

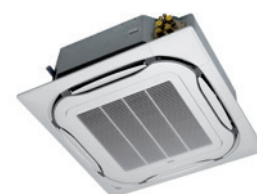


FCAG-A / RZASG-M *SkyAir Advance-series*

R-32 **BLUEEVOLUTION**

360° air discharge for optimum efficiency and comfort

- › Combination with Sky Air Advance series ensures good value for money for all types of commercial applications
- › Lowest installation height in the market: 204mm for class 71
- › Individual louvre control: flexibility to suit every room layout without changing the location of the unit
- › Modern style decoration panel is available in 3 different variations: white (RAL9010) with grey louvers, full white (RAL9010) or Auto-cleaning panel
- › Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine dust applications i.e. clothing shops)
- › Two optional intelligent sensors improve energy efficiency and comfort
- › No optional adapter needed for DIII-connection, link your unit directly into the wider building management system
- › Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- › Reduced energy consumption thanks to specially developed small tube exchanger, DC fan motor and drain pump
- › Optional fresh air intake
- › Standard drain pump with 675mm lift increases flexibility and installation speed



FCAG-A



RZASG71

RZASG100-140



BRC1E53A



BRC7FA532F
(optional)



BRP069A81
(optional)



WI-FI ADAPTOR

AVAILABLE AS AN OPTION

FCAG-A / RZASG-M

R-32 BLUEEVOLUTION

Indoor Units			Single Phase				3 Phase		
			FCAG71A	FCAG100A	FCAG125A	FCAG140A	FCAG100A	FCAG125A	FCAG140A
Capacity	UK Total Cooling	kW	7.76	10.80	13.60	14.90	10.80	13.60	14.90
	UK Sensible Cooling	kW	5.32	7.44	9.30	10.25	7.44	9.30	10.25
	Nominal Cooling	kW	6.8	9.5	12.1	13.4	9.5	12.1	13.4
	Nominal Heating	kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	-	-	A++	-	-
	Pdesign	kW	6.8	9.5	12.1	13.4	9.5	12.1	13.4
	SEER		6.47	6.55	5.76	6.53	6.55	5.76	6.53
	Annual Energy Consumption	kWh	368	507	1261	1231	507	1261	1231
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	-	-	A+	-	-
	Pdesign	kW	4.5	6.0	6.0	7.8	6.0	6.0	7.8
	SCOP		4.01	4.17	4.05	4.31	4.17	4.05	4.31
	Annual Energy Consumption	kWh	1575	2016	2074	2534	2016	2074	2534
Nominal Efficiency	EER/COP		3.14/3.74	3.26/4.50	2.44/4.28	2.75/3.73	3.26/4.50	2.44/4.28	2.75/3.73
Air Flow Rate (Cooling)	High / Nom / Low	m³/sec	0.255/0.208/0.155	0.380/0.293/0.206	0.433/0.320/0.206	0.433/0.320/0.206	0.380/0.293/0.206	0.433/0.320/0.206	0.433/0.320/0.206
Dimensions (with Decoration Panel)	Height	mm	204 (264)	246 (306)	246 (306)	246 (306)	246 (306)	246 (306)	246 (306)
	Width	mm	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
	Depth	mm	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
Weight (with Decoration Panel)		kg	21 (26.4)	24 (29.4)	24 (29.4)	24 (29.4)	24 (29.4)	24 (29.4)	24 (29.4)
Sound Pressure (Cooling)	High / Nom / Low	dBA	35/31/28	37/33/29	41/35/29	41/35/29	37/33/29	41/35/29	41/35/29
Sound Pressure (Heating)	High / Nom / Low	dBA	35/31/28	37/33/29	41/35/29	41/35/29	37/33/29	41/35/29	41/35/29
Sound Power (Cooling)		dBA	51	54	58	58	54	58	58

Outdoor Units			RZASG71MV1	RZASG100MV1	RZASG125MV1	RZASG140MV1	RZASG100MY1	RZASG125MY1	RZASG140MY1
Dimensions	Height x Width x Depth	mm	700 x 900 x 320	990 x 940 x 320	990 x 940 x 320	990 x 940 x 320	990 x 940 x 320	990 x 940 x 320	990 x 940 x 320
Weight		kg	60	70	70	78	70	70	77
Electrical Details	Power Supply		1ph	1ph	1ph	1ph	3ph	3ph	3ph
	Running Current	A	17.4	21.5	27.8	27.0	14.2	14.6	14.6
	Starting Current	A	-	-	-	-	-	-	-
	Max Fuse Size	A	20	25	32	32	16	16	16
Interconnection Wiring	Core / Cable Size		3+E / 1.5				3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)		
Pipework	Maximum Length	m	50	50	50	50	50	50	50
	Maximum Vertical Rise	m	30	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30
	Additional charge	g/m	Refer to Installation Manual				Refer to Installation Manual		
	Holding charge	kg	2.45	2.60	2.60	2.90	2.60	2.60	2.90
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	46/42	53/44	53/44	54/44	53/44	53/44	54/44
Sound Pressure (Heating)	Nom / Night Quiet	dBA	47/42	57/44	57/44	57/44	57/44	57/44	57/44
Sound Power (Cooling)		dBA	65	70	71	73	70	71	73
Operating Range (Cooling)	Min / Max	°CDB	-15/46	-15/46	-15/46	-15/46	-15/46	-15/46	-15/46
Operating Range (Heating)	Min / Max	°CWB	-15/15.5	-15/15.5	-15/15.5	-15/15.5	-15/15.5	-15/15.5	-15/15.5
Air Flow Rate (Cooling)	Nominal	m³/sec	0.933	1.150	1.183	1.266	1.150	1.183	1.266
ECA Eligible			●	●			●		

Accessory Ref	Description
BRC1E53A	Premium wired remote controller (Included as standard)
BYCQ140D	Decoration panel (Included as standard)
BRP069A81	Wifi adaptor for connection to on-line controller
BRC7FA532F	Wireless remote controller
BRYQ140A	Integral PIR sensor for roundflow decoration panel. Enables energy saving functions
BYCQ140DVG9	Roundflow cassette decoration panel with self cleaning filter
BYCQ140DGF9	New Roundflow cassette decoration panel with fine self cleaning filter
BYCQ140DW	Roundflow cassette decoration panel - white with white louvres
K.CGL	Condensing unit guard size 100-140 including RXYSQ
K.CGM	Condensing unit guard size 42-71
K.CWB140-2	Condensing unit bracket - size 100 to 140
K.CWB90-2	Condensing unit bracket - up to size 71, max weight 90kg of ODU
K.DT1	Condensate drip tray for use with K.CWB90-2

Accessory Ref	Description
K.DT2	Condensate drip tray for use with K.CWB140-2
K.RSS	Wireless room mounted temperature sensor and receiver
KDBHQ55B140	Sealing member for air discharge outlet
KDDP55C160-1	Fresh air intake kit for up to 20% fresh air (Part 1)
KDDQ55B140-2	Fresh air intake kit for up to 20% fresh air (Part 2)
KLIC-DI	KNX Interface for Sky Air and VRV systems
KRCS01-4	Remote room mounted temperature sensor
KRP4A53 and UK.FB2	Unit/group adaptor PCB for remote on/off, status indication and temperature setting
RS-SE	Service and configuration tool for K.RSS
RTD-10 and UK.FB2	Enhanced function PCB for Sky Air and VRV. Duty rotation, Lead Lag control and heating interlock
RTD-20 and UK.FB2	Energy control PCB for Sky Air and VRV
RTD-NET and UK.FB2	Modbus interface PCB for Sky Air and VRV

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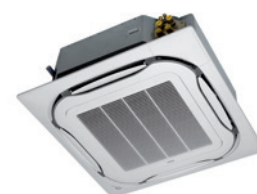


FCAG-A / RXM-M9

360° air discharge for optimum efficiency and comfort

- › Combination with split outdoor units is ideal for small retail, offices or residential applications
- › Lowest installation height in the market: 204mm for class 71
- › Individual louvre control: flexibility to suit every room layout without changing the location of the unit
- › Modern style decoration panel is available in 3 different variations: white (RAL9010) with grey louvers, full white (RAL9010) or Auto-cleaning panel
- › Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine dust applications i.e. clothing shops)
- › Two optional intelligent sensors improve energy efficiency and comfort
- › No optional adapter needed for DIII-connection, link your unit directly into the wider building management system
- › Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- › Reduced energy consumption thanks to specially developed small tube exchanger, DC fan motor and drain pump
- › Optional fresh air intake
- › Standard drain pump with 675mm lift increases flexibility and installation speed

R-32 **BLUEVOLUTION**



FCAG-A



RXM42-60M9



BRC1E53A



BRC7FA532F
(optional)



BRP069A81
(optional)



WI-FI ADAPTOR

AVAILABLE AS AN OPTION

FCAG-A / RXM-M9

R-32 BLUEEVOLUTION

Indoor Units			FCAG35A	FCAG50A	FCAG60A
Capacity	UK Total Cooling	kW	3.32	4.89	5.57
	UK Sensible Cooling	kW	2.29	3.26	3.67
	Nominal Cooling	kW	3.5	5.0	5.7
	Nominal Heating	kW	4.2	6.0	7.0
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A++
	Pdesign	kW	3.5	5.0	5.7
	SEER		6.35	6.54	6.40
	Annual Energy Consumption	kWh	193	266	312
Seasonal Efficiency (EN14825) HEATING	Energy Label		A++	A+	A+
	Pdesign	kW	3.32	4.36	4.71
	SCOP		4.9	4.3	4.2
	Annual Energy Consumption	kWh	948	1419	1569
Nominal Efficiency	EER/COP		3.72/3.77	3.58/3.70	3.31/3.38
Air Flow Rate (Cooling)	High / Nom / Low	m³/sec	0.208/0.176/0.145	0.210/0.178/0.145	0.226/0.186/0.145
Dimensions (with Decoration Panel)	Height	mm	204 (264)	204 (264)	204 (264)
	Width	mm	840 (950)	840 (950)	840 (950)
	Depth	mm	840 (950)	840 (950)	840 (950)
Weight (with Decoration Panel)		kg	18 (23.4)	19 (24.4)	19 (24.4)
Sound Pressure (Cooling)	High / Nom / Low	dBA	31/29/27	31/29/27	33/31/28
Sound Pressure (Heating)	High / Nom / Low	dBA	31/29/27	31/29/27	33/31/28
Sound Power (Cooling)		dBA	49	49	51

Outdoor Units			RXM35M9	RXM50M9	RXM60M9
Dimensions	Height x Width x Depth	mm	550 x 765 x 285	735 x 825 x 300	735 x 825 x 300
Weight		kg	32	47	47
Electrical Details	Power Supply		1ph	1ph	1ph
	Running Current	A	-	-	-
	Starting Current	A	-	-	-
	Max Fuse Size	A	10	15	15
Interconnection Wiring	Core / Cable Size		3+E / 1.5	3+E / 1.5	3+E / 1.5
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)	1/4 (6.4) / 1/2 (12.7)	1/4 (6.4) / 1/2 (12.7)
Pipework	Maximum Length	m	20	30	30
	Maximum Vertical Rise	m	20	20	20
	Precharged to	m	10	10	10
	Additional charge	g/m	20	20	20
	Holding charge	kg	0.76	1.40	1.45
Sound Pressure (Cooling)	Nominal	dBA	49	48	48
Sound Pressure (Heating)	Nominal	dBA	49	49	49
Sound Power (Cooling)		dBA	61	62	63
Operating Range (Cooling)	Min / Max	°CDB	-10/46	-10/46	-10/46
Operating Range (Heating)	Min / Max	°CWB	-15/18	-15/18	-15/18
Air Flow Rate (Cooling)	Nominal	m³/sec	0.600	0.840	0.840
ECA Eligible			●	●	●

Accessory Ref	Description
BRC1E53A	Premium wired remote controller (Included as standard)
BYCQ140D	Decoration panel (Included as standard)
BRP069A81	Wifi adaptor for connection to on-line controller
BRC7FA532F	Wireless remote controller
BRYQ140A	Integral PIR sensor for roundflow decoration panel. Enables energy saving functions
BYCQ140DG9	Roundflow cassette decoration panel with self cleaning filter
BYCQ140DGF9	New Roundflow cassette decoration panel with fine self cleaning filter
BYCQ140DW	Roundflow cassette decoration panel - white with white louvres
K.CGM	Condensing unit guard size 42-71
K.CWB90-2	Condensing unit bracket - up to size 71, max weight 90kg of ODU
K.DT1	Condensate drip tray for use with K.CWB90-2
K.RSS	Wireless room mounted temperature sensor and receiver

Accessory Ref	Description
KDBHQ55B140	Sealing member for air discharge outlet
KDDP55C160-1	Fresh air intake kit for up to 20% fresh air (Part 1)
KDDQ55B140-2	Fresh air intake kit for up to 20% fresh air (Part 2)
KLIC-DI	KNX Interface for Sky Air and VRV systems
KRCS01-4	Remote room mounted temperature sensor
KRP4A53 and UK.FB2	Unit/group adaptor PCB for remote on/off, status indication and temperature setting
RS-SE	Service and configuration tool for K.RSS
RTD-10 and UK.FB2	Enhanced function PCB for Sky Air and VRV. Duty rotation, Lead Lag control and heating interlock
RTD-20 and UK.FB2	Energy control PCB for Sky Air and VRV
RTD-NET and UK.FB2	Modbus interface PCB for Sky Air and VRV

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Air Conditioning
Technical Data

RZASG-MV1



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RZASG-MV1

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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		-	
		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++		-	
		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+		-	
		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

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	FVA100A/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	Ambien t	Min.	°CDB	-15							
			Max.	°CDB	46							
	Heating	Ambien t	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 ₂ eq	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			
			Chargel ess	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 $\leq 75A$ 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

							Compressor		OFM		IFM		
Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAG35AVEB		x2	RZASG71M2V1B	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	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

SG125-140MV1							Compressor		OFM		IFM		
Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	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		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

- 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

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4 Options

4 - 1 Options

4

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	FCAG71GVEB	FCAG100GVEB	FCAG125GVEB	FCAG140GVEB	FCAG35AVEB	FCAG50AVEB	FCAG60AVEB	FCAG71AVEB	FCAG100AVEB	FCAG125AVEB	FCAG140AVEB	FFA35A2VEB	FFA50A2VEB	FFA60A2VEB	FBA35A2VEB	FBA50A2VEB	FBA60A2VEB	FBA71A2VEB	FBA100A2VEB	FBA125A2VEB	FBA140A2VEB	RNA35A2VEB	RNA50A2VEB	RNA60A2VEB	FUA71AVEB	FUA100AVEB	FUA125AVEB	FAA71AUEB	FAA100AUEB	FDA125A5VEB	
RZAG71M7Y1B	RZAG71M7Y1B	P			2			P				2			2			P				2				P			P		
RZAG100M7Y1B	RZAG100M7Y1B		P		3	2			P			3	2		3	2			P			3	2				P				
RZAG125M7Y1B	RZAG125M7Y1B			P	4	3	2			P		4	3	2	4	3	2			P		4	3	2			P				P
RZAG140M7Y1B	RZAG140M7Y1B	2			P	4	3		2			P	4	3	4	3		2		P		4	3			2					
RZASG71M2V1B					2							2			2			P				2				P					
RZASG100M7Y1B					3	2						3	2		3	2			P			3	2				P				
RZASG125M7Y1B	RZASG125M7Y1B				4	3			P			4	3	2	4	3	2			P		4	3	2				P			P
RZASG140M7Y1B	RZASG140M7Y1B				4	3		2				4	3		4	3		2		P		4	3		2						P
AZAS71M2V1B									P									P													
AZAS100M7Y1B	AZAS100M7Y1B									P									P												P
AZAS125M7Y1B	AZAS125M7Y1B										P										P										
AZAS140M7Y1B	AZAS140M7Y1B										P											P									

Sky Air	Floor standing type				Slim duct			Ceiling-suspended						
Model	FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	FDX103F3V1B	FDX106F3V1B	FDX146F3V1B	FHA35AVEB	FHA50AVEB	FHA60AVEB	FHA71AVEB	FHA100AVEB	FHA125AVEB	FHA140AVEB
RZAG71M7Y1B	P				2		2				P			
RZAG100M7Y1B		P			3	2	2		2			P		
RZAG125M7Y1B			P		4	3	2		4	3	2		P	
RZAG140M7Y1B	2			P	4	3		4	3		2			P
RZASG71M2Y1B					2		2				P			
RZASG100M7Y1B					3	2	3		3	2		P		
RZASG125M7Y1B					4	3	2		4	3	2		P	
RZASG140M7Y1B	2			P	4	3		4	3		2			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.

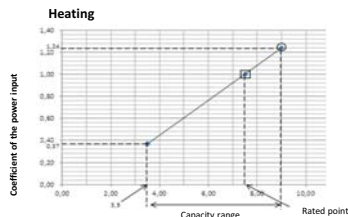
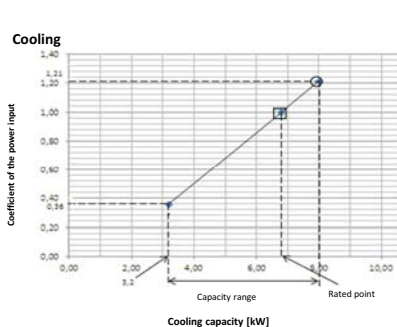
Twin : KHRQ(M)58T
Triple : KHRQ(M)58H
Double twin : KHRQ(M)58T

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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZASG71MV1



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 (1-BF) x (DB* - EDB)
 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.
- 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)

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		
		TC	CPI	—	TC	CPI	—	TC	CPI	—	TC	CPI	—
°CDB	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	—

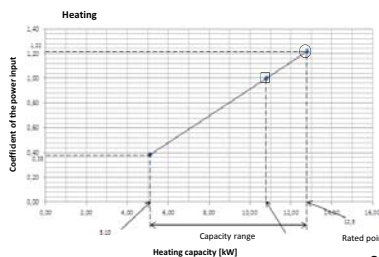
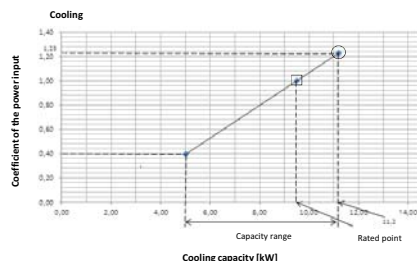
Pair	FCAG71A	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
Cooling	2.17	2.00	2.01	1.78	1.77	1.89
Heating	2.38	2.09	2.25	2.00	1.85	2.09

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



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 (1-BF) x (DB* - EDB)
 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.
- 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)

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	1.08	10.9	7.44	1.11	10.5	7.29	1.22	10.1	7.09	1.32
18.0	25	11.8	7.58	1.08	11.4	7.48	1.12	11.0	7.27	1.23	10.5	7.08	1.33
19.0	27	12.0	7.57	1.09	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	1.09	11.7	7.37	1.13	11.4	7.24	1.23	10.9	7.04	1.34
22.0	30	12.8	7.52	1.09	12.4	7.36	1.13	11.9	7.16	1.24	11.5	7.03	1.35
24.0	32	13.5	7.42	1.09	13.0	7.27	1.14	12.6	7.06	1.26	12.0	6.91	1.36

Heating

Indoor		Outdoor temperature (°C WB)											
		-15.0			-10.0			-5.0			0.0		
		TC	CPI	—	TC	CPI	—	TC	CPI	—	TC	CPI	—
°CDB	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	—

Pair	FCAG100A	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	2.52	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

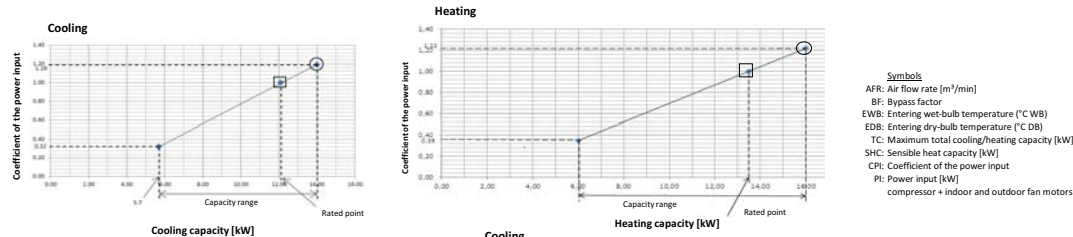
Triple	FCAG35A X 3	FHA35A X 3	FFA35A X 3	FDXM35F3 X 3	FNA35A X 3
Cooling	2.32	2.36	2.71	2.57	2.57
Heating	2.73	2.66	3.87	3.13	3.13

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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZASG125MV1 RZASG125MY1



- 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*
- Not 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 below.
- The rated power input for each model is mentioned in the table below.

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)		(0.06)
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		12.5 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)	(0.17 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

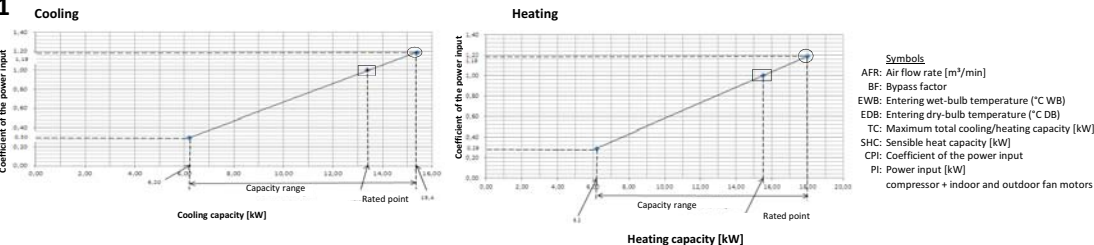
		Outdoor temperature (°C DB)											
		25			30			35			40		
Indoor		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°C WB	°C DB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	14.10	9.54	0.97	13.60	9.30	1.08	13.30	9.12	1.18	12.60	8.78	1.28
18.0	25	14.70	9.50	0.97	14.20	9.32	1.08	13.70	9.09	1.19	13.20	8.83	1.30
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

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
°C DB	°C WB	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	18.6
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	18.6
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	18.6
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	18.6
22	10.7	1.04	11.8	1.10	12.6	1.14	12.9	1.18	16.0	1.27	17.3	1.33	18.6
24	10.7	1.09	11.8	1.15	12.6	1.19	12.9	1.23	16.0	1.31	17.3	1.38	18.6

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	FNA35A X 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

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RZASG140MV1 RZASG140MY1



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

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	FVA71A 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 x 2)	(0.13 x 2)	(0.16 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	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)		(0.41 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

		Outdoor temperature (°C DB)											
		25			30			35			40		
Indoor		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°C WB	°C DB	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	10.08	1.18	13.9	9.69	1.28
18.0	25	16.2	10.05	0.98	15.6	10.01	1.09	15.1	10.04	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	10.15	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

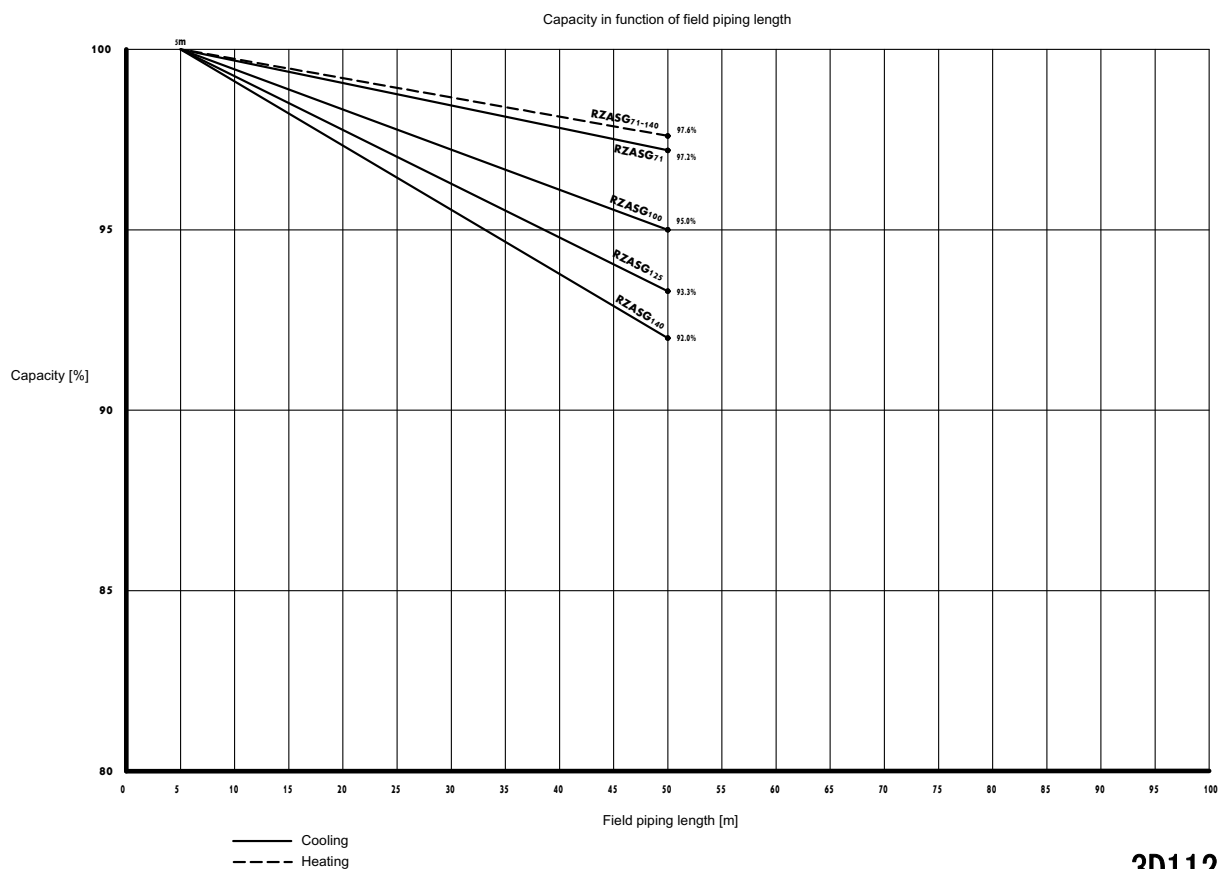
Pair		FCAG140A	FVA140A	FHA140A	FBA140A		
Cooling		4.88	5.12	4.84	4.76		
Heating		5.01	5.43	5.59	5.13		
Twin		FCAG71A X 2	FAA71A X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FVA71A X 2
Cooling		3.87	4.14	3.91	3.62	3.82	4.52
Heating		4.72	4.85	4.58	4.22	5.01	5.21
Triple		FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F3 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	3.62	4.93	4.03	4.93

3D112147

6 Capacity tables

6 - 2 Capacity Correction Factor

RZASG-MV1
RZASG-MY1



3D112163

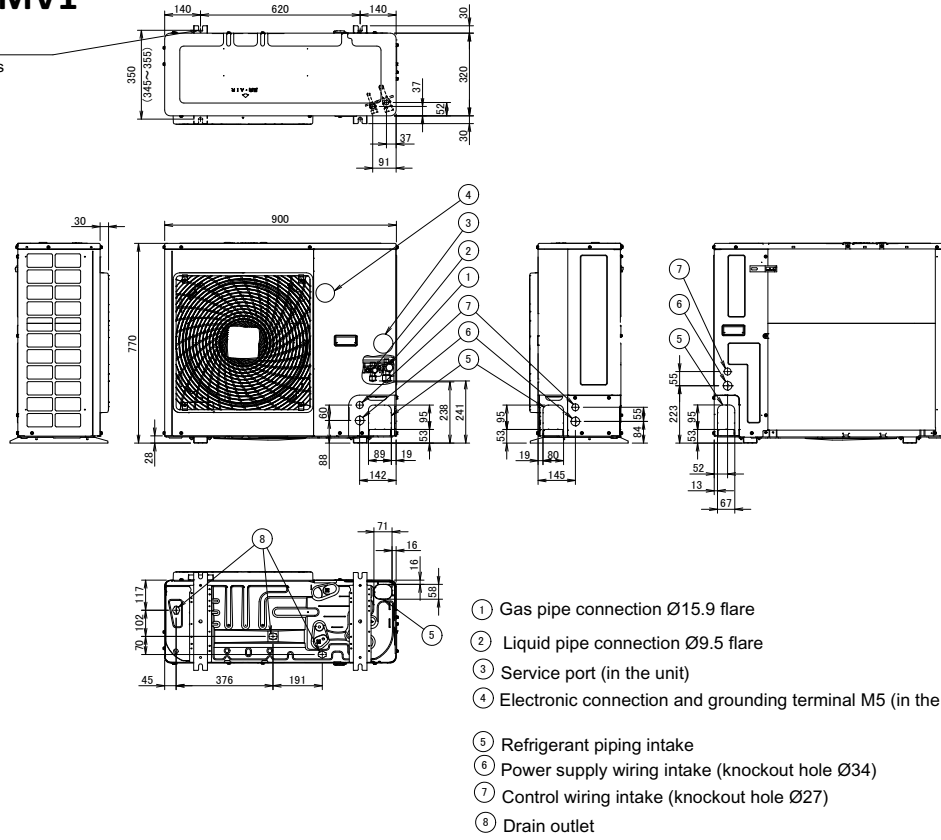
7 Dimensional drawings

7 - 1 Dimensional Drawings

AZAS71MV1

RZASG71MV1

4 holes for anchor bolts
M12



3D110013

AZAS100-140MV1

AZAS-MY1

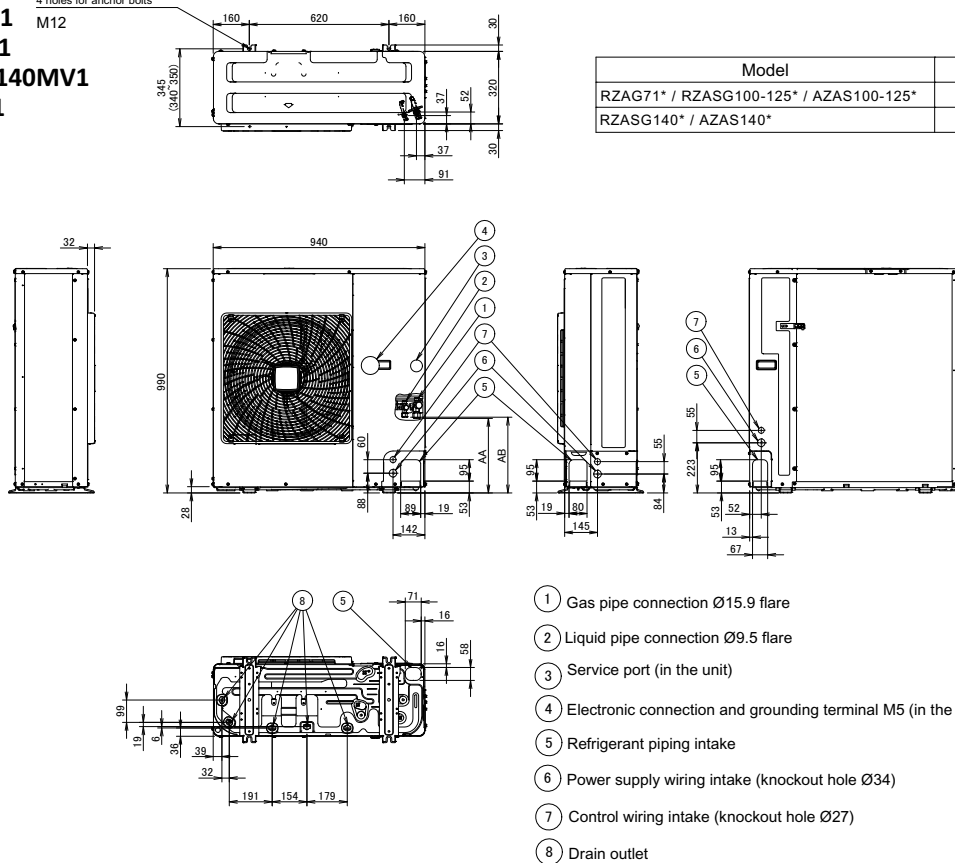
RZAG71MV1

RZAG71MY1

RZASG100-140MV1

RZASG-MY1

4 holes for anchor bolts
M12



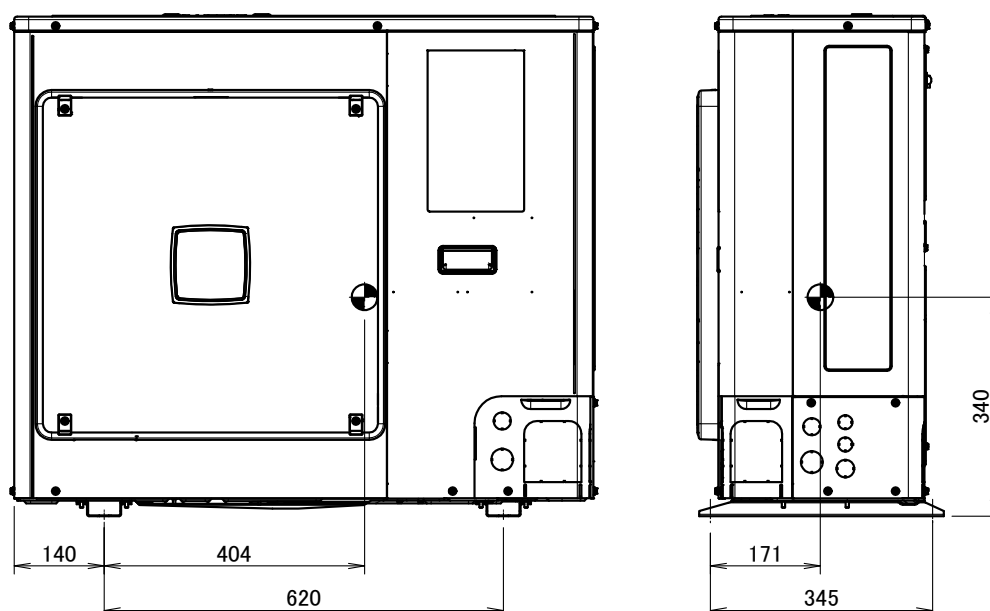
3D110011

8 Centre of gravity

8 - 1 Centre of Gravity

AZAS71MV1
RZASG71MV1

8



4D110027

8 Centre of gravity

8 - 1 Centre of Gravity

AZAS100-140MV1

AZAS-MY1

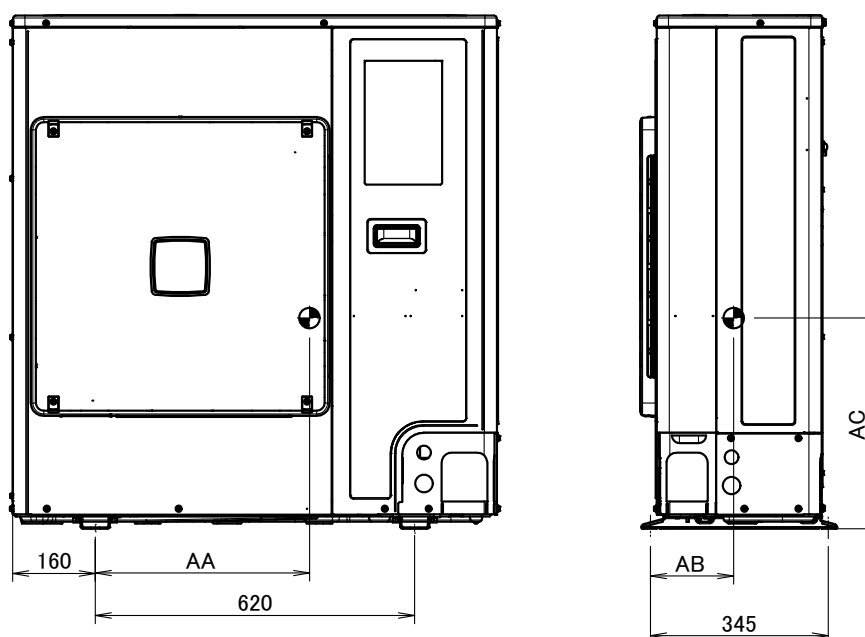
RZAG71MV1

RZAG71MY1

RZASG100-140MV1

RZASG-MY1

8



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

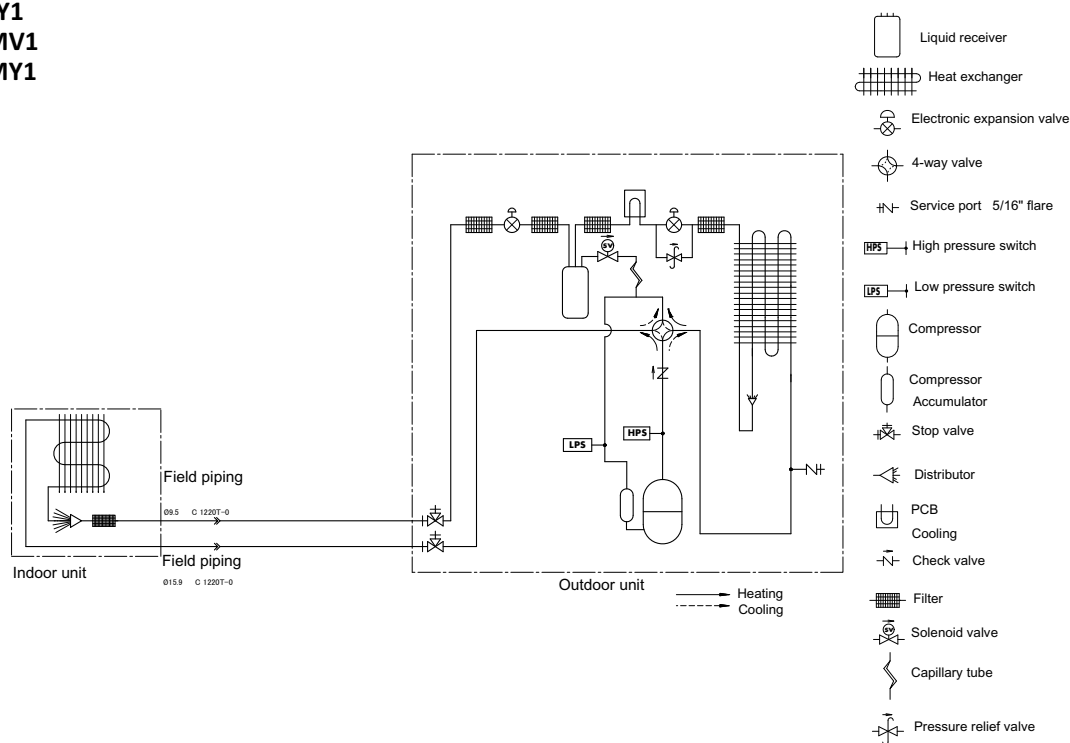
4D110025

9 Piping diagrams

9 - 1 Piping Diagrams

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

9



3D108855A

9 Piping diagrams

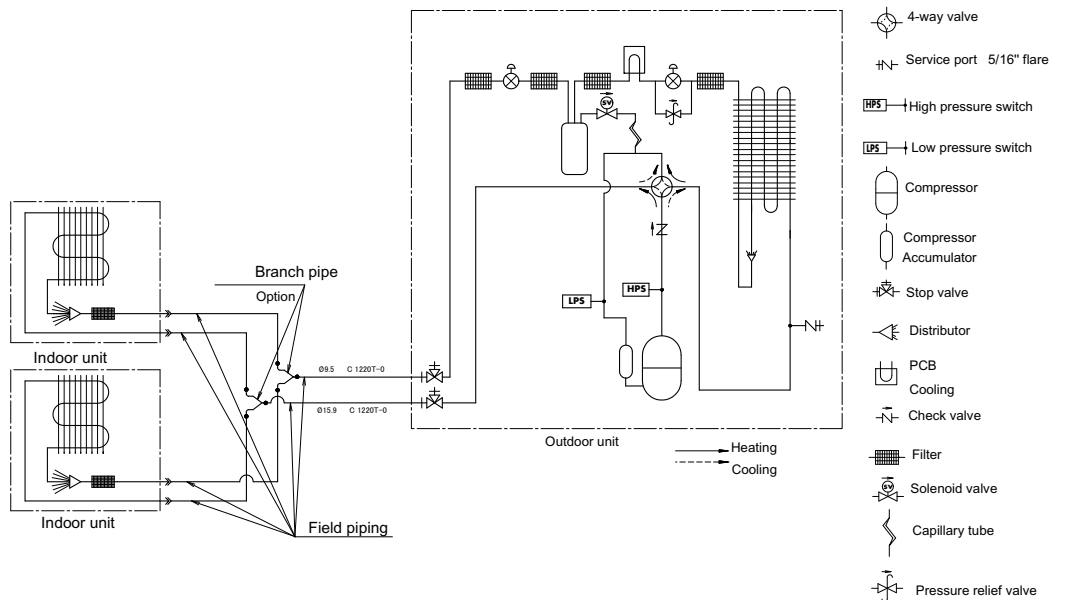
9 - 2 Piping Diagram Twin Application

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.

3D108856A

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

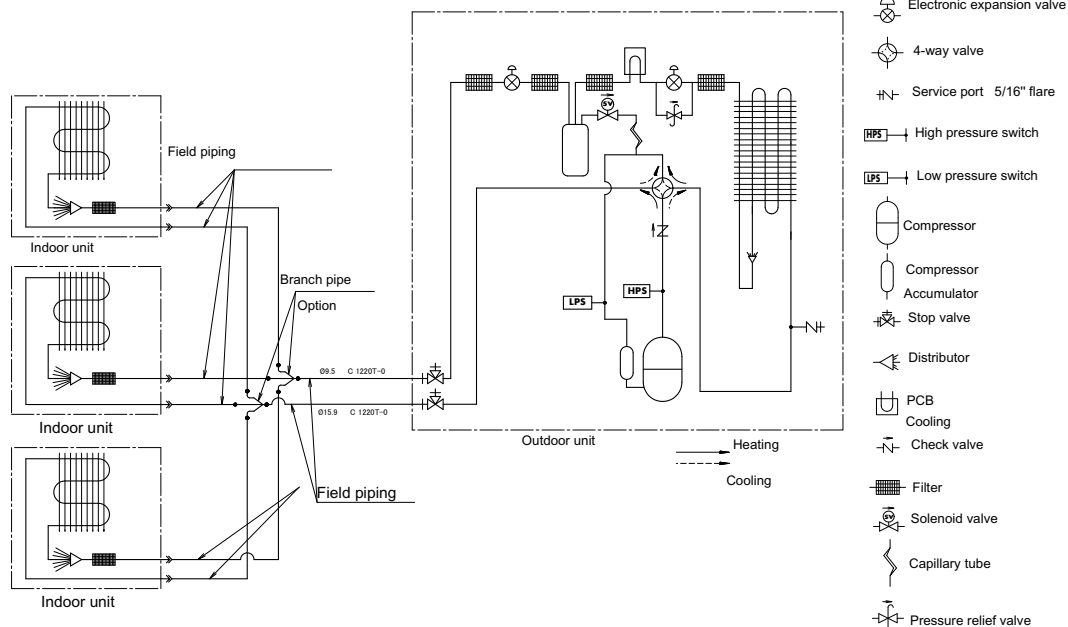
RZAG100-140MV1

RZAG100-140MY1

RZASG100-140MV1

RZASG-MY1

9



Notes

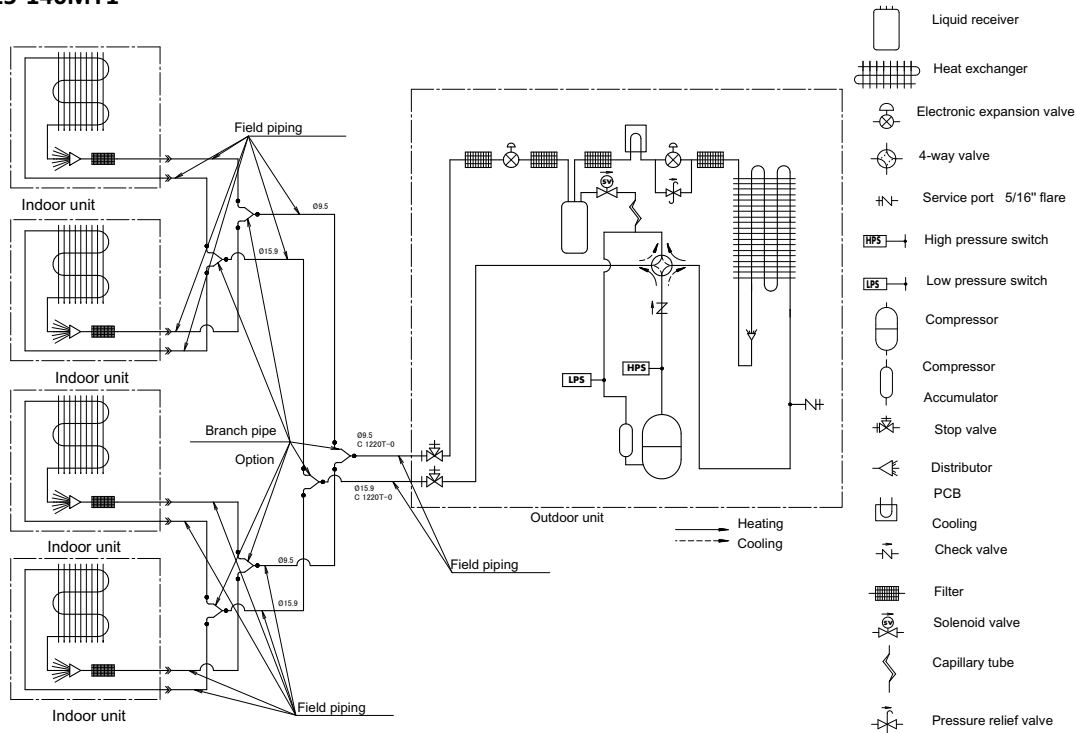
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

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.

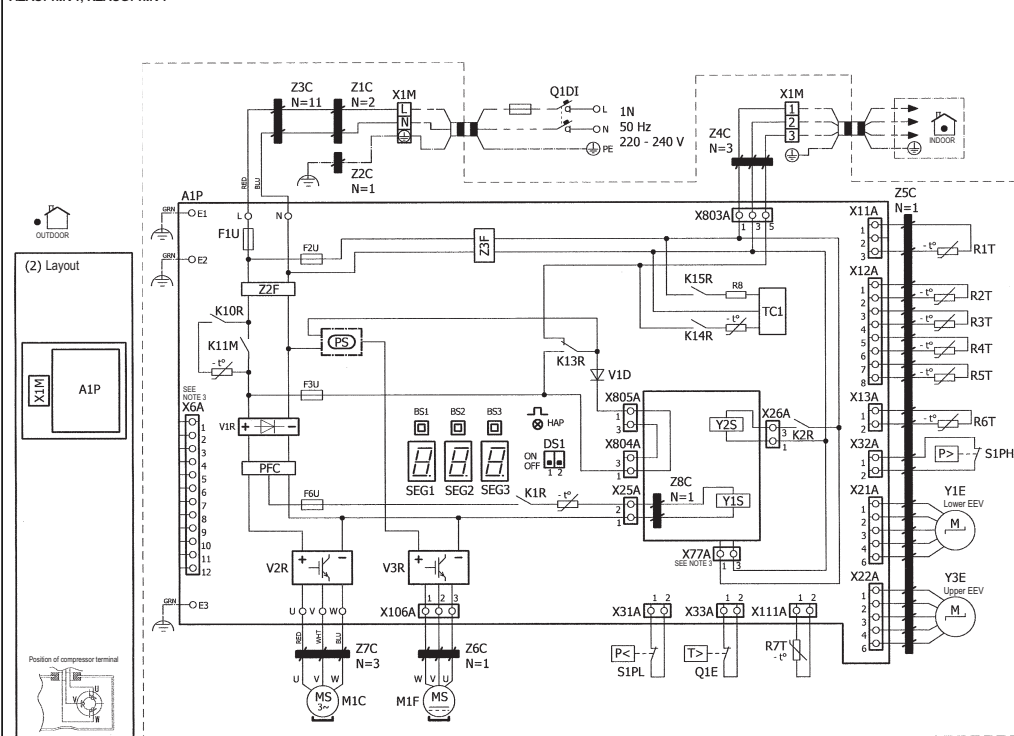
3D108858A

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

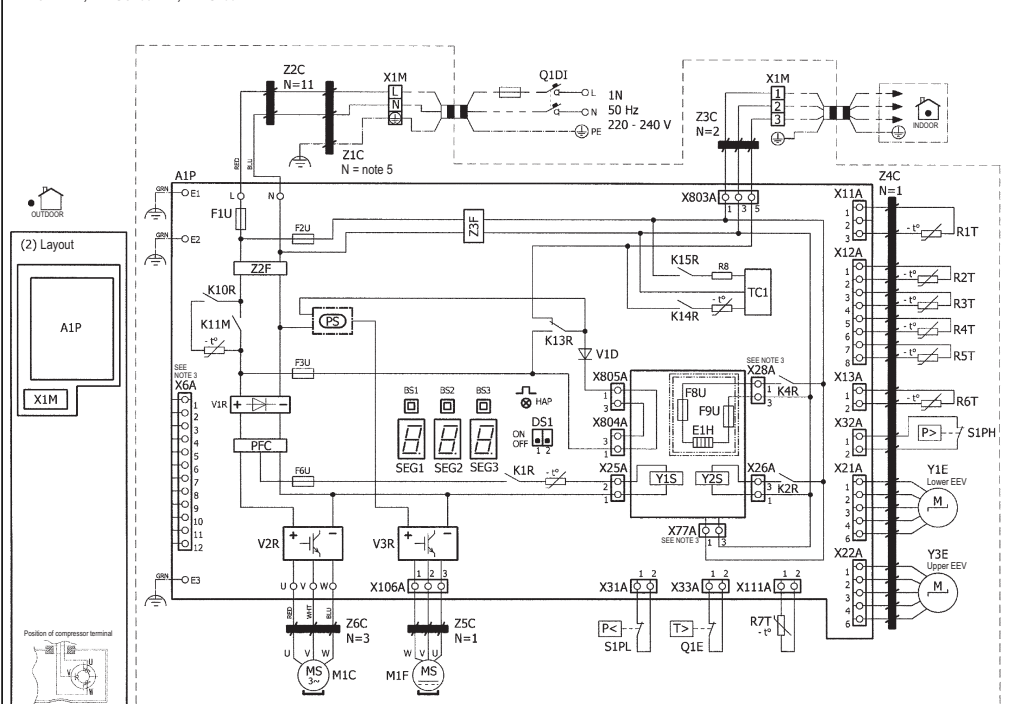
AZAS71MV1, RZASG71MV1



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
V1R (A1P)	Diode module
X1A (A1P)	Connector
X1M	Terminal strip
Y1E, Y3E	Electronic expansion valve
Y1-2S	Solenoid valve (4-way valve)
Z1C	Noise filter (ferrite core)
Z1F (A1P)	Noise filter

4D110098

RZAG71MV1, RZASG100MV1, AZAS100MV1



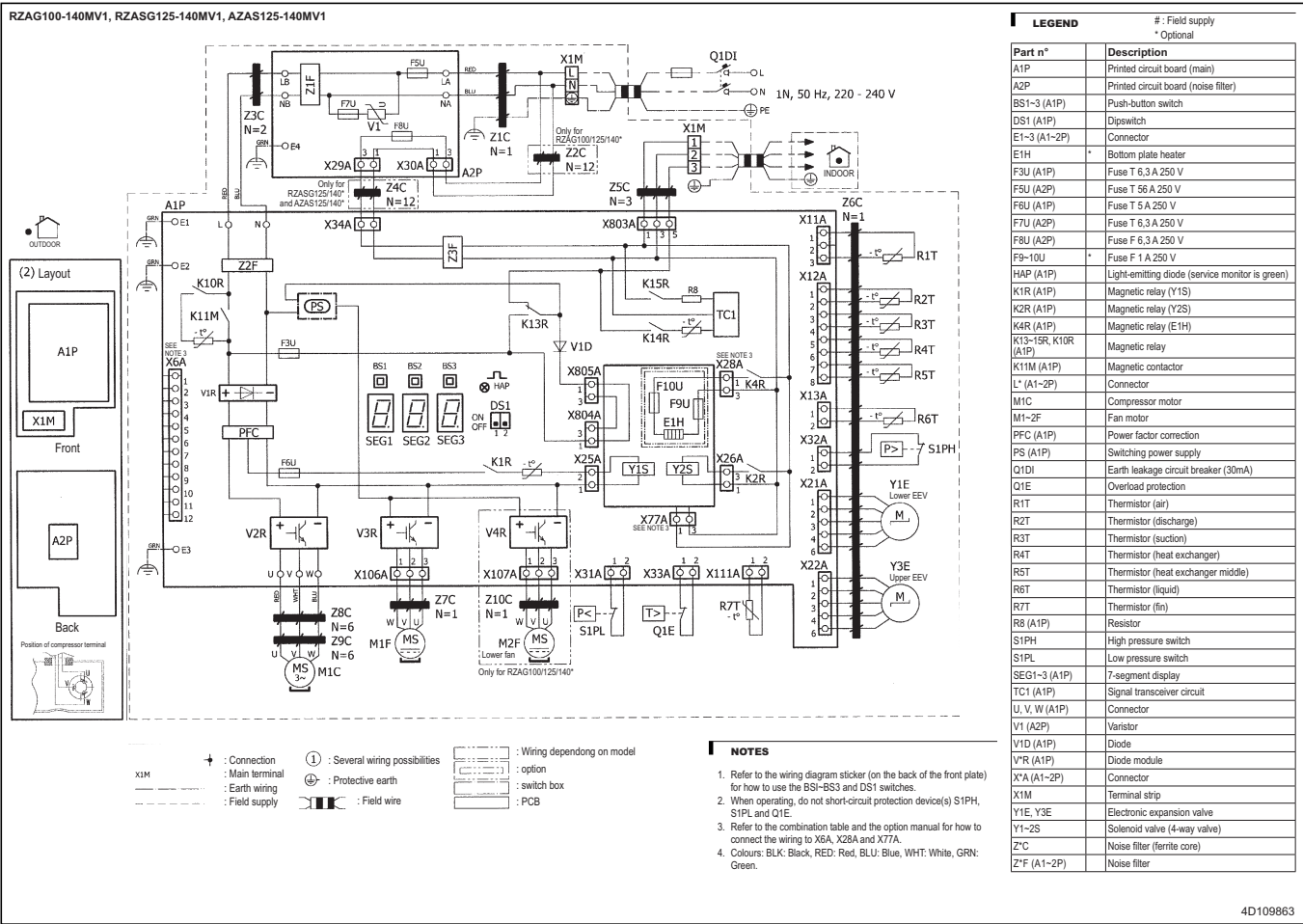
Part n°	Description
A1P	Printed circuit board (main)
BS1-3 (A1P)	Push-button switch
DS1 (A1P)	Dipswitch
E1-3 (AAP)	Connector
E1H	Bottom plate heater
F1U (A1P)	Fuse T 31.5 A 250 V
F2U (A1P)	Fuse T 6.3 A 250 V
F3U (A1P)	Fuse T 6.3 A 250 V
F6U (A1P)	Fuse T 5 A 250 V
F8-9U	Fuse T 1 A 250 V
HAP (A1P)	Light-emitting 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
V1R (A1P)	Diode module
X1M	Terminal strip
Y1E, Y3E	Electronic expansion valve
Y1-2S	Solenoid valve (4-way valve)
Z1C	Noise filter (ferrite core)
Z1F (A1P)	Noise filter

4D109936

22

10 Wiring diagrams

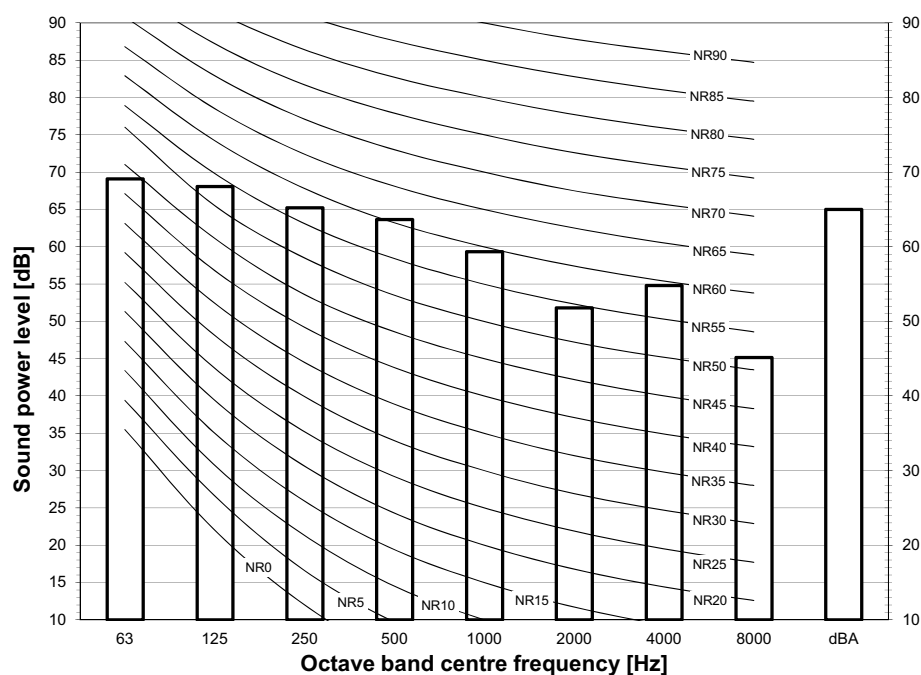
10 - 1 Wiring Diagrams - Single Phase



11 Sound data

11 - 1 Sound Power Spectrum

AZAS71MV1
RZASG71MV1

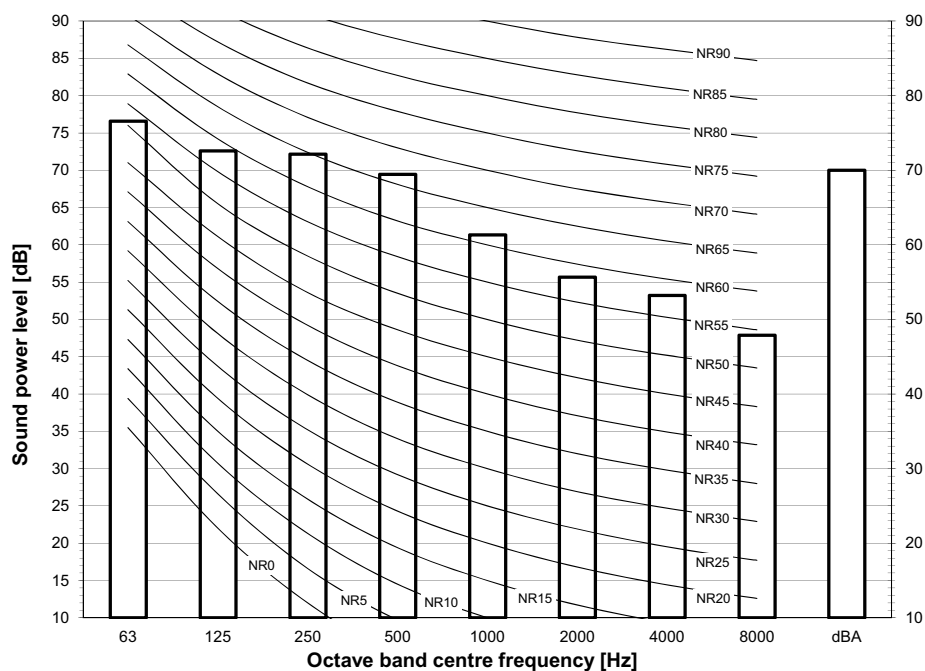


Notes

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

3D110037

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1



Notes

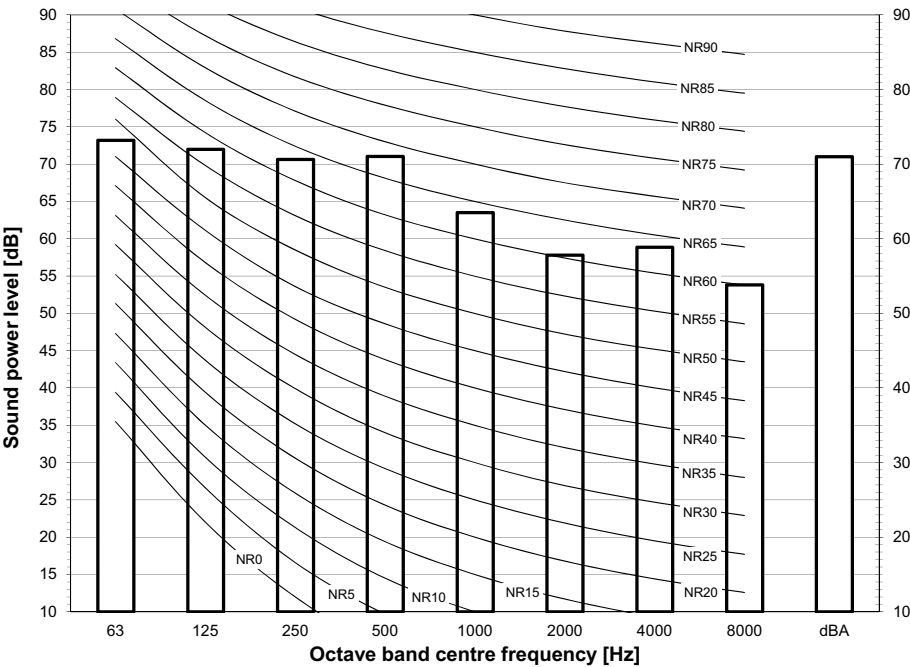
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- Measured according to ISO 3744

3D110038

11 Sound data

11 - 1 Sound Power Spectrum

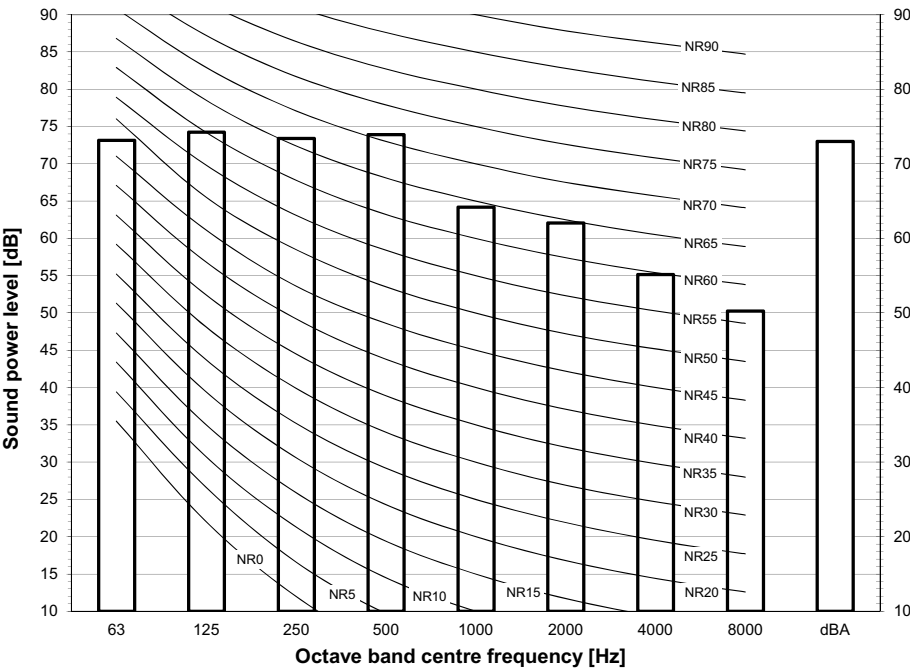
AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



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



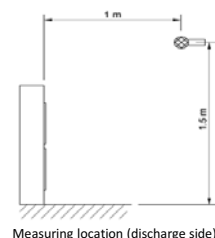
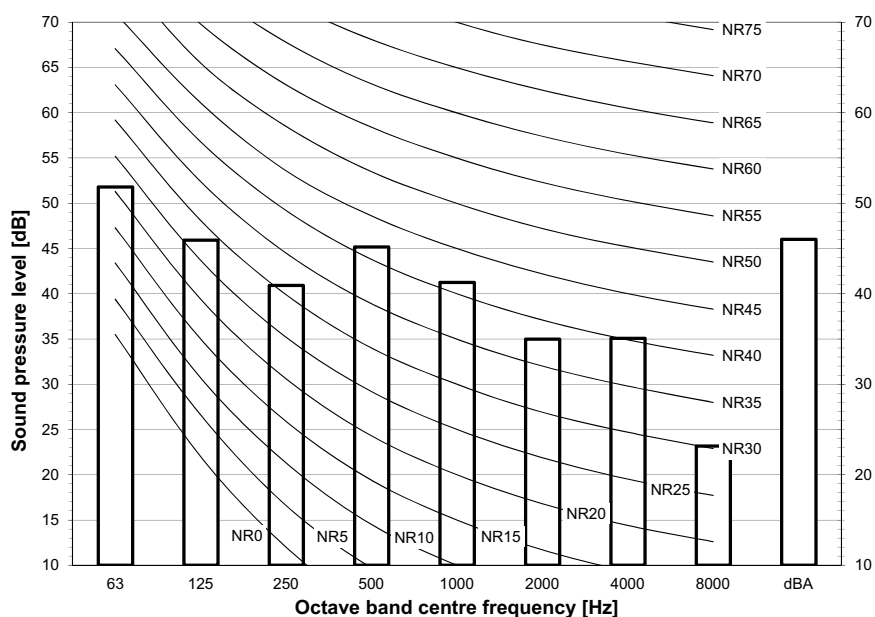
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

3D110040

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

AZAS71MV1
RZASG71MV1

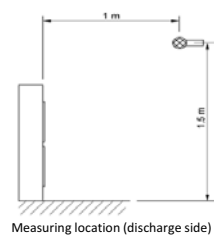
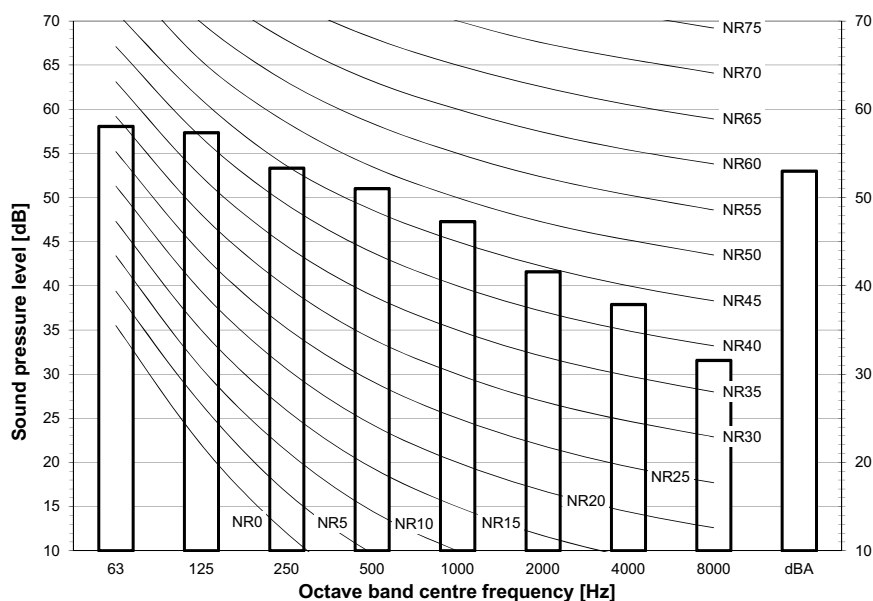


Notes

- 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

3D110049

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1



Notes

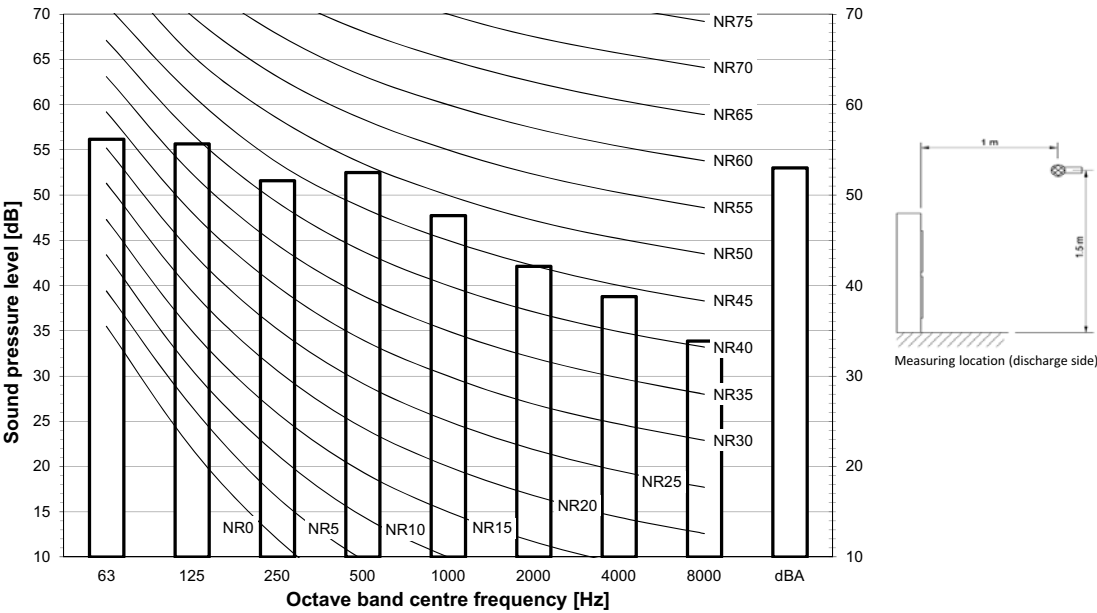
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D110050

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

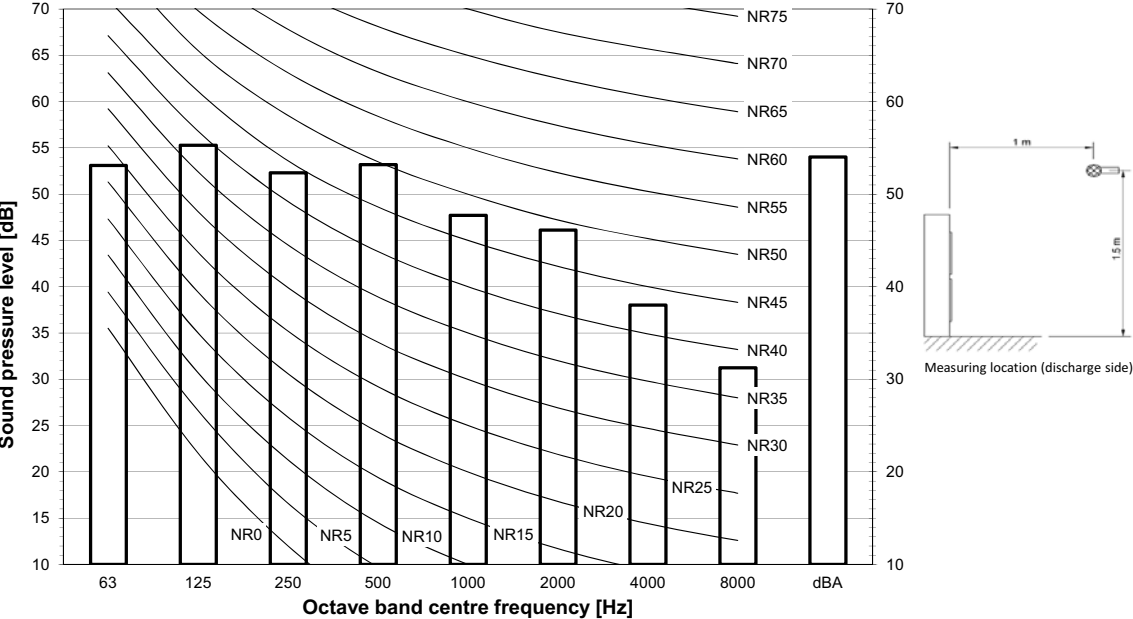
AZAS125MV1
 AZAS125MY1
 RZASG125MV1
 RZASG125MY1



- 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



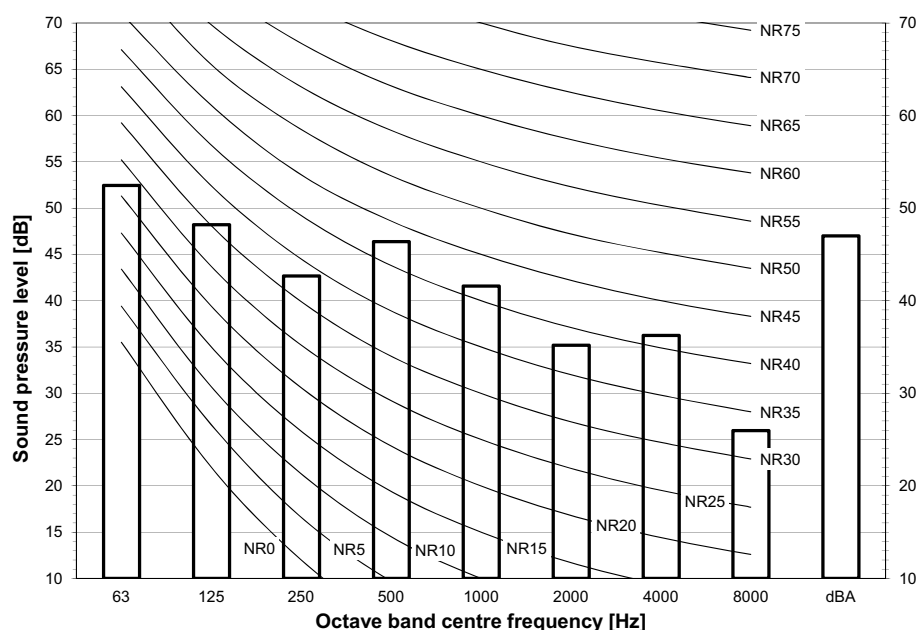
- Notes**
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 µPa

3D111310

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

AZAS71MV1
RZASG71MV1

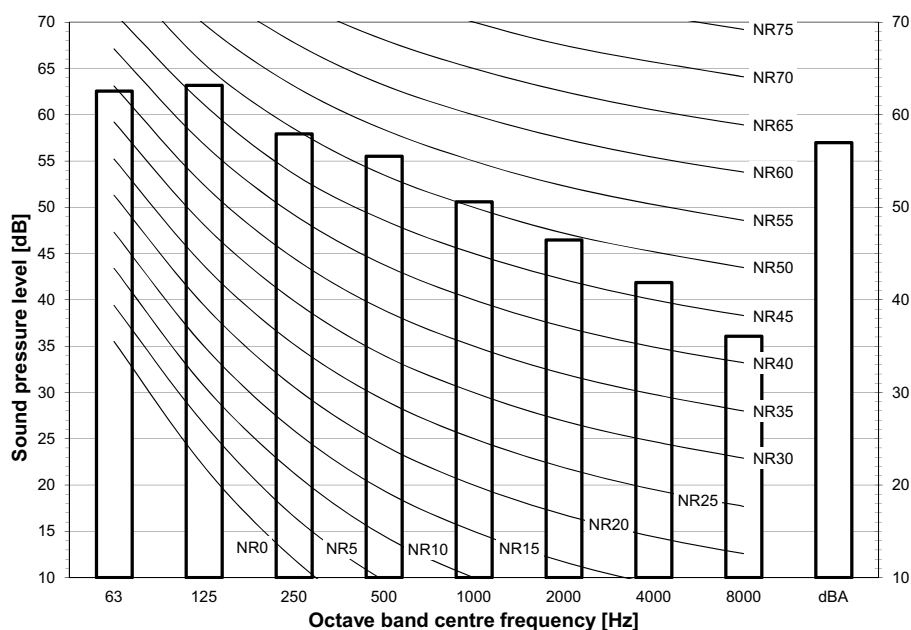


Notes

- 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

3D111293

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1



Notes

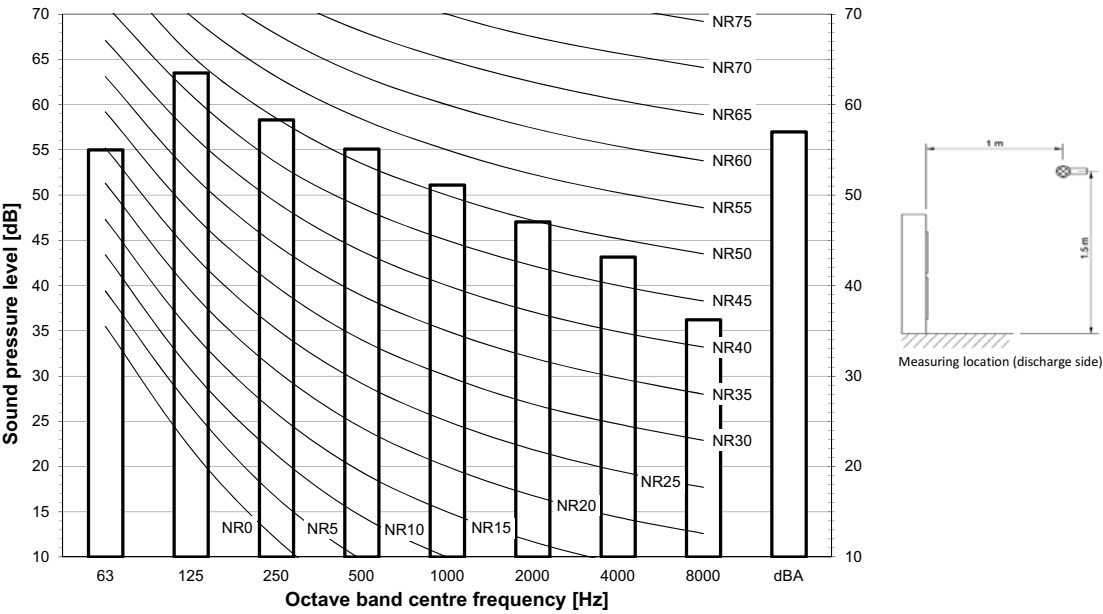
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D111294

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

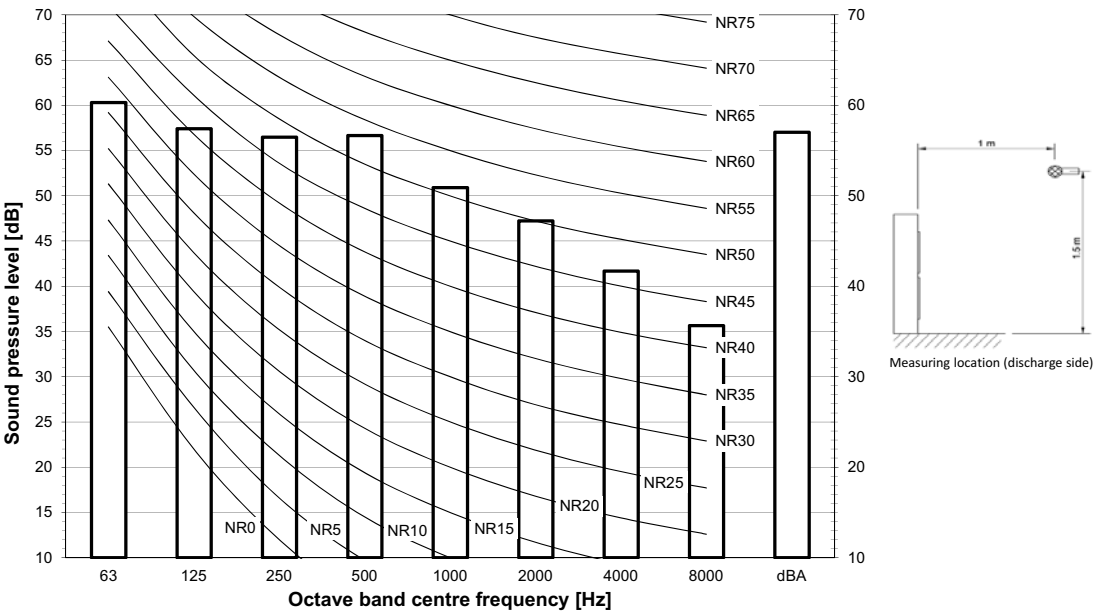
AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



- 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

3D111295

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1



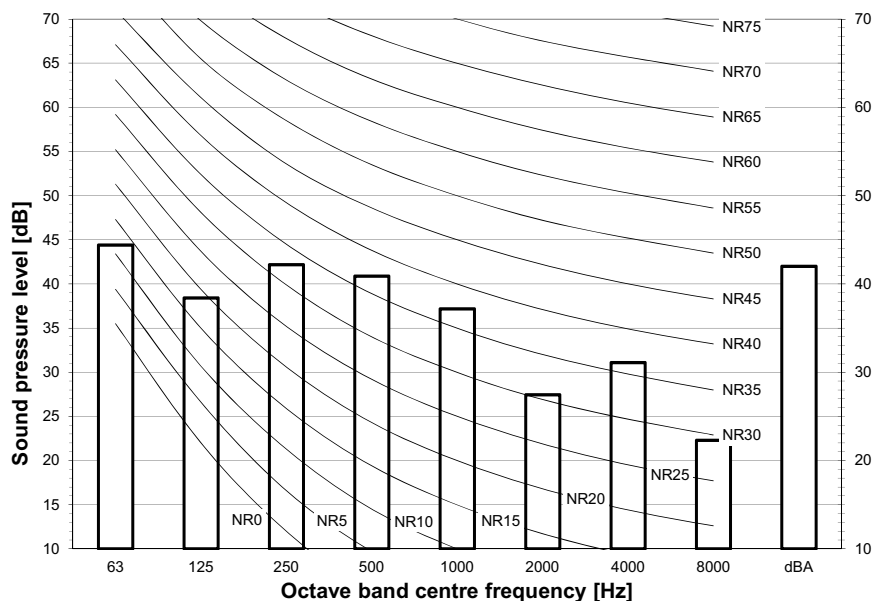
- Notes
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 μ Pa

3D111296

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

AZAS71MV1
RZASG71MV1

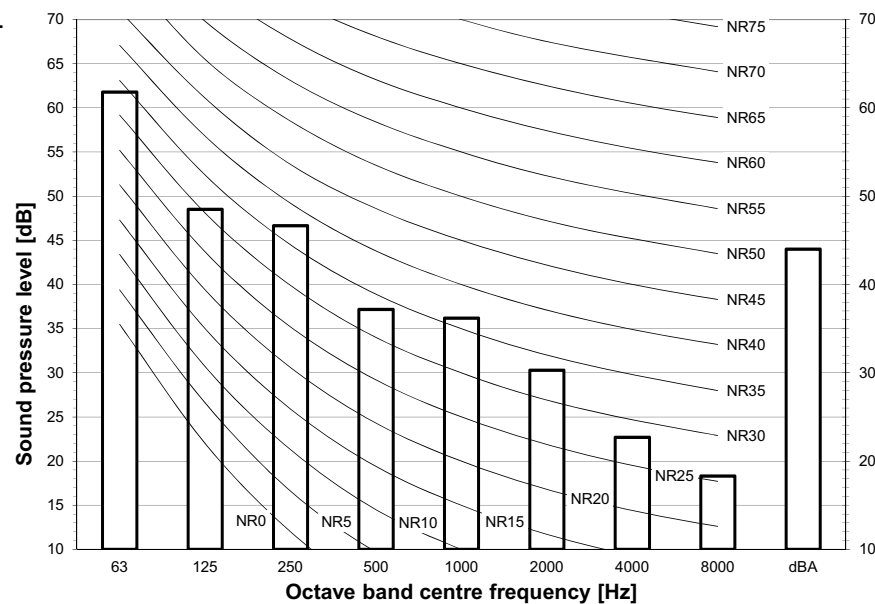


Notes

- 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 μ Pa

3D111315

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1



Notes

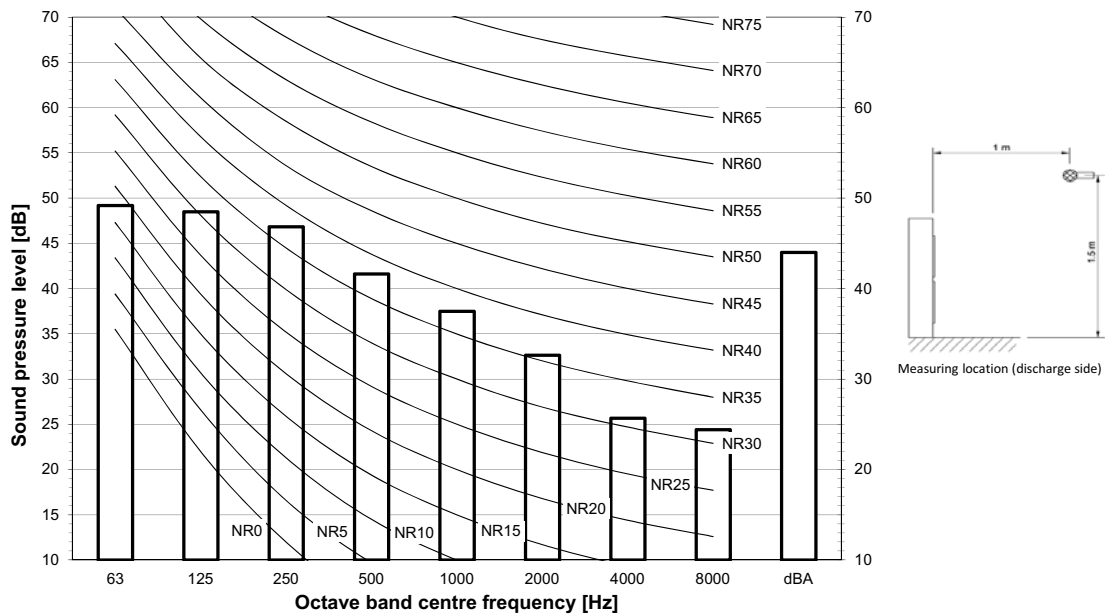
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D111316

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

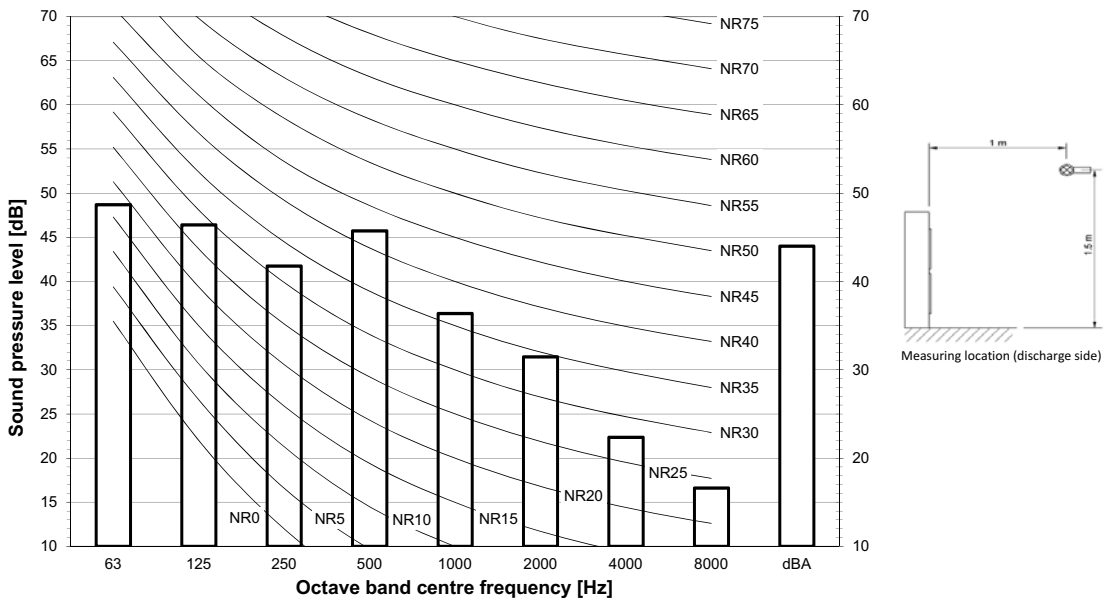
AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



- 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



- 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

12

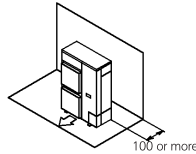
Installation service space

The measure of these values is "mm".

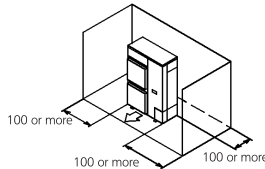
(A) When there are obstacles on suction sides.

• No obstacle above

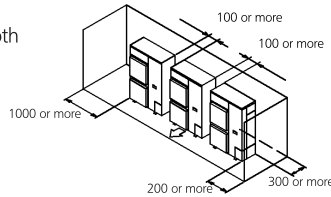
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

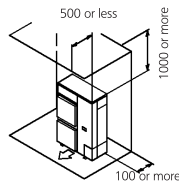


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

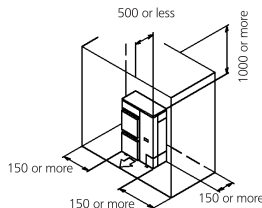


• Obstacle above, too.

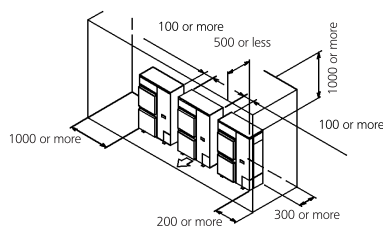
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



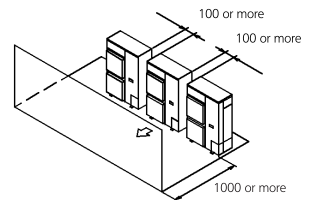
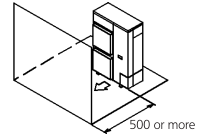
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



(B) When there are obstacles on discharge sides.

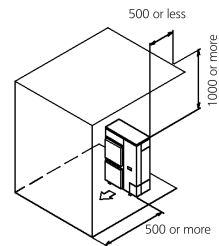
• No obstacle above

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

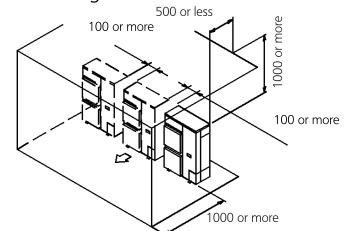


• Obstacle above, too

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



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



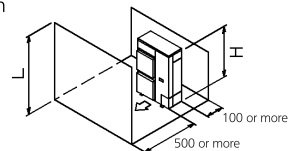
(C) When there are obstacles on both suction and discharge sides.

Pattern 1

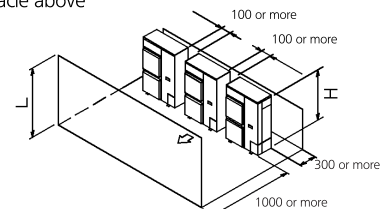
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
 - No obstacle above



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



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12 Installation

12 - 1 Installation Method

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

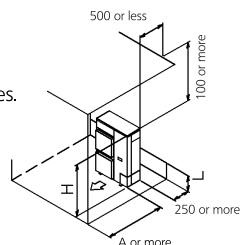
• Obstacle above, too

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.

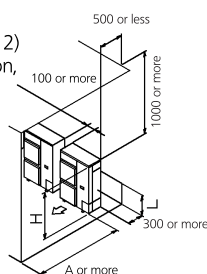
The relations between H, A and L are as follows.

	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

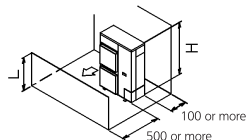
When the obstacle on the discharge side is lower than the unit ($L \leq H$)
(There is no limit for the height of obstructions on the suction side.)



• No obstacle above

① Stand-alone installation

- No obstacle above

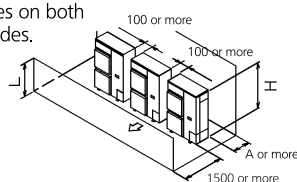


② Series installation (2 or more) (Note 1, 2)

- 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



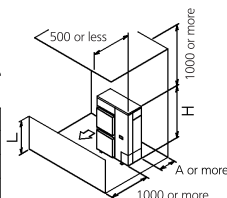
• obstacle above

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	



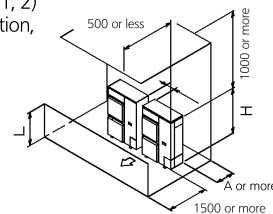
② Series installation (2 or more) (Note 1, 2)

- 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	

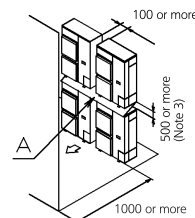
Limit of series installation is 2 units.



(D) Double-decker installation

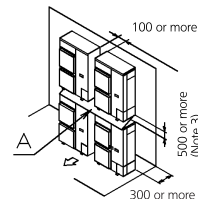
① Obstacle on the discharge side. (1)

- 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.



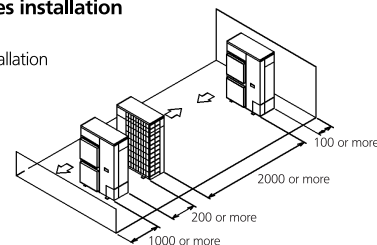
② Obstacle on the suction side. (1)

- 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.)

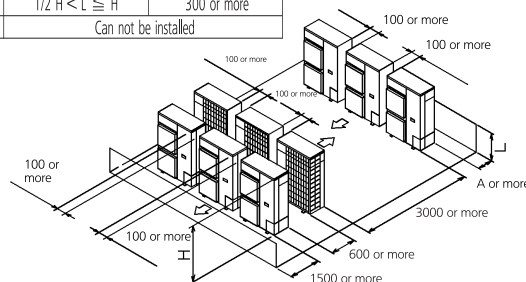
① One row of stand-alone installation



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.

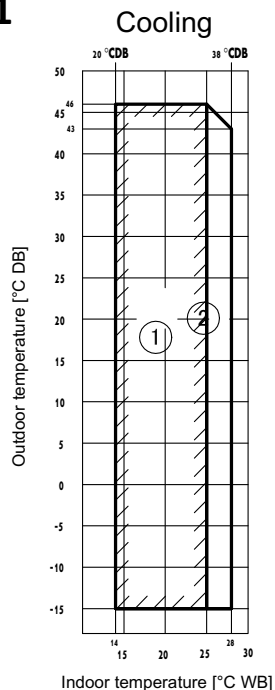
3D069554

13 Operation range

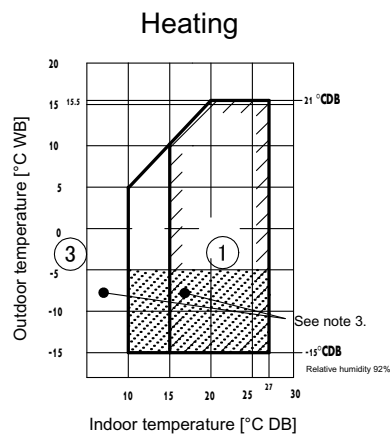
13 - 1 Operation Range

RZASG-MV1

RZASG-MY1



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



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.

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