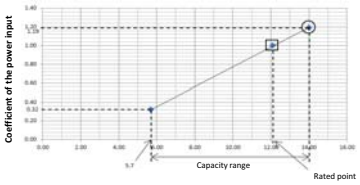
6 Capacity tables

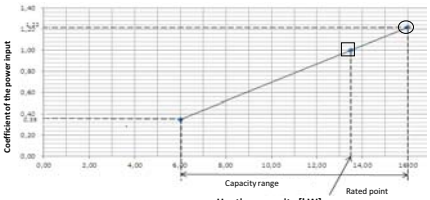
6 - 1 Cooling/Heating Capacity Tables

RZASG125MV1
RZASG125MY1

Cooling



Heating



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

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

Cooling

Indoor		Outdoor temperature [°C DB] 25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	14.10	9.54	0.97	13.60	9.30	1.08	13.10	9.12	1.18	12.60	8.78	1.28
18.0	25	14.70	9.50	0.97	14.20	9.32	1.08	13.70	9.09	1.19	13.20	8.83	1.30
19.0	27	15.00	9.52	0.99	14.50	9.34	1.09	**14.00**	**9.06**	**1.19**	13.50	8.87	1.29
19.5	27	15.20	9.52	0.99	14.70	9.26	1.09	14.20	9.08	1.19	13.60	8.81	1.30
22.0	30	16.00	9.39	0.99	15.50	9.14	1.09	14.90	8.95	1.20	14.40	8.74	1.31
24.0	32	16.70	9.31	1.00	16.10	9.09	1.11	15.50	8.83	1.21	15.00	8.63	1.32

Heating

Indoor	Outdoor temperature [°C WB] −15.0 TC	−15.0 CPI	−10.0 TC	−10.0 CPI	−5.0 TC	−5.0 CPI	0.0 TC	0.0 CPI	6.0 TC	6.0 CPI	10.0 TC	10.0 CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	10.7	0.93	11.8	0.99	12.6	1.02	13.0	1.05	16.0	1.12	17.3	1.18
18	10.7	0.97	11.8	1.02	12.5	1.07	12.9	1.10	16.0	1.17	17.3	1.23
20	10.7	1.01	11.8	1.07	12.5	1.11	12.9	1.14	**16.0**	**1.22**	17.3	1.28
21	10.7	1.03	11.8	1.09	12.5	1.13	12.9	1.16	16.0	1.24	17.3	1.31
22	10.7	1.04	11.8	1.10	12.5	1.14	12.9	1.18	16.0	1.27	17.3	1.33
24	10.7	1.09	11.8	1.15	12.5	1.19	12.9	1.23	16.0	1.31	17.3	1.38

Pair

	FCAG125A	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
AFR	26.0	39.0	28.0	31.0	32.5	34.0
(BF)	(0.21)	(0.16)	(0.16)	(0.14)	(0.19)	(0.06)

Twin

	FCAG60A X 2	FHA60A X 2	FFA60AX 2	FDXM60F3 X 2	FBA60A X 2	FNA60A X 2
AFR	13.6 x 2	19.5 x 2	14.5 x 2	16.0 x 2	18.0 x 2	16.0 x 2
(BF)	(0.2 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	FDXM50F3 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	FDXM35F3 X 4	FBA35A X 4	FNA35AX 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)	(0.4 x 4)	(0.17 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair

	FCAG125A	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
Cooling	4,95	4,73	5,11	4,79	5,37	4,84
Heating	3,44	3,18	3,60	3,35	3,24	3,23

Twin

	FCAG60A X 2	FHA60A X 2	FFA60AX 2	FDXM60F3 X 2	FBA60A X 2	FNA60A X 2
Cooling	4,15	6,21	6,01	3,87	4,28	3,87
Heating	3,29	3,23	3,39	3,29	3,15	3,29

Triple

	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F3 X 3	FBA50A X 3	FNA50A X 3
Cooling	3,74	4,42	4,65	3,37	4,08	3,37
Heating	2,94	2,94	3,18	2,92	3,08	2,92

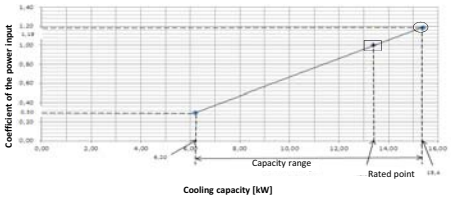
Double twin

	FCAG35A X 4	FHA35A X 4	FFA35A X 4	FDXM35F3 X 4	FBA35A X 4	FNA35AX 4
Cooling	3,34	2,89	4,00	3,80	3,83	3,80
Heating	2,63	2,75	3,33	3,20	2,80	3,20

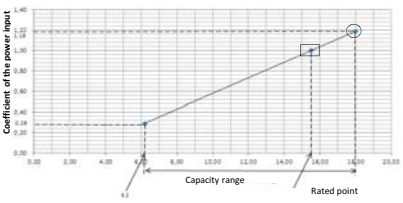
3D112146

RZASG140MV1
RZASG140MY1

Cooling



Heating



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

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

Cooling

Indoor		Outdoor temperature [°C DB] 25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	15.5	10.47	0.98	14.9	10.25	1.08	14.4	10.03	1.18	13.9	9.69	1.28
18.0	25	16.2	10.55	0.98	15.6	10.21	1.09	15.1	10.01	1.19	14.5	9.71	1.30
19.0	27	16.6	10.43	0.99	16.0	10.18	1.09	**15.4**	**9.98**	**1.19**	14.8	9.76	1.30
19.5	27	16.7	10.49	0.99	16.1	10.16	1.10	15.6	10.00	1.19	15.0	9.66	1.30
22.0	30	17.6	10.37	0.99	17.0	10.16	1.10	16.4	9.83	1.21	15.8	9.60	1.31
24.0	32	18.4	10.20	1.00	17.7	10.00	1.11	17.0	9.67	1.22	16.4	9.47	1.32

Heating

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

Pair

	FCAG140A	FVA140A	FHA140A	FBA140A
AFR	26.0	30.0	34.0	34.0
(BF)	(0.23)	(0.18)	(0.17)	(0.06)

Twin

	FCAG71A X 2	FAA71A X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FVA71A X 2
AFR	15.3 x 2	18.0 x 2	20.5 x 2	23.0 x 2	18.0 x 2	18.0 x 2
(BF)	(0.14 x 2)	(0.16 x 2)	(0.13 x 2)	(0.24 x2)	(0.13 x2)	(0.16 x2)

Triple

	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F3 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	FDXM35F3 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)	(0.4 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair

	FCAG140A	FVA140A	FHA140A	FBA140A
Cooling	4,88	5,12	4,84	4,76
Heating	5,01	5,43	5,59	5,13

Twin

	FCAG71A X 2	FAA71A X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FVA71A X 2
Cooling	3,87	4,14	3,91	3,62	3,82	4,52
Heating	4,72	4,85	4,58	4,22	5,01	5,21

Triple

	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F3 X 3	FBA50A X 3	FNA50A X 3
Cooling	3,39	4,14	4,32	2,86	3,91	2,86
Heating	4,34	4,21	5,15	4,12	4,43	4,12

Double twin

	FCAG35A X 4	FHA35A X 4	FFA35A X 4	FDXM35F3 X 4	FBA35A X 4	FNA35A X 4
Cooling	3,05	3,06	3,66	3,65	3,51	3,65
Heating	3,97	3,58	5,62	4,93	4,03	4,93

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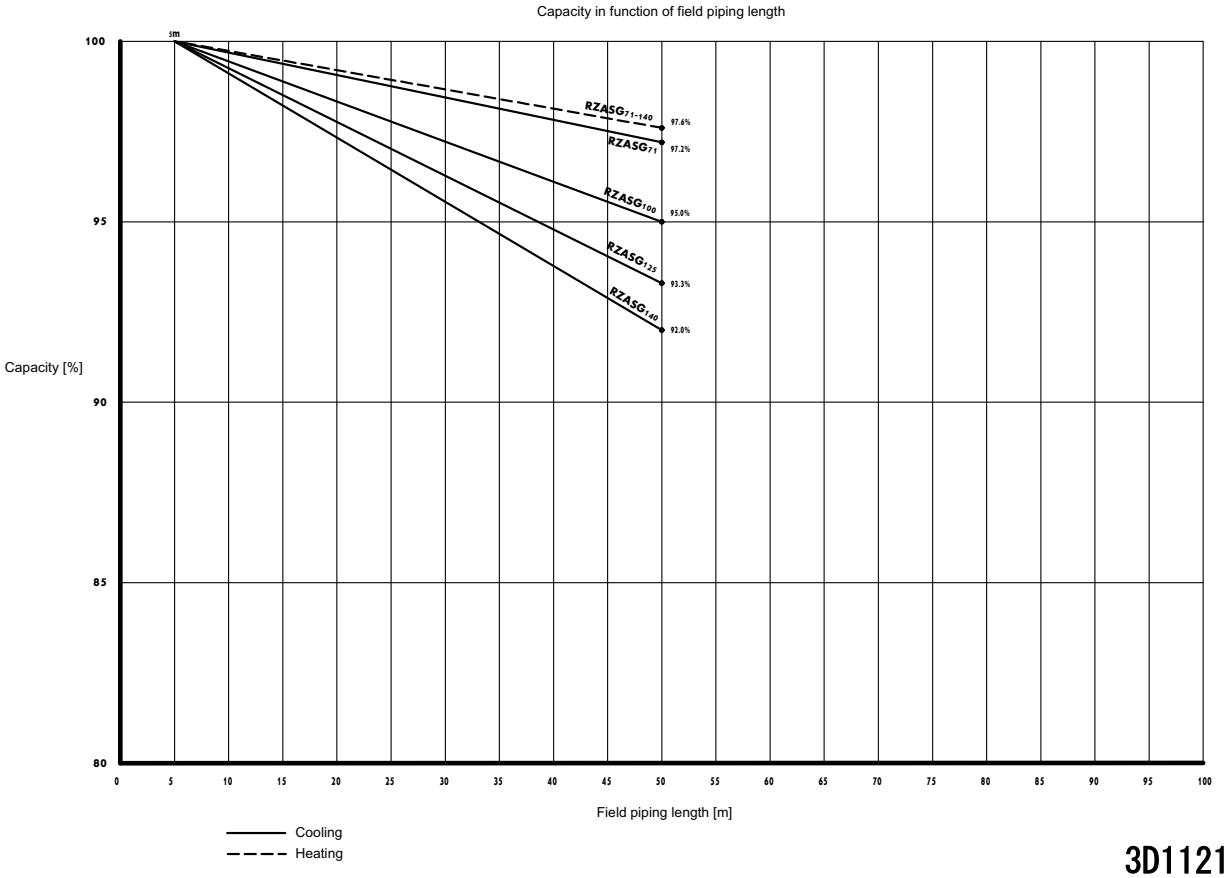
6 Capacity tables

6 - 2 Capacity Correction Factor

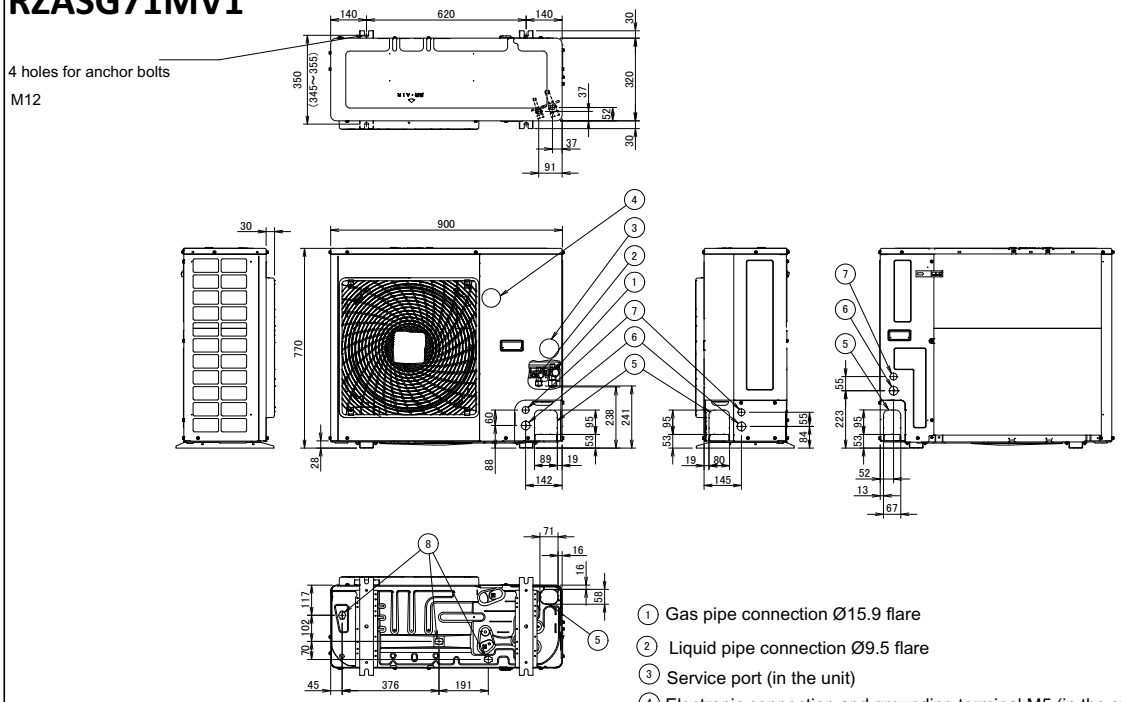
RZASG-MV1
RZASG-MY1



7 Dimensional drawings

7 - 1 Dimensional Drawings

AZAS71MV1
RZASG71MV1



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

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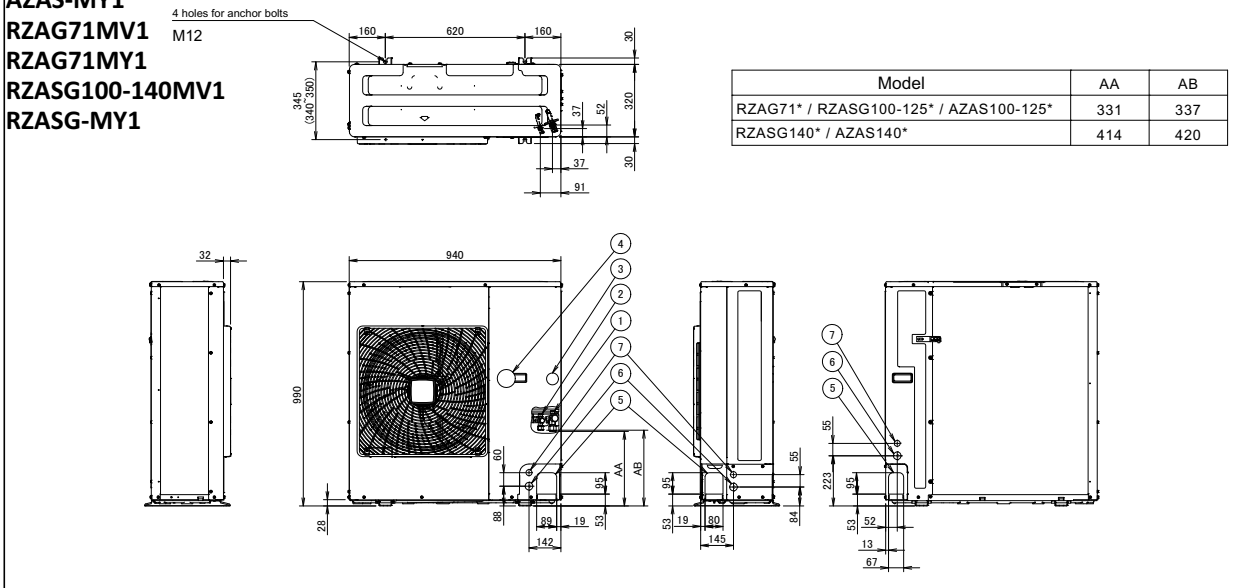
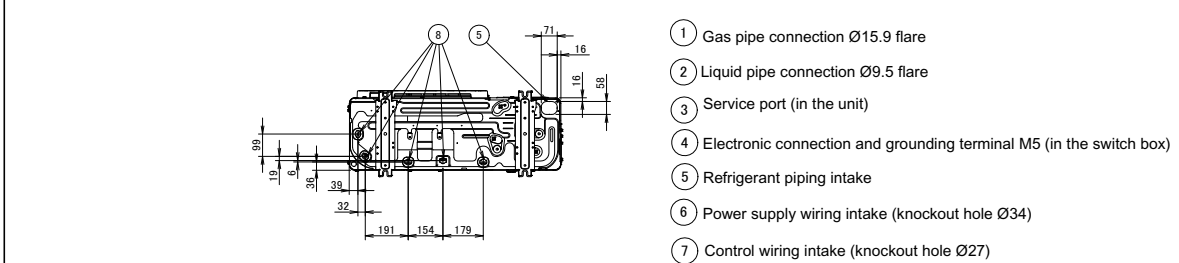
AZAS100-140MV1
AZAS-MY1
RZAG71MV1
RZAG71MY1
RZASG100-140MV1
RZASG-MY1



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



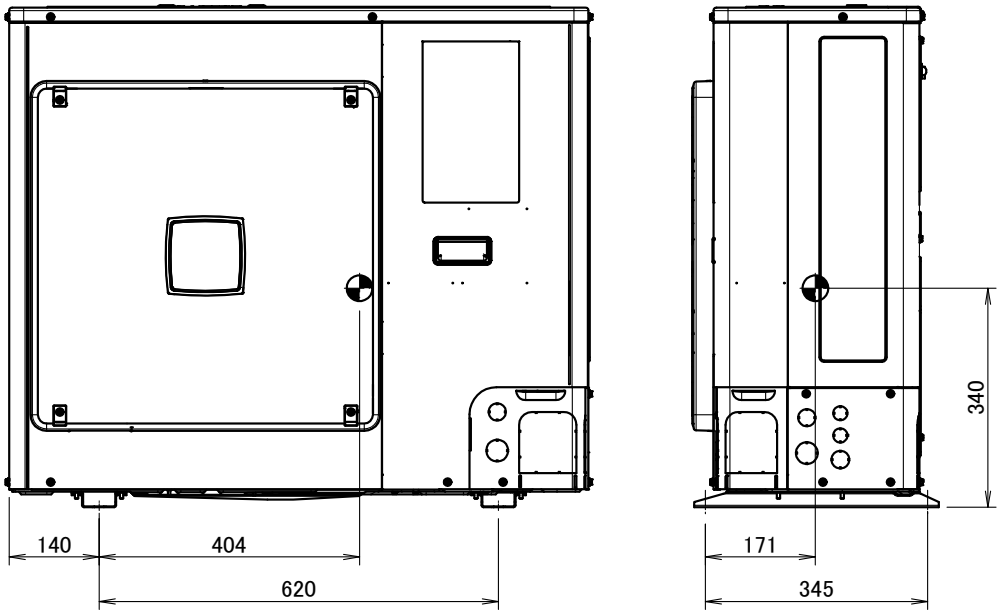
① Gas pipe connection Ø15.9 flare
② Liquid pipe connection Ø9.5 flare
③ Service port (in the unit)
④ Electronic connection and grounding terminal M5 (in the switch box)
⑤ Refrigerant piping intake
⑥ Power supply wiring intake (knockout hole Ø34)
⑦ Control wiring intake (knockout hole Ø27)
⑧ Drain outlet

3D110011

8 Centre of gravity

8 - 1 Centre of Gravity

AZAS71MV1
RZASG71MV1

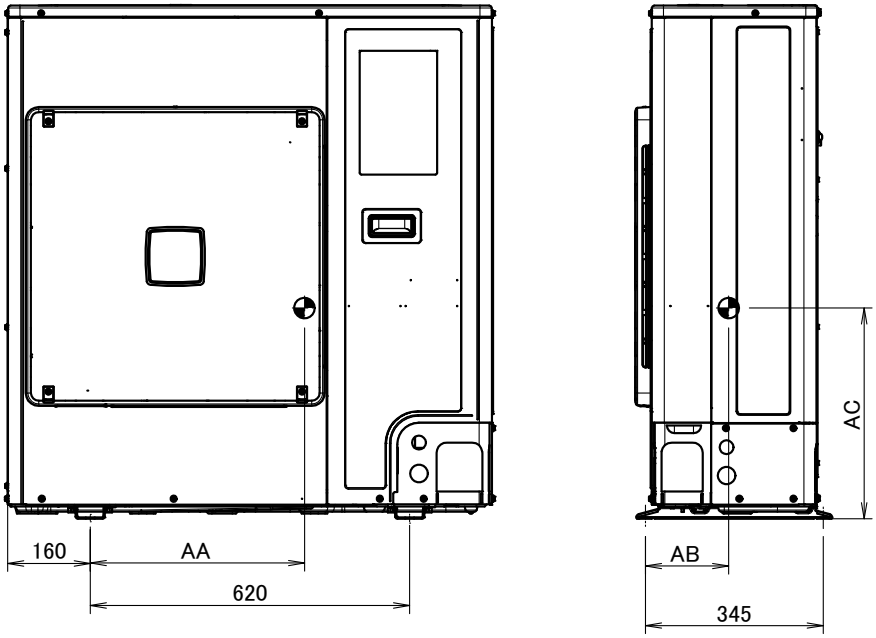


4D110027

8 Centre of gravity

8 - 1 Centre of Gravity

AZAS100-140MV1
AZAS-MY1
RZAG71MV1
RZAG71MY1
RZASG100-140MV1
RZASG-MY1



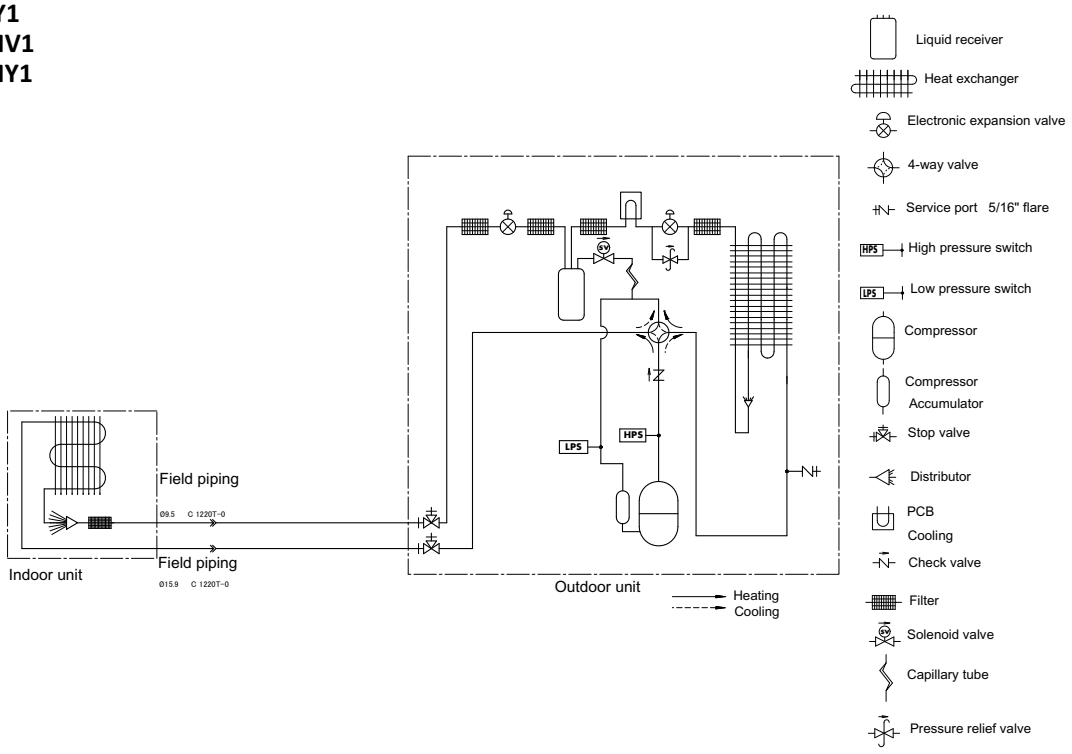
Model	AA	AB	AC
RZAG71M7V*	414	163	407
RZAG71M7Y*	432	137	407
RZASG100-125M7V* / AZAS100-125M7V*	425	181	422
RZASG100-125M7Y* / AZAS100-125M7Y*	414	156	417
RZASG140M7V* / AZAS140M7V*	414	161	423
RZASG140M7Y* / AZAS140M7Y*	416	151	418

4D110025

9 Piping diagrams

9 - 1 Piping Diagrams

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



Notes

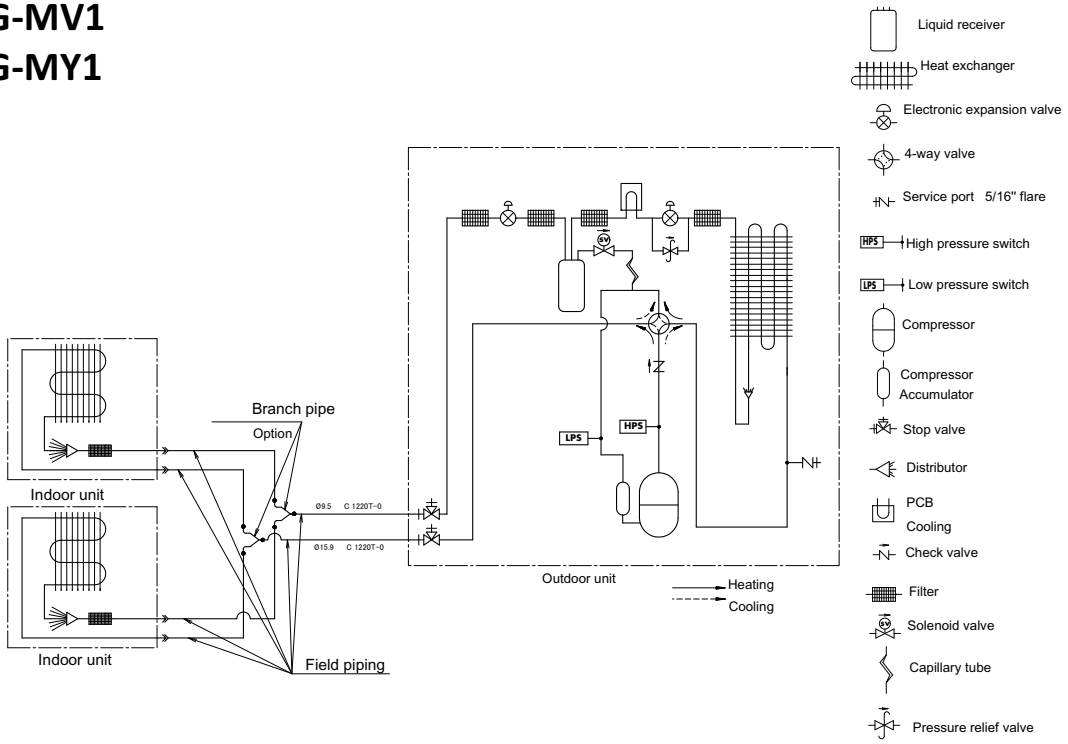
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D108855A

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

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



Notes

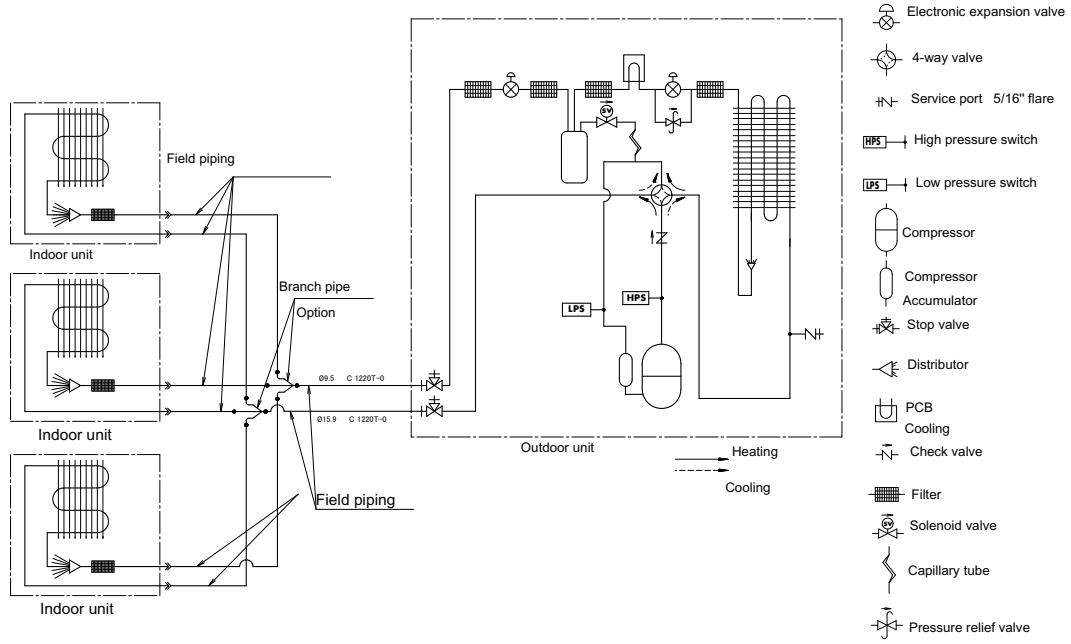
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D108856A

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZAG100-140MV1
RZAG100-140MY1
RZASG100-140MV1
RZASG-MY1



Notes

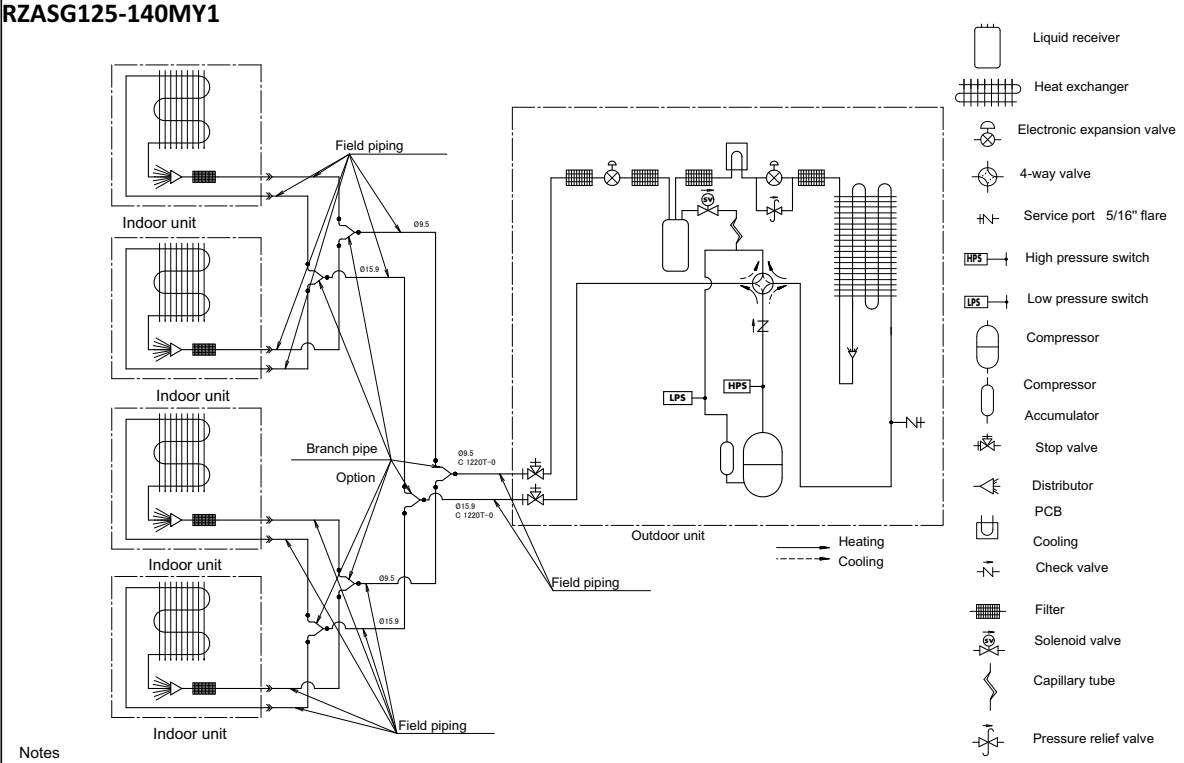
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D108857A

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.

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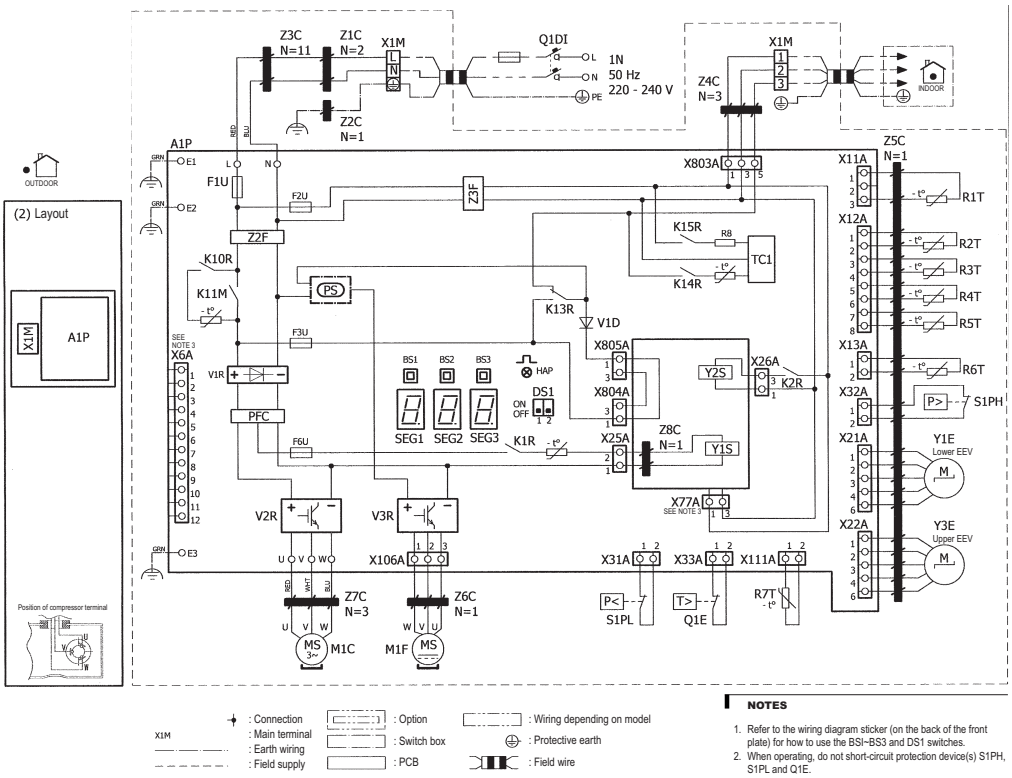
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

AZAS71MV1, RZASG71MV1



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

NOTES

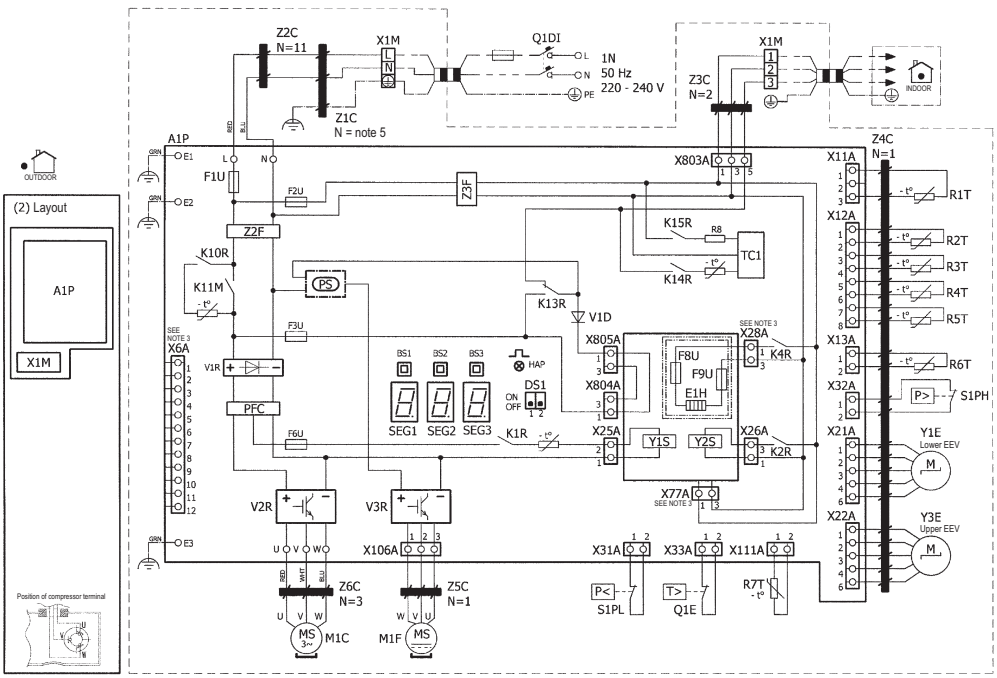
1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BSI~BS3 and DS1 switches.
2. When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
3. Refer to the combination table and the option manual for how to connect the wiring to X6A and X77A.
4. Colours: BLK: Black, RED: Red, BLU: Blue, WHT: White, GRN: Green.

LEGEND # : Field supply, * Optional

Part n°		Description
A1P		Printed circuit board (main)
BS1~3 (A1P)		Push-button switch
DS1 (A1P)		Dipswitch
E1~3 (AAP)		Connector
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
HAP (A1P)		Light-emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K2R (A1P)		Magnetic relay (Y2S)
K13R~K15R, K10R (A1P)		Magnetic relay
K11M (A1P)		Magnetic contactor
L (A1P)		Connector
M1C		Compressor motor
M1F		Fan motor
N (A1P)		Connector
PFC (A1P)		Power factor correction
PS (A1P)		Switching power supply
Q1DI		Earth leakage circuit breaker (30mA)
Q1E		Overload protection
R1T		Thermistor (air)
R2T		Thermistor (discharge)
R3T		Thermistor (suction)
R4T		Thermistor (heat exchanger)
R5T		Thermistor (heat exchanger middle)
R6T		Thermistor (liquid)
R7T		Thermistor (fin)
R8 (A1P)		Resistor
S1PH		High pressure switch
S1PL		Low pressure switch
SEG1~3 (A1P)		7-segment display
TC1 (A1P)		Signal transceiver circuit
U, V, W (A1P)		Connector
V1D (A1P)		Diode
V*R (A1P)		Diode module
X*A (A1P)		Connector
X1M		Terminal strip
Y1E, Y3E		Electronic expansion valve
Y1~2S		Solenoid valve (4-way valve)
Z*C		Noise filter (ferrite core)
Z*F (A1P)		Noise filter

4D110098

RZAG71MV1, RZASG100MV1, AZAS100MV1



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

LEGEND # : Field supply, * Optional

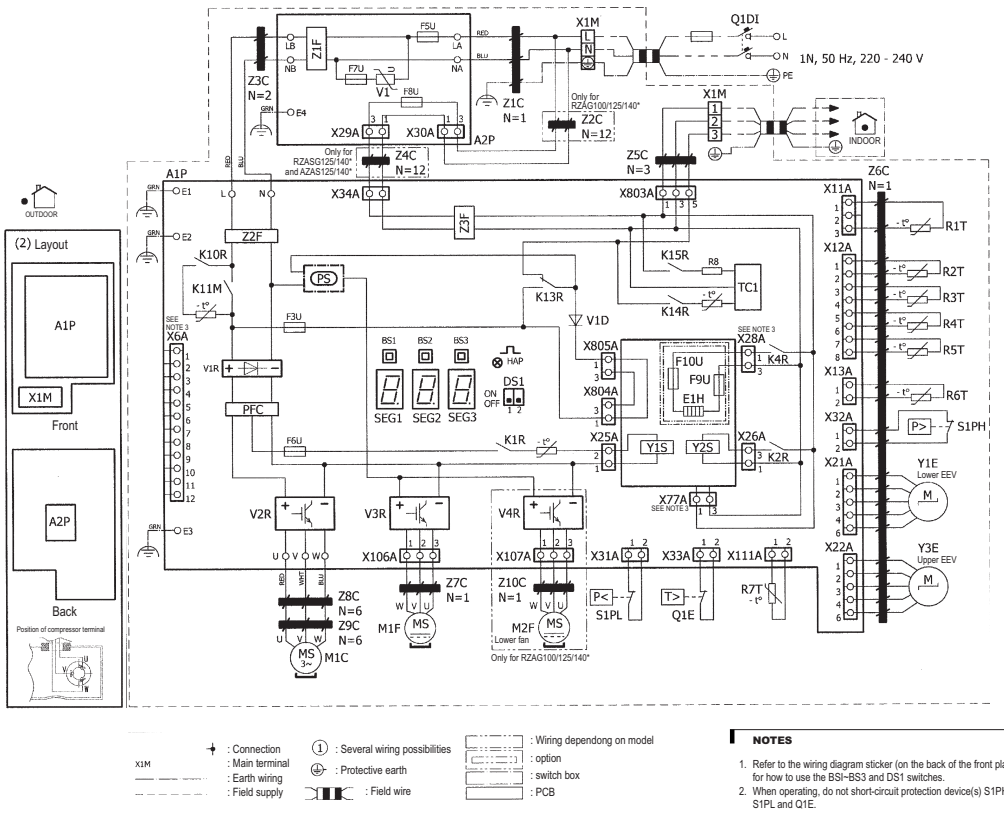
Part n°		Description
A1P		Printed circuit board (main)
BS1~3 (A1P)		Push-button switch
DS1 (A1P)		Dipswitch
E1~3 (AAP)		Connector
E1H	*	Bottom plate heater
F1U (A1P)		Fuse T 31,5 A 250 V
F2U (A1P)		Fuse T 6,3 A 250 V
F3U (A1P)		Fuse T 6,3 A 250 V
F6U (A1P)		Fuse T 5 A 250 V
F8~9U	*	Fuse F 1 A 250 V
HAP (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, K10R (A1P)		Magnetic relay
K11M (A1P)		Magnetic contactor
L (A1P)		Connector
M1C		Compressor motor
M1F		Fan motor
N (A1P)		Connector
PFC (A1P)		Power factor correction
PS (A1P)		Switching power supply
Q1DI		Earth leakage circuit breaker (30mA)
Q1E		Overload protection
R1T		Thermistor (air)
R2T		Thermistor (discharge)
R3T		Thermistor (suction)
R4T		Thermistor (heat exchanger)
R5T		Thermistor (heat exchanger middle)
R6T		Thermistor (liquid)
R7T		Thermistor (fin)
R8 (A1P)		Resistor
S1PH		High pressure switch
S1PL		Low pressure switch
SEG1~3 (A1P)		7-segment display
TC1 (A1P)		Signal transceiver circuit
U, V, W (A1P)		Connector
V1D (A1P)		Diode
V*R (A1P)		Diode module
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

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

RZAG100-140MV1, RZASG125-140MV1, AZAS125-140MV1



: Connection
: Main terminal
: Earth wiring
: Field supply
: Several wiring possibilities
: Protective earth
: Field wire
: Wiring dependong on model
: option
: switch box
: PCB

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.

LEGEND

: Field supply
* Optional

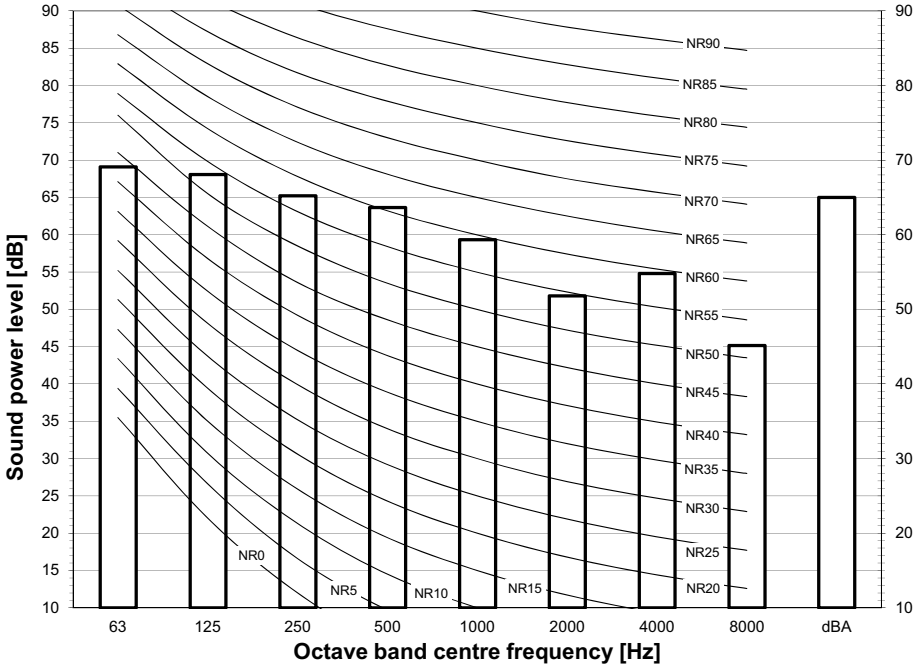
Part n°		Description
A1P		Printed circuit board (main)
A2P		Printed circuit board (noise filter)
BS1~3 (A1P)		Push-button switch
DS1 (A1P)		Dipswitch
E1~3 (A1~2P)		Connector
E1H	*	Bottom plate heater
F3U (A1P)		Fuse T 6,3 A 250 V
F5U (A2P)		Fuse T 56 A 250 V
F6U (A1P)		Fuse T 5 A 250 V
F7U (A2P)		Fuse T 6,3 A 250 V
F8U (A2P)		Fuse F 6,3 A 250 V
F9~10U	*	Fuse F 1 A 250 V
HAP (A1P)		Light-emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K2R (A1P)		Magnetic relay (Y2S)
K4R (A1P)		Magnetic relay (E1H)
K13~15R, K10R (A1P)		Magnetic relay
K11M (A1P)		Magnetic contactor
L* (A1~2P)		Connector
M1C		Compressor motor
M1~2F		Fan motor
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
V1 (A2P)		Varistor
V1D (A1P)		Diode
V*R (A1P)		Diode module
X*A (A1~2P)		Connector
X1M		Terminal strip
Y1E, Y3E		Electronic expansion valve
Y1~2S		Solenoid valve (4-way valve)
Z*C		Noise filter (ferrite core)
Z*F (A1~2P)		Noise filter

4D109863

11 Sound data

11 - 1 Sound Power Spectrum

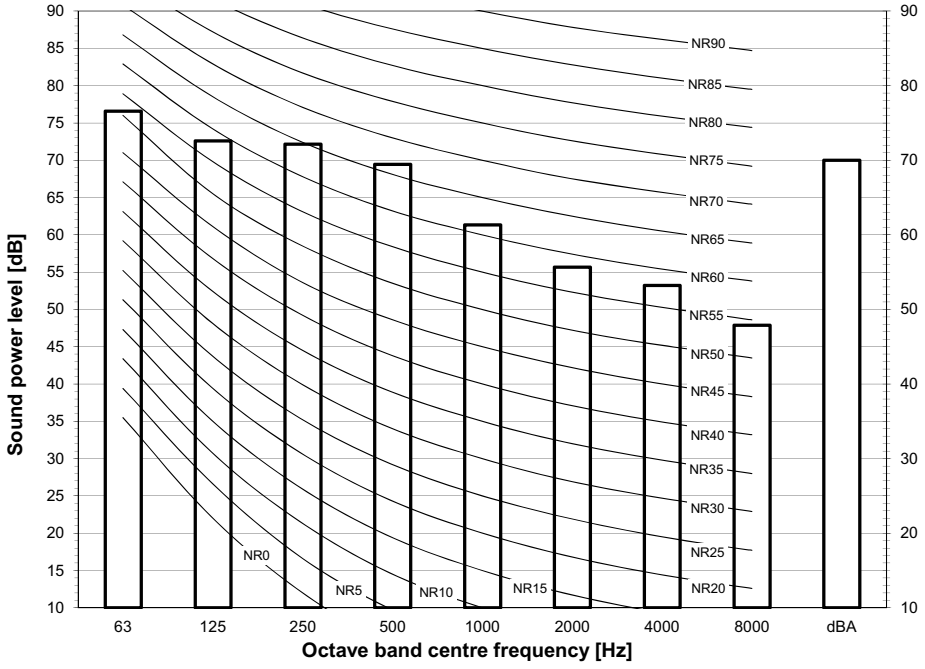
AZAS71MV1
RZASG71MV1



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

3D110037

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1



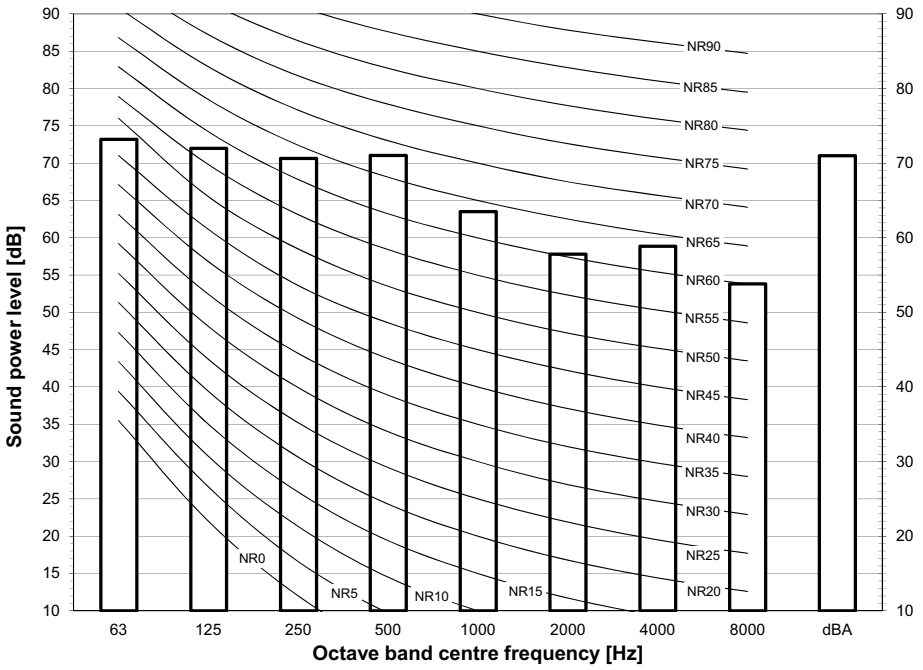
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

3D110038

11 Sound data

11 - 1 Sound Power Spectrum

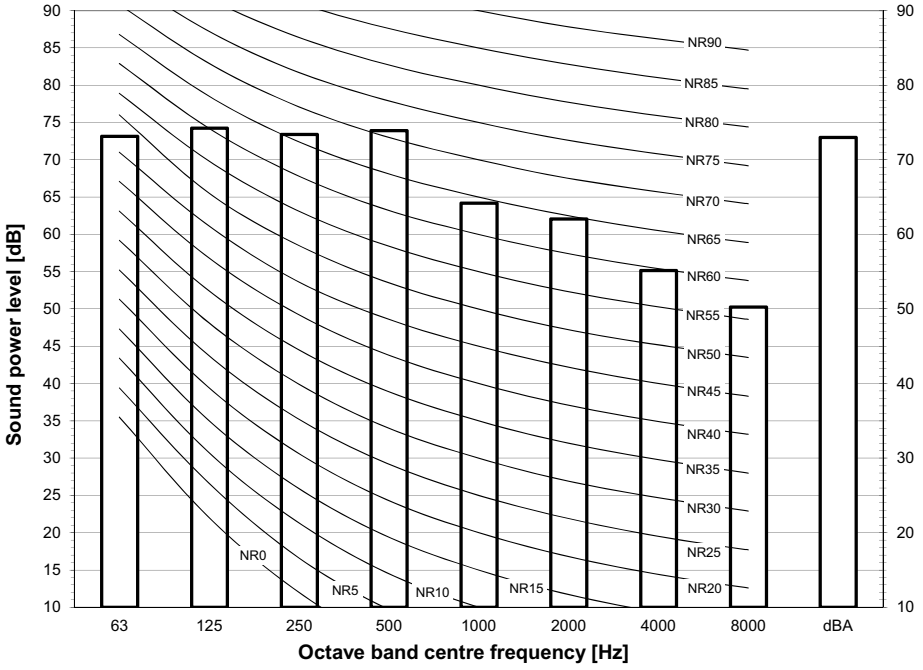
AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



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

3D110039

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1



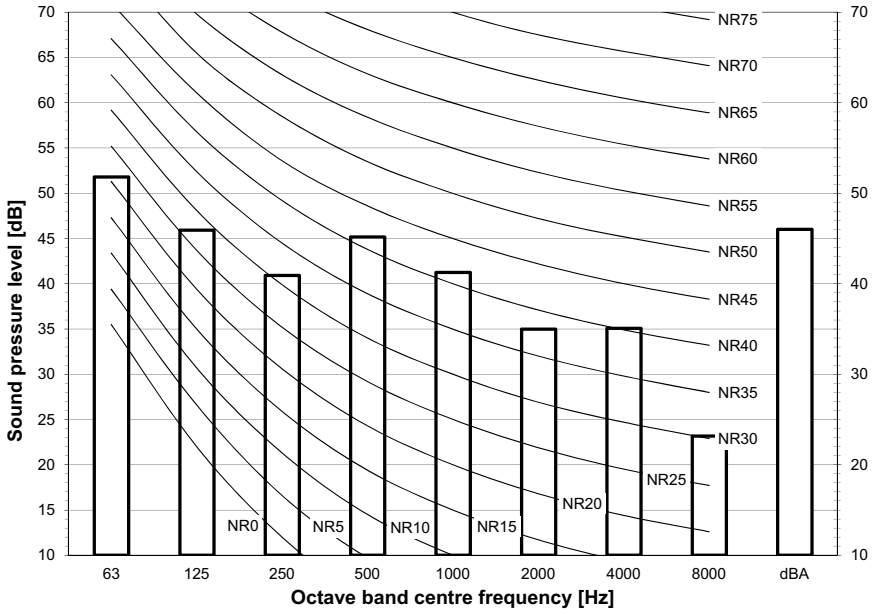
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

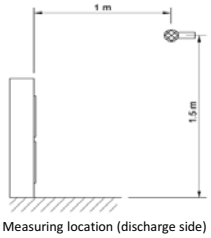
3D110040

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

AZAS71MV1
RZASG71MV1



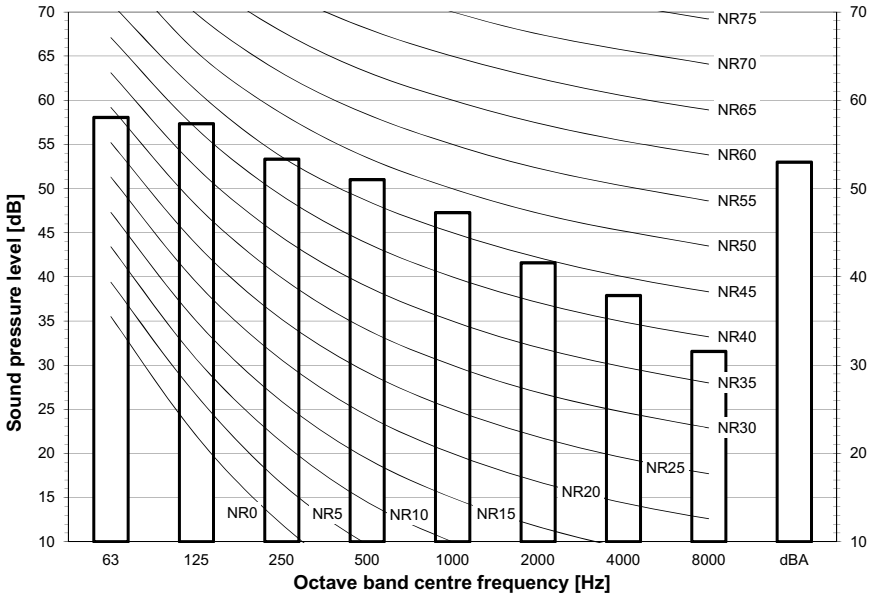


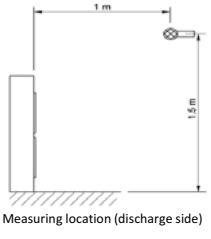
Measuring location (discharge side)

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

3D110049

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1





Measuring location (discharge side)

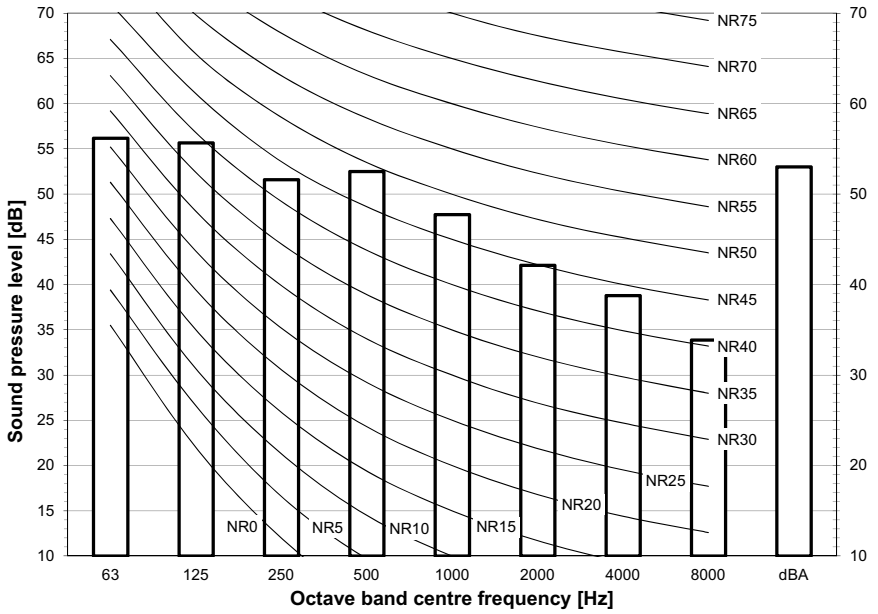
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

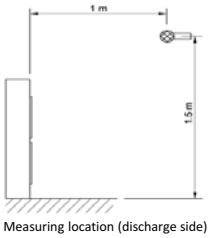
3D110050

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



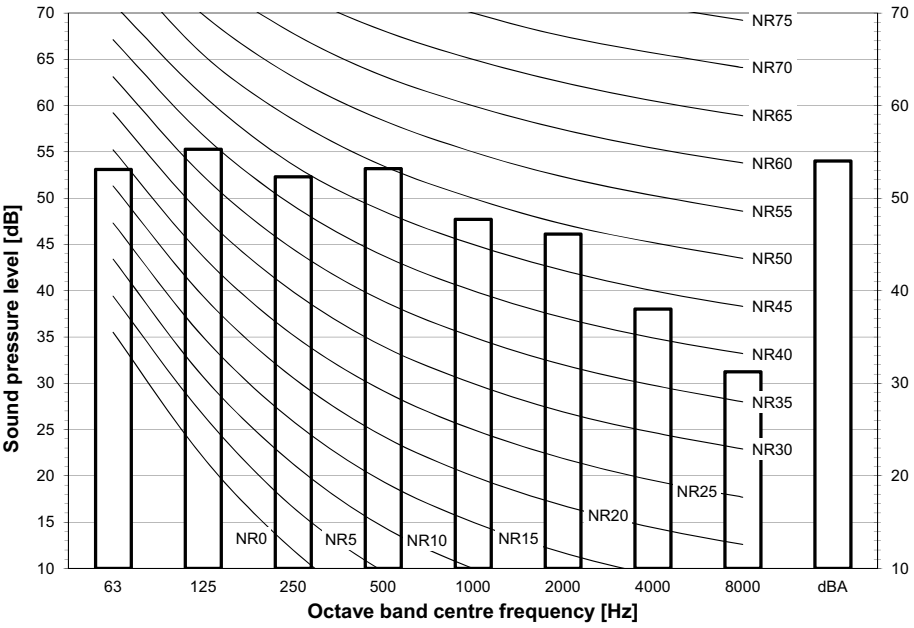


Measuring location (discharge side)

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

3D110051

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1



Measuring location (discharge side)

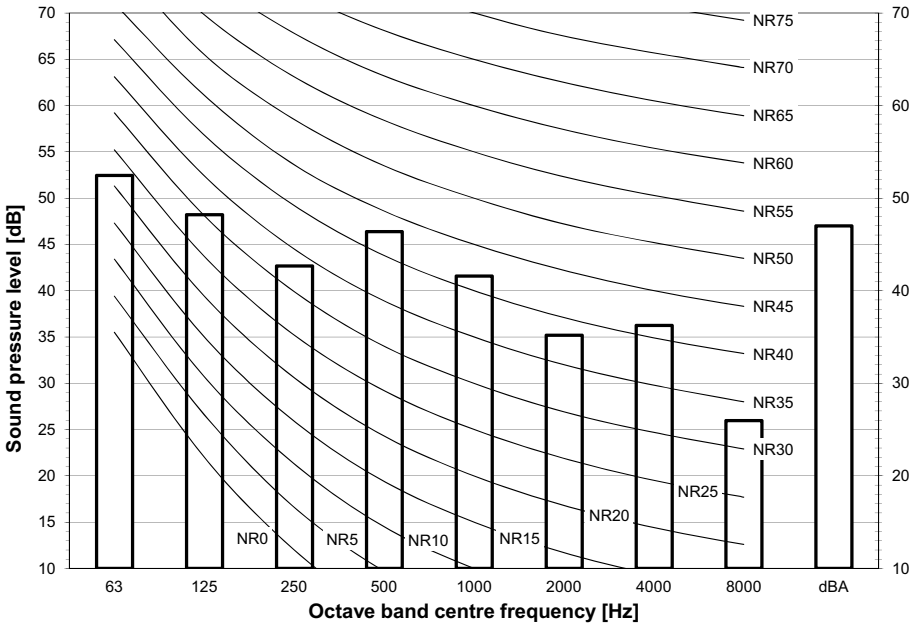
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

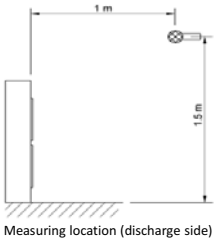
3D111310

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

AZAS71MV1
RZASG71MV1



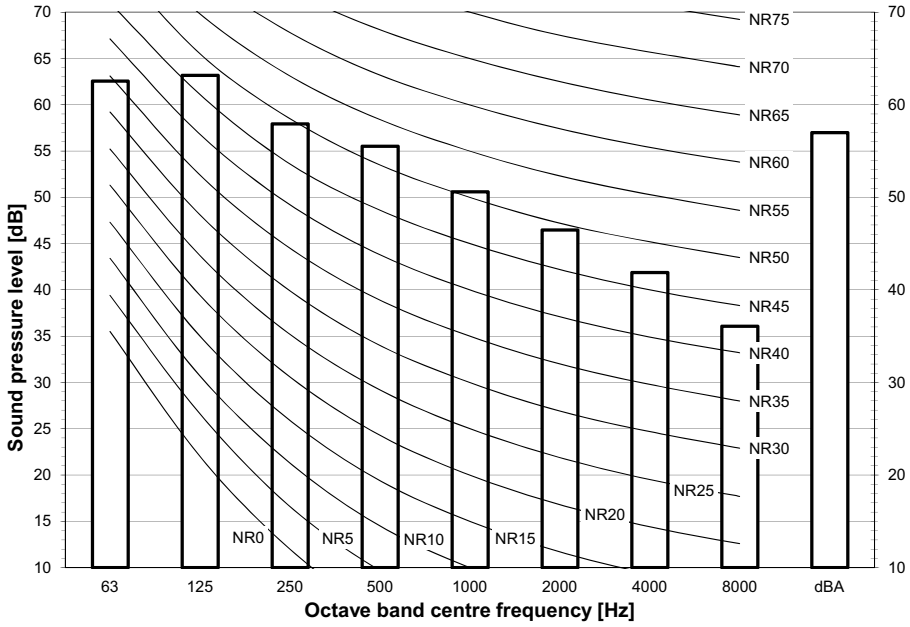


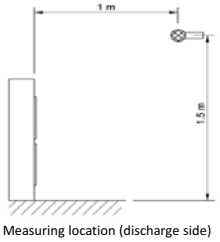
Measuring location (discharge side)

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

3D111293

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1





Measuring location (discharge side)

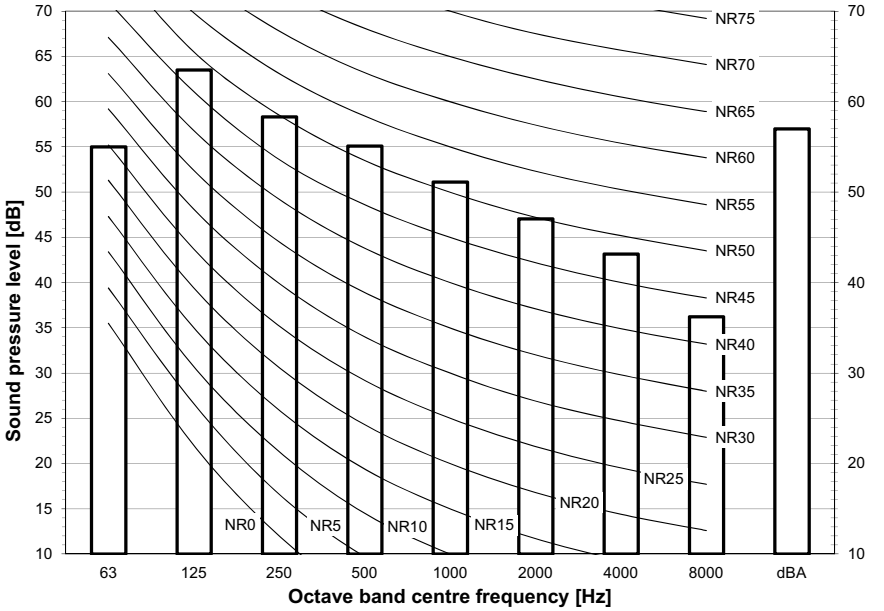
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

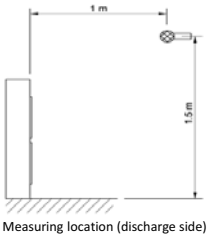
3D111294

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



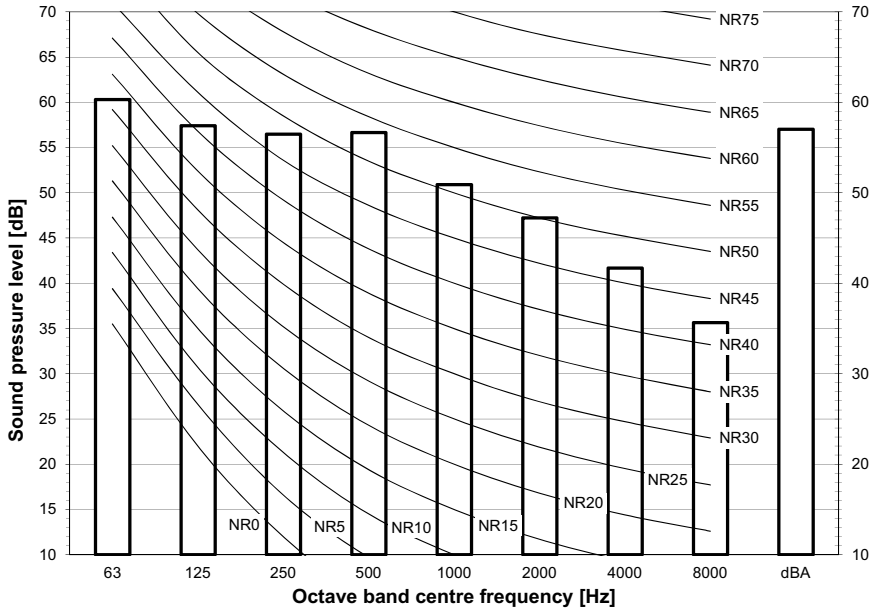


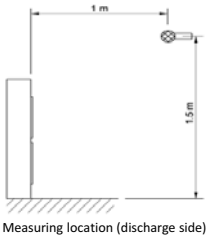
Measuring location (discharge side)

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

3D111295

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1





Measuring location (discharge side)

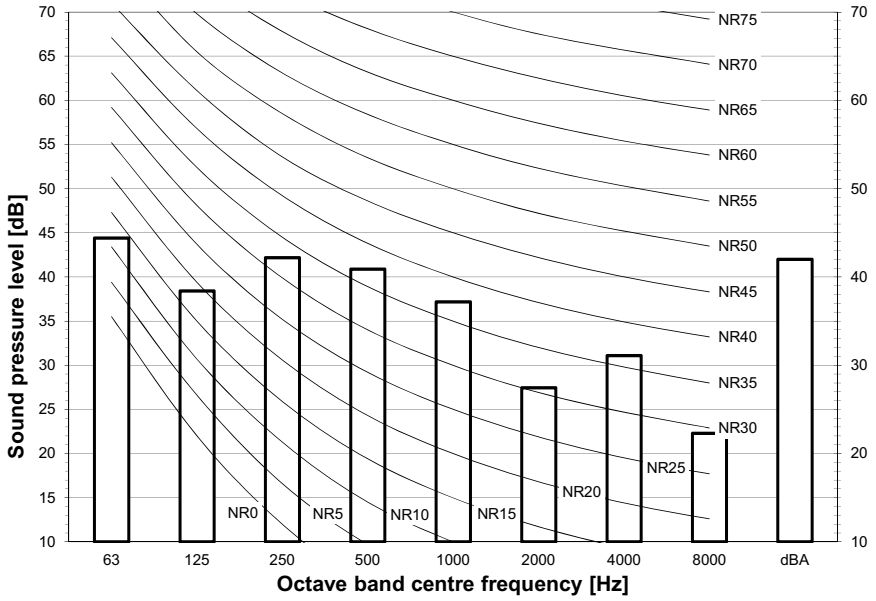
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

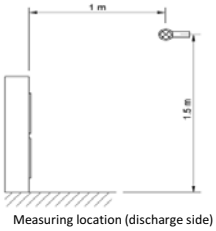
3D111296

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

AZAS71MV1
RZASG71MV1

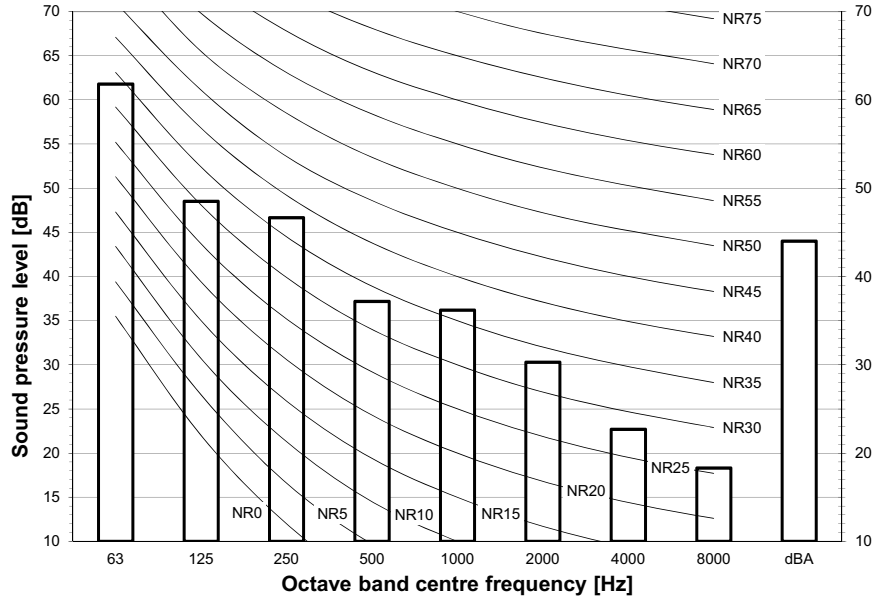


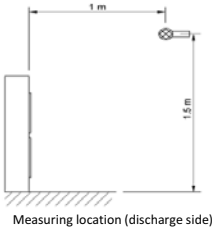


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D111315

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1





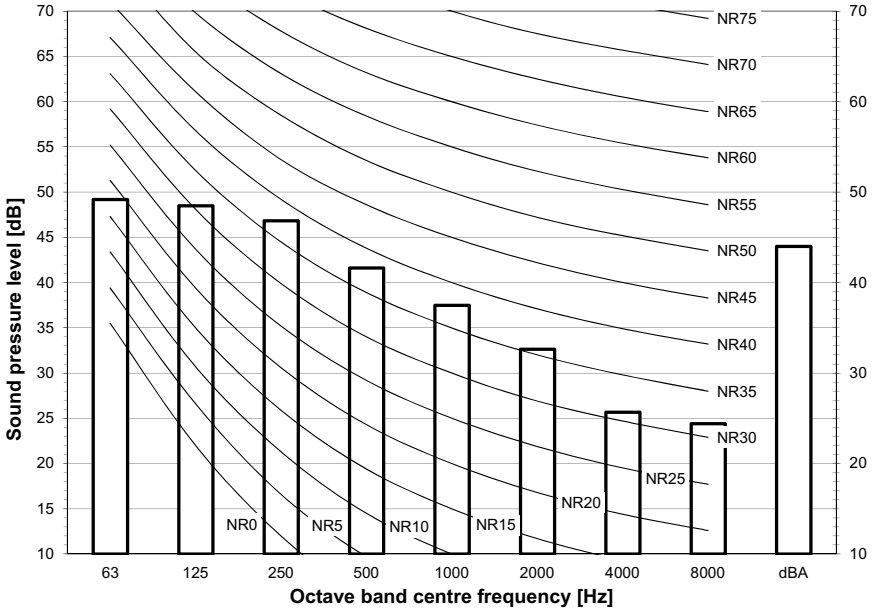
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

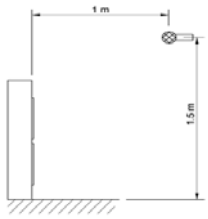
3D111316

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



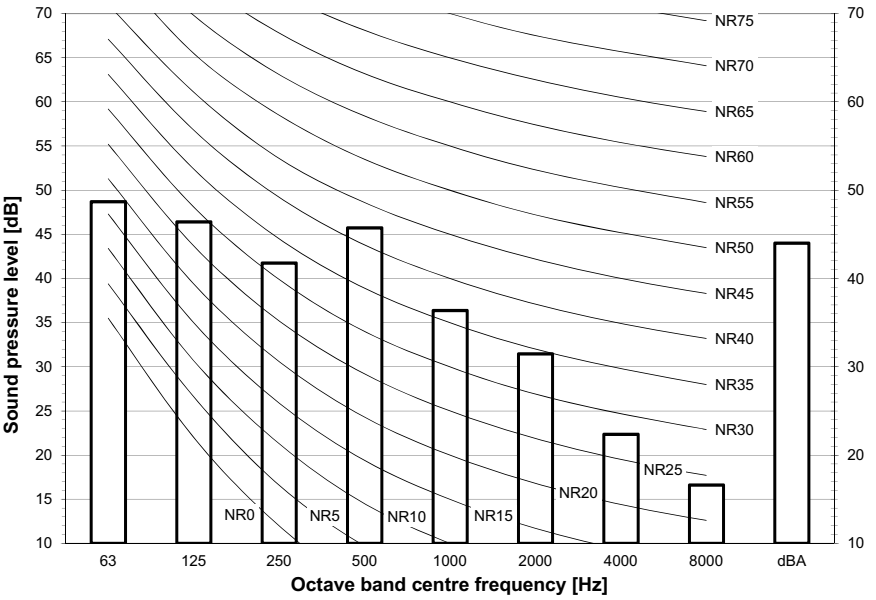


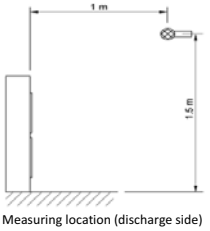
Measuring location (discharge side)

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

3D111317

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1





Measuring location (discharge side)

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

3D111318

12 Installation

12 - 1 Installation Method

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

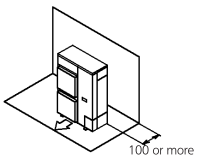
Installation service space

The measure of these values is "mm".

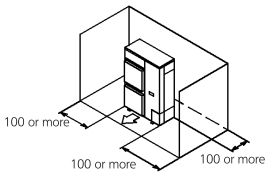
(A) When there are obstacles on suction sides.

- **No obstacle above**

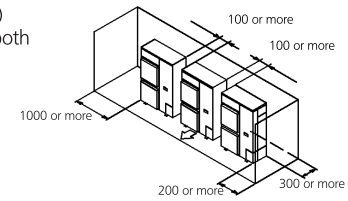
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

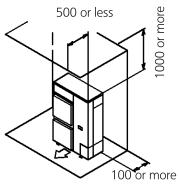


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

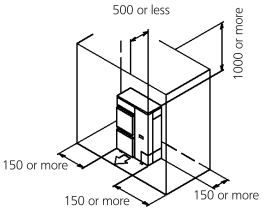


- **Obstacle above, too.**

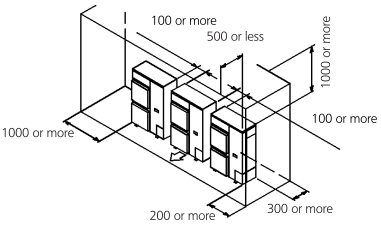
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



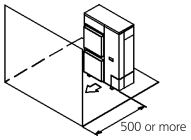
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



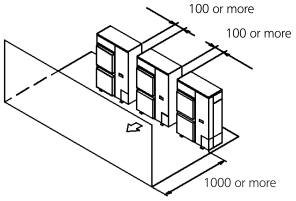
(B) When there are obstacles on discharge sides.

- **No obstacle above**

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

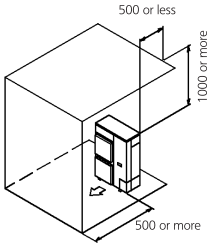


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

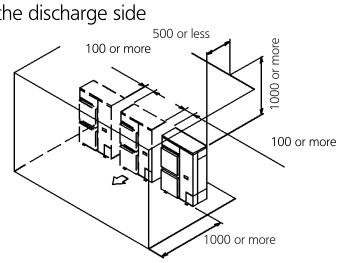


- **Obstacle above, too**

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



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



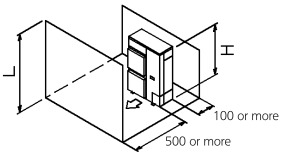
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

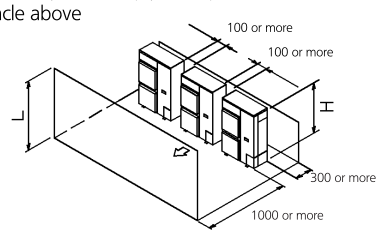
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **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

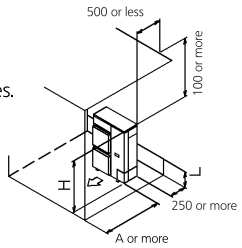
RZAG-MV1
RZAG-MY1
RZASG-MV1
RZASG-MY1
AZAS-MV1
AZAS-MY1

● **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 ≦ H	L ≦ 1/2 H	750 or more
	1/2 H < L ≦ H	1000 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

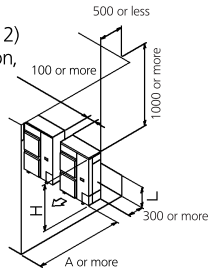


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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

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

Limit of series installation is 2 units.

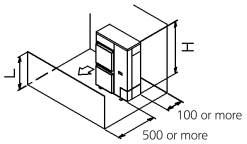


Pattern 2

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

● **No obstacle above**

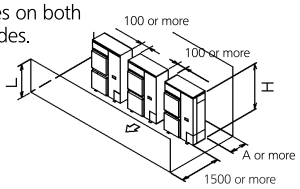
① Stand-alone installation
- No obstacle above



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 ≦ 1/2 H	250 or more
1/2 H < L ≦ H	300 or more

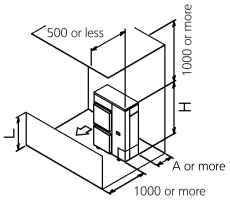


● **obstacle above**

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

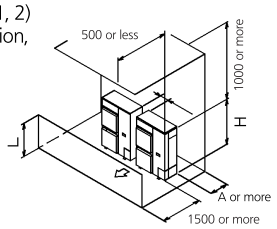


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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

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

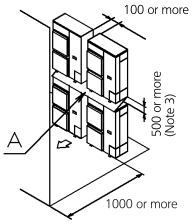
Limit of series installation is 2 units.

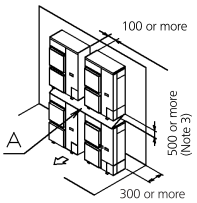


(D) Double-decker installation

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.

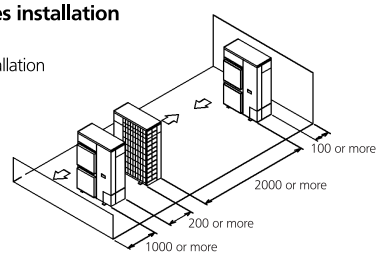
② Obstacle on the suction side. (1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.





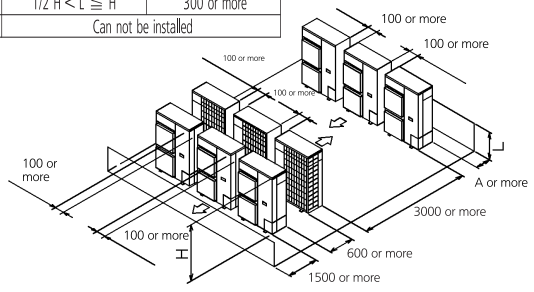
(E) Multiple rows of series installation (on the rooftop, etc.)

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 ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Can not be installed	



NOTES

1 In case of the sideway's piping, make a 100mm gap between the unit above.
2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
3 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 reintake of discharged air.

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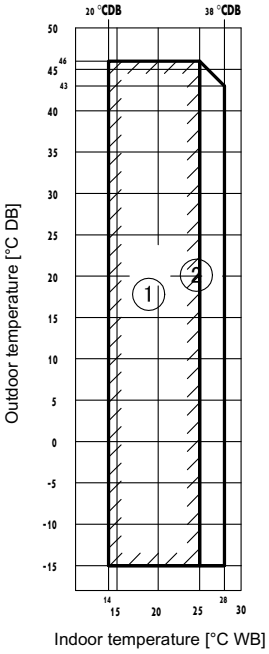
13 Operation range

13 - 1 Operation Range

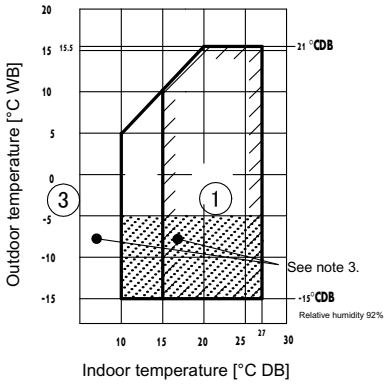
RZASG-MV1
RZASG-MY1

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. In case of high humidity conditions (> 92%) at ambient temperatures of < -5°C, a RZAG model should be used instead to avoid freeze-up of the outdoor unit.

3D110021

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