Sky Air Advance-series Air Conditioning Technical Data

RZASG-MV1

EEDEN21

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RZASG-MV1

1 Features

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Technology and comfort combined for commercial applications

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- › 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

Vertical auto swing

Auto cooling-heating changeover

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Technical Specifications					RZASG71MV1	RZASG100MV1	RZASG125MV1	RZASG140MV1
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)			
Fan	Type				Propeller			
	Discharge direction				Horizontal			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m^3/min	56	69	71	76
		Heating	Nom.	m^3/min	50	82		
			Partial	m^3/min	-		55 (1)	
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Output			W	94	200		
	Drive				Direct drive			
Compressor	Quantity				1			
	Type				Hermetically sealed swing compressor			
Operation range	Cooling	Ambient	Min.	°CDB	-15			
			Max.	°CDB	46			
	Heating	Ambient	Min.	°CWB	-15			
			Max.	°CWB	15.5			
Sound power level	Cooling			dBA	65	70	71	73
	Heating			dBA	-		71 (1)	73 (1)
Sound pressure level	Cooling	Nom.		dBA	46	53		54
	Heating	Nom.		dBA	47	57		
Refrigerant	Type				R-32			
	Charge			kg	2.45	2.60		2.90
	Charge			TCO2Eq	1.65	1.76		1.96
Refrigerant	Control				Expansion valve (electronic type)			
	GWP				675			
	Circuits	Quantity			1			
Refrigerant oil	Type				FW68DA			
	Charged volume			l	0.90			1.35
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			
		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		m	0.5			
	Heat insulation				Both liquid and gas pipes			
Defrost control					Sensor for outdoor heat exchanger temperature			
Capacity control	Method				Inverter controlled			
PED	Category				Category II			
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;

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

Electrical Specifications				RZASG71MV1	RZASG100MV1	RZASG125MV1	RZASG140MV1
Power supply	Name			V1			
	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	220-240			
	Voltage range		V	198			
			V	264			
Current	Zmax	List		Complies to EN61000-3-11			
	Minimum Ssc value		kVa	Equipment complying with EN / IEC 61000-3-12/ See note 2 / See note 3			
Wiring connections	For power supply	Remark		See installation manual outdoor unit			
	For connection with indoor	Remark		See installation manual outdoor unit			
Power supply intake				See installation manual outdoor unit			
Current - 50Hz	Maximum fuse amps (MFA)		A	20	25	32	

(1)According to ENER Lot 21 |
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. |
Ssc: Short-circuit power |
European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current ≤ 16A per phase.

Technical specifications				FCAG71B + RZASG71MV1	FCAG100B + RZASG100MV1	FCAG125B + RZASG125MV1	FCAG140B + RZASG140MV1
Cooling capacity	Nom.		kW	6.80 (1)	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++		-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.4
	SEER			6.47	6.55	5.76	6.53
	ηs,c		%	-		227	258
	Annual energy consumption		kWh/a	368	507	1,261	1,231
Space heating (Average climate)	Energy efficiency class			A+		-	
	Capacity	Pdesign	kW	4.50	6.00		7.80
	SCOP/A			4.10	4.17	4.05	4.31
	SCOPnet/A			4.10	4.17	4.05	4.31
	ηs,h		%	-		159	169
	Annual energy consumption		kWh/a	1,537	2,016	2,074	2,534
	Required back up heating cap at design conditions		kW	0.00			
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.10	13.40
		EERd		3.14	3.26	2.44	2.75
		Power input	kW	2.17	2.92	4.95	4.88
	B Condition (30°C - 27/19)	Pdc	kW	5.10	7.00	8.92	9.88
		EERd		4.91	5.49	4.30	4.88
		Power input	kW	1.04	1.28	2.07	2.03
	C Condition (25°C - 27/19)	Pdc	kW	3.40	4.50	5.74	6.35
		EERd		8.43	7.77	6.74	7.69
		Power input	kW	0.40	0.58	0.85	0.83
	D Condition (20°C - 27/19)	Pdc	kW	2.89	3.11	3.18	3.74
		EERd		12.54	11.16	10.49	12.01
		Power input	kW	0.23	0.28	0.30	0.31
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10			
		Pdh (declared heating cap)	kW	4.50	6.00		7.80
		COPd (declared COP)		2.37	2.52	2.59	2.26
		Power input	kW	1.90	2.38	2.32	3.44
	TBivalent	Tbiv (bivalent temperature)	°C	-10			
		Pdh (declared heating cap)	kW	4.50	6.00		7.80
		COPd (declared COP)		2.37	2.52	2.59	2.26
		Power input	kW	1.90	2.38	2.32	3.44
	A Condition (-7°C)	Pdh (declared heating cap)	kW	3.98	5.31	5.30	6.90
		COPd (declared COP)		2.37	2.75	2.78	2.60
Space heating (Average climate)	A Condition (-7°C)	Power input	kW	1.68	1.93	1.91	2.65
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.42	3.23		4.20
		COPd (declared COP)		4.21	3.97	3.88	4.32
		Power input	kW	0.58	0.81	0.83	0.97
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.92	2.10	2.13	3.40
		COPd (declared COP)		5.46	5.58	5.20	5.92
		Power input	kW	0.35	0.38	0.41	0.57
	D Condition (12°C)	Pdh (declared heating cap)	kW	2.29	2.50	2.55	3.99
		COPd (declared COP)		6.91	6.95	6.66	7.26
		Power input	kW	0.33	0.36	0.38	0.55

2 Specifications

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Technical specifications					FCAG71B + RZASG71MV1	FCAG100B + RZASG100MV1	FCAG125B + RZASG125MV1	FCAG140B + RZASG140MV1
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000			
		Heating	PCK	kW	0.000			
	Off mode	Cooling	POFF	kW	0.012			
		Heating	POFF	kW	0.012			
	Standby mode	Cooling	PSB	kW	0.012			
		Heating	PSB	kW	0.012			
	Thermostat-off mode	Cooling	PTO	kW	0.000			
		Heating	PTO	kW	0.012			
Indication if the heater is equipped with a supplementary heater (pair application)					-		No	
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	-		0.0	
Cooling	Cdc (Degradation cooling)				0.25			
Heating	Cdh (Degradation heating)				0.25			
Cooling function included					Yes			
Heating function included					Yes			
Average climate included					Yes			
Cold season included					No			
Warm season included					No			
Ecolabel logo					No			

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range |
See separate drawing for electrical data

Technical specifications				FBA71A9 + RZASG71MV1	FBA100A + RZASG100MV1	FBA125A + RZASG125MV1	FBA140A + RZASG140MV1
Cooling capacity	Nom.		kW	6.80 (1)	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++	A+	-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.4
	SEER			6.19	5.83	5.49	5.81
	ηs,c		%	-		217	229
	Annual energy consumption		kWh/a	385	570	1,322	1,384
Space heating (Average climate)	Energy efficiency class			A+	A	-	
	Capacity	Pdesign	kW	4.50	6.00		7.80
	SCOP/A			4.01	3.85	3.63	3.85
	SCOPnet/A			4.01	3.85	3.63	3.85
	ηs,h		%	-		142	151
	Annual energy consumption		kWh/a	1,571	2,182	2,314	2,836
	Required back up heating cap at design conditions		kW	0.00			
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.10	13.40
		EERd		3.60	3.20	2.61	2.81
		Power input	kW	1.89	2.97	4.64	4.76
	B Condition (30°C - 27/19)	Pdc	kW	5.02	7.00	8.92	9.88
		EERd		5.30	5.13	4.34	4.66
		Power input	kW	0.95	1.36	2.06	2.12
	C Condition (25°C - 27/19)	Pdc	kW	3.23	4.50	5.74	6.35
		EERd		7.84	7.01	6.36	6.84
		Power input	kW	0.41	0.64	0.90	0.93
	D Condition (20°C - 27/19)	Pdc	kW	2.92	3.10	3.17	3.97
		EERd		9.87	8.59	8.72	8.83
		Power input	kW	0.30	0.36		0.45
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10			
		Pdh (declared heating cap)	kW	4.50	6.00		7.80
		COPd (declared COP)		2.37	2.45	2.50	2.06
		Power input	kW	1.90	2.45	2.40	3.78
	TBivalent	Tbiv (bivalent temperature)	°C	-10			
		Pdh (declared heating cap)	kW	4.50	6.00		7.80
		COPd (declared COP)		2.37	2.45	2.50	2.06
		Power input	kW	1.90	2.45	2.40	3.78
	A Condition (-7°C)	Pdh (declared heating cap)	kW	3.98	5.31	5.30	6.90
		COPd (declared COP)		2.66	2.69	2.72	2.46

2 Specifications

1 - 1 RZASG-MV1

Technical specifications					FBA71A9 + RZASG71MV1	FBA100A + RZASG100MV1	FBA125A + RZASG125MV1	FBA140A + RZASG140MV1
Space heating (Average climate)	A Condition (-7°C)	Power input		kW	1.50	1.97	1.95	2.81
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.42	3.23		4.20
		COPd (declared COP)			4.12	3.77	3.53	3.94
		Power input		kW	0.59	0.86	0.91	1.07
	C Condition (7°C)	Pdh (declared heating cap)		kW	2.06	2.26	2.27	3.50
		COPd (declared COP)			5.04	4.83	4.37	4.98
		Power input		kW	0.41	0.47	0.52	0.70
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.43	2.57	2.66	4.10
		COPd (declared COP)			6.19	5.70	5.36	6.10
		Power input		kW	0.39	0.45	0.50	0.67
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000			
		Heating	PCK	kW	0.000			
	Off mode	Cooling	POFF	kW	0.014			
		Heating	POFF	kW	0.014			
	Standby mode	Cooling	PSB	kW	0.014			
		Heating	PSB	kW	0.014			
	Thermostat-off mode	Cooling	PTO	kW	0.000			
		Heating	PTO	kW	0.014			
Indication if the heater is equipped with a supplementary heater (pair application)					-		No	
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	-		0.0	
Cooling	Cdc (Degradation cooling)				0.25			
Heating	Cdh (Degradation heating)				0.25			
Cooling function included					Yes			
Heating function included					Yes			
Average climate included					Yes			
Cold season included					No			
Warm season included					No			
Ecolabel logo					No			

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range |
See separate drawing for electrical data

Technical specifications				FDA125A + RZASG125MV1
Cooling capacity	Nom.		kW	12.1 (1)
Heating capacity	Nom.		kW	13.5 (2)
Space cooling	Capacity	Pdesign	kW	12.1
	SEER			5.03
	ηs,c		%	198
	Annual energy consumption		kWh/a	1,444
Space heating (Average climate)	Capacity	Pdesign	kW	6.00
	SCOP/A			3.58
	SCOPnet/A			3.58
	ηs,h		%	140
	Annual energy consumption		kWh/a	2,346
	Required back up heating cap at design conditions		kW	0.00
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	12.10
		EERd		2.56
		Power input	kW	4.73
	B Condition (30°C - 27/19)	Pdc	kW	8.92
		EERd		4.03
		Power input	kW	2.21
	C Condition (25°C - 27/19)	Pdc	kW	5.74
		EERd		5.89
		Power input	kW	0.97
	D Condition (20°C - 27/19)	Pdc	kW	3.10
		EERd		7.31
		Power input	kW	0.42

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Technical specifications					FDA125A + RZASG125MV1
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10
		Pdh (declared heating cap)		kW	6.00
		COPd (declared COP)			2.54
		Power input		kW	2.36
	TBivalent	Tbiv (bivalent temperature)		°C	-10
		Pdh (declared heating cap)		kW	6.00
		COPd (declared COP)			2.54
		Power input		kW	2.36
	A Condition (-7°C)	Pdh (declared heating cap)		kW	5.30
		COPd (declared COP)			2.76
		Power input		kW	1.92
	B Condition (2°C)	Pdh (declared heating cap)		kW	3.23
Space heating (Average climate)	B Condition (2°C)	COPd (declared COP)			3.54
		Power input		kW	0.91
	C Condition (7°C)	Pdh (declared heating cap)		kW	2.29
		COPd (declared COP)			4.27
		Power input		kW	0.54
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.65
		COPd (declared COP)			5.00
		Power input		kW	0.53
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000
		Heating	PCK	kW	0.000
	Off mode	Cooling	POFF	kW	0.015
		Heating	POFF	kW	0.015
	Standby mode	Cooling	PSB	kW	0.015
		Heating	PSB	kW	0.015
	Thermostat-off mode	Cooling	PTO	kW	0.000
		Heating	PTO	kW	0.015
Indication if the heater is equipped with a supplementary heater (pair application)					No
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0
Cooling	Cdc (Degradation cooling)				0.25
Heating	Cdh (Degradation heating)				0.25
Cooling function included					Yes
Heating function included					Yes
Average climate included					Yes
Cold season included					No
Warm season included					No
Ecolabel logo					No

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range |
See separate drawing for electrical data

Technical specifications			FHA71A9 + RZASG71MV1	FHA100A + RZASG100MV1	FHA125A + RZASG125MV1	FHA140A + RZASG140MV1
Cooling capacity	Nom.	kW	6.80 (1)	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.	kW	7.50 (2)	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class		A+		-	
	Capacity Pdesign	kW	6.80	9.50	12.1	13.4
	SEER		5.95	5.83		5.88
	ηs,c	%	-		230	232
	Annual energy consumption	kWh/a	400	570	1,246	1,368
Space heating (Average climate)	Energy efficiency class		A		-	
	Capacity Pdesign	kW	4.50	6.00		7.80
	SCOP/A		3.90	3.91	3.83	3.81
	SCOPnet/A		3.90	3.91	3.83	3.81
	ηs,h	%	-		150	149
	Annual energy consumption	kWh/a	1,616	2,148	2,193	2,866
	Required back up heating cap at design conditions	kW	0.00			

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Technical specifications					FHA71A9 + RZASG71MV1	FHA100A + RZASG100MV1	FHA125A + RZASG125MV1	FHA140A + RZASG140MV1
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	6.80	9.50	12.10	13.40
		EERd			3.81	3.20	2.63	2.77
		Power input		kW	1.78	2.97	4.60	4.84
	B Condition (30°C - 27/19)	Pdc		kW	5.02	7.00	8.92	9.88
		EERd			4.84	4.91	4.53	4.59
		Power input		kW	1.04	1.43	1.97	2.15
	C Condition (25°C - 27/19)	Pdc		kW	3.28	4.50	5.74	6.35
		EERd			7.45	6.98	6.79	6.85
		Power input		kW	0.44	0.64	0.85	0.93
	D Condition (20°C - 27/19)	Pdc		kW	3.39	3.10	3.17	3.86
		EERd			9.41	8.87	9.62	9.50
		Power input		kW	0.36	0.35	0.33	0.41
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10			
		Pdh (declared heating cap)		kW	4.50	6.00		7.80
		COPd (declared COP)			2.21	2.49		1.98
		Power input		kW	2.04	2.41		3.95
	TBivalent	Tbiv (bivalent temperature)		°C	-10			
		Pdh (declared heating cap)		kW	4.50	6.00		7.80
		COPd (declared COP)			2.21	2.49		1.98
		Power input		kW	2.04	2.41		3.95
	A Condition (-7°C)	Pdh (declared heating cap)		kW	3.98	5.31	5.30	6.90
		COPd (declared COP)			2.48	2.73	2.72	2.37
Space heating (Average climate)	A Condition (-7°C)	Power input		kW	1.61	1.94	1.95	2.91
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.42	3.23		4.20
		COPd (declared COP)			3.89	3.77	3.68	3.92
		Power input		kW	0.62	0.86	0.88	1.07
	C Condition (7°C)	Pdh (declared heating cap)		kW	2.04	2.18	2.19	3.45
		COPd (declared COP)			5.22	4.96	4.84	4.95
		Power input		kW	0.39	0.44	0.45	0.70
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.41	2.57	2.58	4.05
		COPd (declared COP)			6.57	6.14	6.00	6.07
		Power input		kW	0.37	0.42	0.43	0.67
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000			
		Heating	PCK	kW	0.000			
	Off mode	Cooling	POFF	kW	0.012			
		Heating	POFF	kW	0.012			
	Standby mode	Cooling	PSB	kW	0.012			
		Heating	PSB	kW	0.012			
	Thermostat-off mode	Cooling	PTO	kW	0.000			
		Heating	PTO	kW	0.012			
Indication if the heater is equipped with a supplementary heater (pair application)					-		No	
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	-		0.0	
Cooling	Cdc (Degradation cooling)				0.25			
Heating	Cdh (Degradation heating)				0.25			
Cooling function included					Yes			
Heating function included					Yes			
Average climate included					Yes			
Cold season included					No			
Warm season included					No			
Ecolabel logo					No			

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range |
See separate drawing for electrical data

Technical specifications			FUA71A + RZASG71MV1	FUA100A + RZASG100MV1	FUA125A + RZASG125MV1
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)

2 Specifications

1 - 1 RZASG-MV1

Technical specifications					FUA71A + RZASG71MV1	FUA100A + RZASG100MV1	FUA125A + RZASG125MV1
Space cooling	Energy efficiency class				A++	A+	-
	Capacity	Pdesign		kW	6.80	9.50	12.1
	SEER				6.16	5.83	5.49
	ηs,c			%	-		217
	Annual energy consumption			kWh/a	386	570	1,322
Space heating (Average climate)	Energy efficiency class				A	A+	-
	Capacity	Pdesign		kW	4.50	6.00	
	SCOP/A				3.90	4.01	3.84
	SCOPnet/A				3.90	4.01	3.84
	ηs,h			%	-		151
	Annual energy consumption			kWh/a	1,615	2,095	2,188
	Required back up heating cap at design conditions			kW		0.00	
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	6.80	9.50	12.10
		EERd			3.84	3.20	2.35
		Power input		kW	1.77	2.97	5.15
	B Condition (30°C - 27/19)	Pdc		kW	5.02	7.00	8.92
		EERd			4.98	4.81	4.24
		Power input		kW	1.01	1.45	2.10
	C Condition (25°C - 27/19)	Pdc		kW	3.23	4.50	5.74
		EERd			7.82	7.04	6.48
		Power input		kW	0.41	0.64	0.89
	D Condition (20°C - 27/19)	Pdc		kW	3.04	3.10	3.14
		EERd			9.69	8.98	9.22
		Power input		kW	0.31	0.35	0.34
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C		-10	
		Pdh (declared heating cap)		kW	4.50	6.00	
		COPd (declared COP)			2.23	2.56	2.52
		Power input		kW	2.01	2.35	2.38
	TBivalent	Tbiv (bivalent temperature)		°C		-10	
		Pdh (declared heating cap)		kW	4.50	6.00	
		COPd (declared COP)			2.23	2.56	2.52
		Power input		kW	2.01	2.35	2.38
	A Condition (-7°C)	Pdh (declared heating cap)		kW	3.98	5.31	5.30
		COPd (declared COP)			2.51	2.79	2.76
Space heating (Average climate)	A Condition (-7°C)	Power input		kW	1.59	1.90	1.92
	B Condition (2°C)	Pdh (declared heating cap)		kW	2.42	3.23	
		COPd (declared COP)			3.90	3.87	3.70
		Power input		kW	0.62	0.83	0.87
	C Condition (7°C)	Pdh (declared heating cap)		kW	2.07	2.19	2.21
		COPd (declared COP)			5.17	5.10	4.81
		Power input		kW	0.40	0.43	0.46
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.44	2.57	2.59
		COPd (declared COP)			6.56	6.26	5.89
		Power input		kW	0.37	0.41	0.44
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW		0.000	
		Heating	PCK	kW		0.000	
	Off mode	Cooling	POFF	kW		0.012	
		Heating	POFF	kW		0.012	
	Standby mode	Cooling	PSB	kW		0.012	
		Heating	PSB	kW		0.012	
	Thermostat-off mode	Cooling	PTO	kW		0.000	
		Heating	PTO	kW		0.012	
Indication if the heater is equipped with a supplementary heater (pair application)					-		No
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	-		0.0
Cooling	Cdc (Degradation cooling)					0.25	
Heating	Cdh (Degradation heating)					0.25	
Cooling function included						Yes	
Heating function included						Yes	
Average climate included						Yes	
Cold season included						No	
Warm season included						No	

2 Specifications

1 - 1 RZASG-MV1

Technical specifications	FUA71A + RZASG71MV1	FUA100A + RZASG100MV1	FUA125A + RZASG125MV1
Ecolabel logo	No		

2

(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. |
See separate drawing for operation range |
See separate drawing for electrical data

Technical specifications				FAA71B + RZASG71MV1	FAA100B + RZASG100MV1
Cooling capacity	Nom.		kW	6.80 (1)	9.50 (1)
Heating capacity	Nom.		kW	7.50 (2)	10.8 (2)
Space cooling	Energy efficiency class			A++	A+
	Capacity	Pdesign	kW	6.80	9.50
	SEER			6.41	5.83
	Annual energy consumption		kWh/a	371	570
Space heating (Average climate)	Energy efficiency class			A	
	Capacity	Pdesign	kW	4.50	6.00
	SCOP/A			3.90	3.85
	SCOPnet/A			3.90	3.85
	Annual energy consumption		kWh/a	1,615	2,182
	Required back up heating cap at design conditions		kW	0.00	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50
		EERd		3.40	2.70
		Power input	kW	2.00	3.52
	B Condition (30°C - 27/19)	Pdc	kW	5.02	7.00
		EERd		5.30	4.87
		Power input	kW	0.95	1.44
	C Condition (25°C - 27/19)	Pdc	kW	3.23	4.50
		EERd		7.98	6.85
		Power input	kW	0.40	0.66
	D Condition (20°C - 27/19)	Pdc	kW	2.84	3.00
		EERd		11.17	10.23
		Power input	kW	0.25	0.29
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10	
		Pdh (declared heating cap)	kW	4.50	6.00
		COPd (declared COP)		2.16	2.31
		Power input	kW	2.08	2.60
	TBivalent	Tbiv (bivalent temperature)	°C	-10	
		Pdh (declared heating cap)	kW	4.50	6.00
		COPd (declared COP)		2.16	2.31
		Power input	kW	2.08	2.60
	A Condition (-7°C)	Pdh (declared heating cap)	kW	3.98	5.31
		COPd (declared COP)		2.44	2.55
		Power input	kW	1.63	2.08
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.42	3.23
Space heating (Average climate)	B Condition (2°C)	COPd (declared COP)		3.90	3.68
		Power input	kW	0.62	0.88
	C Condition (7°C)	Pdh (declared heating cap)	kW	2.02	2.12
		COPd (declared COP)		5.26	5.09
		Power input	kW	0.38	0.42
	D Condition (12°C)	Pdh (declared heating cap)	kW	2.39	2.52
		COPd (declared COP)		6.62	6.53
		Power input	kW	0.36	0.39
Power consumption in other than active mode	Crankcase heater mode	Cooling PCK	kW	0.000	
		Heating PCK	kW	0.000	
	Off mode	Cooling POFF	kW	0.012	
		Heating POFF	kW	0.012	
	Standby mode	Cooling PSB	kW	0.012	
		Heating PSB	kW	0.012	
	Thermostat-off mode	Cooling PTO	kW	0.000	
		Heating PTO	kW	0.012	
Cooling	Cdc (Degradation cooling)			0.25	
Heating	Cdh (Degradation heating)			0.25	
Cooling function included				Yes	
Heating function included				Yes	
Average climate included				Yes	
Cold season included				No	
Warm season included				No	

2 Specifications

1 - 1 RZASG-MV1

Technical specifications	FAA71B + RZASG71MV1	FAA100B + RZASG100MV1
Ecolabel logo	No	

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range |
See separate drawing for electrical data

Technical specifications				FVA71A + RZASG71MV1	FVA100A + RZASG100MV1	FVA125A + RZASG125MV1	FVA140A + RZASG140MV1
Cooling capacity	Nom.		kW	6.80 (1)	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A+		-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.4
	SEER			5.83	5.72	5.52	5.63
	ηs,c		%	-		218	222
	Annual energy consumption		kWh/a	408	581	1,314	1,428
Space heating (Average climate)	Energy efficiency class			A+	A	-	
	Capacity	Pdesign	kW	4.50	6.00		7.80
	SCOP/A			4.04	3.83	3.64	3.81
	SCOPnet/A			4.04	3.83	3.64	3.81
	ηs,h		%	-		143	149
	Annual energy consumption		kWh/a	1,559	2,193	2,308	2,866
	Required back up heating cap at design conditions		kW	0.00			
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.10	13.40
		EERd		3.38	3.20	2.47	2.62
		Power input	kW	2.01	2.97	4.90	5.12
	B Condition (30°C - 27/19)	Pdc	kW	5.02	7.00	8.92	9.88
		EERd		5.07	5.01	4.31	4.52
		Power input	kW	0.99	1.40	2.07	2.19
	C Condition (25°C - 27/19)	Pdc	kW	3.23	4.50	5.74	6.35
		EERd		7.08	6.78	6.26	6.51
		Power input	kW	0.46	0.66	0.92	0.98
	D Condition (20°C - 27/19)	Pdc	kW	2.77	3.00	3.07	3.76
		EERd		9.12	8.25	9.54	8.88
		Power input	kW	0.30	0.36	0.32	0.42
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10			
		Pdh (declared heating cap)	kW	4.50	6.00		7.80
		COPd (declared COP)		2.26	2.46	2.37	1.99
		Power input	kW	1.99	2.44	2.53	3.93
	TBivalent	Tbiv (bivalent temperature)	°C	-10			
		Pdh (declared heating cap)	kW	4.50	6.00		7.80
		COPd (declared COP)		2.26	2.46	2.37	1.99
		Power input	kW	1.99	2.44	2.53	3.93
	A Condition (-7°C)	Pdh (declared heating cap)	kW	3.98	5.31	5.30	6.90
		COPd (declared COP)		2.55	2.70	2.60	2.38
Space heating (Average climate)	A Condition (-7°C)	Power input	kW	1.56	1.97	2.04	2.90
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.42	3.23		4.20
		COPd (declared COP)		4.05	3.72	3.51	3.90
		Power input	kW	0.60	0.87	0.92	1.08
	C Condition (7°C)	Pdh (declared heating cap)	kW	2.01	2.20	2.19	3.47
		COPd (declared COP)		5.41	4.81	4.57	4.99
		Power input	kW	0.37	0.46	0.48	0.70
	D Condition (12°C)	Pdh (declared heating cap)	kW	2.37	2.58	2.57	4.07
		COPd (declared COP)		6.72	5.82	5.60	6.10
		Power input	kW	0.35	0.44	0.46	0.67
Power consumption in other than active mode	Crankcase heater mode	Cooling PCK	kW	0.000			
		Heating PCK	kW	0.000			
	Off mode	Cooling POFF	kW	0.012			
		Heating POFF	kW	0.012			
	Standby mode	Cooling PSB	kW	0.012			
		Heating PSB	kW	0.012			
	Thermostat-off mode	Cooling PTO	kW	0.000			
		Heating PTO	kW	0.012			
Indication if the heater is equipped with a supplementary heater (pair application)				-		No	

2 Specifications

1 - 1 RZASG-MV1

Technical specifications			FVA71A + RZASG71MV1	FVA100A + RZASG100MV1	FVA125A + RZASG125MV1	FVA140A + RZASG140MV1
Supplementary heater (pair application)	Back-up capacity	Heating elbu kW	-		0.0	
Cooling	Cdc (Degradation cooling)		0.25			
Heating	Cdh (Degradation heating)		0.25			
Cooling function included			Yes			
Heating function included			Yes			
Average climate included			Yes			
Cold season included			No			
Warm season included			No			
Ecolabel logo			No			

(1)Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |
(2)Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |
See separate drawing for operation range |
See separate drawing for electrical data

3 Electrical data

3 - 1 Electrical Data

RZASG-MV1
RZASG-MY1
AZAS-MV1
AZAS-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

3D110014F

RZASG-MV1

								Compressor		OFM		IFM	
Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAG35BVEB	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
FCAG71BVEB		RZASG71M2V1B				18,6	–	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				19,6	–	20	–	15,4	0,094	0,9	0,070	0,5
FNA35A2VEB	x2	RZASG71M2V1B				17,9	–	20	–	15,4	0,094	0,9	0.034 x2	0,3
FUA71AVEB9		RZASG71M2V1B				25,4	–	20	–	15,4	0,094	0,9	0,046	0,9
FAA71BUV1B		RZASG71M2V1B				18,6	–	20	–	15,4	0,094	0,9	0,048	0,4
FVA71AMVEB		RZASG71M2V1B				20,7	–	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
FHA35AVEB99	x2	RZASG71M2V1B				18,2	–	20	–	15,4	0,094	0,9	0.060 x2	0.6 x2
FHA71AVEB99		RZASG71M2V1B				23,6	–	20	–	15,4	0,094	0,9	0,091	0,8
FCAG35BVEB	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
FCAG50BVEB	x2	RZASG100M7V1B				21,4	–	25	–	19,0	0,200	1,0	0.039 x2	0.3 x2
FCAG100BVEB		RZASG100M7V1B				25,9	–	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
FBA35A2VEB	x3	RZASG100M7V1B				22,7	–	25	–	19,0	0,200	1,0	0.089 x3	0.6 x3
FBA50A2VEB	x2	RZASG100M7V1B				22,0	–	25	–	19,0	0,200	1,0	0.089 x2	0.6 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
FUA100AVEB9		RZASG100M7V1B				24,9	–	25	–	19,0	0,200	1,0	0,106	1,3
FAA100BUV1B		RZASG100M7V1B				22,5	–	25	–	19,0	0,200	1,0	0,064	0,4
FVA100AMVEB		RZASG100M7V1B				23,3	–	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
FHA35AVEB99	x3	RZASG100M7V1B				22,7	–	25	–	19,0	0,200	1,0	0.060 x3	0.6 x3
FHA50AVEB99	x2	RZASG100M7V1B				22,0	–	25	–	19,0	0,200	1,0	0.060 x2	0.6 x2
FHA100AVEB9		RZASG100M7V1B				24,9	–	25	–	19,0	0,200	1,0	0,150	1,3

								Compressor		OFM		IFM	
Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAG35BVEB	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
FCAG50BVEB	x3	RZASG125M7V1B				27,7	–	32	–	24,7	0,200	1,0	0.039 x3	0.3 x3
FCAG60BVEB	x2	RZASG125M7V1B				27,4	–	32	–	24,7	0,200	1,0	0.044 x2	0.3 x2
FCAG125BVEB		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				34,5	–	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
FUA125AVEB9		RZASG125M7V1B				32,6	–	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				29,2	–	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
FHA35AVEB99	x4	RZASG125M7V1B				29,2	–	32	–	24,7	0,200	1,0	0.060 x4	0.6 x4
FHA50AVEB99	x3	RZASG125M7V1B				28,6	–	32	–	24,7	0,200	1,0	0.060 x3	0.6 x3
FHA60AVEB99	x2	RZASG125M7V1B				28,0	–	32	–	24,7	0,200	1,0	0.091 x2	0.6 x2
FHA125AVEB9		RZASG125M7V1B				34,5	–	32	–	24,7	0,200	1,0	0,150	1,5
FCAG35BVEB	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
FCAG50BVEB	x3	RZASG140M7V1B				26,9	–	32	–	24,0	0,200	1,0	0.039 x3	0.3 x3
FCAG71BVEB	x2	RZASG140M7V1B				26,8	–	32	–	24,0	0,200	1,0	0.054 x2	0.4 x2
FCAG140BVEB		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				33,8	–	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
FUA71AVEB9	x2	RZASG140M7V1B				27,9	–	32	–	24,0	0,200	1,0	0.046 x2	0.9 x2
FAA71BUV1B	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				31,8	–	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
FHA35AVEB99	x4	RZASG140M7V1B				28,5	–	32	–	24,0	0,200	1,0	0.060 x4	0.6 x4
FHA50AVEB99	x3	RZASG140M7V1B				27,9	–	32	–	24,0	0,200	1,0	0.060 x3	0.6 x3
FHA71AVEB99	x2	RZASG140M7V1B				27,7	–	32	–	24,0	0,200	1,0	0.091 x2	0.8 x2
FHA140AVEB9		RZASG140M7V1B				41,0	–	32	–	24,0	0,200	1,0	0,150	1,8

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4 Options

4 - 1 Options

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

Available options for RZAG models

Option		Option kit			
		RZAG71M7V1B RZAG71M7Y1B	RZAG100M7V1B RZAG100M7Y1B	RZAG125M7V1B RZAG125M7Y1B	RZAG140M7V1B RZAG140M7V1B
Bottom plate heater		EKBPH140L7			
Refrigerant branch piping	Twin	KHRQ(M)58T			
	Triple	-	KHRQ(M)58H		
	Double twin	-		KHRQ(M)58T (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	KHRQ(M)58T			
	Triple	-	KHRQ(M)58H		
	Double twin	-		KHRQ(M)58T (3x)	
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		FCAHG71HVEB	FCAHG100HVEB	FCAHG125HVEB	FCAHG140HVEB	FCAG35B5VEB	FCAG50B5VEB	FCAG60B5VEB	FCAG71BVEB	FCAG100BVEB	FCAG125BVEB	FCAG140BVEB	FFA35A2VEB9	FFA50A2VEB9	FFA60A2VEB9	FBA35A2VEB9	FBA50A2VEB9	FBA60A2VEB9	FBA71A2VEB9	FBA100A2VEB	FBA125A2VEB	FBA140A2VEB	FNA35A2VEB9	FNA50A2VEB9	FNA60A2VEB9	FUA71AVEB9	FUA100AVEB9	FUA125AVEB9	FAA71BAUV1B	FAA100BAUV1B	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		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							Duct (medium ESP)		
Model		FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	FDXM35F3V1B9	FDXM50F3V1B9	FDXM60F3V1B9	FHA35AVEB99	FHA50AVEB99	FHA60AVEB9	FHA71AVEB99	FHA100AVEB9	FHA125AVEB9	FHA140AVEB9	ADEA71A2VEB	ADEA100A2VEB	ADEA125A2VEB
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																P		
AZAS100M7V1B	AZAS100M7Y1B																P	
AZAS125M7V1B	AZAS125M7Y1B																	P
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

4. ·ADEA*A2VEB· can only be used in combination with ·AZAS*M*V1B·

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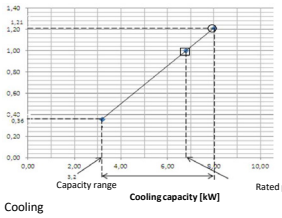
6 Capacity tables

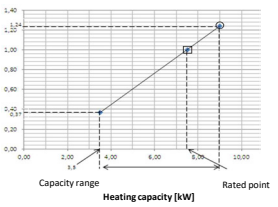
6 - 1 Cooling/Heating Capacity Tables

RZASG71MV1

Cooling



Heating



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
[°C WB]	[°C DB]	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
[°C DB]	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: ·0·m
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

	FCAG71B	FAA71B	FVA71A	FHA71A	FUA71A	FBA71A
AFR (BF)	15.3 (0.14)	18.0 (0.16)	18.0 (0.16)	20.5 (0.13)	23.0 (0.24)	18.0 (0.13)

Twin

	FCAG35B X 2	FHA35A X 2	FFA35A X 2	FDXM35F3 X 2	FBA35A X 2	FNA35A X 2
AFR (BF)	12.5 x 2 (0.4 x 2)	14.0 x 2 (0.17 x 2)	10.0 x 2 (0.25 x 2)	8,7 x 2 (0.17 x 2)	15.0 x 2 (0.08 x 2)	8,7 x 2 (0.17 x 2)

Pair

	FCAG71B	FAA71B	FVA71A	FHA71A	FUA71A	FBA71A
Cooling	2,17	2,00	2,01	1,78	1,77	1,89
Heating	2,01	2,09	2,02	2,00	1,93	1,93

Twin

	FCAG35B X	FHA35A X 2	FFA35A X 2	DXM35F3 X	FBA35A X 2	FNA35A X 2
Cooling	1,81	1,47	2,08	1,77	1,78	1,77
Heating	1,96	1,62	1,59	2,02	1,69	2,02

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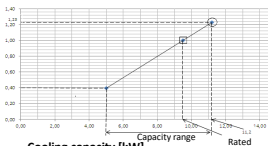
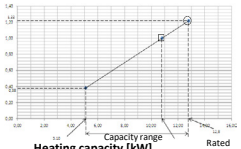
RZASG100MV1
RZASG100MY1

Cooling



Heating



Symbols

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

Cooling

		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	10.8	7.44	1.11	10.5	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	1.02	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	1.02	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	1.02	12.4	7.36	1.13	11.9	7.16	1.24	11.5	7.03	1.35
24.0	32	13.3	7.42	1.03	12.9	7.27	1.14	12.4	7.06	1.25	12.0	6.91	1.36

Heating

		Outdoor temperature [°C DB]											
		-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		kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16		8.58	0.93	9.48	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: ·0·m
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

	FCAG100B	FAA100B	FVA100A	FHA100A	FUA100A	FBA100A
AFR (BF)	22.8 (0.17)	26.0 (0.10)	28.0 (0.20)	28.0 (0.09)	31.0 (0.20)	29.0 (0.03)

Twin

	FCAG50B X 2	FHA50A9 X 2	FFA50A9 X 2	FDXM50F9 X 2	FBA50A9 X 2	FNA50A9 X 2
AFR (BF)	12.6 x 2 (0.22 x 2)	15.0 x 2 (0.18 x 2)	12.0 x 2 (0.16 x 2)	15.8 x 2 (0.11 x 2)	15.0 x 2 (0.13 x 2)	16.0 x 2 (0.11 x 2)

Triple

	FCAG35B X 3	FHA35A9 X 3	FFA35A9 X 3	FDXM35F9 X 3	FBA35A9 x 3	FNA35A9 X 3
AFR (BF)	12.5 x 3 (0.4 x 3)	14.0 x 3 (0.17 x 3)	10.0 x 3 (0.25 x 3)	8.7 x 3 (0.17 x 3)	15.0 x 3 (0.08 x 3)	8.7 x 3 (0.17 x 3)

Pair

	FCAG100B	FAA100B	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	2,92	3,52	2,97	2,97	2,97	2,97
Heating	2,92	2,85	2,43	2,86	2,85	2,26

Twin

	FCAG50B X 2	FHA50A9 X 2	FFA50A9 X 2	FDXM50F9 X 2	FBA50A9 X 2	FNA50A9 X 2
Cooling	2,57	2,97	3,39	2,44	2,86	2,44
Heating	2,37	2,23	2,33	2,41	2,19	2,23

Triple

	FCAG35B X 3	FHA35A9 X 3	FFA35A9 X 3	FDXM35F9 X 3	FBA35A9 x 3	FNA35A9 X 3
Cooling	2,32	2,16	2,71	2,57	2,65	2,57
Heating	2,84	2,77	2,14	2,26	1,99	2,31

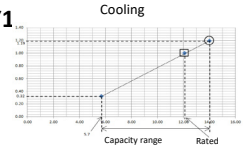
3D112145E

6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

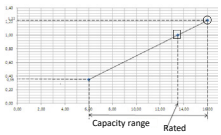
RZASG125MV1
RZASG125MY1

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

		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	9.00	0.97	14.20	9.32	1.08	13.70	9.09	1.18	13.20	8.83	1.30
19.0	27	15.00	9.52	0.98	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	0.98	14.70	9.20	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	9.33	1.00	16.10	9.09	1.11	15.50	8.83	1.21	15.00	8.63	1.32

Heating

	Outdoor temperature [°C DB]											
	−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	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	1.16	12.5	1.19	12.9	1.23	16.0	1.31	17.3	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

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

Twin

	FCAG60B X 2	FHA60A X 2	FFA60AX 2	FDXM60F3 X 2	FBA60A X 2	FNA60A X 2
AFR (BF)	13.6 x 2 (0.2 x 2)	19.5 x 2 (0.20 x 2)	14.5 x 2 (0.11 x 2)	16.0 x 2 (0.12 x 2)	18.0 x 2 (0.18 x 2)	16.0 x 2 (0.12 x 2)

Triple

	FCAG50B X 3	FHA50A X 3	FFA50A X 3	FDXM50F3 X 3	FBA50A X 3	FNA50A X 3
AFR (BF)	12.6 x 3 (0.22 x 3)	15.0 x 3 (0.18 x 3)	12.0 x 3 (0.16 x 3)	15.8 x 3 (0.11 x 3)	15.0 x 3 (0.13 x 3)	16.0 x 3 (0.11 x 3)

Double twin

	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F3 X 4	FBA35A X 4	FNA35AX 4
AFR (BF)	12.5 x 4 (0.4 x 4)	14.0 x 4 (0.17 x 4)	10.0 x 4 (0.25 x 4)	8.7 x 4 (0.17 x 4)	15.0 x 4 (0.08 x 4)	8.7 x 4 (0.17 x 4)

Pair

	FCAG125B	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
Cooling	4,95	4,73	4,90	4,60	5,15	4,63
Heating	3,15	3,31	3,64	3,49	3,38	3,37

Twin

	FCAG60B 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	3,31	3,13	3,19	3,47	2,99	3,47

Triple

	FCAG50B 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	2,87	2,87	2,90	3,13	2,89	3,13

Double twin

	FCAG35B 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	2,73	2,81	2,88	3,15	2,90	3,13

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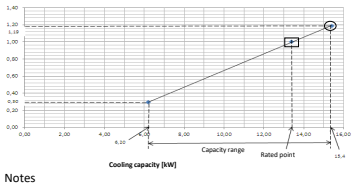
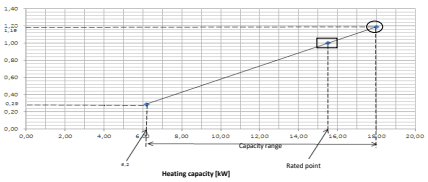
RZASG140MV1
RZASG140MY1

Cooling



Heating



Cooling

Indoor	Outdoor temperature [°C DB]											
	25			30			35			40		
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
[°C WB]	[°C DB]	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
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 DB]											
	-15		-10		-5		0		6		10	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
[°C DB]	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

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: ·0·m
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.

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

Pair	FCAG140B	FVA140A	FHA140A	FBA140A
AFR (BF)	26.0 (0.23)	30.0 (0.18)	34.0 (0.17)	34.0 (0.06)

Pair	FCAG140B	FVA140A	FHA140A	FBA140A
Cooling	4,88	5,12	4,84	4,76
Heating	4,16	4,42	3,60	3,89

Twin	FCAG71B X 2	FAA71B X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FVA71A X 2
AFR (BF)	15.3 x 2 (0.14 x 2)	18.0 x 2 (0.16 x 2)	20.5 x 2 (0.13 x 2)	23.0 x 2 (0.24 x2)	18.0 x 2 (0.13 x2)	18.0 x 2 (0.16 x2)

Twin	FCAG71B X 2	FAA71B 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	3,82	3,97	3,63	3,50	3,72	4,23

Triple	FCAG50B X 3	FHA50A X 3	FFA50A X 3	FDXM50F3 X 3	FBA50A X 3	FNA50A X 3
AFR (BF)	12.6 x 3 (0.22 x 3)	15.0 x 3 (0.18 x 3)	12.0 x 3 (0.16 x 3)	15.8 x 3 (0.11 x 3)	15.0 x 3 (0.13 x 3)	16.0 x 3 (0.11 x 3)

Triple	FCAG50B 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	3,48	3,51	3,59	3,91	3,51	3,91

Double	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F3 X 4	FBA35A X 4	FNA35A X 4
AFR (BF)	12.5 x 4 (0.4 x 4)	14.0 x 4 (0.20 x 4)	10.0 x 4 (0.25 x 4)	8.7 x 4 (0.17 x 4)	15.0 x 4 (0.08 x 4)	8.7 x 4 (0.17 x 4)

Double twin	FCAG35B 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	4,12	3,47	3,44	3,96	4,19	3,96

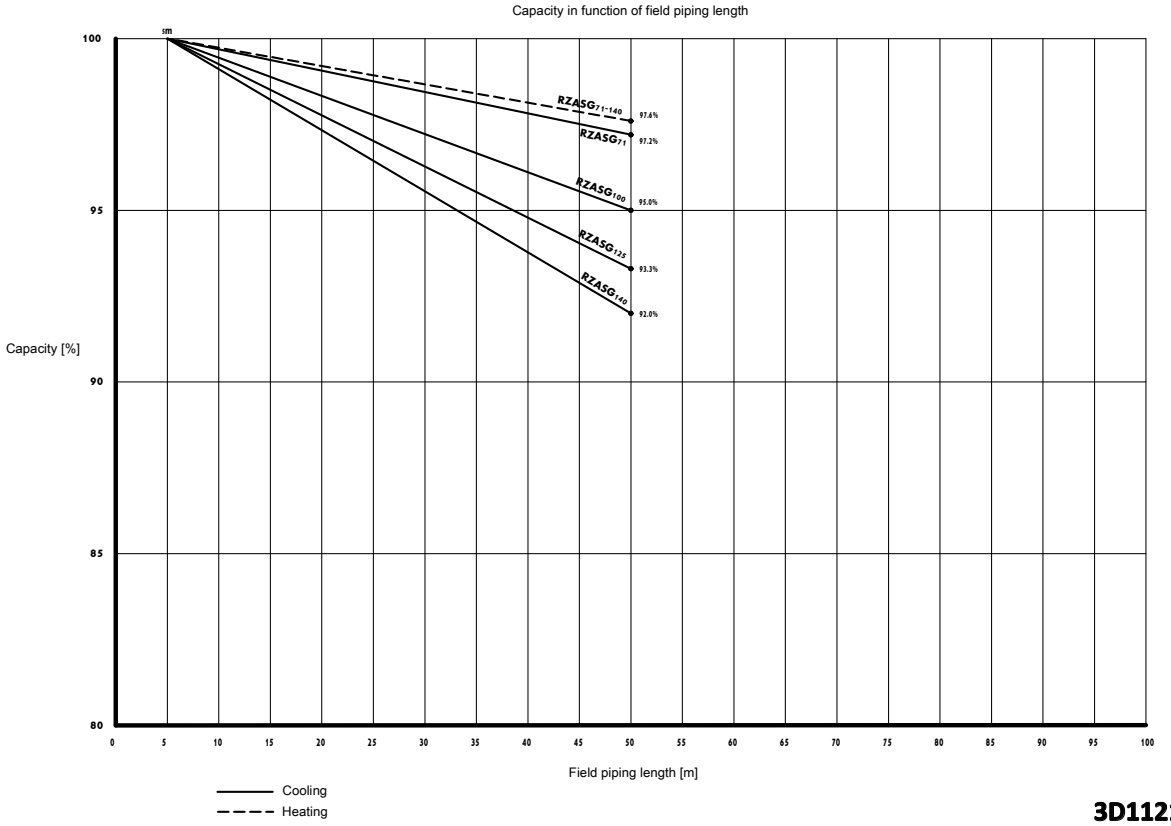
3D112147C

6 Capacity tables

6 - 2 Capacity Correction Factor

RZASG-MV1

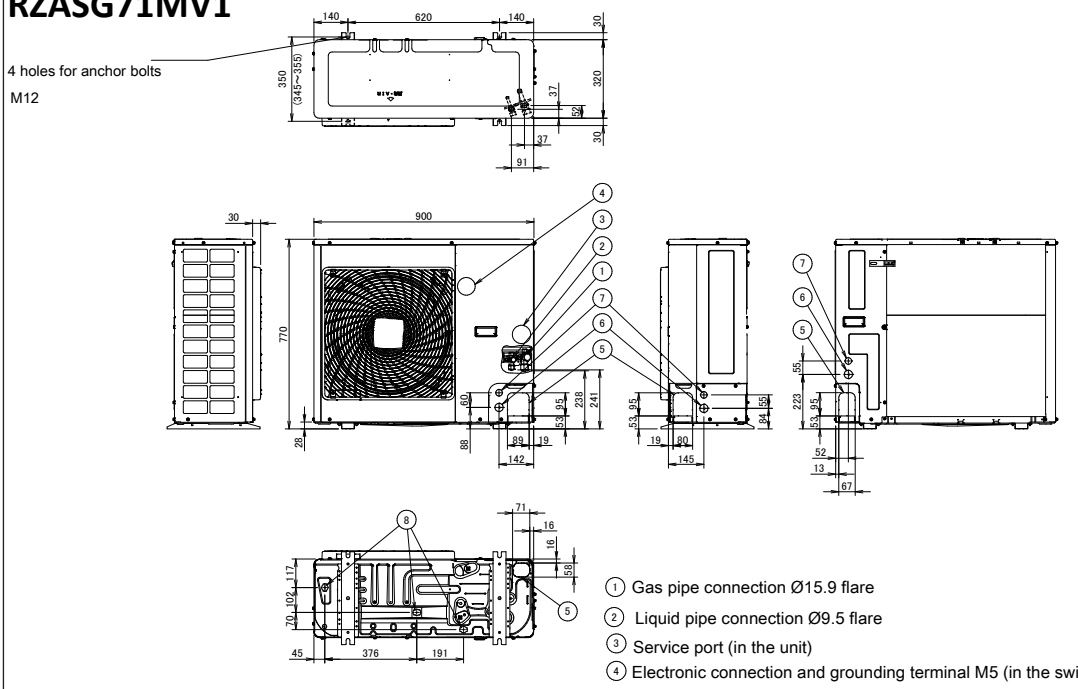
RZASG-MY1



7 Dimensional drawings

7 - 1 Dimensional Drawings

AZAS71MV1
RZASG71MV1

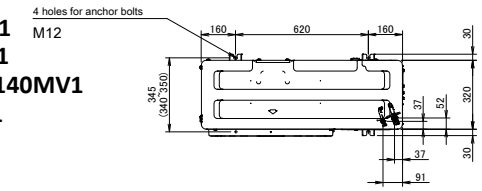


① Gas pipe connection Ø15.9 flare
② Liquid pipe connection Ø9.5 flare
③ Service port (in the unit)
④ Electronic connection and grounding terminal M5 (in the switch box)

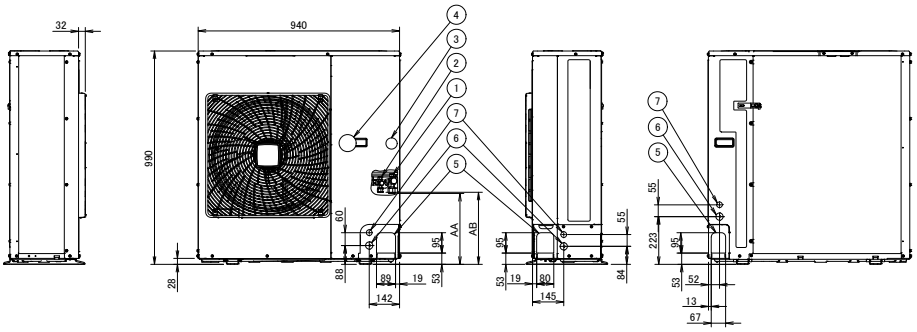
⑤ Refrigerant piping intake
⑥ Power supply wiring intake (knockout hole Ø34)
⑦ Control wiring intake (knockout hole Ø27)
⑧ Drain outlet

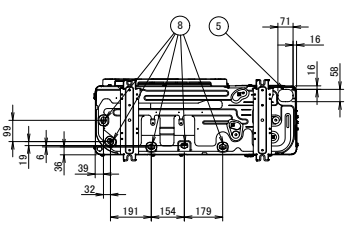
3D110013

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



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





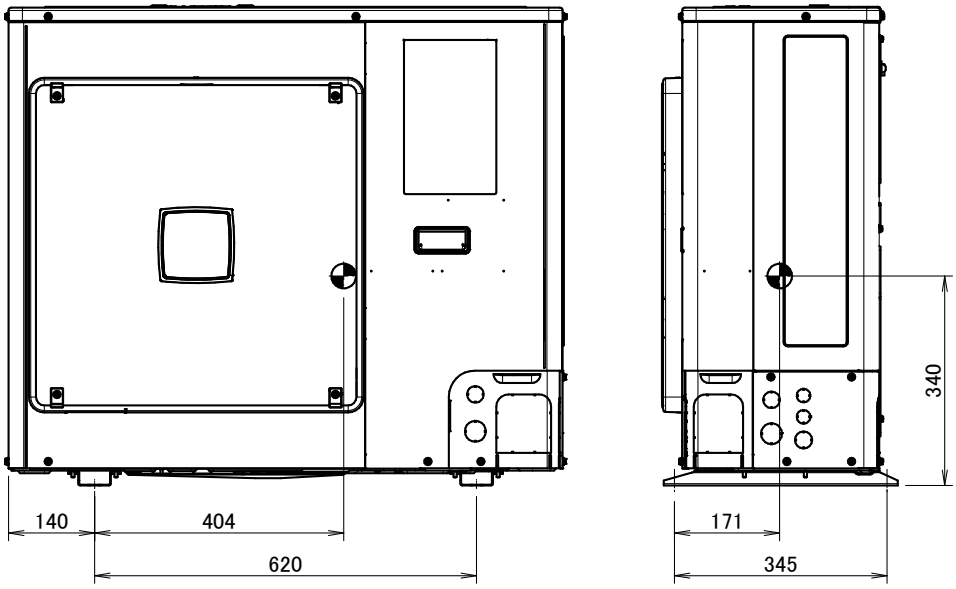
① Gas pipe connection Ø15.9 flare
② Liquid pipe connection Ø9.5 flare
③ Service port (in the unit)
④ Electronic connection and grounding terminal M5 (in the switch box)
⑤ Refrigerant piping intake
⑥ Power supply wiring intake (knockout hole Ø34)
⑦ Control wiring intake (knockout hole Ø27)
⑧ Drain outlet

3D110011

8 Centre of gravity

8 - 1 Centre of Gravity

AZAS71MV1
RZASG71MV1

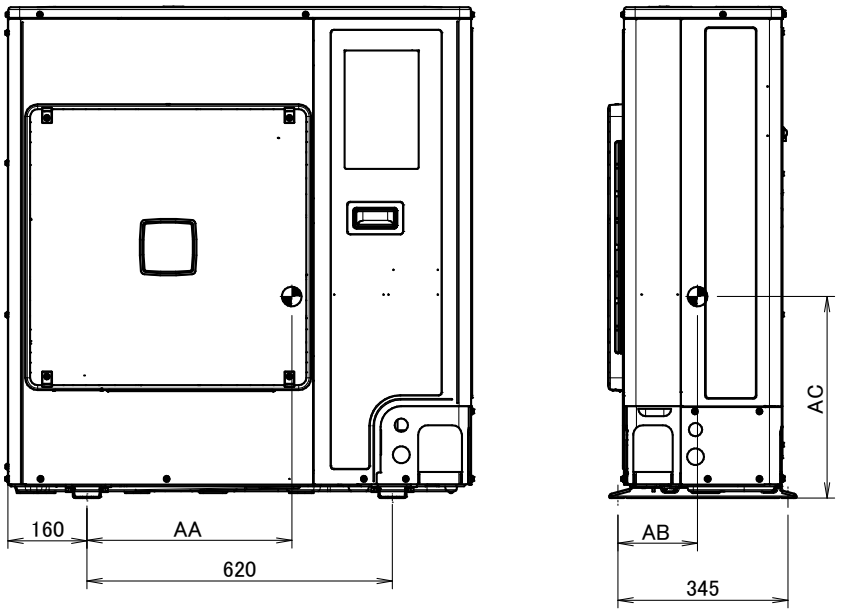


4D110027

8 Centre of gravity

8 - 1 Centre of Gravity

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



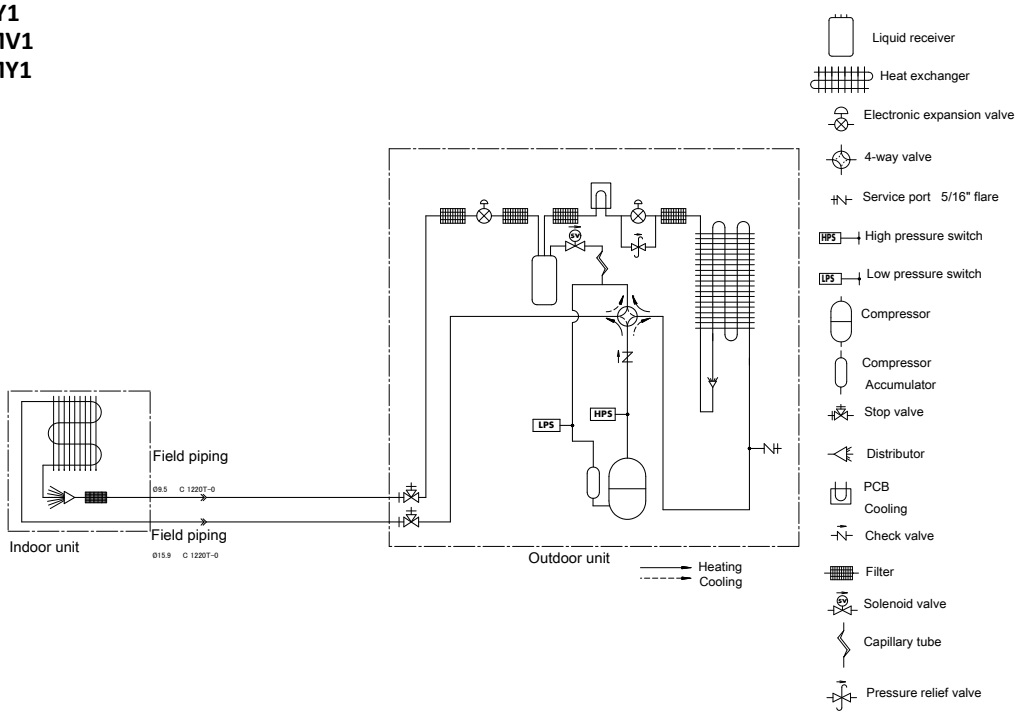
Model	AA	AB	AC
RZAG71M7V*	414	163	407
RZAG71M7Y*	432	137	407
RZASG100-125M7V* / AZAS100-125M7V*	425	181	422
RZASG100-125M7Y* / AZAS100-125M7Y*	414	156	417
RZASG140M7V* / AZAS140M7V*	414	161	423
RZASG140M7Y* / AZAS140M7Y*	416	151	418

4D110025

9 Piping diagrams

9 - 1 Piping Diagrams

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



Notes

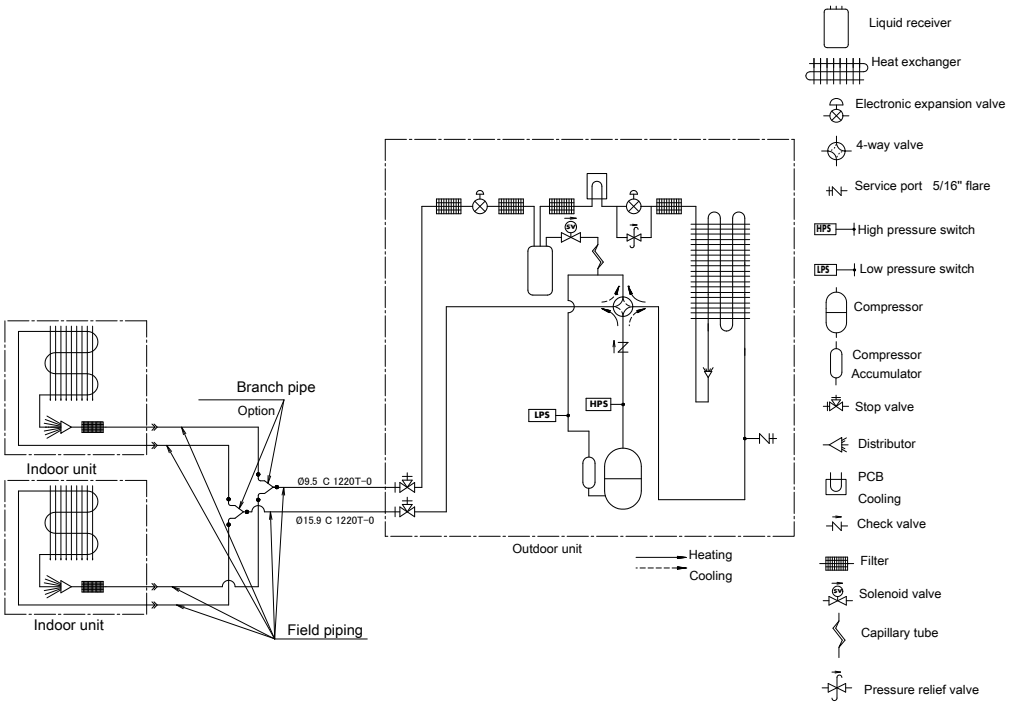
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D108855A

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

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



Notes

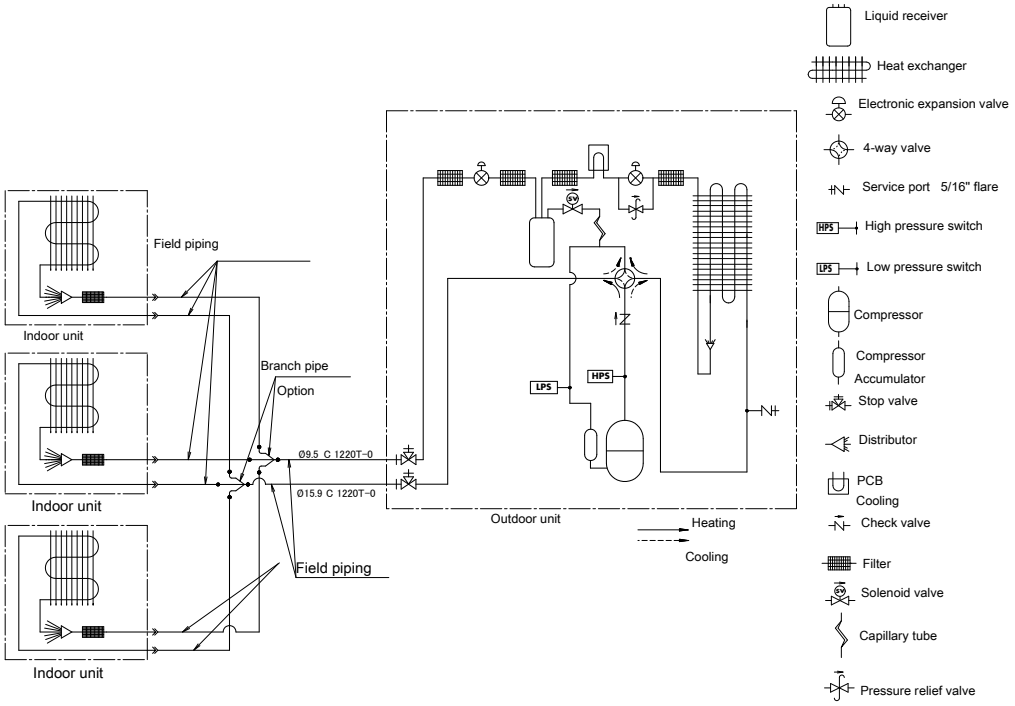
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D108856A

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

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



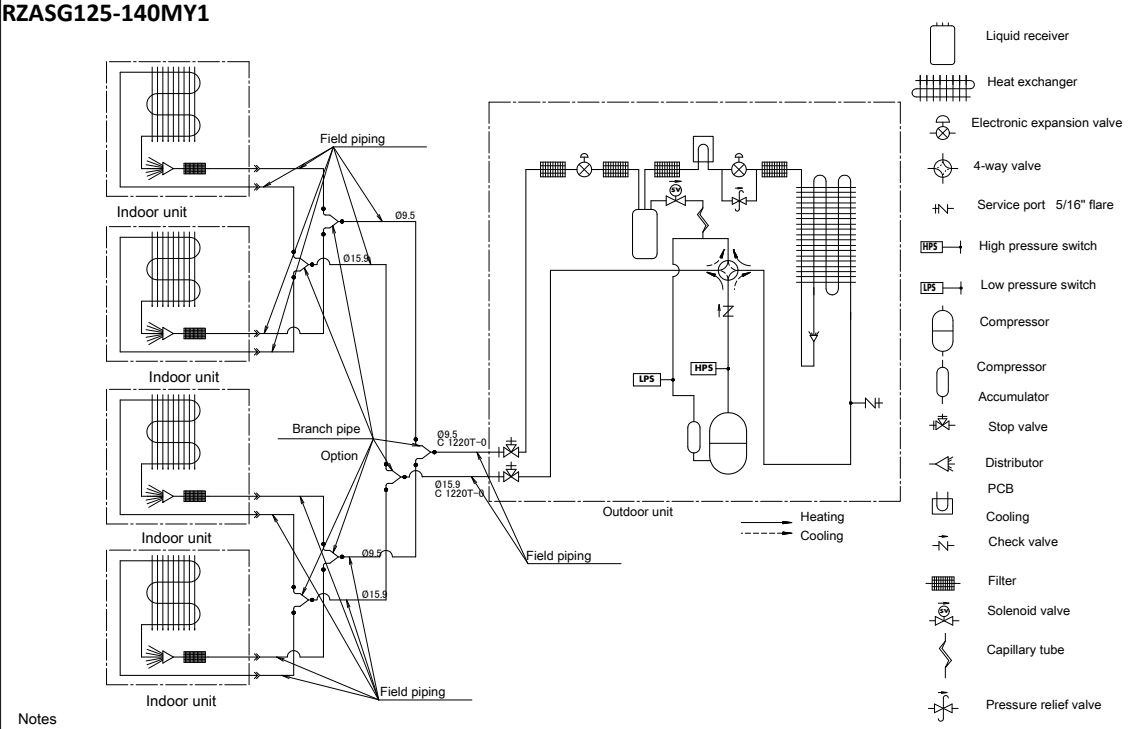
Notes
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

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.

3D108858A

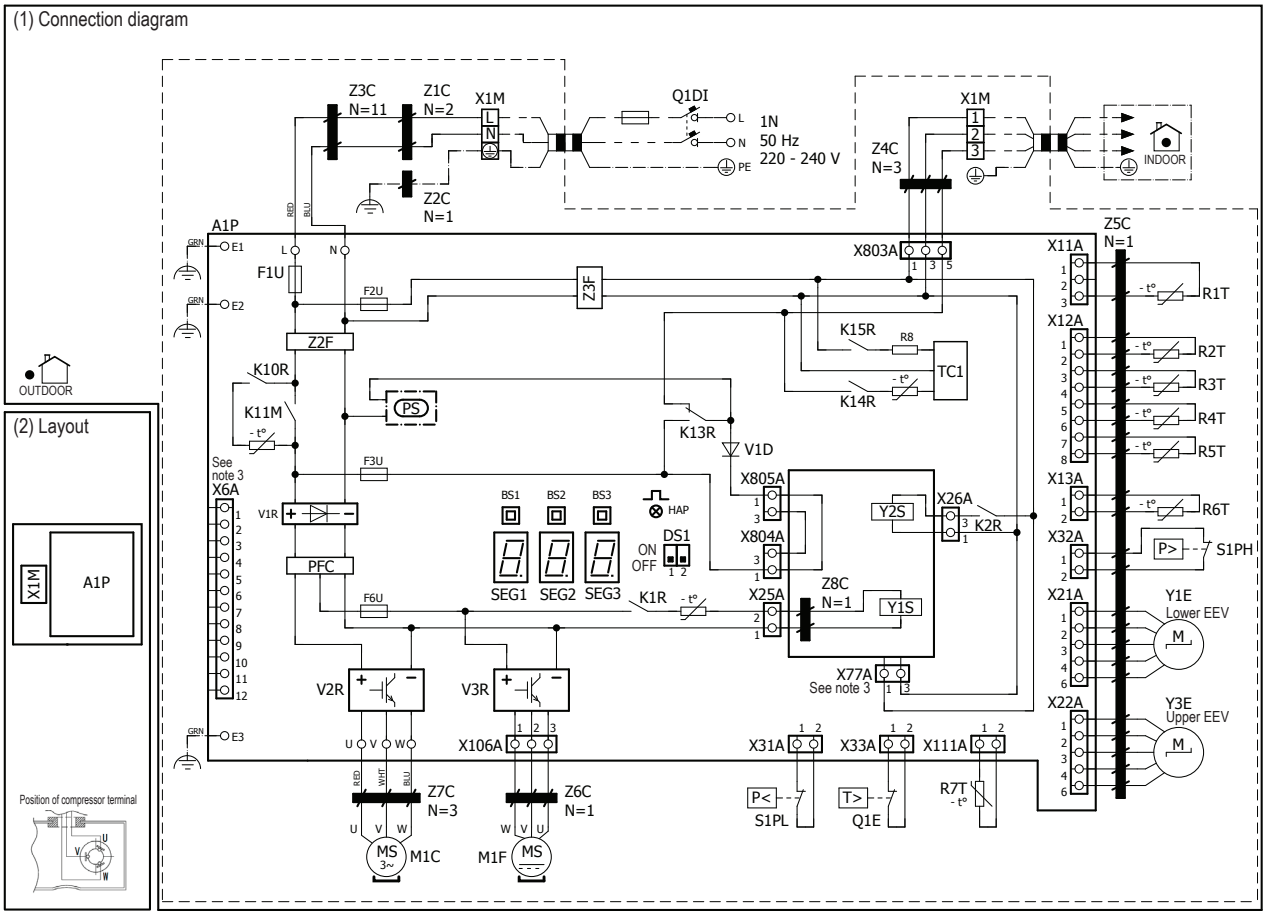
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

AZAS71MV1
RZASG71MV1

10

(1) Connection diagram



(3) NOTES

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

(4) LEGEND

Part n°		Description
A1P		Printed circuit board (main)
BS1~3 (A1P)		Push-button switch
DS1(A1P)		Dipswitch
E1~3 (A1P)		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 250V
HAP (A1P)		Light-emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K2R (A1P)		Magnetic relay (Y2S)
K13~15R, K10R (A1P)		Magnetic relay
K11M (A1P)		Magnetic contactor
L (A1P)		Connector
M1C		Compressor motor
M1F		Fan motor
N (A1P)		Connector
PFC (A1P)		Power factor correction
PS (A1P)		Switching power supply
Q1DI		Earth leakage circuit breaker (30mA)
Q1E		Overload protection

Part n°		Description
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

* : optional
# : field supply

NOTES

1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
2. When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
3. Refer to the combination table and the option manual for how to connect the wiring to X6A and X77A.
4. Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green

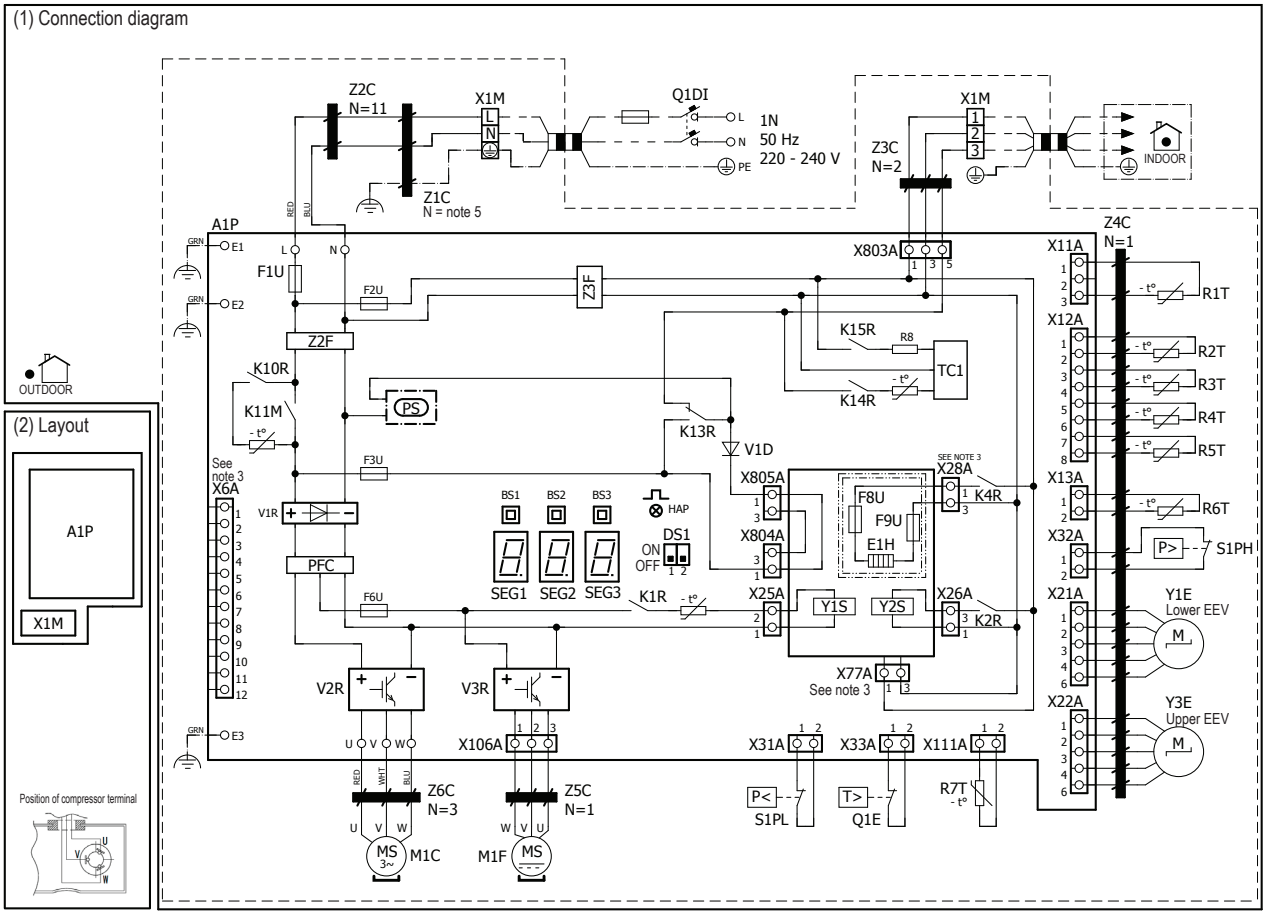
4D110098A

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

AZAS100MV1
RZAG71MV1
RZASG100MV1

(1) Connection diagram



(3) NOTES

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

(4) LEGEND

Part n°		Description
A1P		Printed circuit board (main)
BS1~3 (A1P)		Push-button switch
DS1(A1P)		Dipswitch
E1~3 (A1P)		Connector
E1H	*	Bottom plate heater
F1U (A1P)		Fuse T 31,5 A 250 V
F2U (A1P)		Fuse T 6,3 A 250 V
F3U (A1P)		Fuse T 6,3 A 250 V
F6U (A1P)		Fuse T 5 A 250V
F8~9U	*	Fuse F 1 A 250 V
HAP (A1P)		Light-emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
K2R (A1P)		Magnetic relay (Y2S)
K4R (A1P)		Magnetic relay (E1H)
K13~15R, K10R (A1P)		Magnetic relay
K11M (A1P)		Magnetic contactor
L (A1P)		Connector
M1C		Compressor motor
M1F		Fan motor
N (A1P)		Connector
PFC (A1P)		Power factor correction
PS (A1P)		Switching power supply
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

* : optional # : field supply

NOTES

1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
2. When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
3. Refer to the combination table and the option manual for how to connect the wiring to X6A, X28A and X77A.
4. Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green
5. Windings: L-N: 2 - Earth: 1

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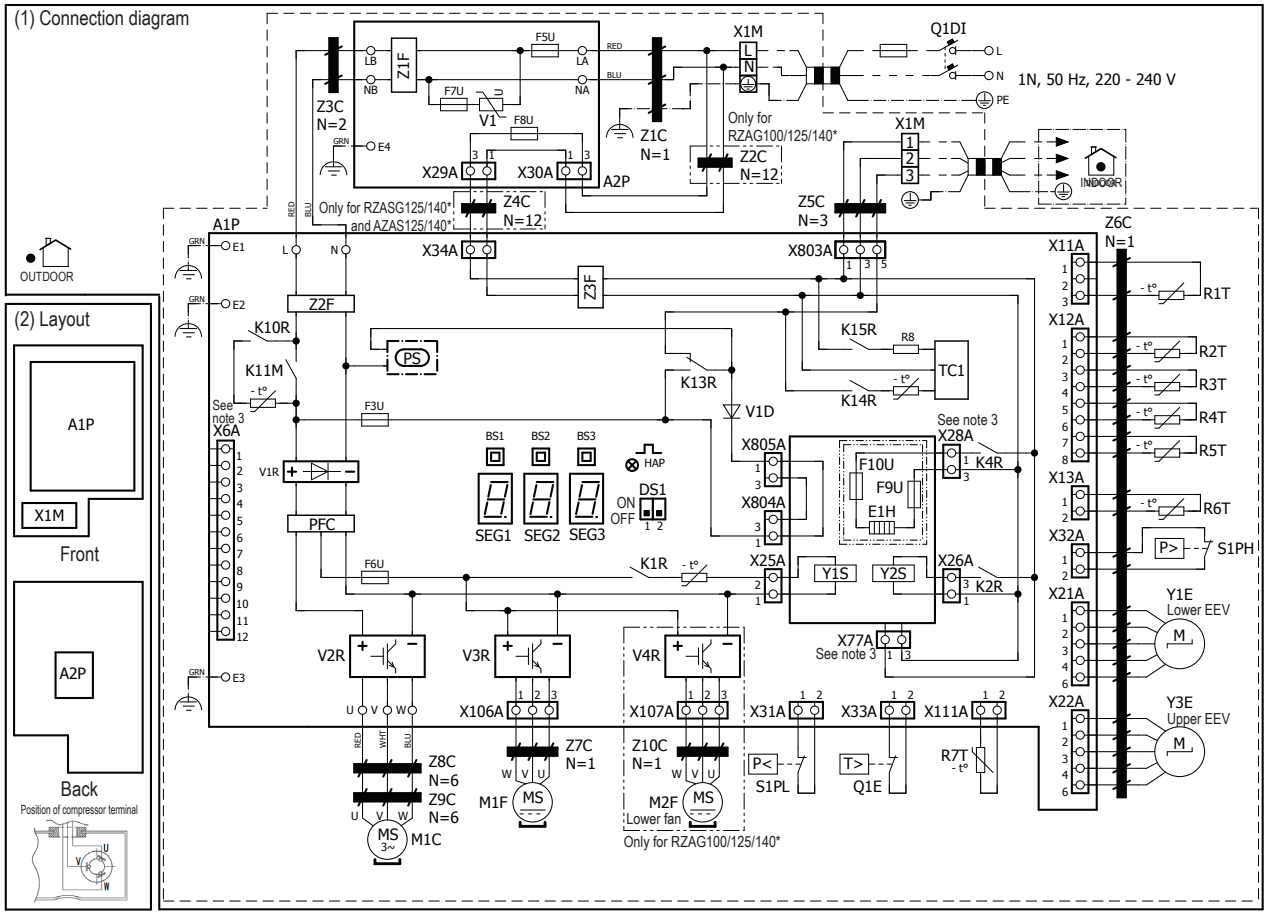
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

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



(3) NOTES

	: Connection		: Protective earth
X1M	: Main terminal		: Field wire
———	: Earth wiring		: Wiring depending on model
- - - -	: Field supply		: Option
①	: Several wiring possibilities		: switch box
			: PCB

(4) LEGEND

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 250V
F6U (A1P)		Fuse T 5 A 250V
F7U (A2P)		Fuse T 6,3 A 250 V
F8U (A2P)		Fuse T 6,3 A 250 V
F9~10U	*	Fuse F 1 A 250 V
HAP (A1P)		Light-emitting diode (service monitor is green)
K1R (A1P)		Magnetic relay (Y1S)
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

Part n°		Description
Q1DI		Earth leakage circuit breaker (30mA)
Q1E		Overload protection
R1T		Thermistor (air)
R2T		Thermistor (discharge)
R3T		Thermistor (suction)
R4T		Thermistor (heat exchanger)
R5T		Thermistor (heat exchanger middle)
R6T		Thermistor (liquid)
R7T		Thermistor (fin)
R8 (A1P)		Resistor
S1PH		High pressure switch
S1PL		Low pressure switch
SEG1~3 (A1P)		7-segment display
TC1 (A1P)		Signal transceiver circuit
U, V, W (A1P)		Connector
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

* : optional # : field supply

NOTES

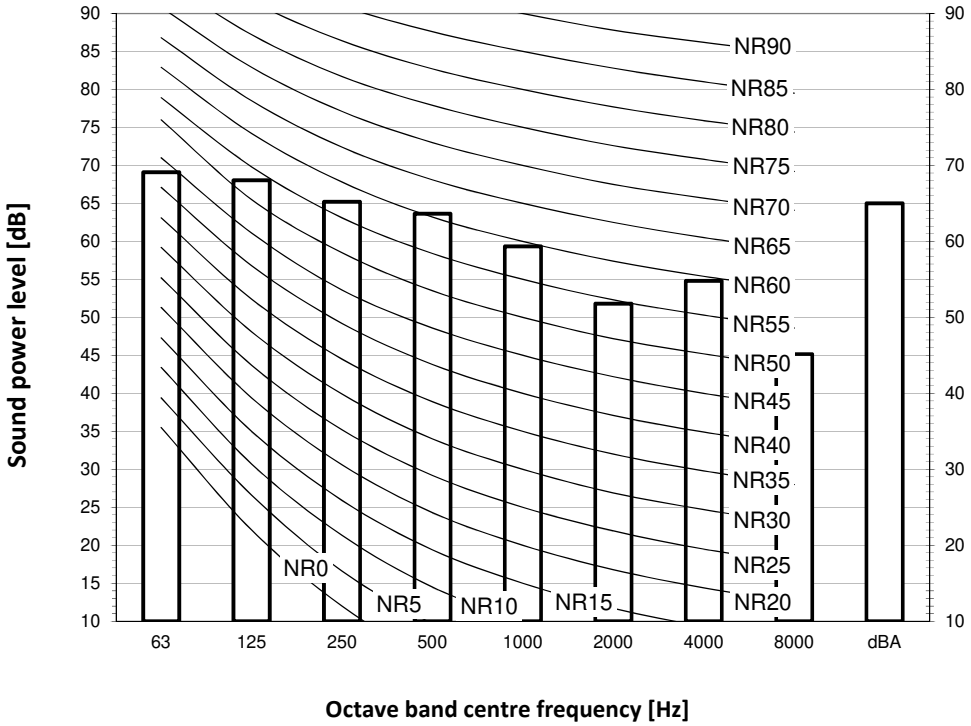
1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
2. When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
3. Refer to the combination table and the option manual for how to connect the wiring to X6A, X28A and X77A.
4. Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green

4D109863A

11 Sound data

11 - 1 Sound Power Spectrum

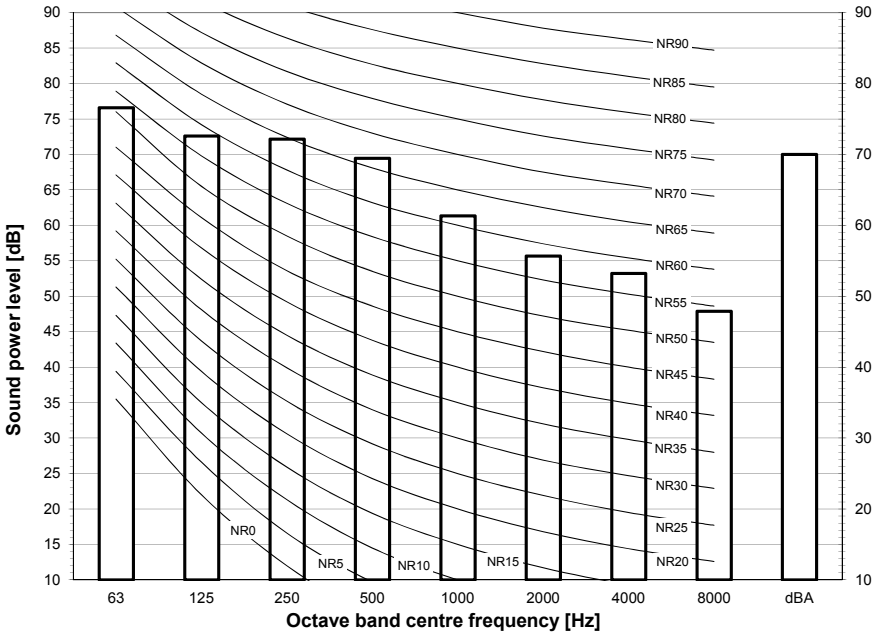
AZAS71MV1
RZASG71MV1



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

3D110037A

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1



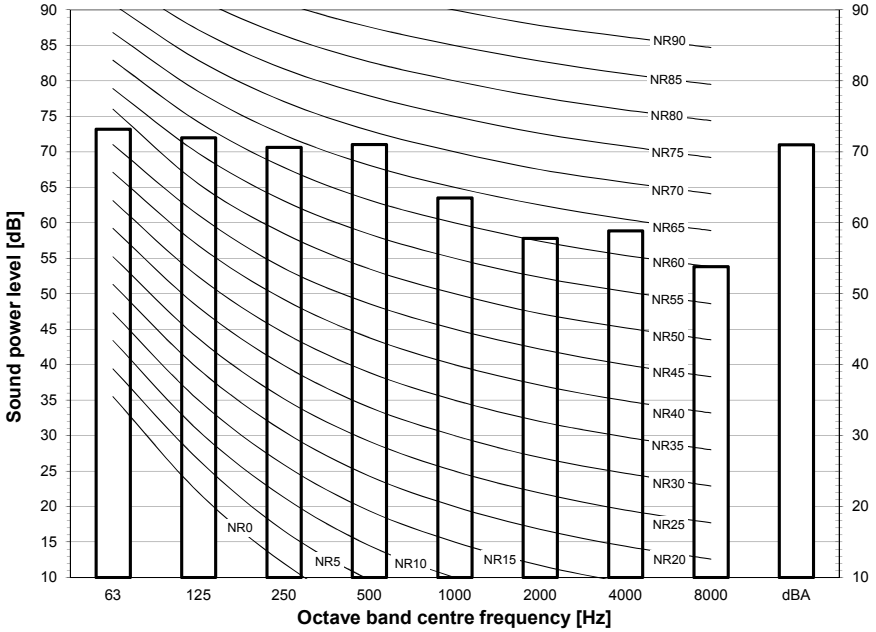
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

3D110038

11 Sound data

11 - 1 Sound Power Spectrum

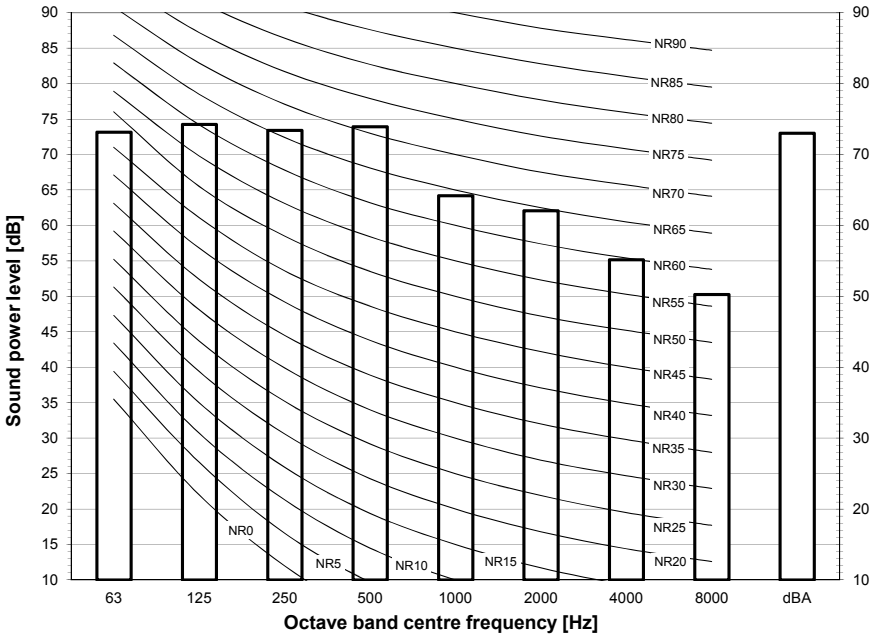
AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



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



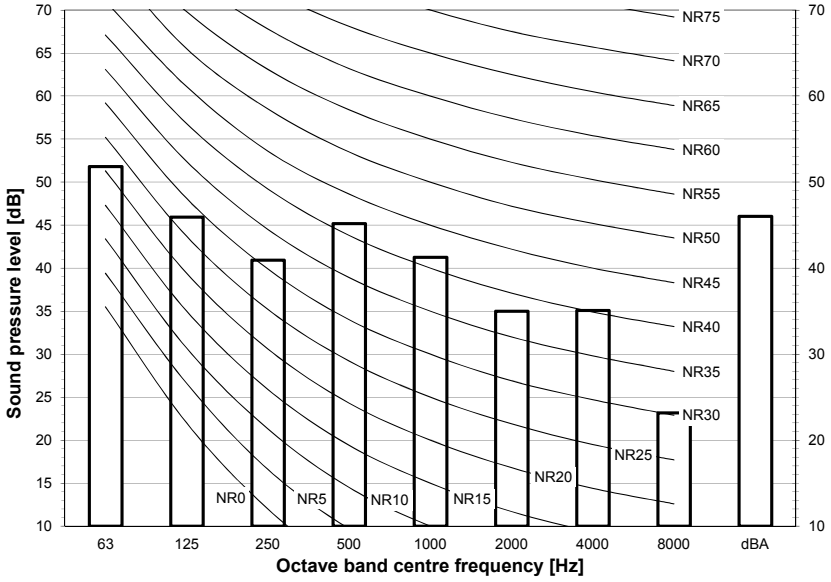
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

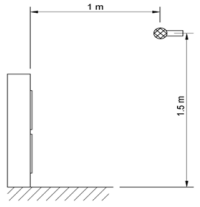
3D110040

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

AZAS71MV1
RZASG71MV1



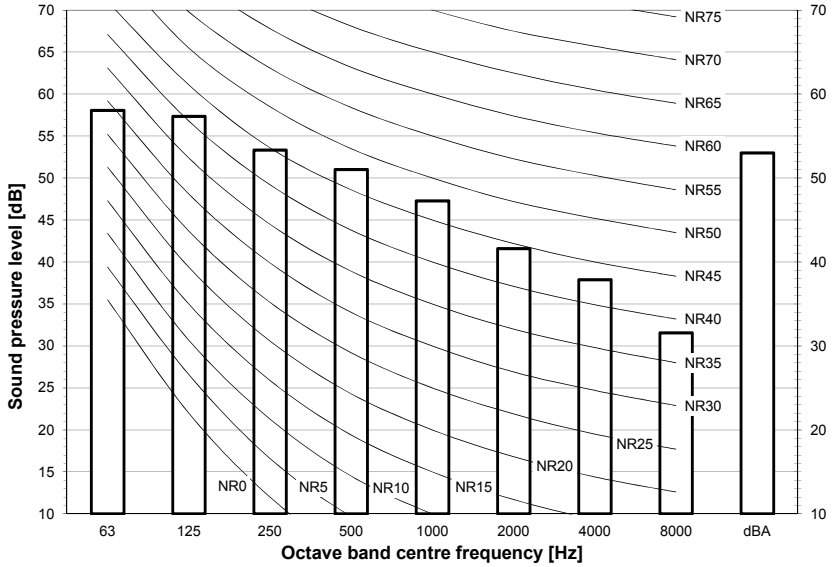


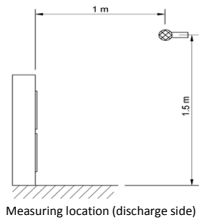
Measuring location (discharge side)

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

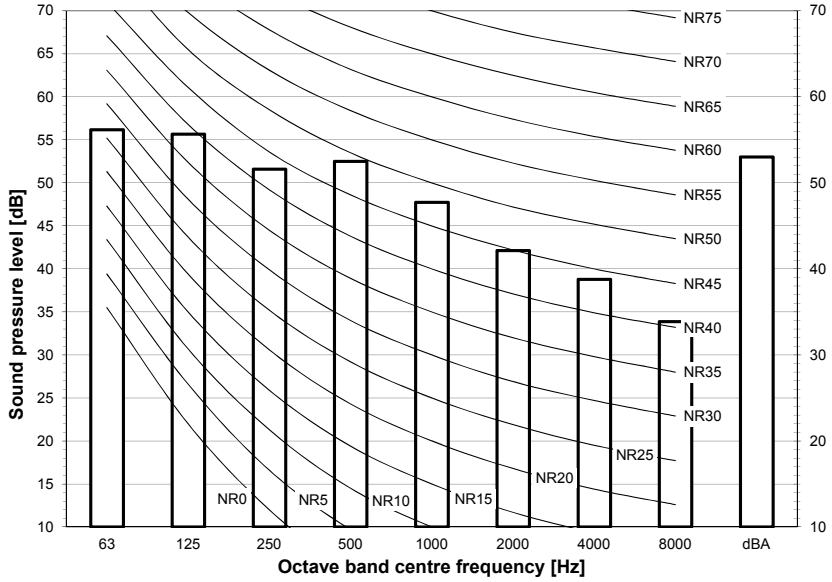
3D110050

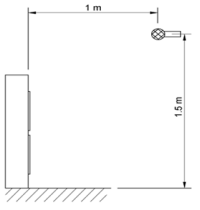
11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

11

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



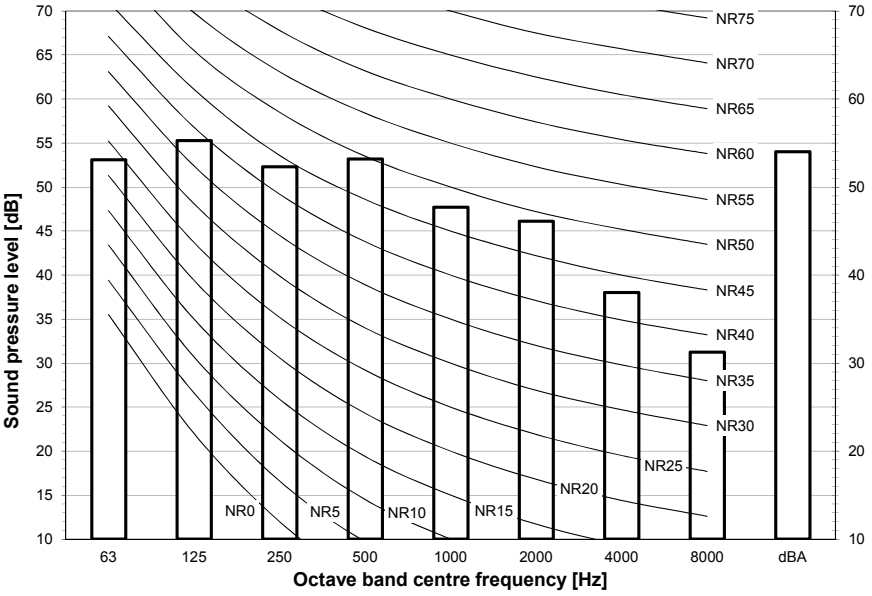


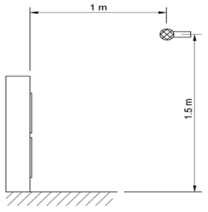
Measuring location (discharge side)

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)

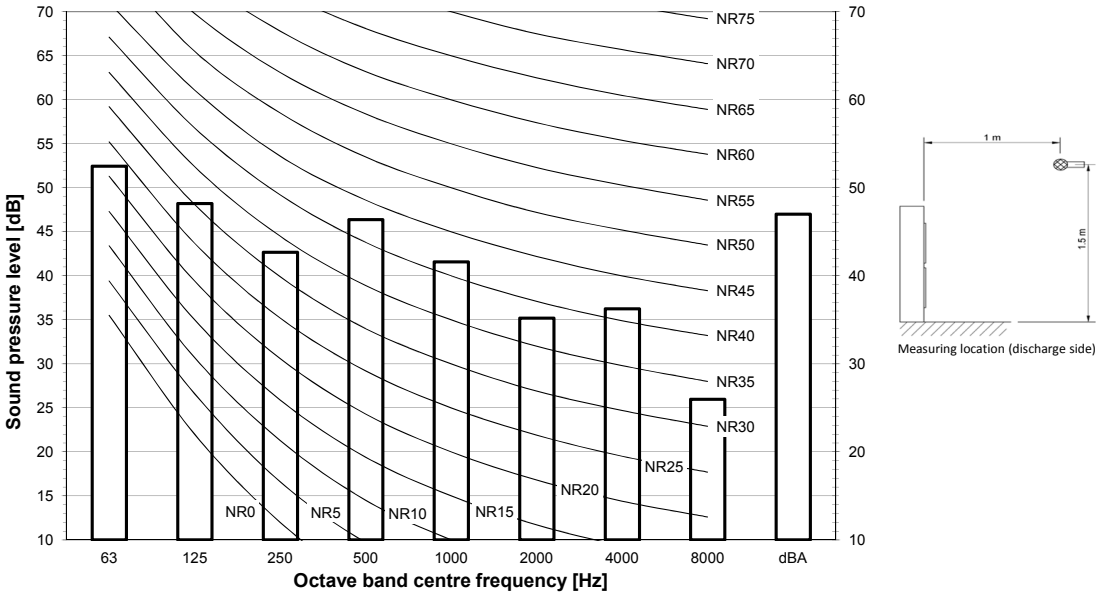
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D111310

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

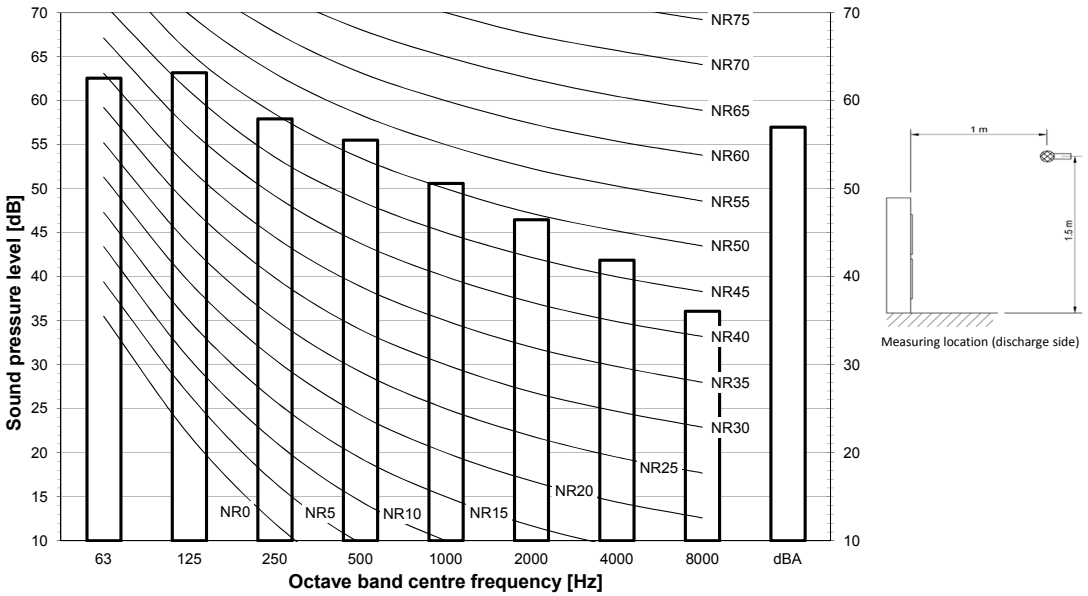
AZAS71MV1
RZASG71MV1



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



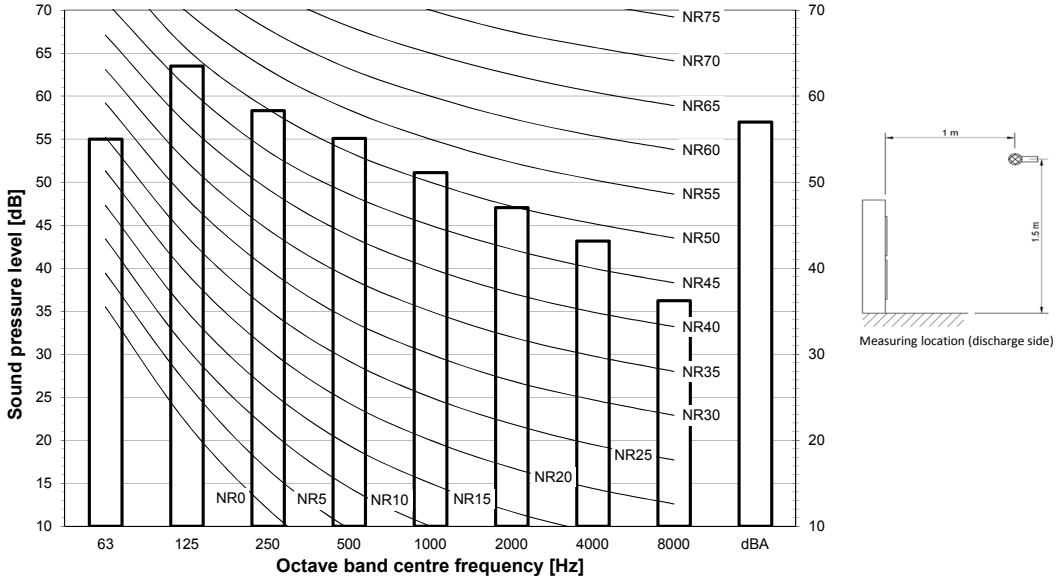
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D111294

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

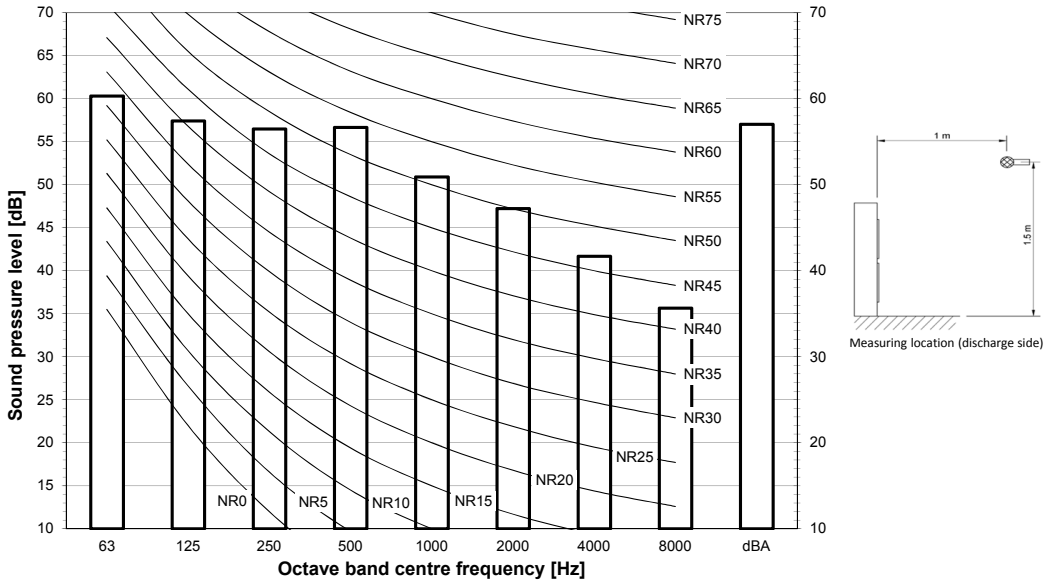
AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



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



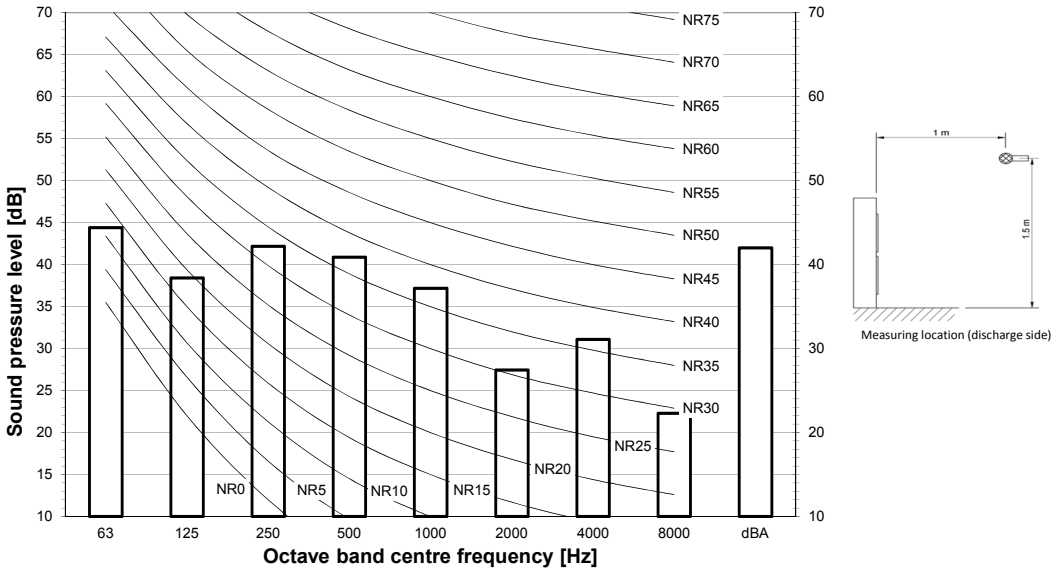
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D111296

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

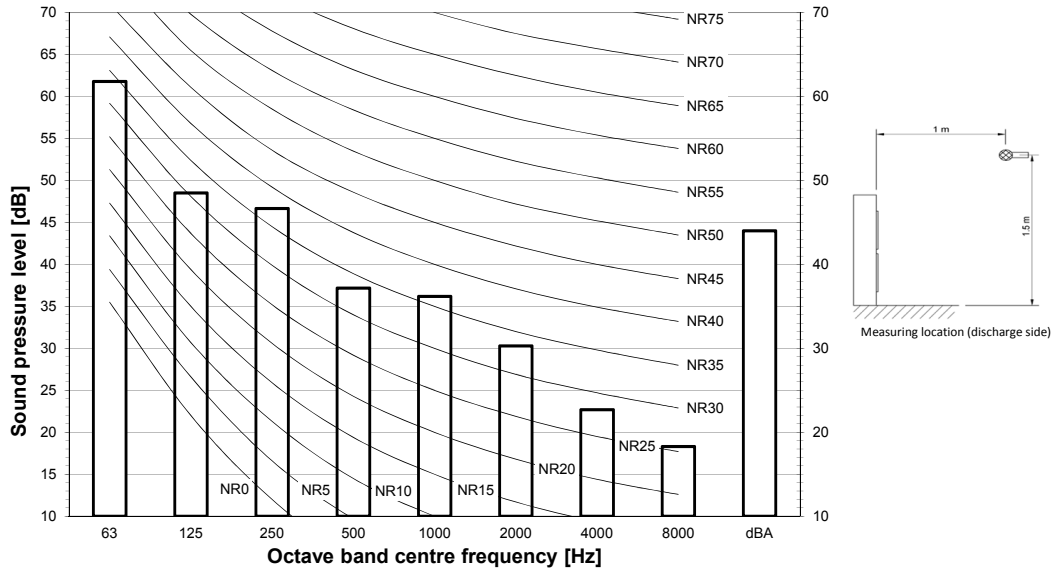
AZAS71MV1
RZASG71MV1



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



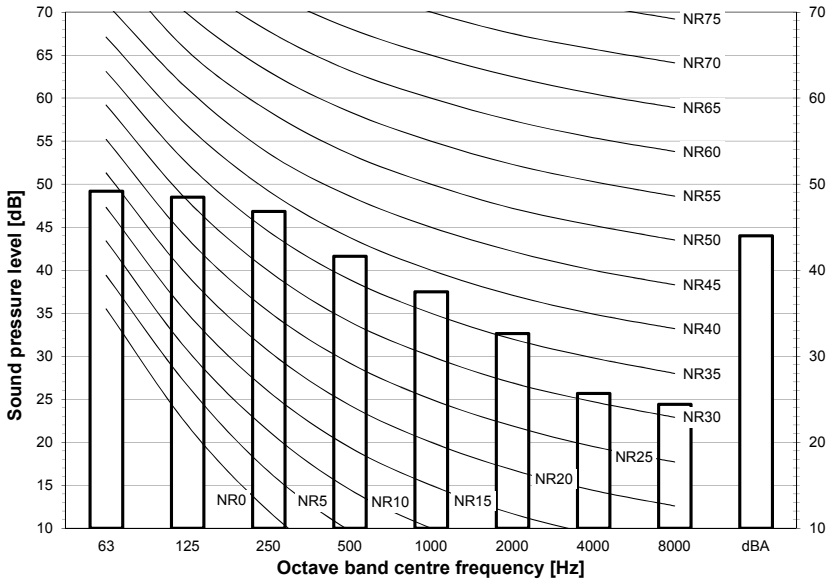
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

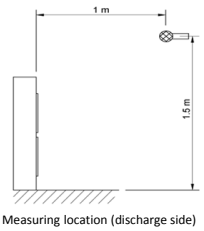
3D111316

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1

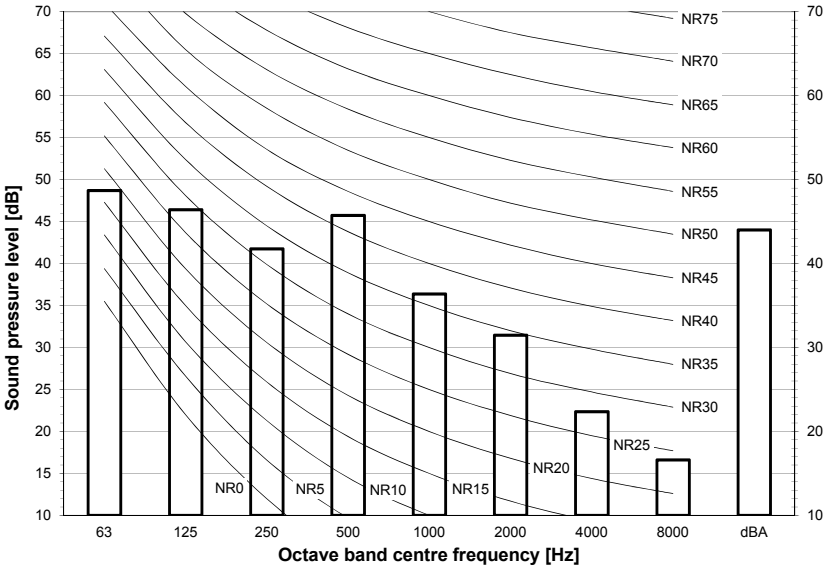


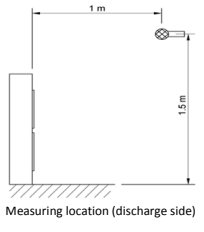


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

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

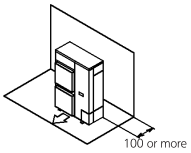
Installation service space

The measure of these values is "mm".

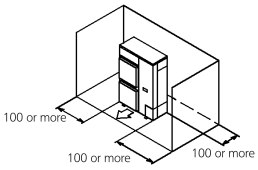
(A) When there are obstacles on suction sides.

- **No obstacle above**

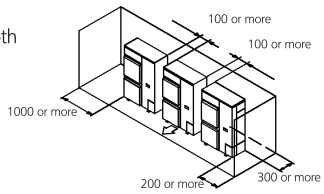
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

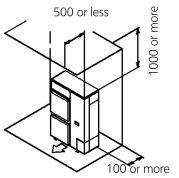


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

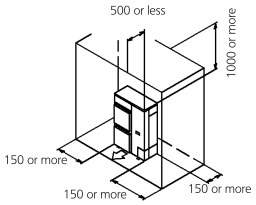


- **Obstacle above, too.**

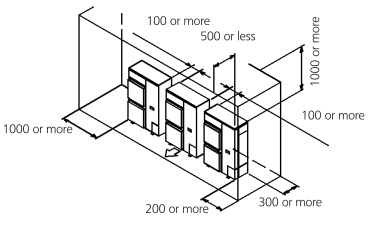
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



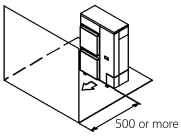
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



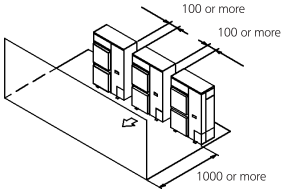
(B) When there are obstacles on discharge sides.

- **No obstacle above**

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

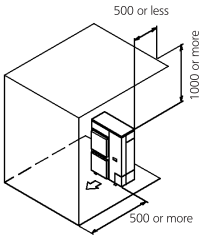


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

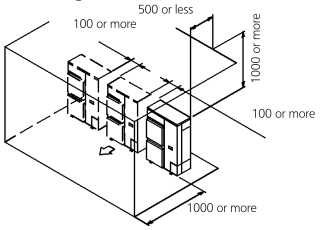


- **Obstacle above, too**

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



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



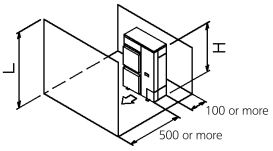
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

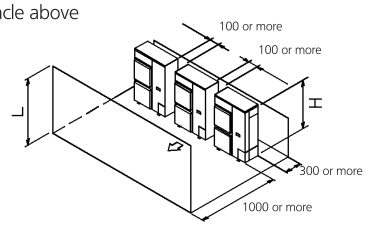
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **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

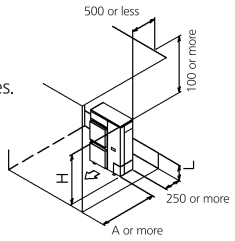
RZAG-MV1
RZAG-MY1
RZASG-MV1
RZASG-MY1
AZAS-MV1
AZAS-MY1

● 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 ≦ 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	

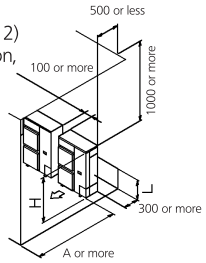


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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.

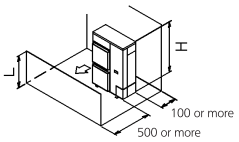


Pattern 2

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

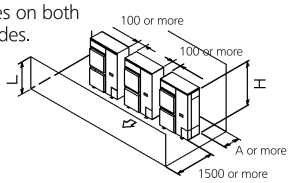
① Stand-alone installation
- No obstacle above



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

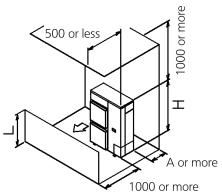


● obstacle above

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	

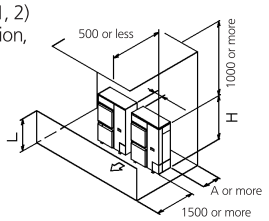


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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	

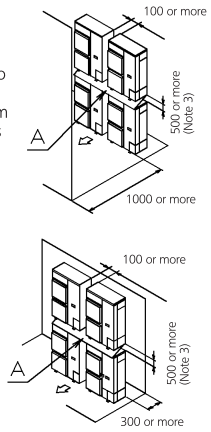
Limit of series installation is 2 units.



(D) Double-decker installation

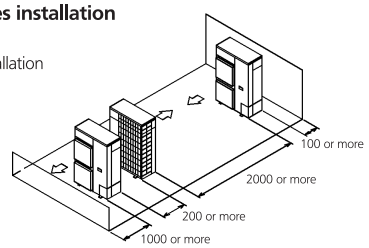
① Obstacle on the discharge side. (1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height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



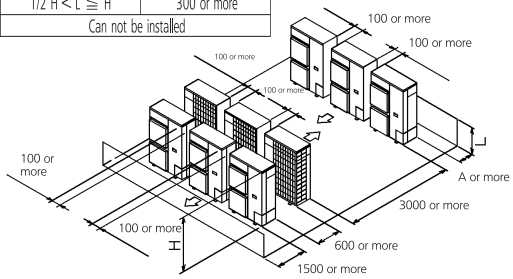
(E) Multiple rows of series installation (on the rooftop, etc.)

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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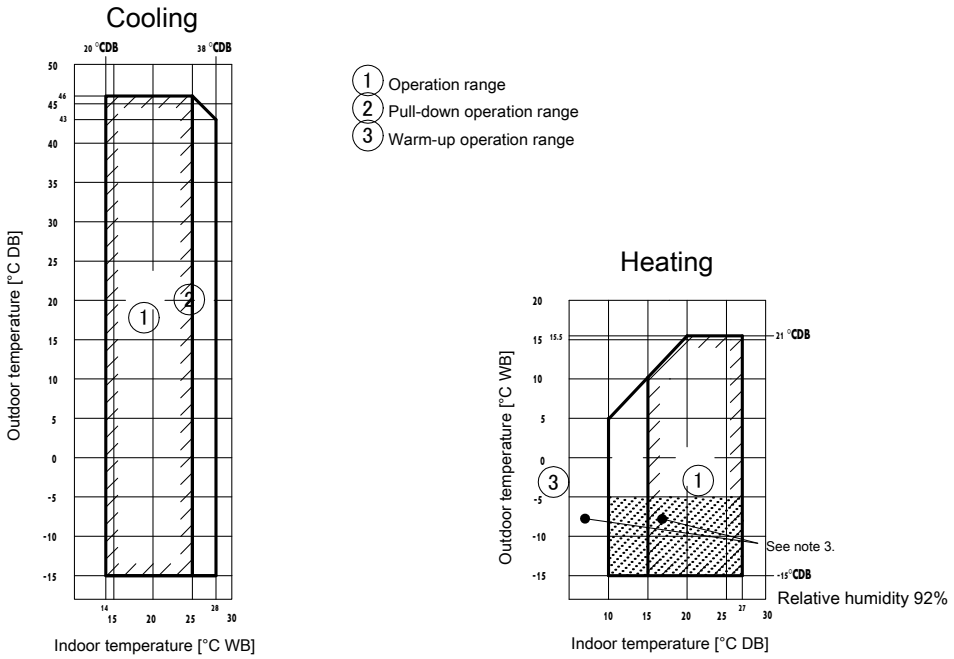
13 Operation range

13 - 1 Operation Range

RZASG-MV1
RZASG-MY1



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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14 Appropriate Indoors

14 - 1 Appropriate Indoors

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

Recommended combinations

ENER Lot 21

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

Notes
1. ·ADEA*· can only be used in combination with ·AZAS*M*V1B·

Sky Air		High Cassette				Thin cassette						2x2 cassette			Duct (medium ESP)							Concealed floor standing type			Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)
Model		FCAHG71	FCAHG100	FCAHG125	FCAHG140	FCAG35	FCAG50	FCAG60	FCAG71	FCAG100	FCAG125	FCAG140	FFA35	FFA50	FFA60	FBA35	FBA50	FBA60	FBA71	FBA100	FBA125	FBA140	FNA35	FNA50	FNA60	FUA71	FUA100	FUA125	FAA71	FAA100	FDA125
RZAG125M7V1B	RZAG125M7Y1B			P		4					P					4					P							P			P
RZAG140M7V1B	RZAG140M7Y1B				P	4						P				4						P									
RZASG125M7V1B	RZASG125M7Y1B					4					P					4					P							P			P
RZASG140M7V1B	RZASG140M7Y1B					4						P				4						P									
AZAS125M7V1B	AZAS125M7Y1B										P										P										
AZAS140M7V1B	AZAS140M7Y1B											P										P									

Sky Air		Floor standing type				Slim duct			Ceiling-suspended						Duct (medium ESP)						Floor standing type
Model		FVA71	FVA100	FVA125	FVA140	FDXM35	FDXM50	FDXM60	FHA35	FHA50	FHA60	FHA71	FHA100	FHA125	FHA140	ADEA35	ADEA50	ADEA60	ADEA71	ADEA100	ADEA125	AVA125
RZAG125M7V1B	RZAG125M7Y1B			P										P								
RZAG140M7V1B	RZAG140M7Y1B				P										P							
RZASG125M7V1B	RZASG125M7Y1B			P										P								
RZASG140M7V1B	RZASG140M7Y1B				P										P							
AZAS125M7V1B	AZAS125M7Y1B																				P	P
AZAS140M7V1B	AZAS140M7Y1B																					

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

ENER Lot 21
Appropriate indoor units

Connectable to ·RZAG125M7V1B / RZAG125M7Y1B· and covered by ·ENER Lot 21·

FCAHG125	FCAG35	FFA35	FBA35	FNA35	FUA125	-	FDA125	FVA125	FDXM35	FHA35	-	-
-	FCAG50	FFA50	FBA50	FNA50	-	-	-	-	FDXM50	FHA50	-	-
-	FCAG60	FFA60	FBA60	FNA60	-	-	-	-	FDXM60	FHA60	-	-
-	FCAG125	-	FBA125	-	-	-	-	-	-	FHA125	-	-

Connectable to ·RZASG125M7V1B / RZASG125M7Y1B· and covered by ·ENER Lot 21·

-	FCAG35	FFA35	FBA35	FNA35	FUA125	-	FDA125	FVA125	FDXM35	FHA35	-	-
-	FCAG50	FFA50	FBA50	FNA50	-	-	-	-	FDXM50	FHA50	-	-
-	FCAG60	FFA60	FBA60	FNA60	-	-	-	-	FDXM60	FHA60	-	-
-	FCAG125	-	FBA125	-	-	-	-	-	-	FHA125	-	-

Connectable to ·AZAS125M7V1B / AZAS125M7Y1B· and covered by ·ENER Lot 21·

-	FCAG125	-	FBA125	-	-	-	-	-	-	-	AVA125	ADEA125

Connectable to ·RZAG140M7V1B / RZAG140M7Y1B· and covered by ·ENER Lot 21·

FCAHG71	FCAG35	FFA35	FBA35	FNA35	FUA71	FAA71	-	FVA71	FDXM35	FHA35	-	-
FCAHG140	FCAG50	FFA50	FBA50	FNA50	-	-	-	FVA140	FDXM50	FHA50	-	-
-	FCAG71	-	FBA71	-	-	-	-	-	-	FHA71	-	-
-	FCAG140	-	FBA140	-	-	-	-	-	-	FHA140	-	-

Connectable to ·RZASG140M7V1B / RZASG140M7Y1B· and covered by ·ENER Lot 21·

-	FCAG35	FFA35	FBA35	FNA35	FUA71	FAA71	-	FVA71	FDXM35	FHA35	-	-
-	FCAG50	FFA50	FBA50	FNA50	-	-	-	FVA140	FDXM50	FHA50	-	-
-	FCAG71	-	FBA71	-	-	-	-	-	-	FHA71	-	-
-	FCAG140	-	FBA140	-	-	-	-	-	-	FHA140	-	-

Connectable to ·AZAS140M7V1B / AZAS140M7Y1B· and covered by ·ENER Lot 21·

-	FCAG140	-	FBA140	-	-	-	-	-	-	-	-	-

ENER Lot 10
Appropriate indoor units

Connectable to ·RZAG71M7V1B / RZAG71M7Y1B· and covered by ·ENER Lot 10·

FCAHG71	FCAG35	FFA35	FBA35	FNA35	FUA71	FAA71	-	FVA71	FDXM35	FHA35	-	-
-	FCAG71	-	FBA71	-	-	-	-	-	-	FHA71	-	-

Connectable to ·RZASG71M2V1B· and covered by ·ENER Lot 10·

-	FCAG35	FFA35	FBA35	FNA35	FUA71	FAA71	-	FVA71	FDXM35	FHA35	-	-
-	FCAG71	-	FBA71	-	-	-	-	-	-	FHA71	-	-

Connectable to ·AZAS71M2V1B· and covered by ·ENER Lot 10·

-	FCAG71	-	FBA71	-	-	FAA71	-	-	-	-	-	ADEA71

Connectable to ·RZAG100M7V1B / RZAG100M7Y1B· and covered by ·ENER Lot 10·

FCAHG100	FCAG35	FFA35	FBA35	FNA35	FUA100	FAA100	-	FVA100	FDXM35	FHA35	-	-
-	FCAG50	FFA50	FBA50	FNA50	-	-	-	-	FDXM50	FHA50	-	-
-	FCAG100	-	FBA100	-	-	-	-	-	-	FHA100	-	-

Connectable to ·RZASG100M7V1B / RZASG100M7Y1B· and covered by ·ENER Lot 10·

-	FCAG35	FFA35	FBA35	FNA35	FUA100	FAA100	-	FVA100	FDXM35	FHA35	-	-
-	FCAG50	FFA50	FBA50	FNA50	-	-	-	-	FDXM50	FHA50	-	-
-	FCAG100	-	FBA100	-	-	-	-	-	-	FHA100	-	-

Connectable to ·AZAS100M7V1B / AZAS100M7Y1B· and covered by ·ENER Lot 10·

-	FCAG100	-	FBA100	-	-	FAA100	-	-	-	-	-	ADEA100

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