



Sky Air Active-series
Air Conditioning
Technical Data
AZAS-MY1



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AZAS-MY1

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1 Features

1 - 1 AZAS-MY1

- › 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 heating mode down to -15°C and in cooling mode down to -5°C
- › Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- › Piping length up to 30m
- › Exclusively offered for pair applications



Inverter



Swing compressor



Seasonal efficiency - Smart use of energy



Replacement technology



Auto cooling-heating changeover



Night quiet mode

2 Specifications

2 - 1 Specifications

Technical Specifications					AZAS100MY1	AZAS125MY1	AZAS140MY1
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.	m ³ /min	69	71	76
		Heating	Nom.	m ³ /min	82		
		Partial	m ³ /min	-	55 (1)		
Fan motor	Quantity		1				
	Model		Brushless DC motor				
	Output	W		200			
	Drive		Direct drive				
Compressor	Quantity		1				
	Type		Hermetically sealed swing compressor				
Operation range	Cooling	Ambient	Min.	°CDB	-5		
			Max.	°CDB	46		
	Heating	Ambient	Min.	°CWB	-15		
			Max.	°CWB	15.5		
Sound power level	Cooling			70	71	73	
	Heating			-	71 (1)	73 (1)	
Sound pressure level	Cooling	Nom.	dB(A)	53			
	Heating	Nom.	dB(A)	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	9.52			
	Gas	Quantity		1			
		Type		Flare connection			
		OD	mm	15.9			
	Drain	Quantity		5			
		Type		Hole			
		OD	mm	26			
	Piping length	OU - IU	Min.	m	5		
			Max.	m	30		
		System	Equivalent	m	50		
			Chargeless	m	30		
	Additional refrigerant charge		kg/m	See installation manual			
	Level dif-	IU - OU	Max.	m	30.0		
ference	IU - IU		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: Tie-wraps;Quantity: 2;

Standard accessories: Installation manual;Quantity: 1;

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

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: LOT10 Energy Label;Quantity: 1;

2 Specifications

2 - 1 Specifications

2

Electrical Specifications		AZAS100MY1	AZAS125MY1	AZAS140MY1
Power supply	Name	Y1		
	Phase	3~		
	Frequency	Hz	50	
	Voltage	V	380-415	
	Voltage range	V	342	
V		457		
Current	Zmax List	Complies to EN61000-3-11		
	Minimum Ssc value	kVa	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 Remark indoor	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 + AZAS100MY1	FCAG125B + AZAS125MY1	FCAG140B + AZAS140MY1			
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	13.0		
	SEER		5.67	5.40	6.00		
	ηs,c	%	-	213	237		
	Annual energy consumption	kWh/a	586	1,345	1,300		
Space heating (Average climate)	Energy efficiency class		A	-	-		
	Capacity Pdesign	kW		6.00	7.80		
	SCOP/A		3.85	3.80	4.31		
	SCOPnet/A		3.85	3.80	4.31		
	ηs,h	%	-	149	169		
	Annual energy consumption	kWh/a	2,182	2,211	2,534		
	Required back up heating cap at design conditions	kW		0.00			
Space cooling	A Condi- tion (35°C	Pdc EERd	kW	9.50	12.10	13.00	
	- 27/19)	Power input	kW	3.26	2.29	2.63	
	B Condi- tion (30°C	Pdc EERd	kW	2.92	5.28	4.95	
	- 27/19)	Power input	kW	7.00	8.92	9.58	
	C Condi- tion (25°C	Pdc EERd	kW	4.61	4.03	4.50	
	- 27/19)	Power input	kW	1.52	2.21	2.13	
	D Condi- tion (20°C	Pdc EERd	kW	4.50	5.74	6.16	
	- 27/19)	Power input	kW	6.54	6.31	7.01	
		Power input	kW	0.69	0.91	0.88	
		Power input	kW	3.11	3.18	3.74	
		Power input	kW	9.38	9.82	10.84	
		Power input	kW	0.33	0.32	0.35	
	Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C		-10	
			Pdh (declared heating cap)	kW		6.00	7.80
		COPd (declared COP)		2.33	2.43	2.26	
		Power input	kW	2.58	2.47	3.44	
TBivalent		Tbiv (bivalent temperature)	°C		-10		
		Pdh (declared heating cap)	kW		6.00	7.80	
		COPd (declared COP)		2.33	2.43	2.26	
		Power input	kW	2.58	2.47	3.44	
		Pdh (declared heating cap)	kW	5.31	5.30	6.90	
		COPd (declared COP)		2.54	2.61	2.60	
Space heating (Average climate)	A Condi- tion (-7°C)	Power input	kW	2.09	2.03	2.65	
	B Condi- tion (2°C)	Pdh (declared heating cap)	kW		3.23	4.20	
		COPd (declared COP)		3.67	3.64	4.32	
		Power input	kW	0.88	0.89	0.97	
	C Condi- tion (7°C)	Pdh (declared heating cap)	kW	2.10	2.13	3.40	
		COPd (declared COP)		5.16	4.88	5.92	
		Power input	kW	0.41	0.44	0.57	
	D Con- dition (12°C)	Pdh (declared heating cap)	kW	2.50	2.55	3.99	
		COPd (declared COP)		6.42	6.24	7.26	
		Power input	kW	0.39	0.41	0.55	

2 Specifications

2 - 1 Specifications

Technical specifications					FCAG100B + AZAS100MY1	FCAG125B + AZAS125MY1	FCAG140B + AZAS140MY1
Power consumption in other than active mode	Crank-case 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	
	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)					-		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				FBA100A + AZAS100MY1	FBA125A + AZAS125MY1	FBA140A + AZAS140MY1	
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	13.0	
	SEER			5.25	4.85	5.50	
	η _{s,c}		%	-	191	217	
	Annual energy consumption		kWh/a	633	1,497	1,418	
Space heating (Average climate)	Energy efficiency class			A		-	
	Capacity	Pdesign	kW		6.00	7.80	
	SCOP/A			3.81	3.55	3.85	
	SCOPnet/A			3.81	3.55	3.85	
	η _{s,h}		%	-	139	151	
	Annual energy consumption		kWh/a	2,205	2,366	2,836	
	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	13.00	
		EERd		3.20	2.30	2.72	
	B Condition (30°C -27/19)	Pdc	kW	7.00	8.92	9.58	
		EERd		4.53	3.82	4.41	
	C Condition (25°C -27/19)	Pdc	kW	4.50	5.74	6.16	
		EERd		6.19	5.60	6.49	
	D Condition (20°C -27/19)	Pdc	kW	3.10	3.17	3.97	
		EERd		7.58	7.68	8.24	
	Power input				0.41	0.48	
	Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C		-10
			Pdh (declared heating cap)	kW	6.00		7.80
			COPd (declared COP)		2.42	2.45	2.06
Power input		kW	2.47	2.45	3.78		
TBivalent		Tbiv (bivalent temperature)		°C		-10	
		Pdh (declared heating cap)	kW	6.00		7.80	
		COPd (declared COP)		2.42	2.45	2.06	
Power input		kW	2.47	2.45	3.78		
A Condition (-7°C)		Pdh (declared heating cap)		kW	5.31	5.30	6.90
		COPd (declared COP)			2.66		2.46

2 Specifications

2 - 1 Specifications

2

Technical specifications				FBA100A + AZAS100MY1	FBA125A + AZAS125MY1	FBA140A + AZAS140MY1	
Space heating (Average climate)	A Con- dition (-7°C)	Power input	kW	1.99		2.81	
		B Condi- tion (2°C)	Pdh (declared heating cap) COPd (declared COP)	kW	3.23		4.20
	C Condi- tion (7°C)	Pdh (declared heating cap) COPd (declared COP)	kW	3.73	3.45	3.94	
			Power input	kW	0.87	0.94	1.07
		D Con- dition (12°C)	Pdh (declared heating cap) COPd (declared COP)	kW	2.26	2.27	3.50
	Power input			kW	4.78	4.28	4.98
	Power consump- tion in other than active mode	Crank- case heater mode	Cooling PCK Heating PCK	kW	0.47	0.53	0.70
				kW	2.57	2.66	4.10
		Off mode	Cooling POFF Heating POFF	kW	5.64	5.24	6.10
				kW	0.46	0.51	0.67
Standby mode		Cooling PSB Heating PSB	kW	0.000			
			kW	0.000			
Thermo- stat-off mode		Cooling PTO Heating PTO	kW	0.014			
			kW	0.014			
Indication if the heater is equipped with a supplementary heater (pair application)				-		No	
Supplementary heater (pair appli- cation)		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				FAA100B + AZAS100MY1	
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				5.25
	Annual energy consumption			kWh/a	633
Space heating (Average climate)	Energy efficiency class			A	
	Capacity Pdesign		kW	6.00	
	SCOP/A				3.81
	SCOPnet/A				3.81
	Annual energy consumption			kWh/a	2,205
	Required back up heating cap at design conditions			kW	0.00
Space cooling	A Condi- tion (35°C - 27/19)	Pdc EERd	kW	9.50	
				2.70	
	B Condi- tion (30°C - 27/19)	Pdc EERd	kW	3.52	
				7.00	
	C Condi- tion (25°C - 27/19)	Pdc EERd	kW	4.29	
				1.63	
	D Condi- tion (20°C - 27/19)	Pdc EERd	kW	4.50	
				6.05	
		Power input	kW	0.74	
				3.00	
	Power input	kW	9.03		
			0.33		

2 Specifications

2 - 1 Specifications

Technical specifications				FAA100B + AZAS100MY1
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10
		Pdh (declared heating cap)	kW	6.00
		COPd (declared COP)		2.29
		Power input	kW	2.63
	TBivalent	Tbiv (bivalent temperature)	°C	-10
		Pdh (declared heating cap)	kW	6.00
		COPd (declared COP)		2.29
		Power input	kW	2.63
	A Con- dition (-7°C)	Pdh (declared heating cap)	kW	5.31
		COPd (declared COP)		2.52
B Condi- tion (2°C)	Power input	kW	2.10	
	Pdh (declared heating cap)	kW	3.23	
Space heating (Average climate)	B Condi- tion (2°C)	COPd (declared COP)		3.64
		Power input	kW	0.89
	C Condi- tion (7°C)	Pdh (declared heating cap)	kW	2.12
		COPd (declared COP)		5.04
		Power input	kW	0.42
	D Con- dition (12°C)	Pdh (declared heating cap)	kW	2.52
		COPd (declared COP)		6.46
	Power input	kW	0.39	
Power consump- tion in other than active mode	Crank- case 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
	Thermo- stat-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
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

3

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

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AZAS-MV1

AZAS-MY1

Indoor	Outdoor	Power supply	Voltage range		Compressor			OFM		IFM			
					MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAG71BVEB	AZAS71M2V1B	50Hz ~ 220-240V	Minimum: ·198 V·	Maximum: ·264 V·	17,4	—	20	—	15	0,094	0,9	0,05	0,4
FBA71A2VEB	AZAS71M2V1B				17,5	—	20	—	15	0,094	0,9	0,07	0,5
FAA71BUV1B	AZAS71M2V1B				17,4	—	20	—	15	0,094	0,9	0,05	0,5
ADEA71A2VEB	AZAS71M2V1B				17,5	—	20	—	15	0,094	0,9	0,07	0,5
FCAG100BVEB	AZAS100M7V1B				21,5	—	25	—	19	0,2	1	0,12	0,7
FBA100A2VEB	AZAS100M7V1B				21,8	—	25	—	19	0,2	1	0,13	1
FAA100BUV1B	AZAS100M7V1B				21,7	—	25	—	19	0,2	1	0,06	0,9
ADEA100A2VEB	AZAS100M7V1B				21,8	—	25	—	19	0,2	1	0,13	1
FCAG125BVEB	AZAS125M7V1B				27,8	—	32	—	25	0,2	1	0,17	1
FBA125A2VEB	AZAS125M7V1B				28,3	—	32	—	25	0,2	1	0,19	1,5
ADEA125A2VEB	AZAS125M7V1B				28,3	—	32	—	25	0,2	1	0,19	1,5
FCAG140BVEB	AZAS140M7V1B				27,0	—	32	—	24	0,2	1	0,17	1
FBA140A2VEB	AZAS140M7V1B				27,6	—	32	—	24	0,2	1	0,19	1,5
FCAG100BVEB	AZAS100M7Y1B				3N~ 50Hz 380-415V	Minimum: ·342 V·	Maximum: ·456 V·	14,2	—	16	—	12	0,2
FBA100A2VEB	AZAS100M7Y1B	14,6	—	16				—	12	0,2	1	0,13	1
FAA100BUV1B	AZAS100M7Y1B	14,4	—	16				—	12	0,2	1	0,06	0,9
FCAG125BVEB	AZAS125M7Y1B	14,6	—	16				—	12	0,2	1	0,17	1
FBA125A2VEB	AZAS125M7Y1B	15,1	—	16				—	12	0,2	1	0,19	1,5
FCAG140BVEB	AZAS140M7Y1B	14,6	—	16				—	12	0,2	1	0,17	1
FBA140A2VEB	AZAS140M7Y1B	15,1	—	16				—	12	0,2	1	0,19	1,5

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4 Combination table

4 - 1 Combination Table

AZAS-MV1

AZAS-MY1

RZAG-MV1

RZAG-MY1

RZASG-MV1

RZASG-MY1

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

(*) : 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)											
	FCAG71HVEB	FCAG100HVEB	FCAG125HVEB	FCAG140HVEB	FCAG60VEB	FCAG80VEB	FCAG100VEB	FCAG125VEB	FCAG140VEB	FFAS602VEB	FFAS802VEB	FBAS602VEB	FBAS802VEB	FBAS1002VEB	FBAS1252VEB	FBAS1402VEB	FNA602VEB	FNA802VEB	FNA1002VEB	FNA1252VEB	FNA1402VEB	FUA71AVB9	FUA100AVB9	FUA125AVB9	FUA140AVB9	FAA100BAUV1B	FAA125BAUV1B	FDA125AVB9				
RZAG1M7V1B					2					2																						
RZAG100M7V1B					2					2																						
RZAG125M7V1B					4	2				4	2	4	2	4		2						4	2									
RZAG140M7V1B	2				4		2			4		4		4		2						4		2								
RZASG1M2V1B					2					2					2							2										
RZASG100M7V1B					2					2					2							2										
RZASG125M7V1B					4	2				4	2	4	2	4	2							4	2									
RZASG140M7V1B					4		2			4		4		4		2						4		2								
AZAS1M2V1B							2									2																
AZAS100M7V1B																																
AZAS125M7V1B																																
AZAS140M7V1B																																

Sky Air	Floor standing type				Slim duct			Ceiling-suspended				Duct (medium ESP)					
	FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	FDA35FY1B9	FDA60FY1B9	FDA80FY1B9	FHA35AVB9	FHA60AVB9	FHA80AVB9	FHA100AVB9	FHA125AVB9	FHA140AVB9	ADEA100A2VEB	ADEA125A2VEB	ADEA140A2VEB	
RZAG1M7V1B																	
RZAG100M7V1B																	
RZAG125M7V1B																	
RZAG140M7V1B	2																
RZASG1M2V1B																	
RZASG100M7V1B																	
RZASG125M7V1B																	
RZASG140M7V1B	2																
AZAS1M2V1B																	
AZAS100M7V1B																	
AZAS125M7V1B																	
AZAS140M7V1B																	

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)S8T
 Triple : KHRQ(M)S8H
 Double twin : KHRQ(M)S8T

- ADEA100A2VEB can only be used in combination with AZAS1M7V1B.

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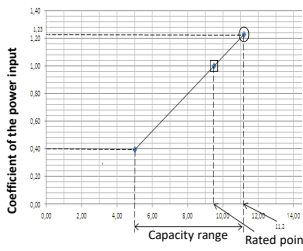
5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

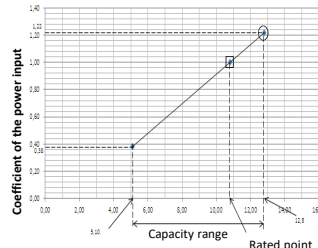
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AZAS100MV1

AZAS100MY1 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

Indoor	Outdoor temperature [°C DB]											
	25			30			35			40		
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	11.5	0.91	11.7	10.8	0.94	11.1	10.5	0.95	11.2	10.1	0.95
18.0	25	11.8	0.92	11.9	11.1	0.94	11.2	10.7	0.95	11.3	10.5	0.95
19.0	27	12.0	0.93	12.1	11.4	0.94	11.5	11.2	0.95	11.6	10.8	0.95
19.5	27	12.1	0.93	12.2	11.5	0.94	11.6	11.3	0.95	11.7	10.9	0.95
22.0	30	12.8	0.95	12.9	12.4	0.96	12.5	11.9	0.96	12.6	11.5	0.96
24.0	32	13.8	0.98	13.9	13.4	0.98	13.5	12.6	0.98	13.6	12.0	0.98

Indoor	Outdoor temperature [°C WB]											
	-15.0			-10.0			-5.0			0.0		
	TC	CPI	PI	TC	CPI	PI	TC	CPI	PI	TC	CPI	
16	8.88	0.93	9.45	9.99	10.3	1.02	10.4	1.05	10.9	1.12	11.8	
18	8.57	0.92	9.44	1.02	10.0	1.07	10.3	1.10	10.8	1.17	12.8	
20	8.56	1.01	9.43	1.07	10.0	1.11	10.3	1.14	10.8	1.22	13.6	
21	8.56	1.03	9.42	1.09	10.0	1.13	10.3	1.16	10.8	1.24	13.8	
22	8.55	1.04	9.42	1.10	10.0	1.14	10.3	1.18	10.8	1.26	13.8	
24	8.54	1.09	9.41	1.15	10.0	1.19	10.3	1.25	10.8	1.31	13.8	

- 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.

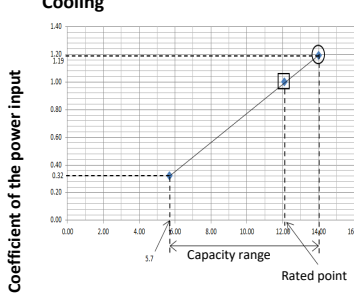
Pair	FCAG100B	FAA100A	FBA100A	ADEA100A
AFR (BF)	22.8 (0.17)	26.0 (0.10)	29.0 (0.03)	29.0 (0.03)

Pair	FCAG100B	FAA100A	FBA100A	ADEA100A
Cooling	2,92	3,52	2,97	2,97
Heating	2,92	2,85	2,26	2,33

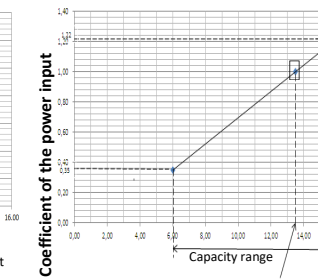
3D112149D

AZAS125MV1

AZAS125MY1 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

Indoor	Outdoor temperature [°C DB]												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
16.0	22	14.10	0.94	0.97	13.60	9.30	1.08	13.10	9.12	11.8	12.60	8.78	1.28
18.0	25	14.70	0.95	0.97	14.20	9.32	1.08	13.70	9.09	11.9	13.20	8.83	1.30
19.0	27	15.00	0.95	0.99	14.50	9.34	1.09	14.00	9.06	11.9	13.50	8.87	1.29
19.5	27	15.20	0.95	0.99	14.70	9.26	1.09	14.20	9.08	11.9	13.60	8.81	1.30
22.0	30	16.00	0.99	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	0.99	1.00	16.30	9.09	1.11	15.50	8.89	1.21	15.00	8.63	1.32

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

- 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	FCAG125B	AVA125A	FBA125A	ADEA125A
AFR (BF)	26.0 (0.21)	28.0 (0.14)	34.0 (0.06)	34.0 (0.06)

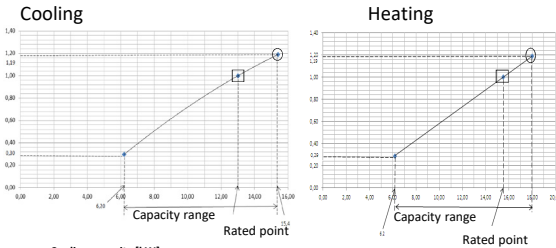
Pair	FCAG125B	AVA125A	FBA125A	ADEA125A
Cooling	5,28	5,11	5,26	5,33
Heating	3,15	3,64	3,37	3,47

3D112150C

5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

AZAS140MV1
AZAS140MY1



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]

Cooling capacity [kW]

Outdoor temperature [°C DB]	Outdoor temperature [°C DB]												
	25		30		35								
TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI		
16.0	22	18.5	1.047	0.98	18.9	10.25	1.06	1.44	13.03	1.18	13.5	0.95	1.28
18.0	25	19.2	1.035	0.98	19.6	10.21	1.08	15.1	13.08	1.18	14.5	0.91	1.30
19.0	27	19.6	1.043	0.98	19.0	10.19	1.08	15.4	13.98	1.19	14.8	0.91	1.30
19.5	27	19.7	1.049	0.98	19.1	10.16	1.10	15.6	13.00	1.19	15.0	0.95	1.30
20.0	30	17.8	1.037	0.98	17.0	10.16	1.10	15.4	13.9	1.21	15.5	0.95	1.31
24.0	32	18.4	1.020	1.00	17.7	10.00	1.11	17.0	9.67	1.22	16.4	0.47	1.32

SHC: Sensible heat capacity [kW]
 CPI: Coefficient of the power input
 PI: Power input [kW]
 compressor + indoor and outdoor fan motors

Heating capacity [kW]

Outdoor temperature [°C DB]	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	
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	1.06	13.5	1.09	13.9	1.11	18.0	1.19	19.4	1.25
21	11.5	1.00	12.7	1.08	13.5	1.11	13.9	1.12	18.0	1.21	19.4	1.28
22	11.5	1.02	12.7	1.09	13.5	1.12	13.9	1.15	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**
- 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

	FCAG140B	FBA140A
AFR	26.0	34.0
(BF)	(0.23)	(0.05)

Pair

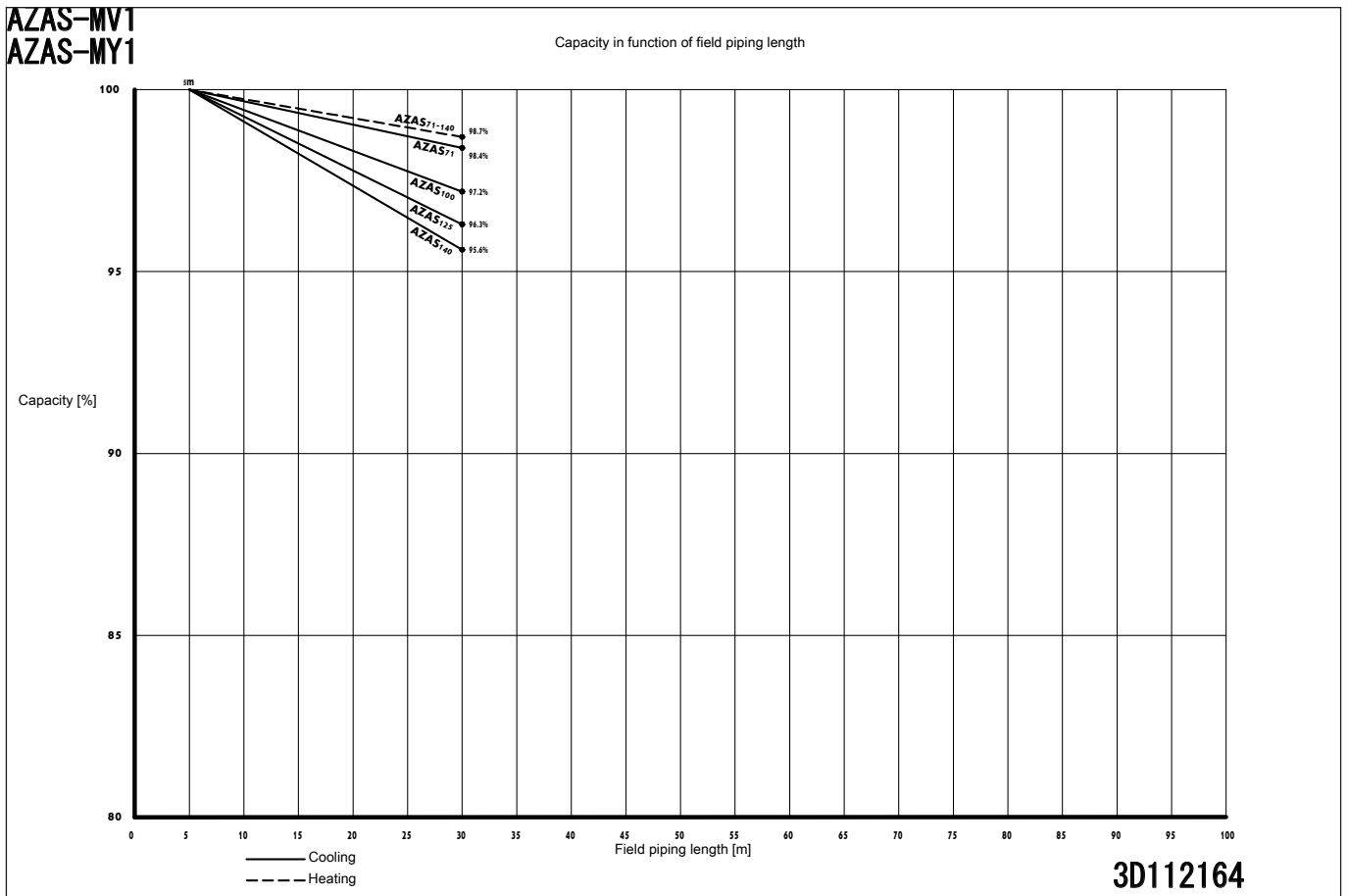
	FCAG140B	FBA140A
Cooling	4,47	4,45
Heating	4,18	3,89

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5 Capacity tables

5 - 2 Capacity Correction Factor

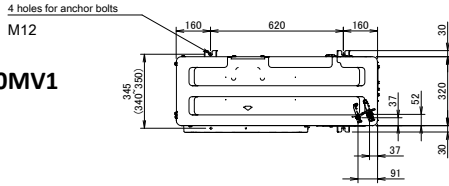
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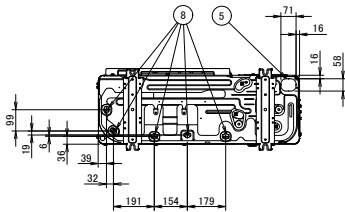
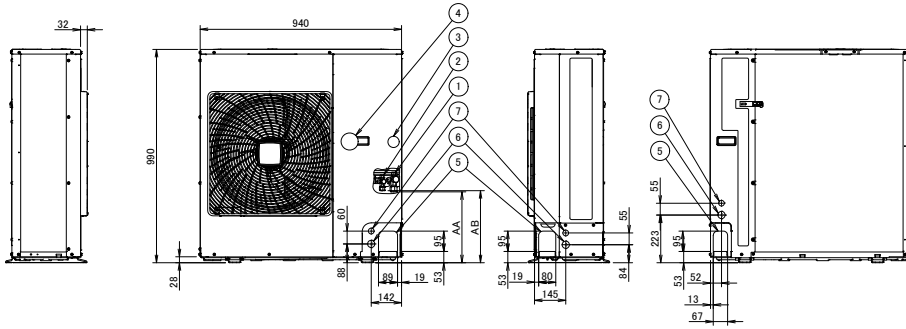
6 Dimensional drawings

6 - 1 Dimensional Drawings

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

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7 Centre of gravity

7 - 1 Centre of Gravity

AZAS100-140MV1

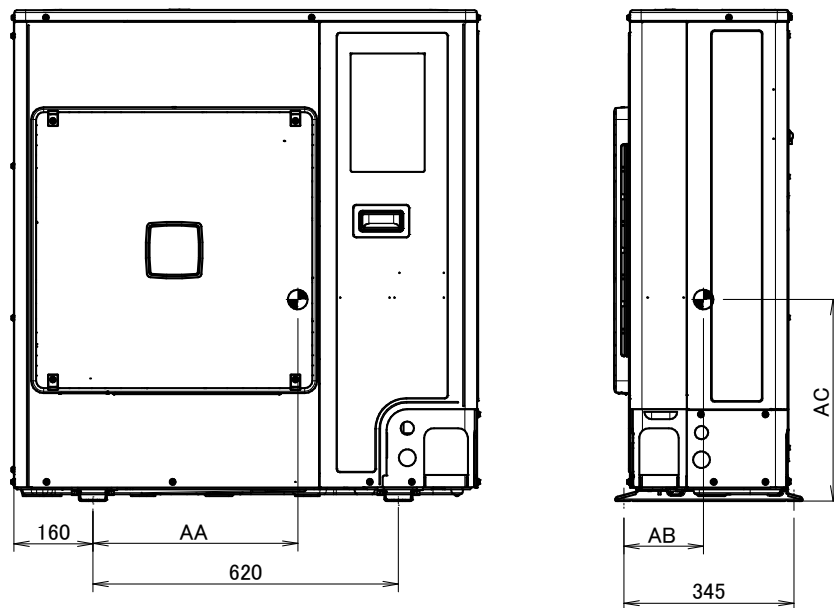
AZAS-MY1

RZAG71MV1

RZAG71MY1

RZASG100-140MV1

RZASG-MY1



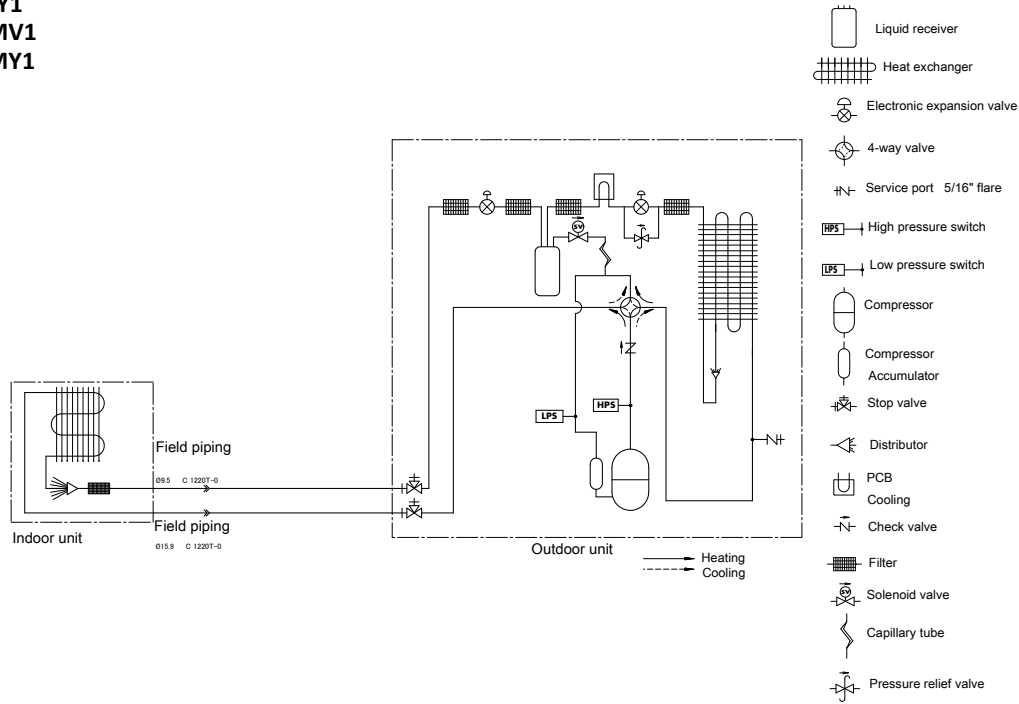
Model	AA	AB	AC
RZAG71M7V*	414	163	407
RZAG71M7Y*	432	137	407
RZASG100-125M7V* / AZAS100-125M7V*	425	181	422
RZASG100-125M7Y* / AZAS100-125M7Y*	414	156	417
RZASG140M7V* / AZAS140M7V*	414	161	423
RZASG140M7Y* / AZAS140M7Y*	416	151	418

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8 Piping diagrams

8 - 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.

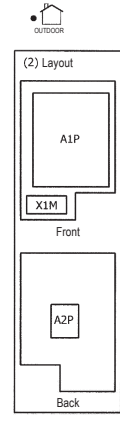
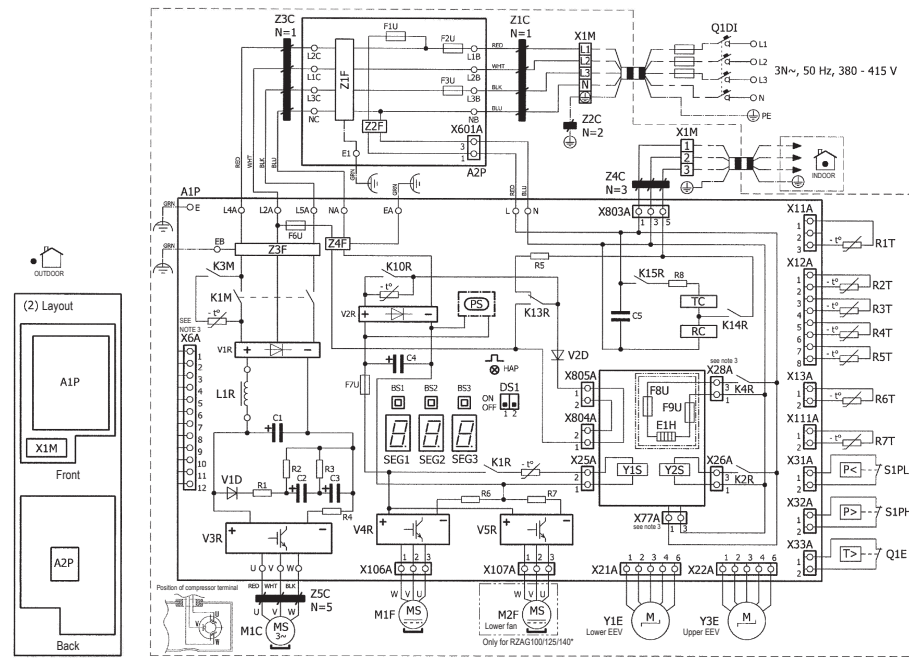
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9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

9

RZAG-MY1, RZASG-MY1, AZAS-MY1



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

- 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.

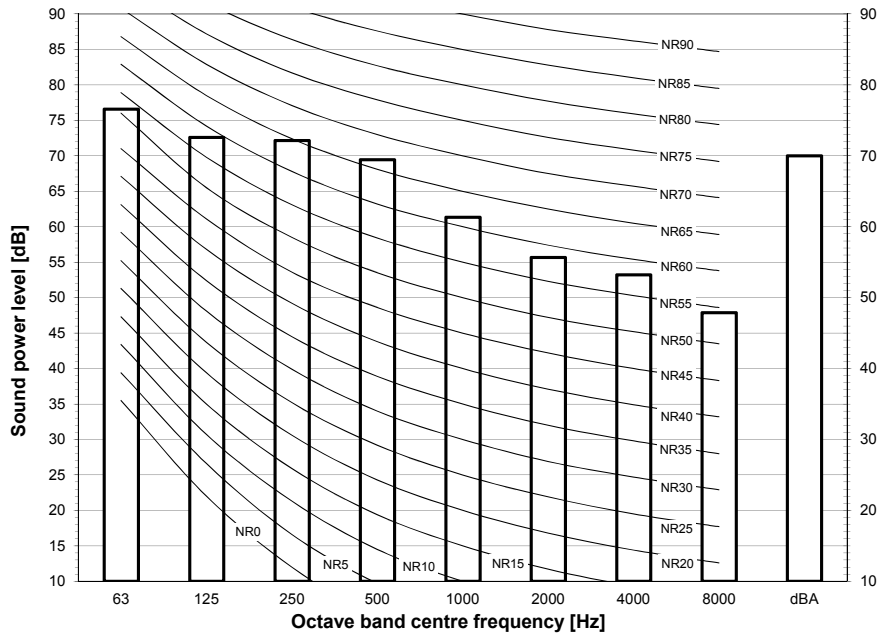
Part n°	Description
A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
BS1-BS3 (A1P)	Push-button switch
C1-C5 (A1P)	Capacitor
DS1 (A1P)	Dipswitch
E1H	Bottom plate heater
F1U (A2P)	Fuse T 6.3 A 250 V
F2U, F3U (A2P)	Fuse T 30 A 500 V
F6U (A1P)	Fuse T 6.3 A 250 V
F7U (A1P)	Fuse T 5 A 250 V
F8U, F9U	Fuse T 1 A 250 V
HAP (A1P)	Light-emitting diode (service monitor is green)
K1M, K3M (A1P)	Magnetic contactor
K1R (A1P)	Magnetic relay (Y1S)
K2R (A1P)	Magnetic relay (Y2S)
K4R (A1P)	Magnetic relay (E1H)
K10R K13R-K15R (A1P)	Magnetic relay
L1R	Reactor
M1C	Compressor motor
M1F, M2F	Fan motor
PS (A1P)	Switching power supply
Q1DI	Earth leakage circuit breaker (30mA)
Q1E	Overload protection
R1-R8 (A1P)	Resistor
R1T	Thermistor (air)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger)
R5T	Thermistor (heat exchanger middle)
R6T	Thermistor (liquid)
R7T	Thermistor (fin)
RC (A1P)	Signal receiver circuit
S1PH	High pressure switch
S1PL	Low pressure switch
SEG1-SEG3 (A1P)	7-segment display
TC (A1P)	Signal transmission circuit
V1D, V2D (A1P)	Diode module
V3R-V5R (A1P)	IGBT power module
X1M	Terminal strip
Y1E, Y3E	Electronic expansion valve
Y1S, Y2S	Solenoid valve (4-way valve)
Z1C-Z3C	Noise filter (ferrite core)
Z1F-Z4F (A1P-A2P)	Noise filter
L'A, L'B, NA, NBE*, U, V, W, X'A (A1P, A2P)	Connector

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10 Sound data

10 - 1 Sound Power Spectrum

AZAS100MV1
 AZAS100MY1
 RZASG100MV1
 RZASG100MY1

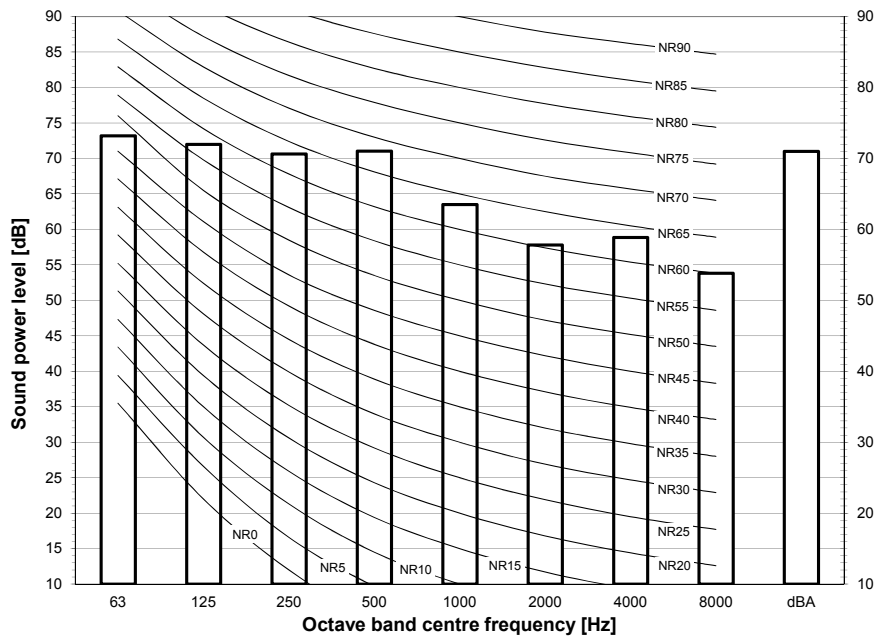


Notes

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

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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

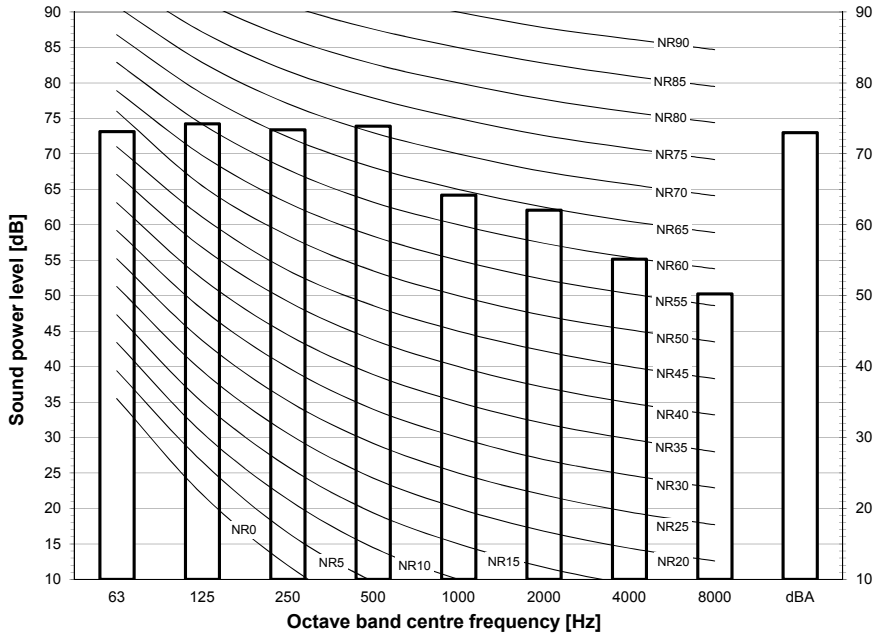
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10 Sound data

10 - 1 Sound Power Spectrum

10

AZAS140MV1
 AZAS140MY1
 RZASG140MV1
 RZASG140MY1

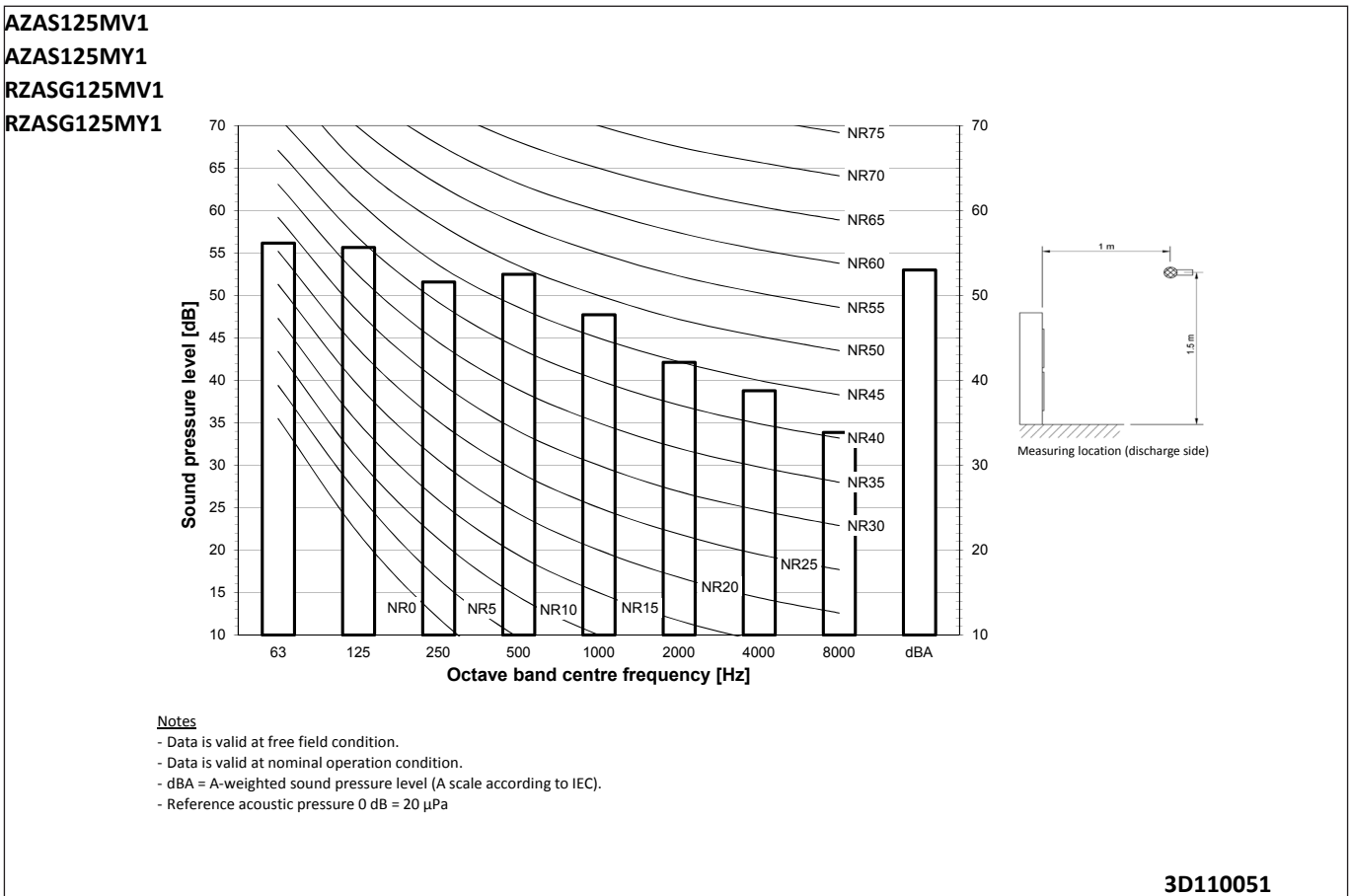
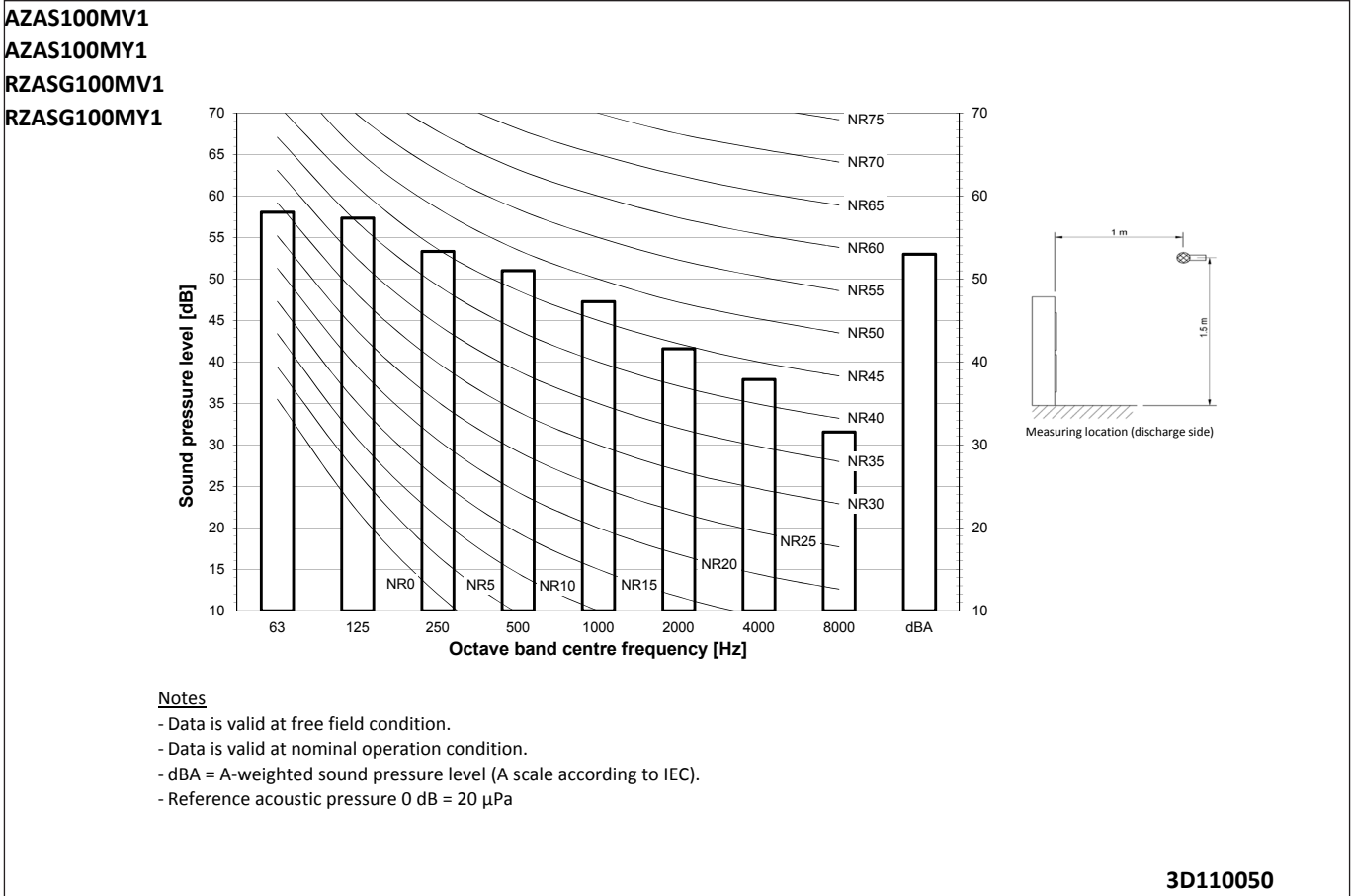


- Notes**
- dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = 10E-6μW/m²
 - Measured according to ISO 3744

3D110040

10 Sound data

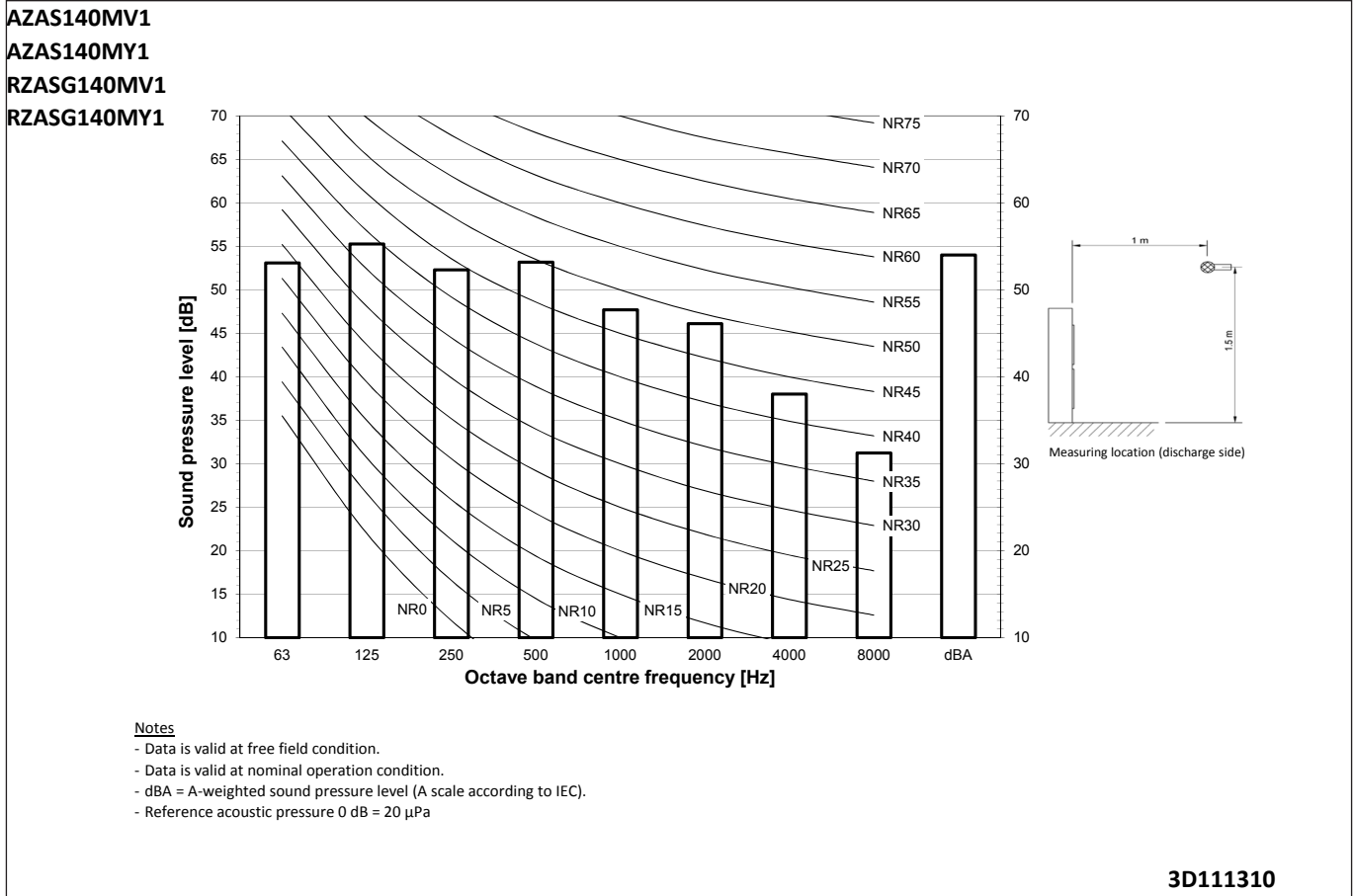
10 - 2 Sound Pressure Spectrum - Cooling



10 Sound data

10 - 2 Sound Pressure Spectrum - Cooling

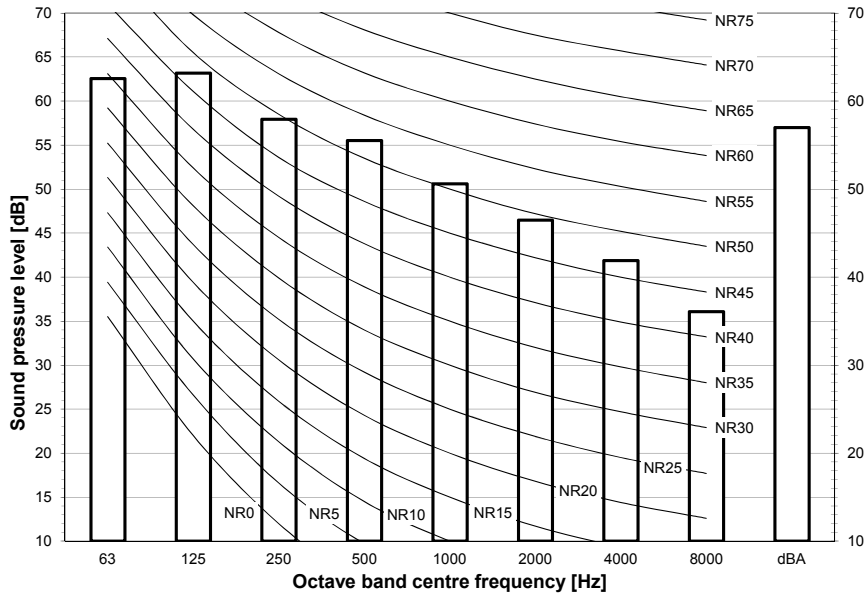
10



10 Sound data

10 - 3 Sound Pressure Spectrum - Heating

AZAS100MV1
 AZAS100MY1
 RZASG100MV1
 RZASG100MY1

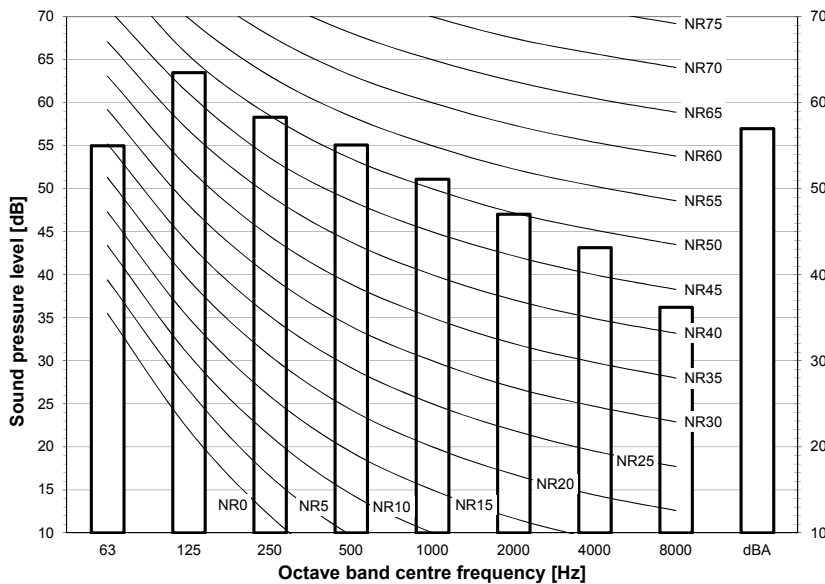


Notes

- 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 μPa

3D111294

AZAS125MV1
 AZAS125MY1
 RZASG125MV1
 RZASG125MY1



Notes

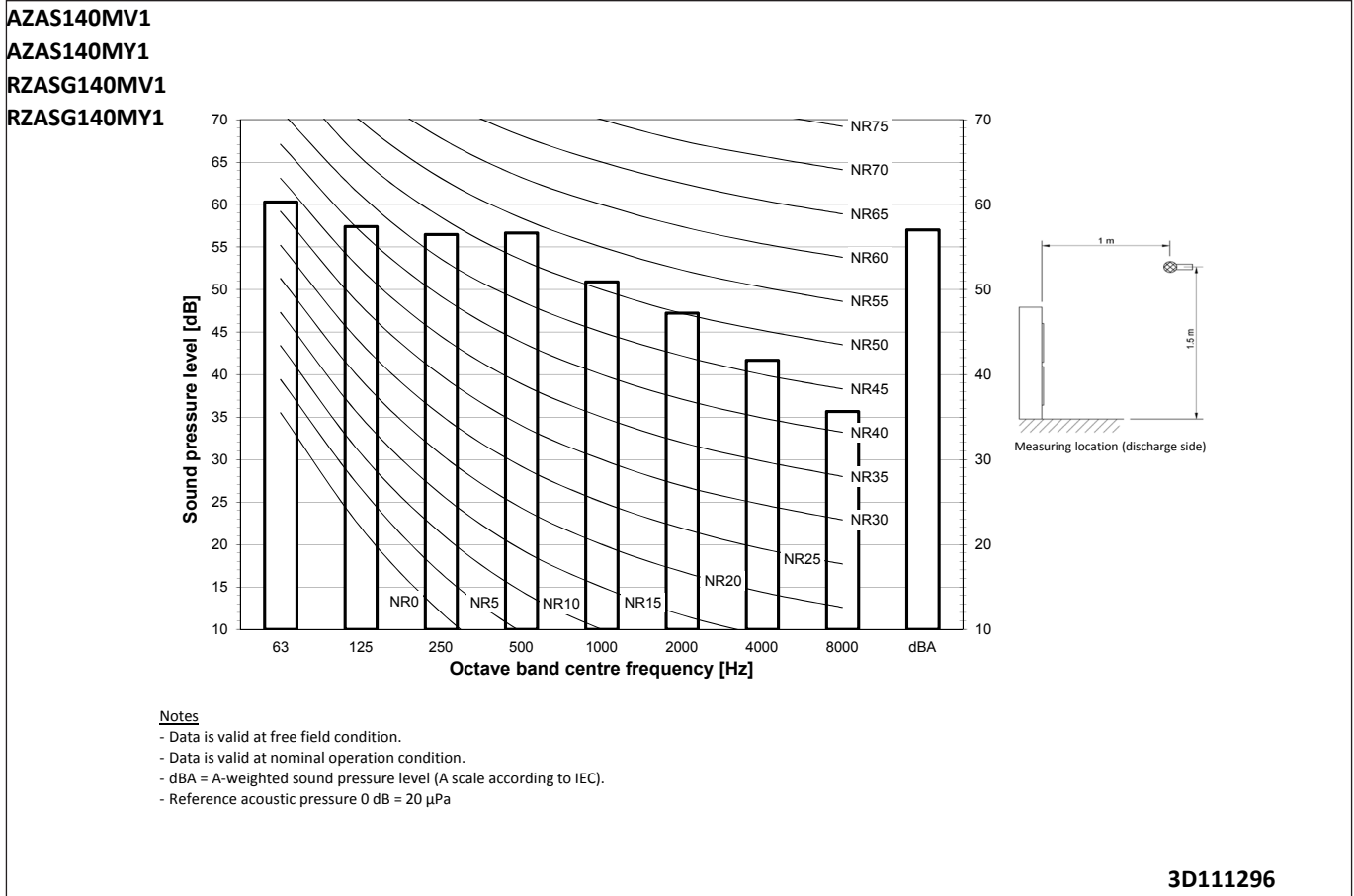
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μPa

3D111295

10 Sound data

10 - 3 Sound Pressure Spectrum - Heating

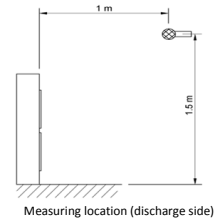
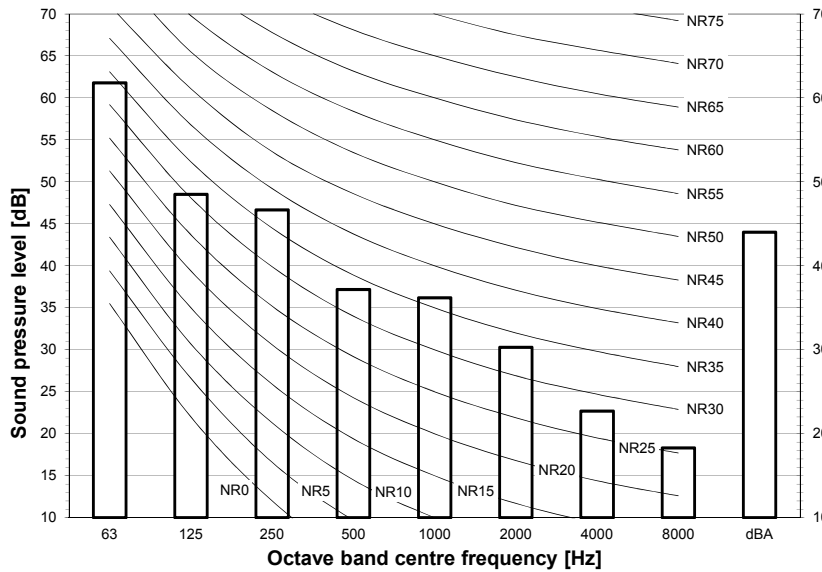
10



10 Sound data

10 - 4 Sound Pressure Spectrum Quiet Mode

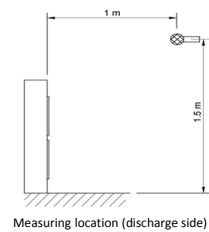
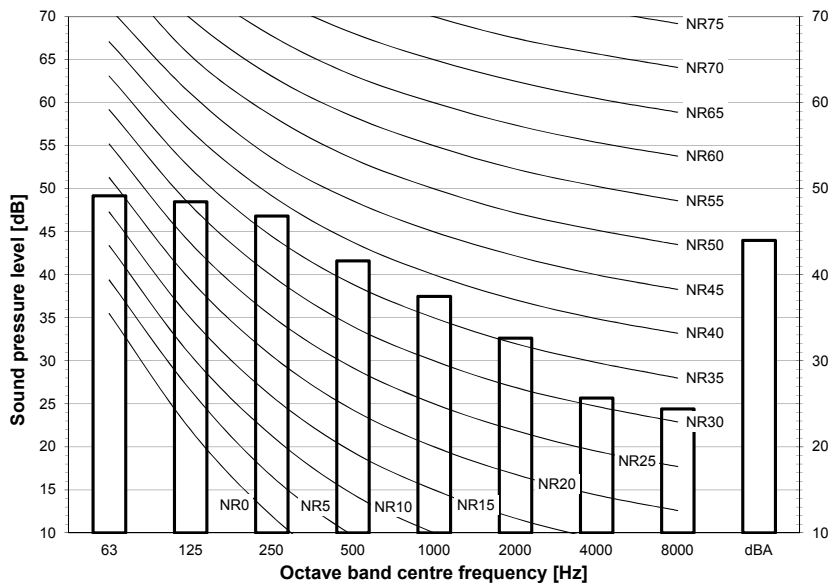
AZAS100MV1
 AZAS100MY1
 RZASG100MV1
 RZASG100MY1



- 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 μPa

3D111316

AZAS125MV1
 AZAS125MY1
 RZASG125MV1
 RZASG125MY1



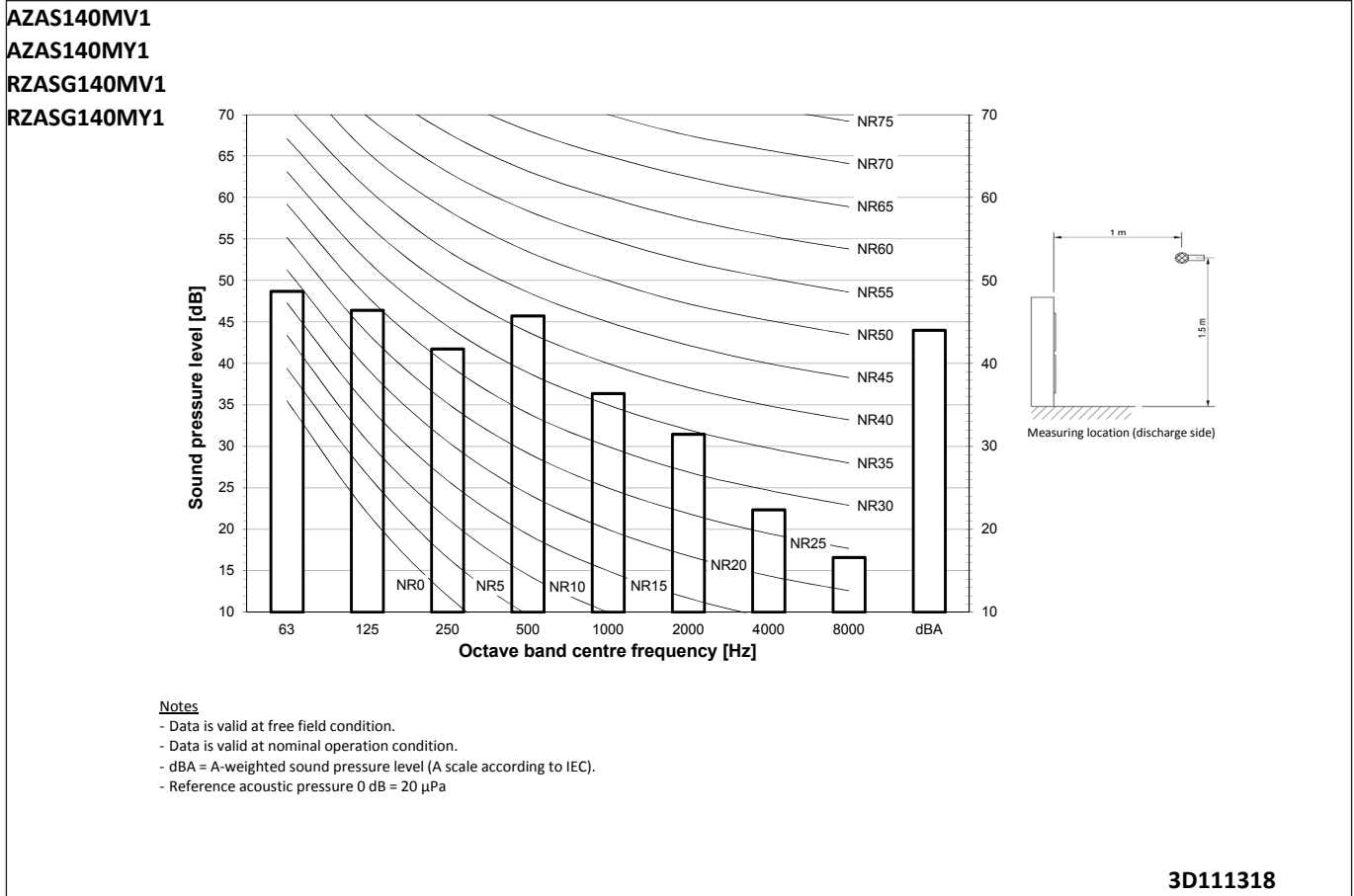
- Notes**
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 μPa

3D111317

10 Sound data

10 - 4 Sound Pressure Spectrum Quiet Mode

10



11 Installation

11 - 1 Installation Method

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

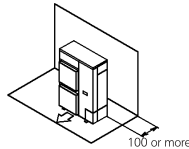
Installation service space

The measure of these values is "mm".

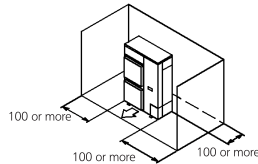
(A) When there are obstacles on suction sides.

● No obstacle above

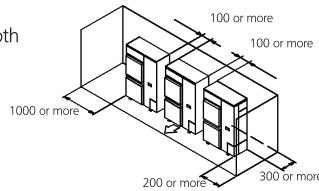
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

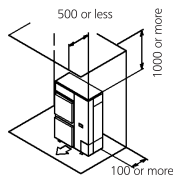


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

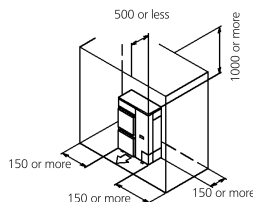


● Obstacle above, too.

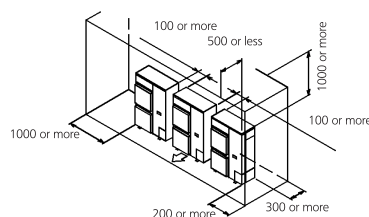
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



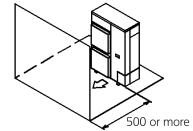
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



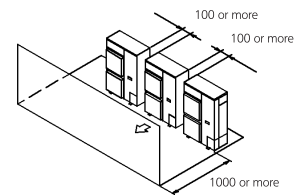
(B) When there are obstacles on discharge sides.

● No obstacle above

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

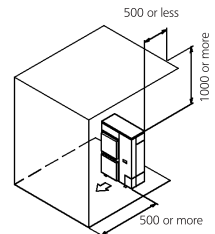


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

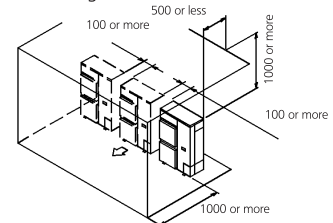


● Obstacle above, too

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



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



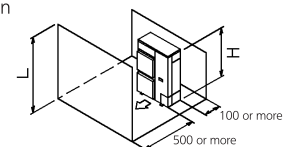
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

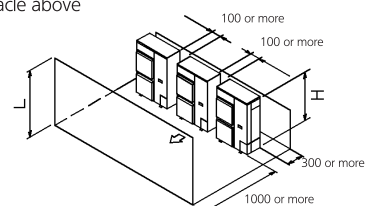
When the obstacles on the discharge side is higher than the unit. (L>H)
 (There is no limit for the height of obstructions on the suction side.)

● 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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11 Installation

11 - 1 Installation Method

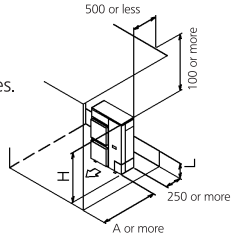
RZAG-MV1
 RZAG-MY1
 RZASG-MV1
 RZASG-MY1
 AZAS-MV1
 AZAS-MY1

● **Obstacle above, too**

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

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

	L	A
$L \leq H$	$L \leq 1/2 H$	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.

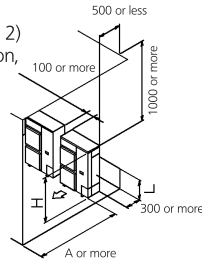
The relations between H, A and L are as follows.

	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.

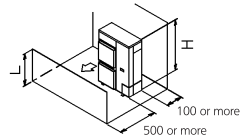
Pattern 2

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**

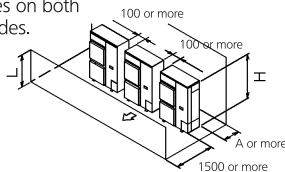
- ① Stand-alone installation
 - No obstacle above



- 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

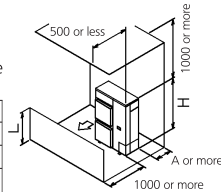


● **obstacle above**

- 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	

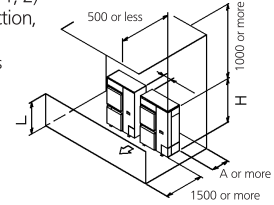


- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

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

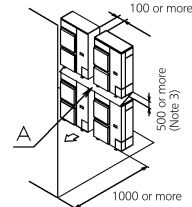
	L	A
$L \leq H$	$L \leq 1/2 H$	250 or more
	$1/2 H < L \leq H$	300 or more
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.

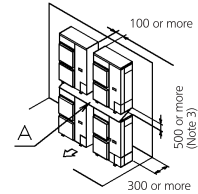


(D) Double-decker installation

- 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.

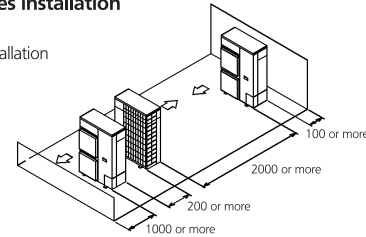


- ② Obstacle on the suction side. (1)
 - Do not exceed two levels for stacked installation.
 - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
 - Install the upper-level outdoor unit so that its bottom plate is a sufficient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



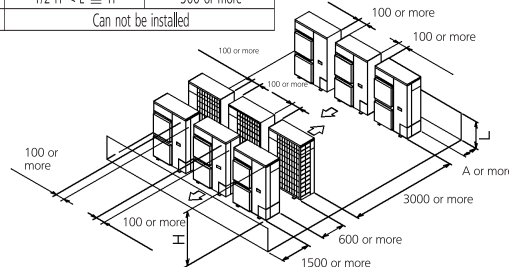
(E) Multiple rows of series installation (on the rooftop, etc.)

- 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

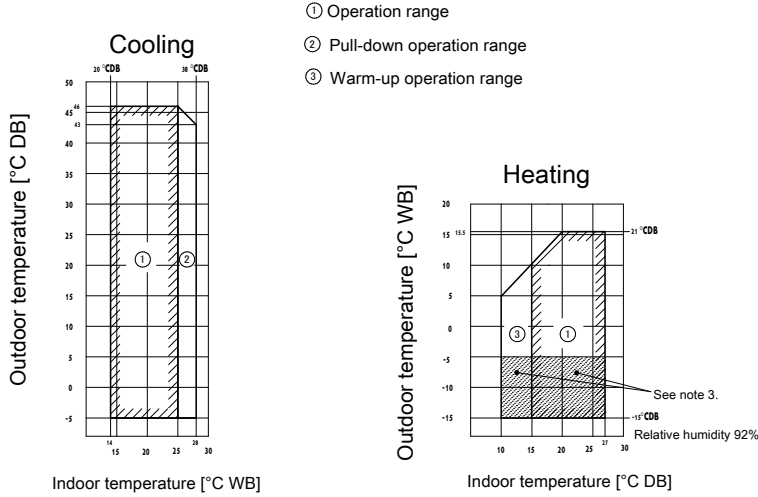
- In case of the sideways's piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between 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 reintake of discharged air.

12 Operation range

12 - 1 Operation Range

AZAS-MV1

AZAS-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.

3D111298

13 Appropriate Indoors

13 - 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	FCAG100	FCAG125	FCAG140	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										4						P										P
RZAG140M7V1B	RZAG140M7Y1B				P	4										4							P									
RZASG125M7V1B	RZASG125M7Y1B					4					P					4																P
RZASG140M7V1B	RZASG140M7Y1B					4					P					4																
AZAS125M7V1B	AZAS125M7Y1B											P																				
AZAS140M7V1B	AZAS140M7Y1B											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																		
RZASG140M7V1B	RZASG140M7Y1B				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
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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 -AZAS140M7V1B / AZAS140M7Y1B- and covered by -ENER Lot 21-

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

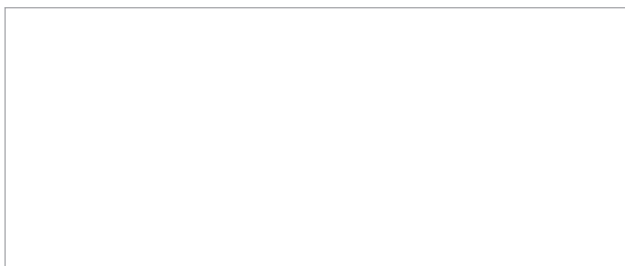
Connectable to -RZASG100M7V1B / RZASG100M7Y1B- and covered by -ENER Lot 10-

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

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

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