



Sky Air Advance-series RZASG-MY1



TABLE OF CONTENTS

RZASG-MY1

1	Features	4
	RZASG-MY1	4
2	Specifications	5
3	Electrical data	14
4	Options	15
5	Combination table	16
6	Capacity tables	17
	Cooling/Heating Capacity Tables	17
	Capacity Correction Factor	19
7	Dimensional drawings	20
8	Centre of gravity	21
9	Piping diagrams	22
	Piping Diagram Twin Application	23
	Piping Diagram Triple Application	24
	Piping Diagram Double Twin Application	25
10	Wiring diagrams	26
	Wiring Diagrams - Three Phase	26
11	Sound data	27
	Sound Power Spectrum	27
	Sound Pressure Spectrum - Cooling	29
	Sound Pressure Spectrum - Heating	31
	Sound Pressure Spectrum Quiet Mode	33
12	Installation	35
	Installation Method	35
13	Operation range	37
14	Appropriate Indoors	38

1 Features

1 - 1 RZASG-MY1

Technology and comfort combined for commercial applications

1

- › High efficiency: - Energy labels up to A++ (cooling) / A+ (heating) - compressor offers substantial efficiency improvements
- › Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a lower refrigerant charge
- › Very compact and easy to install
- › Replace existing systems with R-32 technology without needing to replace the piping
- › Guarantees operation in both heating and cooling mode down to -15°C
- › Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- › Maximum piping length up to 50m, minimum piping length has no limitation
- › Outdoor units for pair, twin, triple, double twin application



Inverter


Seasonal efficiency -
Smart use of energy


Swing compressor


Replacement technology
(optional)

Auto cooling-heating
changeover
(5 steps + auto)

Night quiet mode
(optional)

Twin/triple/
double twin
application

2 Specifications

2 - 1 Specifications

Technical Specifications					RZASG100MY1	RZASG125MY1	RZASG140MY1	
Casing	Colour				Ivory white			
	Material				Painted galvanized steel plate			
Dimensions	Unit	Height	mm		990			
		Width	mm		940			
		Depth	mm		320			
	Packed unit	Height	mm		1,170			
		Width	mm		1,015			
		Depth	mm		422			
Weight	Unit	kg		70		77		
	Packed unit	kg		78		85		
Packing	Weight	kg		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.	m³/min	69	71	76	
		Heating	Nom.	m³/min	82			
			Partial	m³/min	-	55 (1)		
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Output				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	70	71	73
Heating				dBA	-	71 (1)	73 (1)	
Sound pressure level	Cooling	Nom.	dBA		53	54		
	Heating	Nom.	dBA		57			
Refrigerant	Type				R-32			
	Charge	kg		2.60		2.90		
	Control				Expansion valve (electronic type)			
Refrigerant	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				
	Gas	Quantity		9.52				
		Type		1				
		OD		mm				
	Drain	Type		Flare connection				
		Quantity		15.9				
		Type		5				
	Piping length	OD		mm				
		OU - IU	Min.	m	26			
			Max.	m	5			
		System	Equivalent	m	50			
			Chargeless	m	70			
	Additional refrigerant charge				kg/m			
	Level difference				IU - OU	Max.	m	30.0
					IU - IU	Max.	m	0.5
Heat insulation				Both liquid and gas pipes				
Defrost method					Reversed cycle			
Defrost control					Sensor for outdoor heat exchanger temperature			
Capacity control	Method				Inverter controlled			
PED	Category				Category II			
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: Installation manual;Quantity: 1;

Standard accessories: Refrigerant label for F-gas regulation;Quantity: 1;

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: LOT10 Energy Label;Quantity: 1;

Standard accessories: Tie-wraps;Quantity: 2;

2 Specifications

2 - 1 Specifications

2

Electrical Specifications				RZASG100MY1	RZASG125MY1	RZASG140MY1
Power supply	Name				Y1	
	Phase				3~	
	Frequency		Hz		50	
	Voltage		V		380-415	
	Voltage range	V	V		342	
Current	Zmax	List			457	
	Minimum Ssc value		kVa		Complies to EN61000-3-11	
					Equipment complying with EN / IEC 61000-3-2/ See note 3 / See note 4	
Wiring connections	For power supply	Remark			See installation manual outdoor unit	
	For connection with indoor	Remark			See installation manual outdoor unit	
Power supply intake					See installation manual outdoor unit	
Current - 50Hz	Maximum fuse amps (MFA)		A		16	

(1)According to ENER Lot 21 |

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				FCAG100B + RZASG100MY1	FCAG125B + RZASG125MY1	FCAG140B + RZASG140MY1
Cooling capacity	Nom.		kW	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++	-	-
	Capacity	Pdesign	kW	9.50	12.1	13.4
	SEER			6.55	5.76	6.53
	ηs,c		%	-	227	258
	Annual energy consumption		kWh/a	507	1,261	1,231
Space heating (Average climate)	Energy efficiency class			A+	-	-
	Capacity	Pdesign	kW	6.00		7.80
	SCOP/A			4.17	4.05	4.31
	SCOPnet/A			4.17	4.05	4.31
	ηs,h		%	-	159	169
	Annual energy consumption		kWh/a	2,016	2,074	2,534
	Required back up heating cap at design conditions		kW		0.00	
Space cooling	A Condition	Pdc	kW	9.50	12.10	13.40
	(35°C - 27/19)	EERd		3.26	2.44	2.75
		Power input	kW	2.92	4.95	4.88
	B Condition	Pdc	kW	7.00	8.92	9.88
	(30°C - 27/19)	EERd		5.49	4.30	4.88
		Power input	kW	1.28	2.07	2.03
	C Condition	Pdc	kW	4.50	5.74	6.35
	(25°C - 27/19)	EERd		7.77	6.74	7.69
		Power input	kW	0.58	0.85	0.83
	D Condition	Pdc	kW	3.11	3.18	3.74
	(20°C - 27/19)	EERd		11.16	10.49	12.01
		Power input	kW	0.28	0.30	0.31
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C		-10	
	TBivalent	Tbiv (bivalent temperature)	°C		-10	
		Pdh (declared heating cap)	kW	6.00		7.80
		COPd (declared COP)		2.52	2.59	2.26
		Power input	kW	2.38	2.32	3.44
	A Condition	Pdh (declared heating cap)	kW	5.31	5.30	6.90
	(-7°C)	COPd (declared COP)		2.75	2.78	2.60
		Power input	kW	1.93	1.91	2.65
	B Condition	Pdh (declared heating cap)	kW	3.23		4.20
	(2°C)	COPd (declared COP)		3.97	3.88	4.32
Space heating (Average climate)	B Condition	Power input	kW	0.81	0.83	0.97
	(2°C)					
	C Condition	Pdh (declared heating cap)	kW	2.10	2.13	3.40
	(7°C)	COPd (declared COP)		5.58	5.20	5.92
		Power input	kW	0.38	0.41	0.57
	D Condition	Pdh (declared heating cap)	kW	2.50	2.55	3.99
	(12°C)	COPd (declared COP)		6.95	6.66	7.26
		Power input	kW	0.36	0.38	0.55
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	Heating	PSB	kW	0.012	
		Cooling	PSB	kW	0.012	
	Thermo-stat-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

2 - 1 Specifications

Technical specifications					FCAG100B + RZASG100MY1	FCAG125B + RZASG125MY1	FCAG140B + RZASG140MY1
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	
Space heating (Average climate) - Low sound mode (Stb. 2020, 189)	B Condition (2°C) - SCOPnet/A	COPd (declared COP)				---	
	SCOPnet/A					-	
	C Condition (7°C) - SCOPnet/A	Pdh (declared heating cap)				---	

(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					FBA100A + RZASG100MY1	FBA125A + RZASG125MY1	FBA140A + RZASG140MY1
Cooling capacity	Nom.			kW	9.5	12.1	13.4
Heating capacity	Nom.			kW	10.8	13.5	15.5
Space cooling	Energy efficiency class				A+	-	
	Capacity	Pdesign		kW	9.5	12.1	13.4
	SEER				5.83	5.49	5.81
	ηs,c			%	-	217	229
	Annual energy consumption			kWh/a	570	1,322	1,384
Space heating (Average climate)	Energy efficiency class				A	-	
	Capacity	Pdesign		kW	6		7.8
	SCOP/A				3.85	3.63	3.85
	SCOPnet/A				3.85	3.63	3.85
	ηs,h			%	-	142	151
	Annual energy consumption			kWh/a	2,182	2,314	2,836
	Required back up heating cap at design conditions			kW		0	
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	9.5	12.1	13.4
	EERd				3.2	2.61	2.81
	Power input			kW	2.97	4.64	4.76
	B Condition (30°C - 27/19)	Pdc		kW	7	8.92	9.88
	EERd				5.13	4.34	4.66
	Power input			kW	1.36	2.06	2.12
	C Condition (25°C - 27/19)	Pdc		kW	4.5	5.74	6.35
	EERd				7.01	6.36	6.84
	Power input			kW	0.64	0.9	0.93
	D Condition (20°C - 27/19)	Pdc		kW	3.1	3.17	3.97
	EERd				8.59	8.72	8.83
	Power input			kW		0.36	0.45
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C		-10	
	E condition (-10°C)	Pdh (declared heating cap)		kW	6		7.8
	COPd (declared COP)				2.45	2.5	2.06
	Power input			kW	2.45	2.4	3.78
	TBivalent	Tbiv (bivalent temperature)		°C		-10	
	Pdh (declared heating cap)			kW	6		7.8
	COPd (declared COP)				2.45	2.5	2.06
	Power input			kW	2.45	2.4	3.78
	A Condition (-7°C)	Pdh (declared heating cap)		kW	5.31	5.3	6.9
	COPd (declared COP)				2.69	2.72	2.46
Space heating (Average climate)	A Condition (-7°C)	Power input		kW	1.97	1.95	2.81
	B Condition (2°C)	Pdh (declared heating cap)		kW	3.23		4.2
	COPd (declared COP)				3.77	3.53	3.94
	Power input			kW	0.86	0.91	1.07
	C Condition (7°C)	Pdh (declared heating cap)		kW	2.26	2.27	3.5
	COPd (declared COP)				4.83	4.37	4.98
	Power input			kW	0.47	0.52	0.7
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.57	2.66	4.1
	COPd (declared COP)				5.7	5.36	6.1
	Power input			kW	0.45	0.5	0.67

2 Specifications

2 - 1 Specifications

2

Technical specifications					FBA100A + RZASG100MY1	FBA125A + RZASG125MY1	FBA140A + RZASG140MY1
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	Heating	PSB	kW	0.014		
		Cooling	PSB	kW	0.014		
	Thermo-stat-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		
Space heating (Average climate) - Low sound mode (Stb. 2020, 189)	B Condition (2°C) - SCOPnet/A	COPd (declared COP)			- - -		
		SCOPnet/A			-		
	C Condition (7°C) - SCOPnet/A	PdH (declared heating cap)			kW	- - -	

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

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

Technical specifications					FDA125A + RZASG125MY1	
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	
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-10	
	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	
		COPd (declared COP)			3.54	
		Power input		kW	0.91	
	C Condition (7°C)	PdH (declared heating cap)		kW	2.29	

2 Specifications

2 - 1 Specifications

Technical specifications					FDA125A + RZASG125MY1
Space heating (Average climate)	C Condition (7°C)	COPd (declared COP)			4.27
		Power input kW			0.54
	D Condition (12°C)	Pd _h (declared heating cap) kW			2.65
		COPd (declared COP)			5.00
Power consumption in other than active mode	Crankcase heater mode	Power input kW			0.53
		Cooling	PCK	kW	0.000
	Heating	PCK	kW	0.000	
		Off mode	Cooling	POFF	kW
	Heating		POFF	kW	0.015
	Standby mode	Heating	PSB	kW	0.015
		Cooling	PSB	kW	0.015
	Thermo-stat-off mode	Cooling	PTO	kW	0.000
		Heating	PTO	kW	0.015
	Indication if the heater is equipped with a supplementary heater (pair application)				
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0
Cooling	C _{dc} (Degradation cooling)				0.25
Heating	C _{dh} (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
Space heating (Average climate) - Low sound mode (Stb. 2020, 189)	B Condition (2°C) - SCOP _{net} /A	COP _d (declared COP)			- - -
					-
	C Condition (7°C) - SCOP _{net} /A	Pd _h (declared heating cap)			- - -

(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				FHA100A + RZASG100MY1	FHA125A + RZASG125MY1	FHA140A + RZASG140MY1
Cooling capacity	Nom.	kW		9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.	kW		10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A+	-	-
	Capacity	Pdesign	kW	9.50	12.1	13.4
	SEER			5.83		5.88
	ηs,c	%		-	230	232
	Annual energy consumption		kWh/a	570	1,246	1,368
Space heating (Average climate)	Energy efficiency class			A	-	-
	Capacity	Pdesign	kW	6.00		7.80
	SCOP/A			3.91	3.83	3.81
	SCOPnet/A			3.91	3.83	3.81
	ηs,h	%		-	150	149
	Annual energy consumption		kWh/a	2,148	2,193	2,866
	Required back up heating cap at design conditions		kW		0.00	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	9.50	12.10	13.40
		EERd		3.20	2.63	2.77
		Power input	kW	2.97	4.60	4.84
	B Condition (30°C - 27/19)	Pdc	kW	7.00	8.92	9.88
		EERd		4.91	4.53	4.59
		Power input	kW	1.43	1.97	2.15
	C Condition (25°C - 27/19)	Pdc	kW	4.50	5.74	6.35
		EERd		6.98	6.79	6.85
		Power input	kW	0.64	0.85	0.93
	D Condition (20°C - 27/19)	Pdc	kW	3.10	3.17	3.86
		EERd		8.87	9.62	9.50
		Power input	kW	0.35	0.33	0.41

2 Specifications

2 - 1 Specifications

2

Technical specifications				FHA100A + RZASG100MY1	FHA125A + RZASG125MY1	FHA140A + RZASG140MY1	
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10			
	TBivalent	Tbiv (bivalent temperature)	°C	-10			
		Pdh (declared heating cap)	kW	6.00		7.80	
		COPd (declared COP)		2.49		1.98	
		Power input	kW	2.41		3.95	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	5.31	5.30	6.90	
		COPd (declared COP)		2.73	2.72	2.37	
		Power input	kW	1.94	1.95	2.91	
	B Condition (2°C)	Pdh (declared heating cap)	kW	3.23		4.20	
		COPd (declared COP)		3.77	3.68	3.92	
Space heating (Average climate)	B Condition (2°C)	Power input	kW	0.86	0.88	1.07	
	C Condition (7°C)	Pdh (declared heating cap)	kW	2.18	2.19	3.45	
		COPd (declared COP)		4.96	4.84	4.95	
		Power input	kW	0.44	0.45	0.70	
	D Condition (12°C)	Pdh (declared heating cap)	kW	2.57	2.58	4.05	
		COPd (declared COP)		6.14	6.00	6.07	
		Power input	kW	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		Heating	PSB	kW	0.012		
		Cooling	PSB	kW	0.012		
Thermo-stat-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			
Space heating (Average climate) - Low sound mode (Stb. 2020, 189)	B Condition (2°C) - SCOPnet/A	COPd (declared COP)		- - -			
	SCOPnet/A			-			
	C Condition (7°C) - SCOPnet/A	Pdh (declared heating cap)		- - -			

(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				FUA100A + RZASG100MY1	FUA125A + RZASG125MY1
Cooling capacity	Nom.	kW		9.50 (1)	12.1 (1)
Heating capacity	Nom.	kW		10.8 (2)	13.5 (2)
Space cooling	Energy efficiency class			A+	-
	Capacity	Pdesign	kW	9.50	12.1
	SEER			5.83	5.49
	ηs,c	%		-	217
	Annual energy consumption		kWh/a	570	1,322
Space heating (Average climate)	Energy efficiency class			A+	-
	Capacity	Pdesign	kW	6.00	-
	SCOP/A			4.01	3.84
	SCOPnet/A			4.01	3.84
	ηs,h	%		-	151
	Annual energy consumption		kWh/a	2,095	2,188
	Required back up heating cap at design conditions		kW	0.00	

2 Specifications

2 - 1 Specifications

Technical specifications					FUA100A + RZASG100MY1		FUA125A + RZASG125MY1	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		9.50		12.10	
		EERd			3.20		2.35	
		Power input	kW		2.97		5.15	
	B Condition (30°C - 27/19)	Pdc	kW		7.00		8.92	
		EERd			4.81		4.24	
		Power input	kW		1.45		2.10	
	C Condition (25°C - 27/19)	Pdc	kW		4.50		5.74	
		EERd			7.04		6.48	
		Power input	kW		0.64		0.89	
	D Condition (20°C - 27/19)	Pdc	kW		3.10		3.14	
EERd				8.98		9.22		
Power input		kW		0.35		0.34		
Space heating (Average climate)	TOL	Tol (temperature operating limit)			°C	-10		
	TBivalent	Tbiv (bivalent temperature)			°C	-10		
		Pdh (declared heating cap)			kW	6.00		
		COPd (declared COP)				2.56	2.52	
		Power input			kW	2.35	2.38	
	A Condition (-7°C)	Pdh (declared heating cap)			kW	5.31	5.30	
		COPd (declared COP)				2.79	2.76	
		Power input			kW	1.90	1.92	
		B Condition (2°C)	Pdh (declared heating cap)			kW	3.23	
	COPd (declared COP)				3.87	3.70		
Space heating (Average climate)	B Condition (2°C)	Power input			kW	0.83	0.87	
		C Condition (7°C)	Pdh (declared heating cap)			kW	2.19	2.21
	COPd (declared COP)				5.10	4.81		
	Power input			kW	0.43	0.46		
	D Condition (12°C)		Pdh (declared heating cap)			kW	2.57	2.59
		COPd (declared COP)				6.26	5.89	
	Power input			kW	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		Heating	PSB	kW		0.012		
		Cooling	PSB	kW		0.012		
Thermo-stat-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		
Space heating (Average climate) - Low sound mode (Stb. 2020, 189)	B Condition (2°C) - SCOPnet/A	COPd (declared COP)				---		
						-		
	C Condition (7°C) - SCOPnet/A	Pdh (declared heating cap)				---		

(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					FAA100B + RZASG100MY1
Cooling capacity	Nom.	kW			9.50 (1)
Heating capacity	Nom.	kW			10.8 (2)
Space cooling	Energy efficiency class				A+
	Capacity	Pdesign	kW		9.50
	SEER				5.83
	Annual energy consumption		kWh/a		570

2 Specifications

2 - 1 Specifications

Technical specifications				FAA100B + RZASG100MY1
Space heating (Average climate)	Energy efficiency class			A
	Capacity	Pdesign	kW	6.00
	SCOP/A			3.85
	SCOPnet/A			3.85
	Annual energy consumption		kWh/a	2,182
	Required back up heating cap at design conditions		kW	0.00
Space cooling	A Condition	Pdc	kW	9.50
	(35°C - 27/19)	EERd		2.70
		Power input	kW	3.52
	B Condition	Pdc	kW	7.00
	(30°C - 27/19)	EERd		4.87
		Power input	kW	1.44
	C Condition	Pdc	kW	4.50
	(25°C - 27/19)	EERd		6.85
		Power input	kW	0.66
	D Condition	Pdc	kW	3.00
	(20°C - 27/19)	EERd		10.23
		Power input	kW	0.29
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10
	TBivalent	Tbiv (bivalent temperature)	°C	-10
		Pdh (declared heating cap)	kW	6.00
		COPd (declared COP)		2.31
		Power input	kW	2.60
	A Condition	Pdh (declared heating cap)	kW	5.31
	(-7°C)	COPd (declared COP)		2.55
		Power input	kW	2.08
	B Condition	Pdh (declared heating cap)	kW	3.23
	(2°C)	COPd (declared COP)		3.68
		Power input	kW	0.88
	C Condition	Pdh (declared heating cap)	kW	2.12
	(7°C)			
Space heating (Average climate)	C Condition	COPd (declared COP)		5.09
	(7°C)	Power input	kW	0.42
	D Condition	Pdh (declared heating cap)	kW	2.52
	(12°C)	COPd (declared COP)		6.53
		Power input	kW	0.39
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	0.000
		Heating	PCK	0.000
	Off mode	Cooling	POFF	0.012
		Heating	POFF	0.012
	Standby mode	Heating	PSB	0.012
		Cooling	PSB	0.012
	Thermo-stat-off mode	Cooling	PTO	0.000
		Heating	PTO	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
Ecolabel logo				No
Space heating (Average climate) - Low sound mode (Stb. 2020, 189)	B Condition	COPd (declared COP)		---
	(2°C) -			
	SCOPnet/A			-
	SCOPnet/A			-
	C Condition	Pdh (declared heating cap)		---
	(7°C) -			
	SCOPnet/A			

(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				FVA100A + RZASG100MY1	FVA125A + RZASG125MY1	FVA140A + RZASG140MY1
Cooling capacity	Nom.	kW		9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.	kW		10.8 (2)	13.5 (2)	15.5 (2)

2 Specifications

2 - 1 Specifications

Technical specifications					FVA100A + RZASG100MY1	FVA125A + RZASG125MY1	FVA140A + RZASG140MY1	
Space cooling	Energy efficiency class				A+	-		
	Capacity	Pdesign	kW		9.50	12.1	13.4	
	SEER				5.72	5.52	5.63	
	ηs,c				-	218	222	
	Annual energy consumption				581	1,314	1,428	
Space heating (Average climate)	Energy efficiency class				A	-		
	Capacity	Pdesign	kW		6.00	7.80		
	SCOP/A				3.83	3.64	3.81	
	SCOPnet/A				3.83	3.64	3.81	
	ηs,h				-	143	149	
	Annual energy consumption				2,193	2,308	2,866	
	Required back up heating cap at design conditions				0.00			
	Space cooling	A Condition	Pdc	kW		9.50	12.10	13.40
(35°C - 27/19) EERd				3.20	2.47	2.62		
Power input				2.97	4.90	5.12		
B Condition		Pdc	kW		7.00	8.92	9.88	
(30°C - 27/19) EERd				5.01	4.31	4.52		
Power input				1.40	2.07	2.19		
C Condition		Pdc	kW		4.50	5.74	6.35	
(25°C - 27/19) EERd				6.78	6.26	6.51		
Power input				0.66	0.92	0.98		
D Condition		Pdc	kW		3.00	3.07	3.76	
(20°C - 27/19) EERd				8.25	9.54	8.88		
Power input				0.36	0.32	0.42		
Space heating (Average climate)		TOL	Tol (temperature operating limit)			°C	-10	
		TBivalent	Tbiv (bivalent temperature)			°C	-10	
			PdH (declared heating cap)			kW	6.00	7.80
			COPd (declared COP)			2.46	2.37	1.99
	Power input			2.44	2.53	3.93		
	A Condition (-7°C)	PdH (declared heating cap)			kW	5.31	5.30	6.90
		COPd (declared COP)			2.70	2.60	2.38	
		Power input			1.97	2.04	2.90	
	B Condition (2°C)	PdH (declared heating cap)			kW	3.23	4.20	
		COPd (declared COP)			3.72	3.51	3.90	
Space heating (Average climate)	B Condition (2°C)	Power input			kW	0.87	0.92	1.08
	C Condition (7°C)	PdH (declared heating cap)			kW	2.20	2.19	3.47
		COPd (declared COP)			4.81	4.57	4.99	
		Power input			kW	0.46	0.48	0.70
	D Condition (12°C)	PdH (declared heating cap)			kW	2.58	2.57	4.07
		COPd (declared COP)			5.82	5.60	6.10	
		Power input			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		Heating	PSB	kW	0.012			
		Cooling	PSB	kW	0.012			
Thermo-stat-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					-	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			
Space heating (Average climate) - Low sound mode (Stb. 2020, 189)	B Condition (2°C) -	COPd (declared COP)			---			
	SCOPnet/A				-			
	C Condition (7°C) -	PdH (declared heating cap)			---			
	SCOPnet/A							

(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 - 1 Electrical Data

RZASG-MY1

KW: Fan motor rated output [kW]

Earth leakage circuit breaker

3D110014H

										Compressor				OFM				IFM														Compressor				OFM				IFM				
Indoor		Outdoor		Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA	Indoor		Outdoor		Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA	Indoor		Outdoor		Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAG35B8VE	x3	RZASG100M7Y1B	3N~ 50Hz 380-415V	Minimum: 342 v Maximum: 455 v	13.0	—	16	—	10.6	0.2	1	0.044 x3	0.3 x3	FCAG35B8VE	x4	RZASG125M7Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum: 455 V	12.2	—	16	—	9.5	0.2	1	0.044 x4	0.3 x4	12.2	—	16	—	9.5	0.2	1	0.044 x4	0.3 x4								
FCAG50B8VE	x2	RZASG100M7Y1B			12.7	—	16	—	10.6	0.2	1	0.039 x2	0.3 x2	FCAG50B8VE	x3	RZASG125M7Y1B			13.0	—	16	—	10.6	0.2	1	0.039 x3	0.3 x3	13.0	—	16	—	10.6	0.2	1	0.039 x3	0.3 x3								
FCAG100B8VE	x2	RZASG100M7Y1B			14.2	—	16	—	12	0.2	1	0.117	0.7	FCAG60B8VE	x2	RZASG125M7Y1B			12.7	—	16	—	10.6	0.2	1	0.044 x2	0.3 x2	12.7	—	16	—	10.6	0.2	1	0.044 x2	0.3 x2								
FFA35A2VEB	x3	RZASG100M7Y1B			12.3	—	16	—	10.6	0.2	1	0.050 x3	0.4 x3	FCAG125B8VE	x2	RZASG125M7Y1B			14.6	—	16	—	12	0.2	1	0.168	1	14.6	—	16	—	12	0.2	1	0.168	1								
FFA50A2VEB	x2	RZASG100M7Y1B			12.9	—	16	—	10.6	0.2	1	0.050 x2	0.4 x2	FFA35A2VEB	x4	RZASG125M7Y1B			12.6	—	16	—	9.5	0.2	1	0.050 x4	0.4 x4	12.6	—	16	—	9.5	0.2	1	0.050 x4	0.4 x4								
FBA35A2VEB	x3	RZASG100M7Y1B			13.9	—	16	—	10.6	0.2	1	0.089 x3	0.6 x3	FFA50A2VEB	x3	RZASG125M7Y1B			13.3	—	16	—	10.6	0.2	1	0.050 x3	0.6 x3	13.3	—	16	—	10.6	0.2	1	0.050 x3	0.6 x3								
FBA50A2VEB	x2	RZASG100M7Y1B			13.3	—	16	—	10.6	0.2	1	0.089 x2	0.6 x2	FFA60A2VEB	x2	RZASG125M7Y1B			13.3	—	16	—	10.6	0.2	1	0.050 x2	0.6 x2	13.3	—	16	—	10.6	0.2	1	0.050 x2	0.6 x2								
FBA100A2VEB	x2	RZASG100M7Y1B			14.6	—	16	—	12	0.2	1	0.127	1	FBA35A2VEB	x4	RZASG125M7Y1B			13.4	—	16	—	9.5	0.2	1	0.089 x4	0.6 x4	13.4	—	16	—	9.5	0.2	1	0.089 x4	0.6 x4								
FNA35A2VEB	x3	RZASG100M7Y1B			13.0	—	16	—	10.6	0.2	1	0.034 x3	0.3 x3	FBA50A2VEB	x3	RZASG125M7Y1B			13.9	—	16	—	10.6	0.2	1	0.089 x3	0.6 x3	13.9	—	16	—	10.6	0.2	1	0.089 x3	0.6 x3								
FNA50A2VEB	x2	RZASG100M7Y1B			13.1	—	16	—	10.6	0.2	1	0.060 x2	0.5 x2	FBA60A2VEB	x2	RZASG125M7Y1B			13.1	—	16	—	10.6	0.2	1	0.070 x2	0.5 x2	13.1	—	16	—	10.6	0.2	1	0.070 x2	0.5 x2								
FUA100AVEB9	x2	RZASG100M7Y1B			14.9	—	16	—	12	0.2	1	0.106	1.3	FBA125A2VEB	x2	RZASG125M7Y1B			15.1	—	16	—	12	0.2	1	0.187	1.5	15.1	—	16	—	12	0.2	1	0.187	1.5								
FAA100BUV1B	x2	RZASG100M7Y1B			14.8	—	16	—	12	0.2	1	0.064	0.9	FNA35A2VEB	x4	RZASG125M7Y1B			12.2	—	16	—	9.5	0.2	1	0.034 x4	0.3 x4	12.2	—	16	—	9.5	0.2	1	0.034 x4	0.3 x4								
FVA100AMVEB	x2	RZASG100M7Y1B			14.4	—	16	—	12	0.2	1	0.238	1.2	FNA50A2VEB	x3	RZASG125M7Y1B			13.6	—	16	—	10.6	0.2	1																			

3D110014H

4 Options

4 - 1 Options

RZASG-MV_MY

Available options for -RZAG- models

Option		Option kit			
		RZAG71M7V1B	RZAG100M7V1B	RZAG125M7V1B	RZAG140M7V1B
Bottom plate heater		RZAG71M7Y1B	RZAG100M7Y1B	RZAG125M7Y1B	RZAG140M7Y1B
Refrigerant branch piping	Twin	EKBPH140L7			
	Triple	KHRQ(M)58T			
	Double twin			KHRQ(M)58H	
Demand adaptor kit				KHRQ(M)58T (3x)	
		SB.KRP58M52			

Available options for -RZASG- models

Option		Option kit			
		RZASG71M7V1B	RZAGS100M7V1B	RZAGS125M7V1B	RZAGS140M7V1B
		RZASG71M7Y1B	RZAGS100M7Y1B	RZAGS125M7Y1B	RZAGS140M7Y1B
			RZAGS100MUV	RZAGS125MUV	RZAGS140MUV
			RZAGS100MUY	RZAGS125MUY	RZAGS140MUY
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			

3D108867A

5 Combination table

5 - 1 Combination Table

AZAS-MV / AZAS-MY / RZASG-MV / RZASG-MY

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

Sky Air		High Cassette		Thin cassette				2x2 cassette			Duct (medium ESP)				Concealed floor standing type		Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)										
Model		FCAHG71GVEB	FCAHG100GVEB	FCAHG125GVEB	FCAHG140GVEB	FCAG35AVEB	FCAG50AVEB	FCAG60AVEB	FCAG71AVEB	FCAG100AVEB	FCAG125AVEB	FCAG140AVEB	FFA35A2VEB	FFA50A2VEB	FFA60A2VEB	FBA35A2VEB	FBA50A2VEB	FBA60A2VEB	FBA71A2VEB	FBA100A2VEB	FBA125A2VEB	FBA140A2VEB	FNA35A2VEB	FNA50A2VEB	FNA60A2VEB	FUA71AVEB	FUA100AVEB	FUA125AVEB	FAA71AUEVB	FAA100AUEVB	FDA125A5VEB	
RZAG71M7V1B	RZAG71M7Y1B	P				2							2			2						2				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	P			P	4	3	2				P	4	3	2	4	3	2			P		4	3	2		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	2	4	3	2			P		4	3	2		2			2		
RZASG100MUV	RZASG100MUY					3	2			P			3	2		3	2			P			3	2			P			P		
RZASG125MUV	RZASG125MUY					4	3	2			P		4	3	2	4	3	2			P		4	3	2			P			P	
RZASG140MUV	RZASG140MUY					4	3		2		P		4	3		4	3		2		P		4	3		2			2			
AZAS71M2V1B																													P			
AZAS100M7V1B	AZAS100M7Y1B								P											P											P	
AZAS125M7V1B	AZAS125M7Y1B									P											P											
AZAS140M7V1B	AZAS140M7Y1B										P											P										
AZAS100MUV	AZAS100MUY								P											P											P	
AZAS125MUV	AZAS125MUY									P												P										
AZAS140MUV	AZAS140MUY										P											P										

Sky Air		Floor standing type				Slim duct			Ceiling-suspended						Duct (medium ESP)			
Model		FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	FDX35F3V1B	FDX50F3V1B	FDX60F3V1B	FHA35AVEB	FHA50AVEB	FHA60AVEB	FHA71AVEB	FHA100AVEB	FHA125AVEB	FHA140AVEB	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			
RZASG100MUV	RZASG100MUY		P			3	2		3	2			P					
RZASG125MUV	RZASG125MUY			P		4	3	2	4	3	2			P				
RZASG140MUV	RZASG140MUY	2			P	4	3		4	3		2			P			
AZAS71M2V1B																P		
AZAS100M7V1B	AZAS100M7Y1B																P	
AZAS125M7V1B	AZAS125M7Y1B																	P
AZAS140M7V1B	AZAS140M7Y1B																	
AZAS100MUV	AZAS100MUY		P									P					P	
AZAS125MUV	AZAS125MUY			P									P					P
AZAS140MUV	AZAS140MUY				P									P				P

NOTES

- Maximum capacity is limited based on outdoor unit capacity.
- When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
- For the selection of the correct refnet kit, required to install a multi-combination, refer to the option list.
Twin : KHRQ(M)58T
Triple : KHRQ(M)58H
Double twin : KHRQ(M)58T
- ADEA*A2VEB: can only be used in combination with ·AZAS*.

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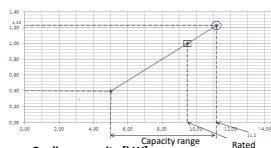
Capacity tables

6 - 1 Cooling/Heating Capacity Tables

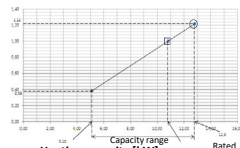
RZASG100MV1

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 capacity [kW]											
Outdoor temperature (°C DB)											
25				30				35			
TC	SHC	CPI	PI	TC	SHC	CPI	PI	TC	SHC	CPI	PI
14.00	11.8	1.00	1.00	12.8	10.8	1.00	1.00	11.6	9.8	1.00	1.00
13.0	11.0	0.97	0.97	12.0	10.0	0.97	0.97	10.8	9.0	0.97	0.97
12.0	10.2	0.94	0.94	11.2	9.2	0.94	0.94	10.0	8.2	0.94	0.94
11.0	9.4	0.91	0.91	10.4	8.4	0.91	0.91	9.2	7.4	0.91	0.91
10.0	8.6	0.88	0.88	9.6	7.6	0.88	0.88	8.4	6.6	0.88	0.88
9.0	7.8	0.85	0.85	8.8	6.8	0.85	0.85	7.6	5.8	0.85	0.85
8.0	7.0	0.82	0.82	8.0	6.0	0.82	0.82	6.8	5.0	0.82	0.82
7.0	6.2	0.79	0.79	7.2	5.2	0.79	0.79	6.0	4.2	0.79	0.79
6.0	5.4	0.76	0.76	6.4	4.4	0.76	0.76	5.2	3.4	0.76	0.76
5.0	4.6	0.73	0.73	5.6	3.6	0.73	0.73	4.4	2.6	0.73	0.73
4.0	3.8	0.70	0.70	4.8	2.8	0.70	0.70	3.6	1.8	0.70	0.70
3.0	3.0	0.67	0.67	4.0	2.0	0.67	0.67	2.8	1.0	0.67	0.67
2.0	2.2	0.64	0.64	3.2	1.2	0.64	0.64	2.0	0.2	0.64	0.64
1.0	1.4	0.61	0.61	2.4	0.4	0.61	0.61	1.2	0.4	0.61	0.61
0.0	0.6	0.58	0.58	1.6	0.6	0.58	0.58	0.4	0.6	0.58	0.58

Heating capacity [kW]											
Outdoor temperature (°C DB)											
-15.0				-10.0				-5.0			
TC	SHC	CPI	PI	TC	SHC	CPI	PI	TC	SHC	CPI	PI
14.00	11.8	1.00	1.00	12.8	10.8	1.00	1.00	11.6	9.8	1.00	1.00
13.0	11.0	0.97	0.97	12.0	10.0	0.97	0.97	10.8	9.0	0.97	0.97
12.0	10.2	0.94	0.94	11.2	9.2	0.94	0.94	10.0	8.2	0.94	0.94
11.0	9.4	0.91	0.91	10.4	8.4	0.91	0.91	9.2	7.4	0.91	0.91
10.0	8.6	0.88	0.88	9.6	7.6	0.88	0.88	8.4	6.6	0.88	0.88
9.0	7.8	0.85	0.85	8.8	6.8	0.85	0.85	7.6	5.8	0.85	0.85
8.0	7.0	0.82	0.82	8.0	6.0	0.82	0.82	6.8	5.0	0.82	0.82
7.0	6.2	0.79	0.79	7.2	5.2	0.79	0.79	6.0	4.2	0.79	0.79
6.0	5.4	0.76	0.76	6.4	4.4	0.76	0.76	5.2	3.4	0.76	0.76
5.0	4.6	0.73	0.73	5.6	3.6	0.73	0.73	4.4	2.6	0.73	0.73
4.0	3.8	0.70	0.70	4.8	2.8	0.70	0.70	3.6	1.8	0.70	0.70
3.0	3.0	0.67	0.67	4.0	2.0	0.67	0.67	2.8	1.0	0.67	0.67
2.0	2.2	0.64	0.64	3.2	1.2	0.64	0.64	2.0	0.2	0.64	0.64
1.0	1.4	0.61	0.61	2.4	0.4	0.61	0.61	1.2	0.4	0.61	0.61
0.0	0.6	0.58	0.58	1.6	0.6	0.58	0.58	0.4	0.6	0.58	0.58

Notes

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

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

Pair						
	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

Pair						
	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

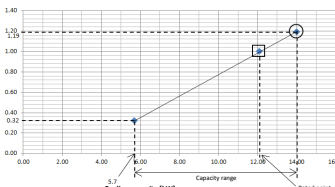
	FCAG35B X 3	FHA35A9 X 3	FFA35A9 X 3	FDXM35F9 X 3	FBA35A9 X 3	FNA35A9 X 3
Cooling	2,32	2,16	2,71	2,57	2,65	2,57
Heating	2,84	2,77	2,14	2,26	1,99	2,31

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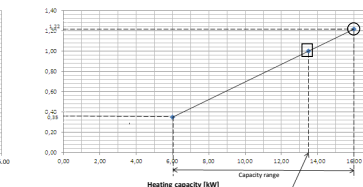
RZASG125MV

RZASG125MY

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 capacity [kW]											
Outdoor temperature (°C DB)											
25				30				35			
TC	SHC	CPI	PI	TC	SHC	CPI	PI	TC	SHC	CPI	PI
14.00	11.8	1.00	1.00	12.8	10.8	1.00	1.00	11.6	9.8	1.00	1.00
13.0	11.0	0.97	0.97	12.0	10.0	0.97	0.97	10.8	9.0	0.97	0.97
12.0	10.2	0.94	0.94	11.2	9.2	0.94	0.94	10.0	8.2	0.94	0.94
11.0	9.4	0.91	0.91	10.4	8.4	0.91	0.91	9.2	7.4	0.91	0.91
10.0	8.6	0.88	0.88	9.6	7.6	0.88	0.88	8.4	6.6	0.88	0.88
9.0	7.8	0.85	0.85	8.8	6.8	0.85	0.85	7.6	5.8	0.85	0.85
8.0	7.0	0.82	0.82	8.0	6.0	0.82	0.82	6.8	5.0	0.82	0.82
7.0	6.2	0.79	0.79	7.2	5.2	0.79	0.79	6.0	4.2	0.79	0.79
6.0	5.4	0.76	0.76	6.4	4.4	0.76	0.76	5.2	3.4	0.76	0.76
5.0	4.6	0.73	0.73	5.6	3.6	0.73	0.73	4.4	2.6	0.73	0.73
4.0	3.8	0.70	0.70	4.8	2.8	0.70	0.70	3.6	1.8	0.70	0.70
3.0	3.0	0.67	0.67	4.0	2.0	0.67	0.67	2.8	1.0	0.67	0.67
2.0	2.2	0.64	0.64	3.2	1.2	0.64	0.64	2.0	0.2	0.64	0.64
1.0	1.4	0.61	0.61	2.4	0.4	0.61	0.61	1.2	0.4	0.61	0.61
0.0	0.6	0.58	0.58	1.6	0.6	0.58	0.58	0.4	0.6	0.58	0.58

Heating capacity [kW]											
Outdoor temperature (°C DB)											
-15.0				-10.0				-5.0			
TC	SHC	CPI	PI	TC	SHC	CPI	PI	TC	SHC	CPI	PI
14.00	11.8	1.00	1.00	12.8	10.8	1.00	1.00	11.6	9.8	1.00	1.00
13.0	11.0	0.97	0.97	12.0	10.0	0.97	0.97	10.8	9.0	0.97	0.97
12.0	10.2	0.94	0.94	11.2	9.2	0.94	0.94	10.0	8.2	0.94	0.94
11.0	9.4	0.91	0.91	10.4	8.4	0.91	0.91	9.2	7.4	0.91	0.91
10.0	8.6	0.88	0.88	9.6	7.6	0.88	0.88	8.4	6.6	0.88	0.88
9.0	7.8	0.85	0.85	8.8	6.8	0.85	0.85	7.6	5.8	0.85	0.85
8.0	7.0	0.82	0.82	8.0	6.0	0.82	0.82	6.8	5.0	0.82	0.82
7.0	6.2	0.79	0.79	7.2	5.2	0.79	0.79	6.0	4.2	0.79	0.79
6.0	5.4	0.76	0.76	6.4	4.4	0.76	0.76	5.2	3.4	0.76	0.76
5.0	4.6	0.73	0.73	5.6	3.6	0.73	0.73	4.4	2.6	0.73	0.73
4.0	3.8	0.70	0.70	4.8	2.8	0.70	0.70	3.6	1.8	0.70	0.70
3.0	3.0	0.67	0.67	4.0	2.0	0.67	0.67	2.8	1.0	0.67	0.67
2.0	2.2	0.64	0.64	3.2	1.2	0.64	0.64	2.0	0.2	0.64	0.64
1.0	1.4	0.61	0.61	2.4	0.4	0.61	0.61	1.2	0.4	0.61	0.61
0.0	0.6	0.58	0.58	1.6	0.6	0.58	0.58	0.4	0.6	0.58	0.58

Notes

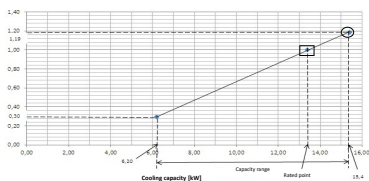
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- = Maximum at standard conditions
 □ = Rated capacity and rated coefficient of the power input
 The maximum capacity is not guaranteed except at standard conditions.
- SHC: is based on indoor units EWB & EDB.
 -SHC:

6 Capacity tables

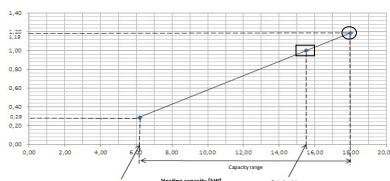
6 - 1 Cooling/Heating Capacity Tables

RZASG-MV1
RZASG-MY1

Cooling



Heating



Cooling

Indoor	Outdoor temperature (°C DB)											
	25				30				35			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	15.5	10.47	0.98	14.9	10.25	1.06	14.4	10.09	1.18	13.9	9.89
18.0	25	16.7	10.55	0.99	15.6	10.21	1.09	15.1	10.05	1.19	14.5	9.71
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
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
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
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

Heating

Indoor	Outdoor temperature (°C DB)											
	-15				-10				-5			
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	18.0	1.09	18.4	1.16
18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	18.0	1.14	18.4	1.21
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	18.0	1.19	18.4	1.25
21	11.5	1.00	12.7	1.06	13.5	1.11	13.9	1.13	18.0	1.21	18.4	1.28
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.24	18.4	1.30
24	11.5	1.07	12.6	1.12	13.5	1.17	13.9	1.20	18.0	1.29	18.4	1.35

Notes

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

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

Twin	FCAG71B X 2	FAA71B X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FVA71A X 2
AFR	15.3 x 2	18.0 x 2	20.5 x 2	23.0 x 2	18.0 x 2	18.0 x 2
(BF)	(0.14 x 2)	(0.16 x 2)	(0.13 x 2)	(0.24 x 2)	(0.11 x 2)	(0.16 x 2)

Triple	FCAG50B X 3	FHA50A X 3	FFA50A X 3	FDXMS0F3 X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 x 3	15.0 x 3	12.0 x 3	15.8 x 3	15.0 x 3	16.0 x 3
(BF)	(0.22 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXMS3F3 X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 x 4	14.0 x 4	10.0 x 4	8.7 x 4	15.0 x 4	8.7 x 4
(BF)	(0.4 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair	FCAG140B	FVA140A	FHA140A	FBA140A
Cooling	5.15	5.41	5.12	5.04
Heating	3.98	4.42	4.07	3.89

Twin	FCAG71B X 2	FAA71B X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FVA71A X 2
Cooling	4.42	4.63	4.18	4.13	4.88	4.72
Heating	3.87	4.46	4.15	3.99	4.45	4.77

Triple	FCAG50B X 3	FHA50A X 3	FFA50A X 3	FDXMS0F3 X 3	FBA50A X 3	FNA50A X 3
Cooling	4.19	4.21	5.16	4.00	4.09	4.00
Heating	3.66	3.91	4.64	4.44	4.29	4.44

Double twin	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXMS3F3 X 4	FBA35A X 4	FNA35A X 4
Cooling	3.25	3.93	4.17	4.64	4.39	4.64
Heating	3.97	4.33	4.15	4.42	4.19	4.42

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

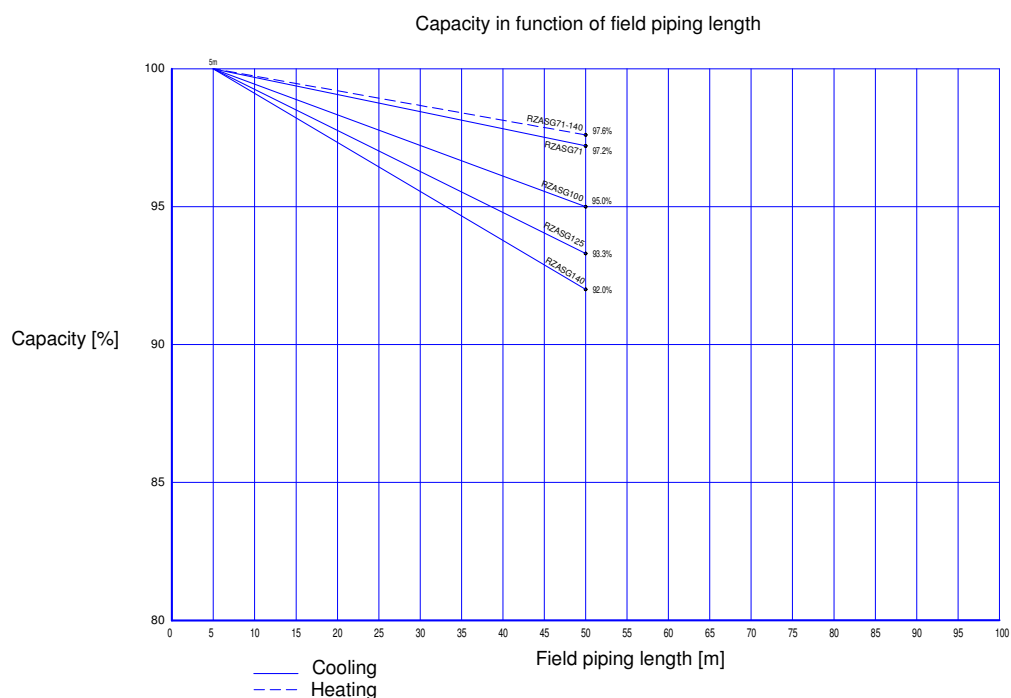
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6 Capacity tables

6 - 2 Capacity Correction Factor

RZASG-MV
RZASG-MY

6

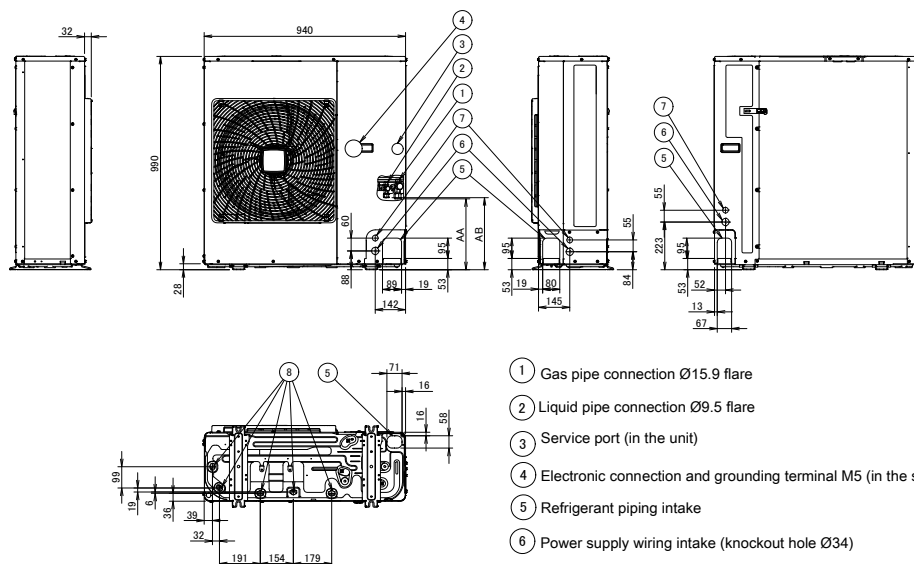


3D112163A

7 - 1 Dimensional Drawings

Technical drawing of a rectangular plate. The main drawing shows a plate with overall dimensions of 620 mm in width and 345 mm in height. The width is divided into three sections: 160 mm on the left, 620 mm in the center, and 160 mm on the right. The height is divided into three sections: 30 mm at the top, 320 mm in the center, and 30 mm at the bottom. There are two circular holes, each with a diameter of 37 mm, located in the center section. A detail view 'A' is shown at the bottom right, showing a cross-section of the plate with a thickness of 91 mm and a fillet radius of 37 mm.

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

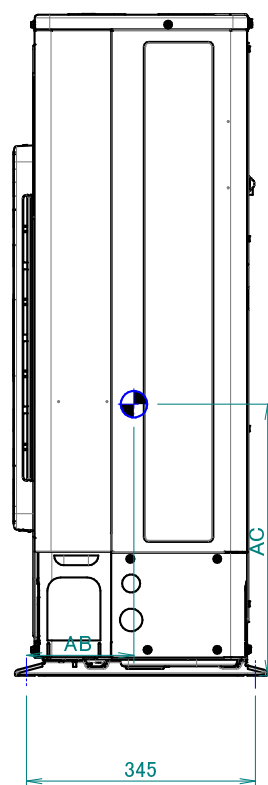
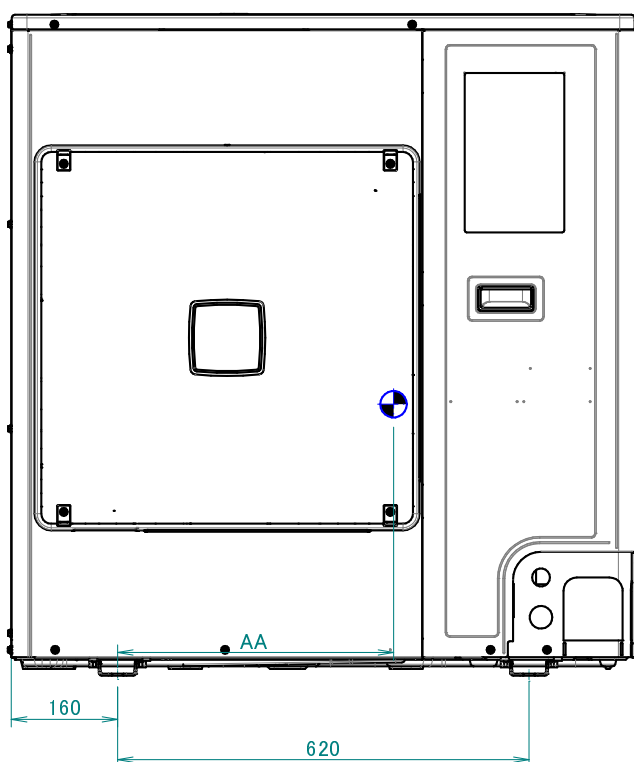
8 - 1 Centre of Gravity

AZAS-MV

AZAS-MY

RZASG-MV

RZASG-MY



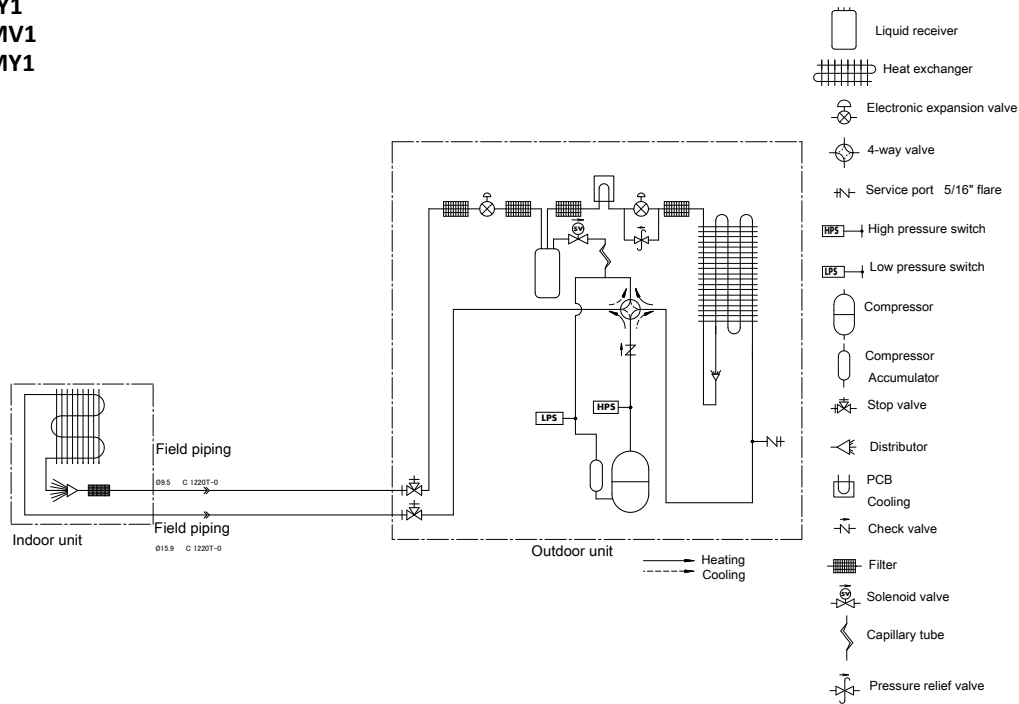
MODEL	AA	AB	AC
RZAG71M7V*	414	163	407
RZAG71M7Y*	432	137	407
RZASG100-125M7V*/AZAS100-125M7V*	425	181	422
RZASG100-125M7Y*/AZAS100-125M7Y*	414	156	417
RZASG140M7V*/AZAS140M7V*	414	161	423
RZASG140M7Y*/AZAS140M7Y*	416	151	418
RZASG100-125MUV/Y / AZAS100-125MUV/Y	425	175	430
RZASG140MUV/Y / AZAS140MUV/Y	425	161	423

4D110025A

9 Piping diagrams

9 - 1 Piping Diagrams

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



Notes

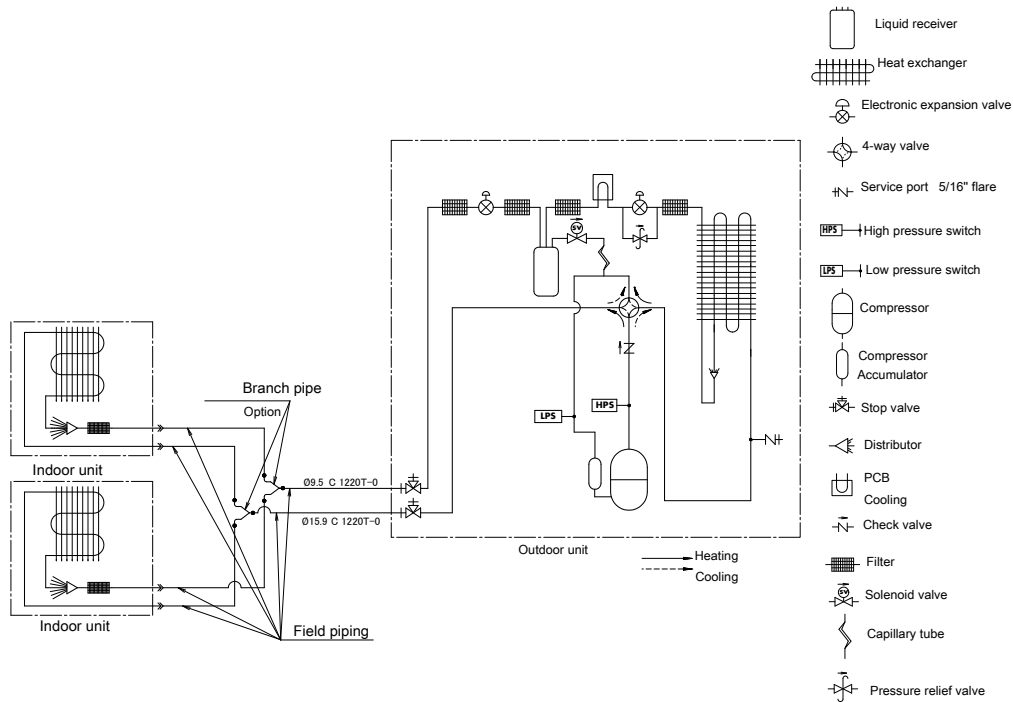
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D108855A

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

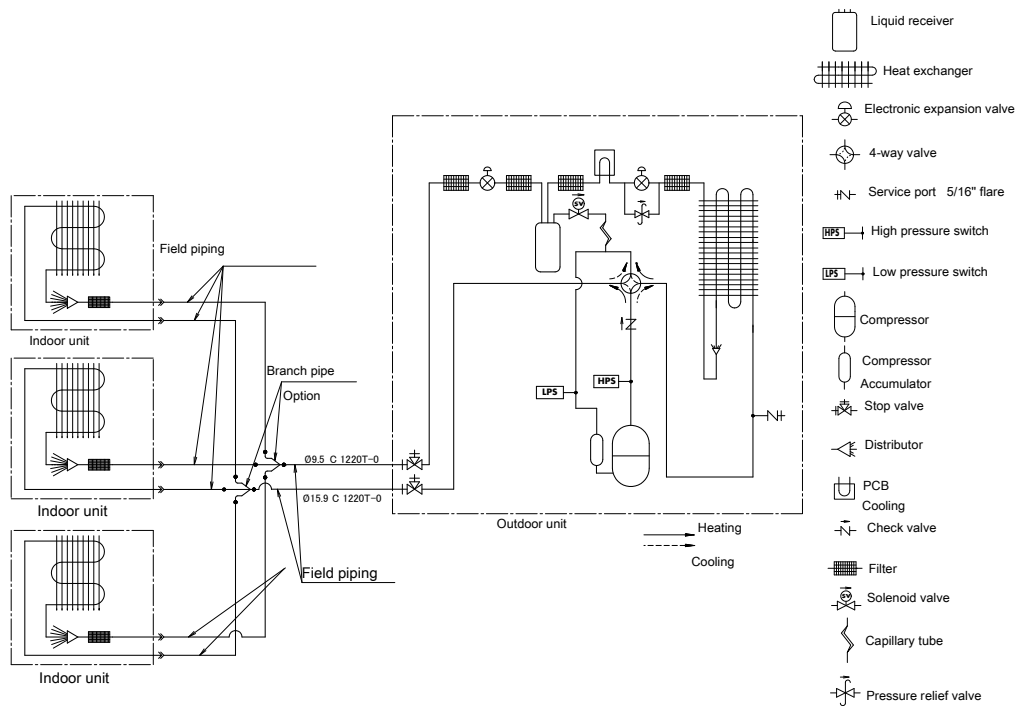
RZAG-MV1
RZAG-MY1
RZASG-MV1
RZASG-MY1



9 Piping diagrams

9 - 3 Piping Diagram Triple Application

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



Notes

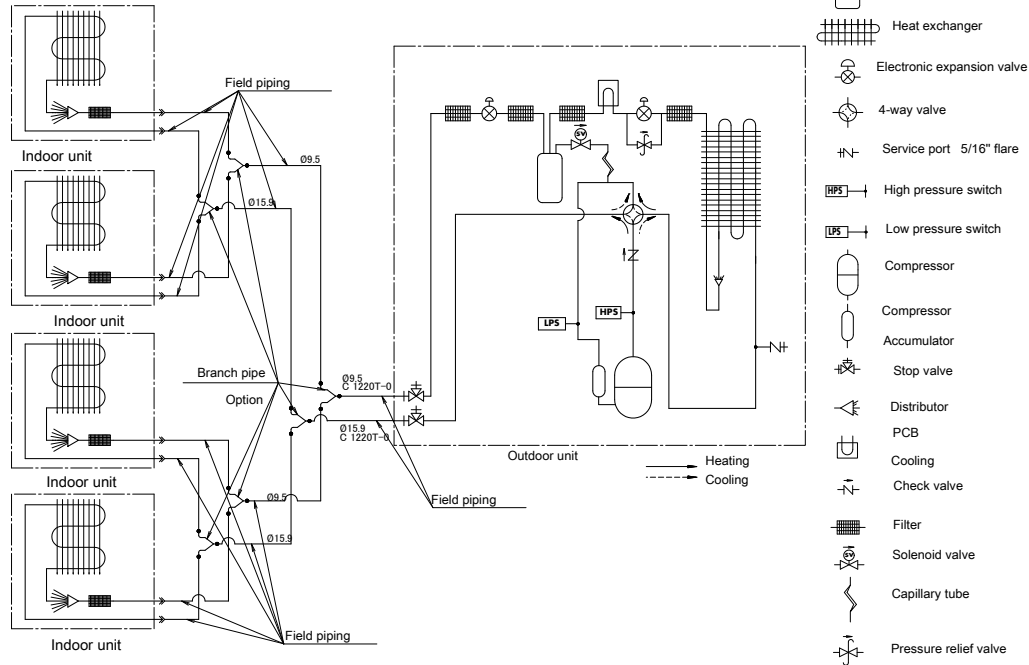
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D108857A

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

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



Notes

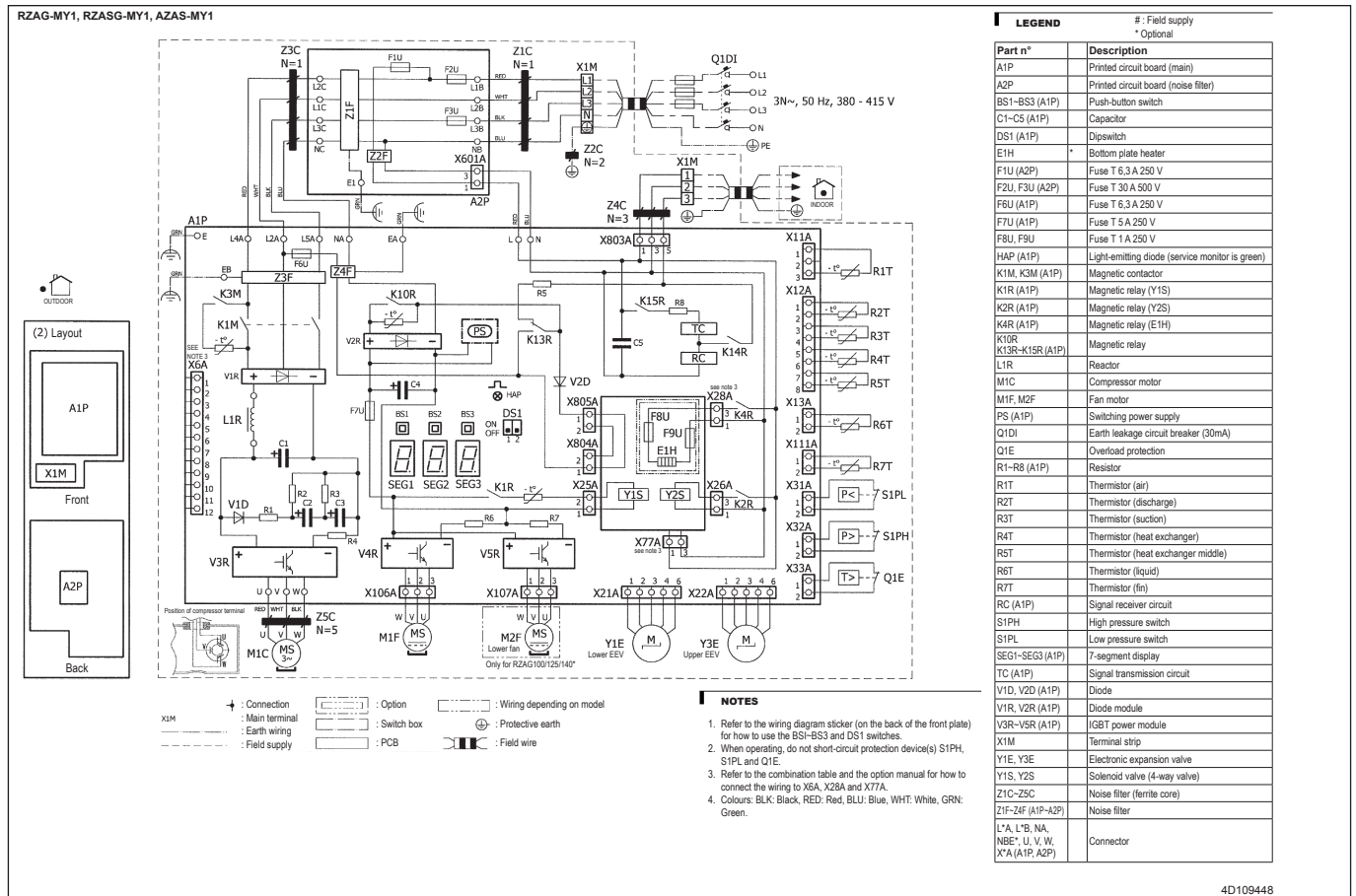
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D108858A

10 Wiring diagrams

10 - 1 Wiring Diagrams - Three Phase

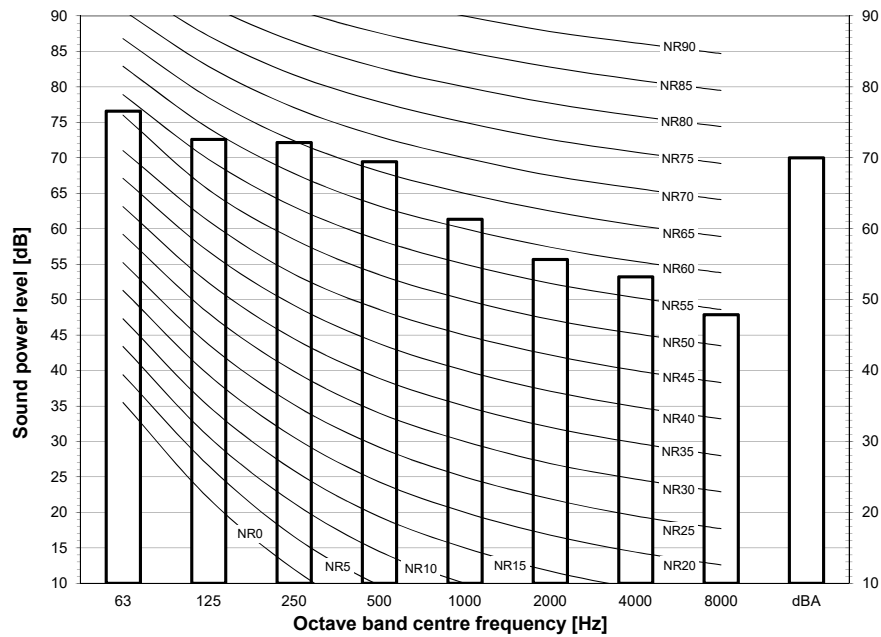
10



11 Sound data

11 - 1 Sound Power Spectrum

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1

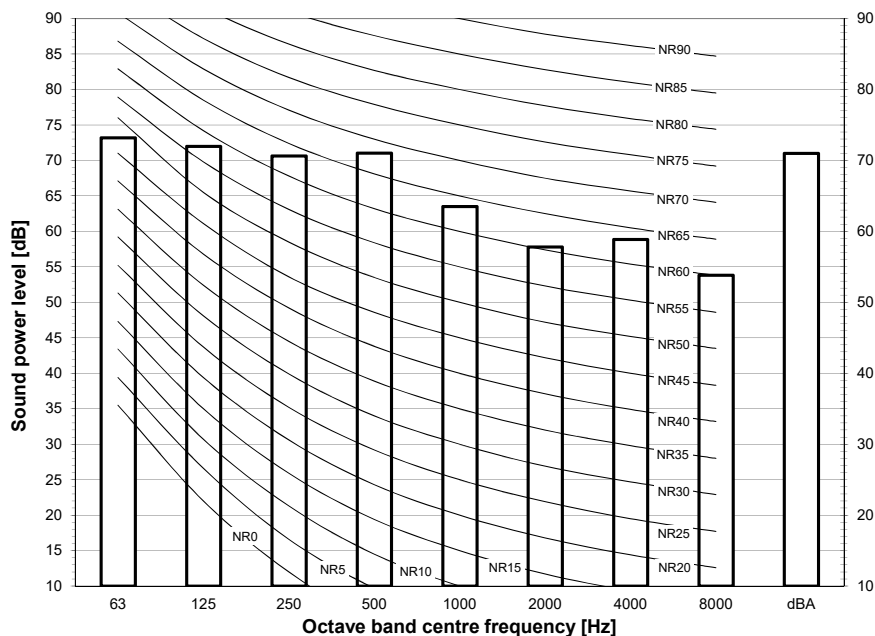


Notes

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

3D110038

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



Notes

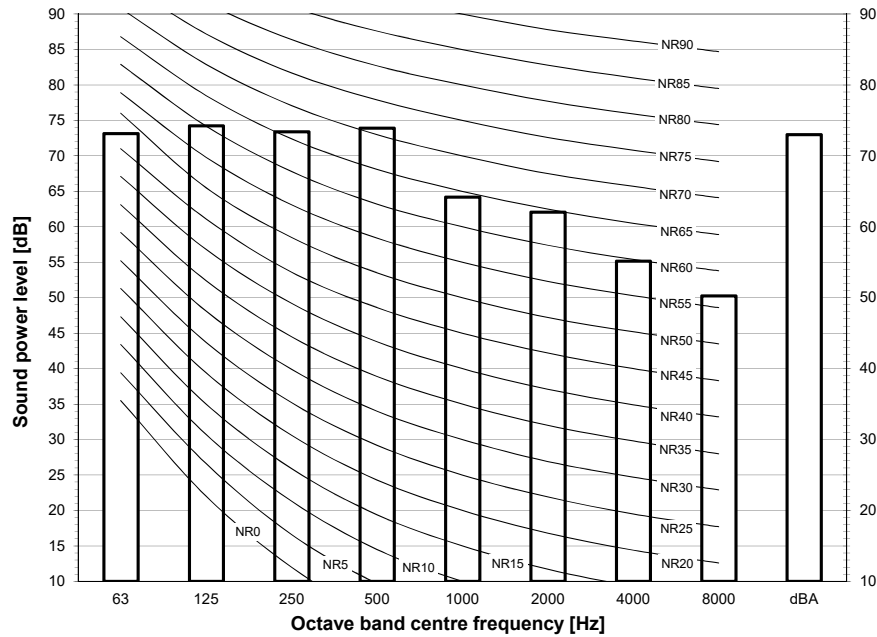
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

3D110039

11 Sound data

11 - 1 Sound Power Spectrum

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1



Notes

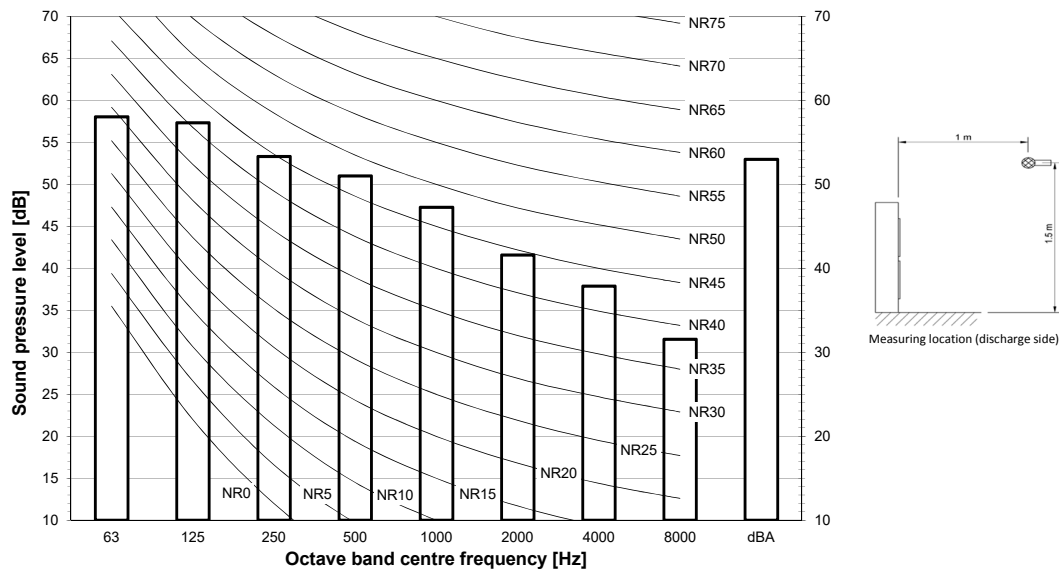
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-6} W/m²
- Measured according to ISO 3744

3D110040

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1

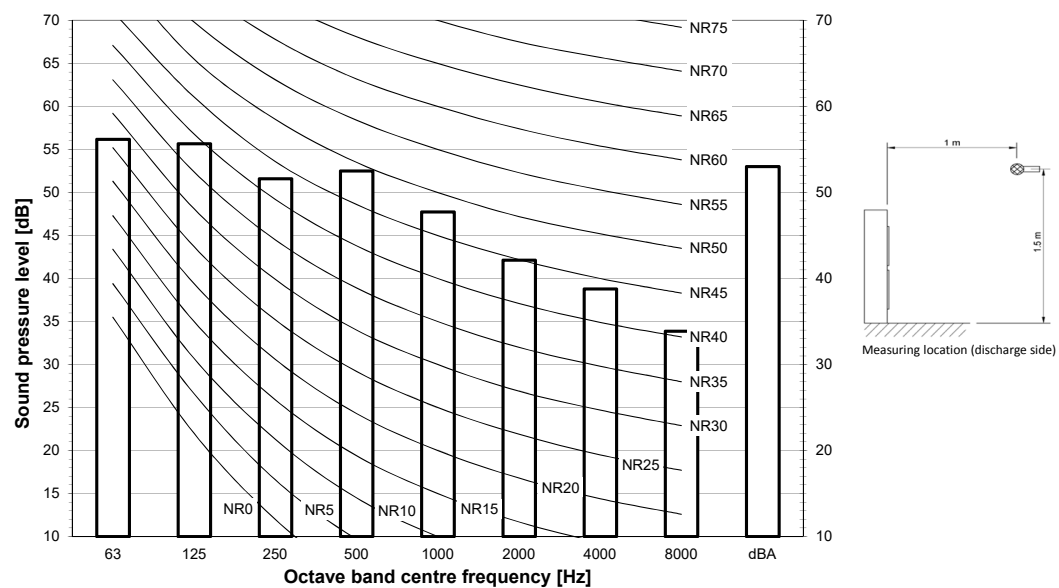


Notes

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

3D110050

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



Notes

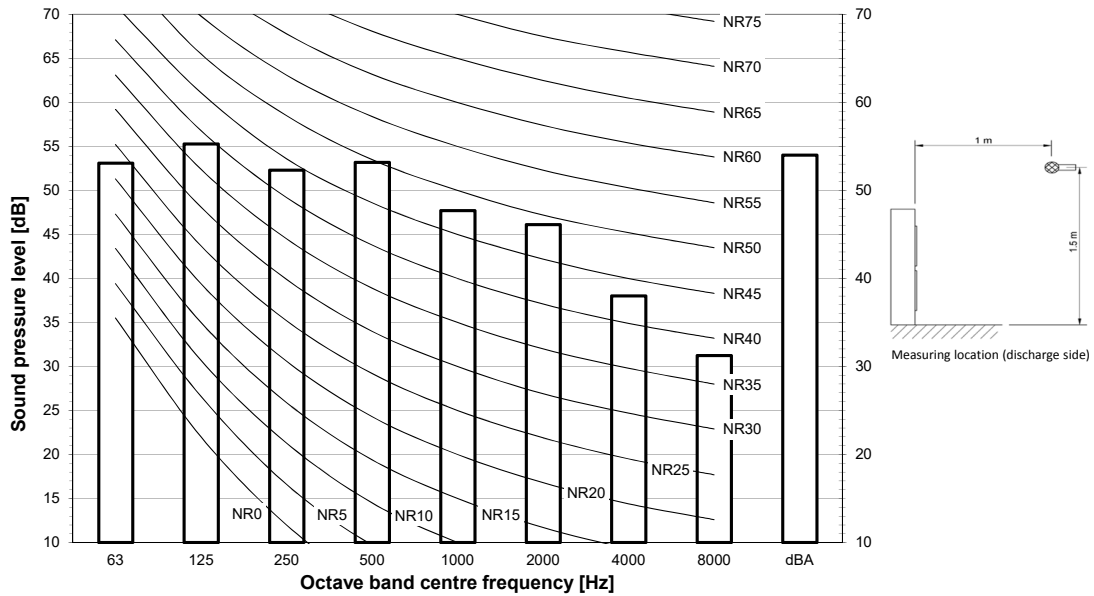
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D110051

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1



Notes

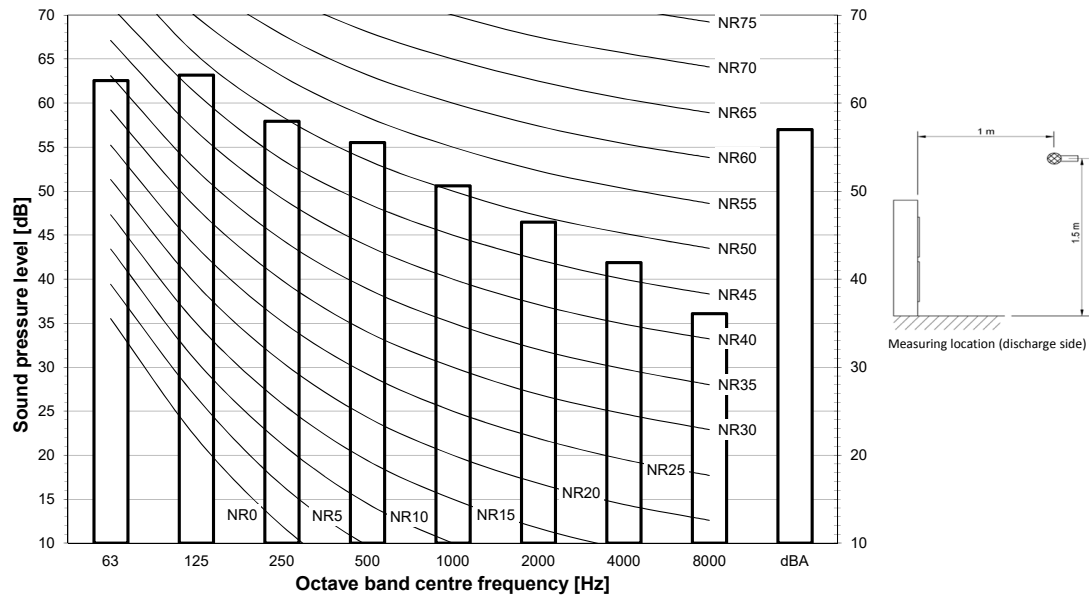
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D111310

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1

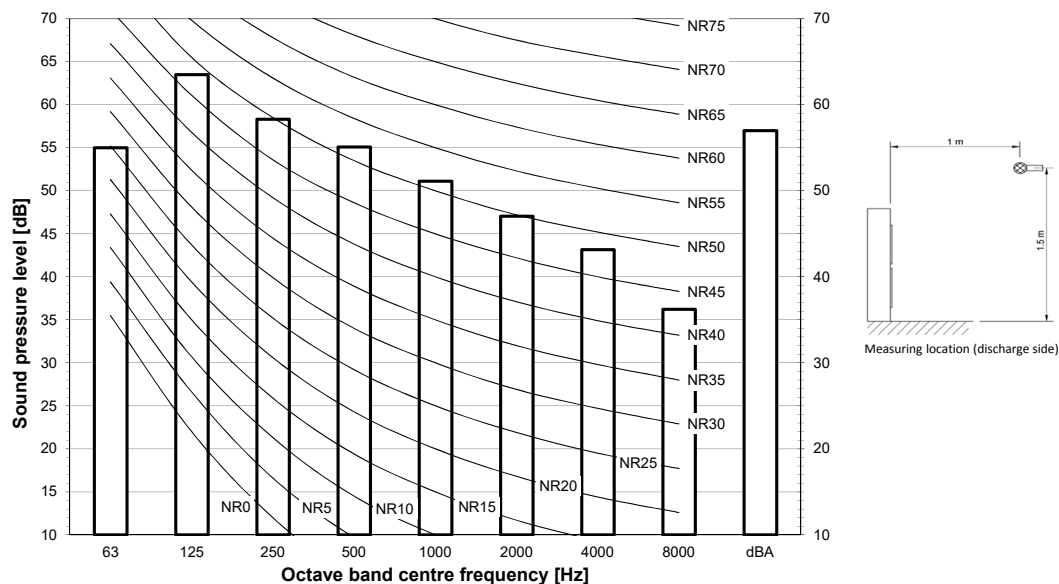


Notes

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

3D111294

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



Notes

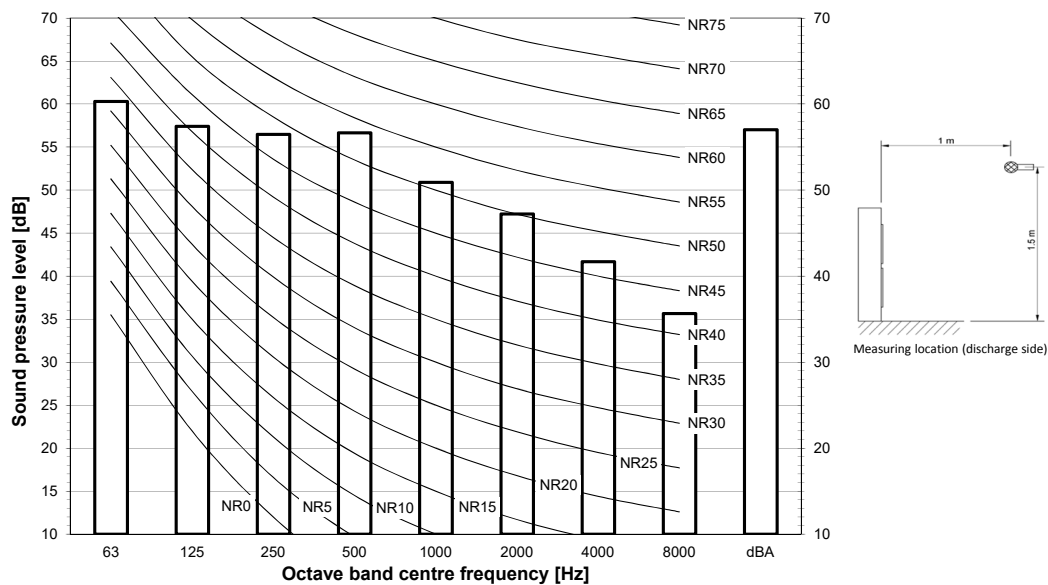
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D111295

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1



Notes

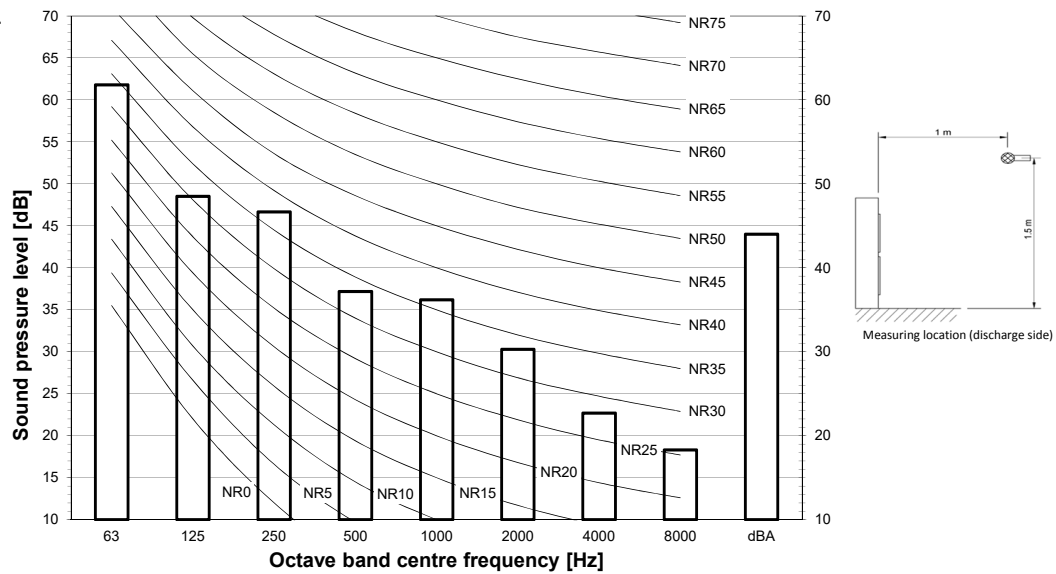
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D111296

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1

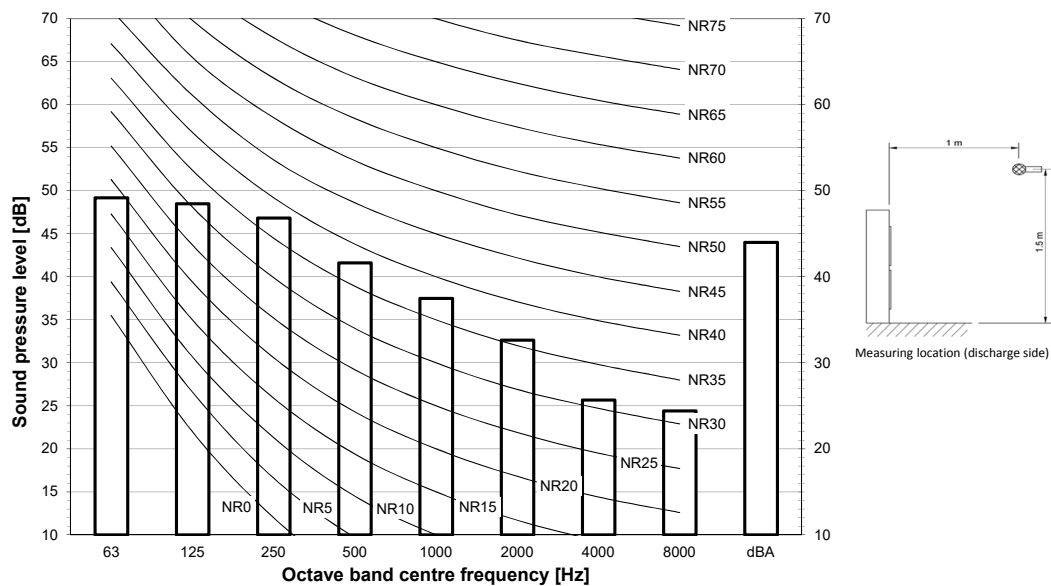


Notes

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

3D111316

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



Notes

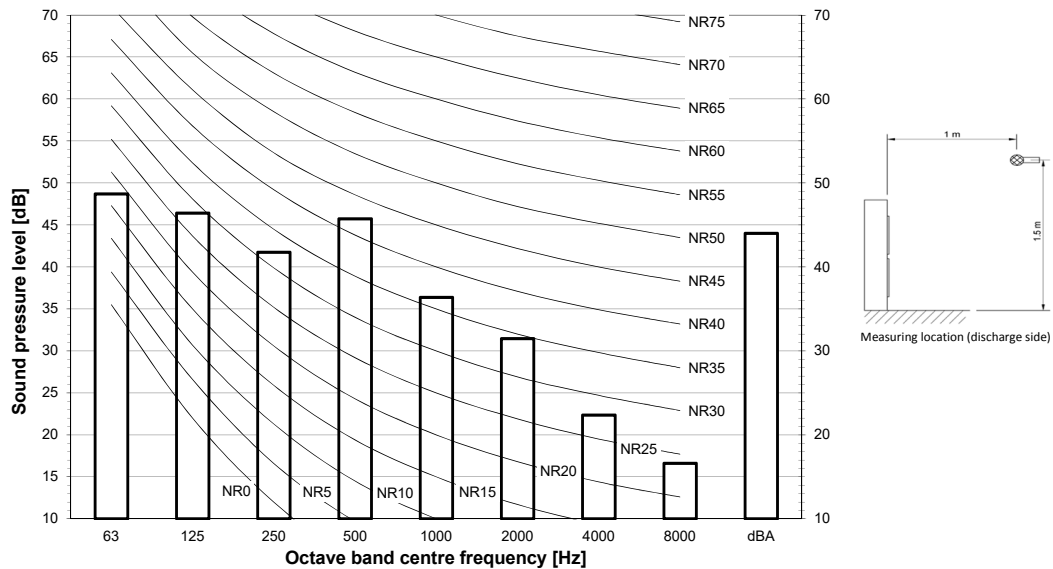
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D111317

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1



Notes

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

3D111318

12 Installation

12 - 1 Installation Method

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

12

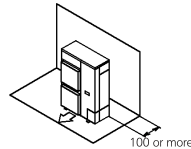
Installation service space

The measure of these values is "mm".

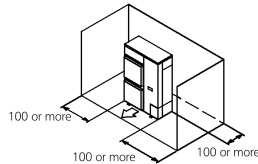
(A) When there are obstacles on suction sides.

• No obstacle above

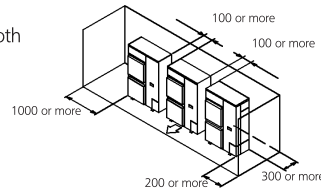
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

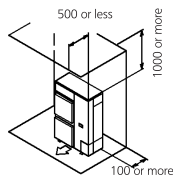


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

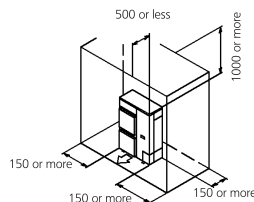


• Obstacle above, too.

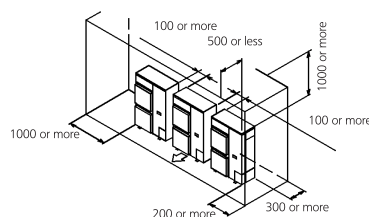
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



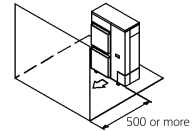
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



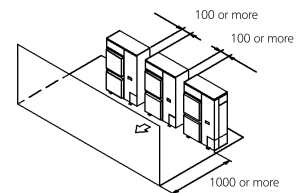
(B) When there are obstacles on discharge sides.

• No obstacle above

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

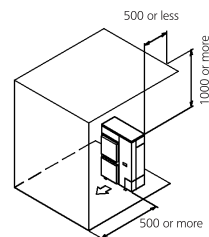


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

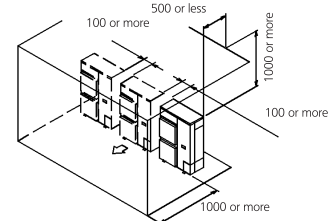


• Obstacle above, too

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



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



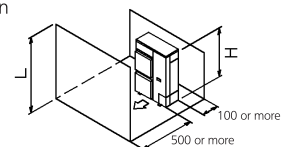
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

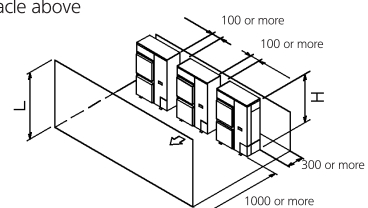
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
 - No obstacle above



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



3D069554

12 Installation

12 - 1 Installation Method

12

RZAG-MV1

RZAG-MY1

RZASG-MV1

RZASG-MY1

AZAS-MV1

AZAS-MY1

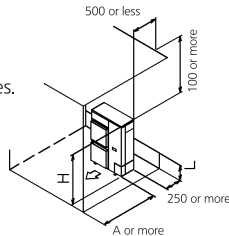
• Obstacle above, too

① Stand-alone installation (Note 2)

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

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

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



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

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

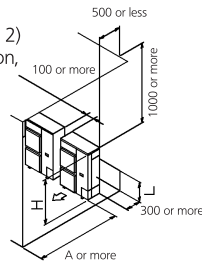
The relations between H, A and L are as follows.

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

Limit of series installation is 2 units.

Pattern 2

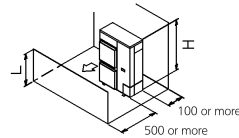
When the obstacle on the discharge side is lower than the unit ($L \leq H$)
(There is no limit for the height of obstructions on the suction side.)



• No obstacle above

① Stand-alone installation

- No obstacle above

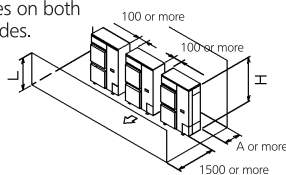


② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on both suction and discharge sides.

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

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



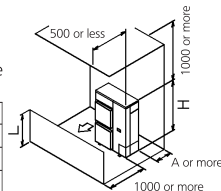
• obstacle above

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



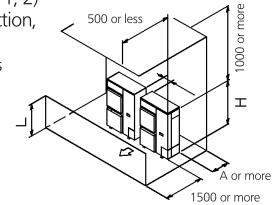
② Series installation (2 or more) (Note 1, 2)

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

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

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

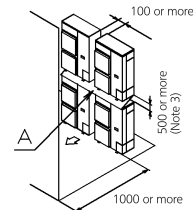
Limit of series installation is 2 units.



(D) Double-decker installation

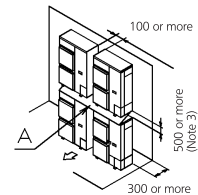
① Obstacle on the discharge side. (1)

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



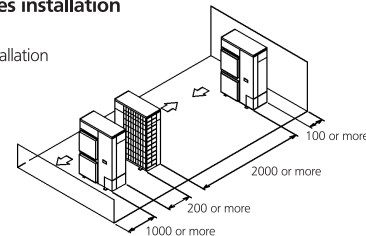
② Obstacle on the suction side. (1)

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



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

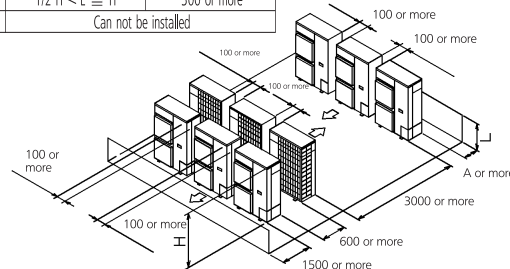
① One row of stand-alone installation



② Rows of series installation (2 or more)

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

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



NOTES

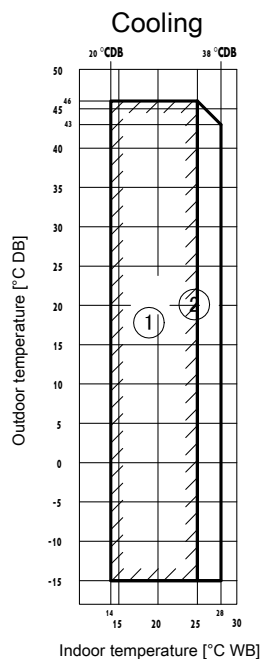
- In case of the sideways piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between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

3D069554

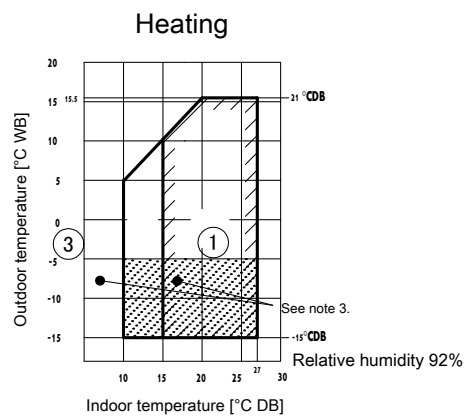
13 Operation range

13 - 1 Operation Range

RZASG-MV1
RZASG-MY1



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



Notes

1. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
2. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
3. In case of high humidity conditions (> 92%) at ambient temperatures of < -5°C, a RZAG model should be used instead to avoid freeze-up of the outdoor unit.

3D110021

14 Appropriate Indoors

14 - 1 Appropriate Indoors

14

AZAS-MV / AZAS-MY / RZASG-MV / RZASG-MY

ENER Lot 21

Recommended combinations

Sky Air		High Cassette				Thin cassette				2x2 cassette			Duct (medium ESP)				Concealed floor standing type			Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)							
Model		FCAHG71	FCAHG100	FCAHG125	FCAHG140	FCAG35	FCAG50	FCAG60	FCAG71	FCAG100	FCAG125	FCAG140	FFA35	FFA50	FFA60	FBA35	FBA50	FBA60	FBA71	FBA100	FBA125	FBA140	FNA35	FNA50	FNA60	FUA71	FUA100	FUA125	FAA71	FAA100	FDA125	
RZAG125M7V1B	RZAG125M7Y1B		P		4						P					4				P							P			P		
RZAG140M7V1B	RZAG140M7Y1B			P	4							P				4					P	P						P				
RZASG125M7V1B	RZASG125M7Y1B				4						P					4					P							P			P	
RZASG140M7V1B	RZASG140M7Y1B				4						P					4					P	P										
RZASG125MUV	RZASG125MUY				4						P					4					P							P			P	
RZASG140MUV	RZASG140MUY				4							P				4					P	P										
AZAS125M7V1B	AZAS125M7Y1B										P											P										
AZAS140M7V1B	AZAS140M7Y1B											P										P	P									
AZAS125MUV	AZAS125MUY										P											P										
AZAS140MUV	AZAS140MUY											P										P										

Sky Air		Floor standing type				Slim duct			Ceiling-suspended				Duct (medium ESP)						Floor standing			
		FVA71	FVA100	FVA125	FVA140	FDXM35	FDXM50	FDXM60	FHA35	FHA50	FHA60	FHA71	FHA100	FHA125	FHA140	ADEA35	ADEA50	ADEA60	ADEA71	ADEA100	ADEA125	AVA125
Model																						
RZAG125M7V1B	RZAG125M7Y1B			P									P									
RZAG140M7V1B	RZAG140M7Y1B				P									P								
RZASG125M7V1B	RZASG125M7Y1B			P									P									
RZASG140M7V1B	RZASG140M7Y1B				P									P								
RZASG125MUV	RZASG125MUY			P									P									
RZASG140MUV	RZASG140MUY				P									P								
AZAS125M7V1B	AZAS125M7Y1B																			P	P	
AZAS140M7V1B	AZAS140M7Y1B																					
AZAS125MUV	AZAS125MUY			P									P							P	P	
AZAS140MUV	AZAS140MUY				P									P								

P = Pair

3 = Triple

2 = Twin

4 = Double twin

NOTES

- ADEA*· can only be used in combination with ·AZAS*M*·.

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14 Appropriate Indoors

14 - 1 Appropriate Indoors

AZAS-MV / AZAS-MY / RZASG-MV / RZASG-MY

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
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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 -RZASG100MUV / RZASG100MUY- 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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Connectable to -AZAS100MUV / AZAS100MUY- and covered by -ENER Lot 10-

-	FCAG100	-	FBA100	-	-	FAA100	-	FVA100	-	FHA100	-	ADEA100
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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 -RZASG125MUV / RZASG125MUY- 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
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Connectable to -AZAS125MUV / AZAS125MUY- and covered by -ENER Lot 21-

-	FCAG125	-	FBA125	-	-	-	-	FVA125	-	FHA125	AVA125	ADEA125
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Connectable to -RZAG140M7V1B / RZAG140M7Y1B- and covered by -ENER Lot 21-

FCAHG140	FCAG35	FFA35	FBA35	FNA35	FUA71	FAA71	-	FVA71	FDXM35	FHA35	-	-
-	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 -RZASG140MUV / RZASG140MUY- 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	-	-

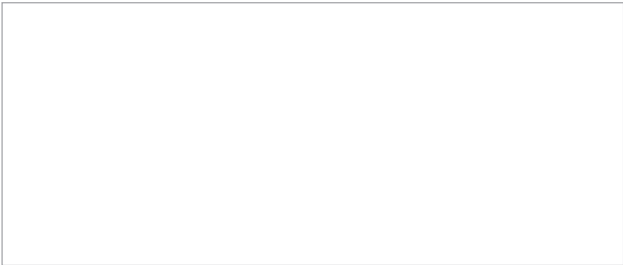
Connectable to -AZAS140M7V1B / AZAS140M7Y1B- and covered by -ENER Lot 21-

-	FCAG140	-	FBA140	-	-	-	-	-	-	-	-	-
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Connectable to -AZAS140MUV / AZAS140MUY- and covered by -ENER Lot 21-

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