DAIKIN

Sky Air

Air Conditioning
Technical Data

AZAS-MY1

TABLE OF CONTENTS

AZAS-MY1

1 Features

Ideal solution for busy environments and small shops

- 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

Auto cooling-heating changeover

2 Specifications

2-1 Capacity and Power input				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
	A Condition (35°C - 27/19)	Pdc	kW	9.50	12.10	13.00
		EERd		3.26	2.29	2.63
		Power input	kW	2.92	5.28	4.95
	B Condition (30°C - 27/19)	Pdc	kW	7.00	8.92	9.58
		EERd		4.61	4.03	4.50
		Power input	kW	1.52	2.21	2.13
	C Condition (25°C - 27/19)	Pdc	kW	4.50	5.74	6.16
		EERd		6.54	6.31	7.01
		Power input	kW	0.69	0.91	0.88
	D Condition (20°C - 27/19)	Pdc	kW	3.11	3.18	3.74
		EERd		9.38	9.82	10.84
		Power input	kW	0.33	0.32	0.35
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		
	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
	A Condition (-7°C)	Pdh (declared heating cap)	kW	5.31	5.30	6.90
		COPd (declared COP)		2.54	2.61	2.60
		Power input	kW	2.09	2.03	2.65
	B Condition (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 Condition (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 Condition (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
Cooling	Cdc (Degradation cooling)			0.25		
Heating	Cdh (Degradation heating)			0.25		
Cooling function included				Yes		
Heating function included				Yes		
Average climate included				Yes		

2 Specifications

2-1 Capacity and Power input					FCAG100B/AZAS100MY1	FCAG125B/AZAS125MY1	FCAG140B/AZAS140MY1
Cold season included					No		
Warm season included					No		
Ecolabel logo					No		
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.012		
		Heating	POFF	kW	0.012		
	Standby mode	Cooling	PSB	kW	0.012		
		Heating	PSB	kW	0.012		
	Thermostat-off mode	Cooling	PTO	kW	0.000		
		Heating	PTO	kW	0.012		
Indication if the heater is equipped with a supplementary heater (pair application)					-	No	
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	-	0.0	

Notes

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

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

See separate drawing for operation range

See separate drawing for electrical data

2-2 Capacity and Power input				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
	ηs,c		%	-	191	217
	Annual energy consumption		kWh/a	633	1,497	1,418
	A Condition (35°C - 27/19)	Pdc	kW	9.50	12.10	13.00
		EERd		3.20	2.30	2.72
		Power input	kW	2.97	5.26	4.78
	B Condition (30°C - 27/19)	Pdc	kW	7.00	8.92	9.58
		EERd		4.53	3.82	4.41
		Power input	kW	1.54	2.33	2.17
	C Condition (25°C - 27/19)	Pdc	kW	4.50	5.74	6.16
		EERd		6.19	5.60	6.49
		Power input	kW	0.73	1.02	0.95
	D Condition (20°C - 27/19)	Pdc	kW	3.10	3.17	3.97
		EERd		7.58	7.68	8.24
		Power input	kW	0.41		0.48

2 Specifications

2-2 Capacity and Power input					FBA100A/AZAS100MY1	FBA125A/AZAS125MY1	FBA140A/AZAS140MY1
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
	ηs,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		
	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
		Power input		kW	1.99		2.81
	B Condition (2°C)	Pdh (declared heating cap)		kW	3.23		4.20
		COPd (declared COP)			3.73	3.45	3.94
		Power input		kW	0.87	0.94	1.07
	C Condition (7°C)	Pdh (declared heating cap)		kW	2.26	2.27	3.50
		COPd (declared COP)			4.78	4.28	4.98
		Power input		kW	0.47	0.53	0.70
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.57	2.66	4.10
		COPd (declared COP)			5.64	5.24	6.10
		Power input		kW	0.46	0.51	0.67
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		
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.014		
		Heating	POFF	kW	0.014		
	Standby mode	Cooling	PSB	kW	0.014		
		Heating	PSB	kW	0.014		
	Thermostat-off mode	Cooling	PTO	kW	0.000		
		Heating	PTO	kW	0.014		
Indication if the heater is equipped with a supplementary heater (pair application)					-	No	
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	-	0.0	

2 Specifications

Notes

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

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

See separate drawing for operation range

See separate drawing for electrical data

2-3 Capacity and Power input				FAA100A/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
	A Condition (35°C - 27/19)	Pdc	kW	9.50
		EERd		2.70
		Power input	kW	3.52
	B Condition (30°C - 27/19)	Pdc	kW	7.00
		EERd		4.29
		Power input	kW	1.63
	C Condition (25°C - 27/19)	Pdc	kW	4.50
		EERd		6.05
		Power input	kW	0.74
	D Condition (20°C - 27/19)	Pdc	kW	3.00
		EERd		9.03
		Power input	kW	0.33

2 Specifications

2-3 Capacity and Power input					FAA100A/AZAS100MY1
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
	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 Condition (-7°C)	Pdh (declared heating cap)		kW	5.31
		COPd (declared COP)			2.52
		Power input		kW	2.10
	B Condition (2°C)	Pdh (declared heating cap)		kW	3.23
		COPd (declared COP)			3.64
		Power input		kW	0.89
	C Condition (7°C)	Pdh (declared heating cap)		kW	2.12
		COPd (declared COP)			5.04
		Power input		kW	0.42
	D Condition (12°C)	Pdh (declared heating cap)		kW	2.52
		COPd (declared COP)			6.46
		Power input		kW	0.39
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
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.012
		Heating	POFF	kW	0.012
	Standby mode	Cooling	PSB	kW	0.012
		Heating	PSB	kW	0.012
	Thermostat-off mode	Cooling	PTO	kW	0.000
		Heating	PTO	kW	0.012

Notes

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

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

See separate drawing for operation range

See separate drawing for electrical data

2 Specifications

2-4 Technical Specifications					AZAS100MY1	AZAS125MY1	AZAS140MY1
Capacity control	Method				Inverter controlled		
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)		
Compressor	Quantity				1		
	Type				Hermetically sealed swing compressor		
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		
Fan motor	Quantity				1		
	Model				Brushless DC motor		
	Output			W	200		
	Drive				Direct drive		
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		
Operation range	Cooling	Ambient	Min.	°CDB	-5		
			Max.	°CDB	46		
	Heating	Ambient	Min.	°CWB	-15		
			Max.	°CWB	15.5		
Refrigerant	Type				R-32		
	Charge			kg	2.60		2.90
				TCO_2eq	1.76		1.96
	Control				Expansion valve (electronic type)		
	GWP				675		
	Circuits	Quantity			1		
Piping connections	Liquid	Quantity			1		
		Type			Flare connection		
		OD		mm	9.52		
	Gas	Quantity			1		
		Type			Flare connection		
		OD		mm	15.9		
	Drain	Quantity			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 difference	IU - OU	Max.	m	30.0		
		IU - IU	Max.	m	0.5		
	Heat insulation				Both liquid and gas pipes		

2 Specifications

2-4 Technical Specifications				AZAS100MY1	AZAS125MY1	AZAS140MY1
Refrigerant oil	Type			FW68DA		
	Charged volume		l	0.90		1.35
Defrost method				Reversed cycle		
Defrost control				Sensor for outdoor heat exchanger temperature		
Safety devices	Item	01		High pressure switch		
		02		Low pressure switch		
		03		Fan driver overload protector		
		04		Fuse		
		05		Compressor motor thermal protector		

Standard Accessories : Tie-wraps; Quantity : 2;

Standard Accessories : Installation manual; Quantity : 1;

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

Standard Accessories : General safety precautions; Quantity : 1;

Standard Accessories : LOT10 Energy Label; Quantity : 1;

2-5 Electrical Specifications			AZAS100MY1	AZAS125MY1	AZAS140MY1
Power supply	Name		Y1		
	Phase		3~		
	Frequency	Hz	50		
	Voltage	V	380-415		
Current - 50Hz	Maximum fuse amps (MFA)	A	16		
Current	Zmax	List	Complies to EN61000-3-11		
	Minimum Ssc value	kVa	Equipment complying with EN / IEC 61000-3-2 / (2) / 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		

Notes

(1) According to ENER Lot 21

(2) Ssc: Short-circuit power

(3) 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.

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.

3 Electrical data

3 - 1 Electrical Data

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

Symbols
MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]

MFA: Maximum Fuse Ampere [A]

MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]

KW: Fan motor rated output [kW]

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

   Earth leakage circuit breaker

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AZAS-MV1
AZAS-MY1

									Compressor		OFM		IFM	
Indoor	Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAG71BVEB	AZAS71M2V1B	50Hz ~ 220-240V	Minimum: ·198 V·	Maximum ·264 V·	17,4	–	20	–	15,4	0,094	0,9	0,054	0,4
FBA71A2VEB	AZAS71M2V1B				17,5	–	20	–	15,4	0,094	0,9	0,070	0,5
FAA71AUVEB	AZAS71M2V1B				17,4	–	20	–	15,4	0,094	0,9	0,048	0,4
ADEA71A2VEB	AZAS71M2V1B				17,5	–	20	–	15,4	0,094	0,9	0,070	0,5
FCAG100BVEB	AZAS100M7V1B				21,5	–	25	–	19,0	0,200	1,0	0,117	0,7
FBA100A2VEB	AZAS100M7V1B				21,8	–	25	–	19,0	0,200	1,0	0,127	1,0
FAA100AUVEB	AZAS100M7V1B				21,2	–	25	–	19,0	0,200	1,0	0,064	0,4
ADEA100A2VEB	AZAS100M7V1B				21,8	–	25	–	19,0	0,200	1,0	0,127	1,0
FCAG125BVEB	AZAS125M7V1B				27,8	–	32	–	24,7	0,200	1,0	0,168	1,0
FBA125A2VEB	AZAS125M7V1B				28,3	–	32	–	24,7	0,200	1,0	0,187	1,5
ADEA125A2VEB	AZAS125M7V1B				28,3	–	32	–	24,7	0,200	1,0	0,187	1,5
FCAG140BVEB	AZAS140M7V1B				27,0	–	32	–	24,0	0,200	1,0	0,168	1,0
FBA140A2VEB	AZAS140M7V1B				27,6	–	32	–	24,0	0,200	1,0	0,187	1,5
FCAG100BVEB	AZAS100M7Y1B	3N~ 50Hz 380-415V	Minimum: ·342 V·	Maximum ·456 V·	14,2	–	16	–	12,0	0,200	1,0	0,117	0,7
FBA100A2VEB	AZAS100M7Y1B				14,6	–	16	–	12,0	0,200	1,0	0,127	1,0
FAA100AUVEB	AZAS100M7Y1B				13,9	–	16	–	12,0	0,200	1,0	0,064	0,4
FCAG125BVEB	AZAS125M7Y1B				14,6	–	16	–	12,0	0,200	1,0	0,168	1,0
FBA125A2VEB	AZAS125M7Y1B				15,1	–	16	–	12,0	0,200	1,0	0,187	1,5
FCAG140BVEB	AZAS140M7Y1B				14,6	–	16	–	12,0	0,200	1,0	0,168	1,0
FBA140A2VEB	AZAS140M7Y1B				15,1	–	16	–	12,0	0,200	1,0	0,187	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

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

(*): See note ·1·.

Sky Air		High Cassette				Thin cassette						2x2 cassette			Duct (medium ESP)						Concealed floor standing type			Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)
Model		FCAHG71HVEB	FCAHG100HVEB	FCAHG125HVEB	FCAHG140HVEB	FCAG35BVEB	FCAG50BVEB	FCAG60BVEB	FCAG71BVEB	FCAG100BVEB	FCAG125BVEB	FCAG140BVEB	FFA35A2VEB9	FFA50A2VEB9	FFA60A2VEB9	FBA35A2VEB9	FBA50A2VEB9	FBA60A2VEB9	FBA71A2VEB9	FBA100A2VEB	FBA125A2VEB	FBA140A2VEB	FNA35A2VEB9	FNA50A2VEB9	FNA60A2VEB9	FUA71AVEB	FUA100AVEB	FUA125AVEB	FAA71AUVEB	FAA100AUVEB	FDA125A5VEB
RZAG71M7V1B	RZAG71M7Y1B	P				2			P				2			2			P				2			P			P		
RZAG100M7V1B	RZAG100M7Y1B		P			3	2			P			3	2		3	2			P			3	2			P			P	
RZAG125M7V1B	RZAG125M7Y1B			P		4	3	2			P		4	3	2	4	3	2			P		4	3	2			P			P
RZAG140M7V1B	RZAG140M7Y1B	2			P	4	3		2			P	4	3		4	3		2			P	4	3		2			2		
RZASG71M2V1B						2			P				2			2			P				2			P			P		
RZASG100M7V1B	RZASG100M7Y1B					3	2			P			3	2		3	2			P			3	2			P			P	
RZASG125M7V1B	RZASG125M7Y1B					4	3	2			P		4	3	2	4	3	2			P		4	3	2			P			P
RZASG140M7V1B	RZASG140M7Y1B					4	3		2			P	4	3		4	3		2			P	4	3		2			2		
AZAS71M2V1B									P										P										P		
AZAS100M7V1B	AZAS100M7Y1B									P										P										P	
AZAS125M7V1B	AZAS125M7Y1B										P										P										
AZAS140M7V1B	AZAS140M7Y1B											P										P									

Sky Air		Floor standing type				Slim duct			Ceiling-suspended							Duct (medium ESP)		
Model		FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	FDXM35F3V1B9	FDXM50F3V1B9	FDXM60F3V1B9	FHA35AVEB9	FHA50AVEB9	FHA60AVEB9	FHA71AVEB9	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			
AZAS71M2V1B																P		
AZAS100M7V1B	AZAS100M7Y1B																P	
AZAS125M7V1B	AZAS125M7Y1B																	P
AZAS140M7V1B	AZAS140M7Y1B																	

Notes

1. Maximum capacity is limited based on outdoor unit capacity.
2. When combining multiple indoor units, designate the unit whose remote controller is equipped with the most functions as the master unit.
3. For the selection of the correct refnet kit, required to install a multi-combination, refer to the option list.
   Twin : KHRQ(M)58T
   Triple : KHRQ(M)58H
   Double twin : KHRQ(M)58T
4. ·ADEA*A2VEB· can only be used in combination with ·AZAS*M*V1B·

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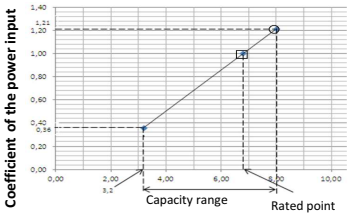
5 Capacity tables

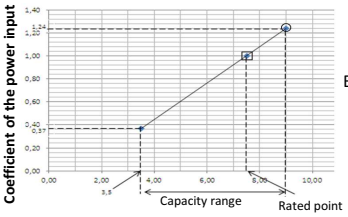
5 - 1 Cooling/Heating Capacity Tables

AZAS71MV1
AZAS71MY1

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

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

Heating

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

Notes

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

Pair

	FCAG71B	FAA71A	FBA71A	ADEA71A
AFR	15.3	18.0	18.0	18.0
(BF)	(0.14)	(0.16)	(0.13)	(0.13)

Pair

	FCAG71B	FAA71A	FBA71A	ADEA71A
Cooling	2,17	2,00	1,89	2,08
Heating	2,02	2,18	2,01	2,07

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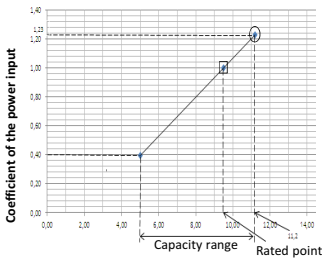
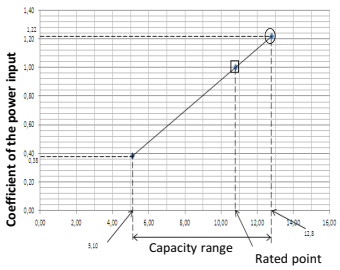
AZAS100MV1
AZAS100MY1

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

Cooling

Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	–	kW	kW	–	kW	kW	–	kW	kW	–
16.0	22	11.2	7.61	1.01	10.8	7.44	1.11	10.5	7.29	1.22	10.1	7.09	1.32
18.0	25	11.8	7.59	1.01	11.4	7.49	1.12	11.0	7.27	1.23	10.5	7.09	1.33
19.0	27	12.0	7.57	1.02	11.6	7.44	1.12	**11.2**	**7.26**	**1.23**	10.8	7.04	1.33
19.5	27	12.1	7.59	1.02	11.7	7.37	1.13	11.4	7.34	1.23	10.9	7.04	1.34
22.0	30	12.8	7.52	1.02	12.4	7.36	1.13	11.9	7.16	1.24	11.5	7.03	1.35
24.0	32	13.3	7.42	1.03	12.9	7.27	1.14	12.4	7.06	1.25	12.0	6.91	1.36

Heating

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

Notes

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

Pair

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

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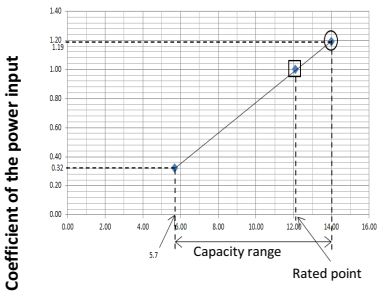
5 Capacity tables

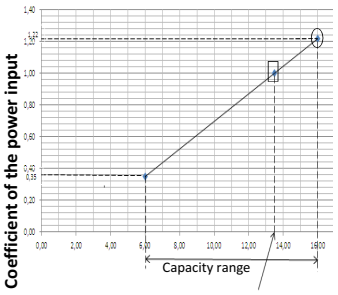
5 - 1 Cooling/Heating Capacity Tables

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

Cooling capacity [kW]

Cooling

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

Heating capacity [kW]

Heating

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

Notes

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

Pair

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

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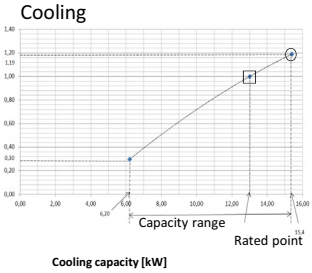
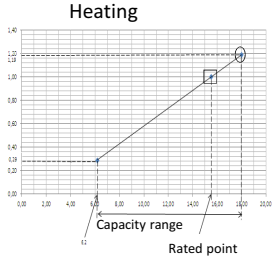
AZAS140MV1
AZAS140MY1

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]

Cooling

		Outdoor temperature [°C DB] 25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
°CWB	°CDB	kW	kW	–	kW	kW	–	kW	kW	–	kW	kW	–
16.0	22	15.5	10.47	0.98	14.9	10.25	1.06	14.4	10.03	1.18	13.9	9.69	1.28
18.0	25	16.2	10.55	0.98	15.6	10.21	1.09	15.1	10.01	1.19	14.5	9.71	1.30
19.0	27	16.6	10.43	0.99	16.0	10.18	1.09	**15.4**	**9.98**	**1.19**	14.8	9.76	1.30
19.5	27	16.7	10.49	0.99	16.1	10.16	1.10	15.6	10.00	1.19	15.0	9.66	1.30
22.0	30	17.6	10.37	0.99	17.0	10.16	1.10	16.4	9.93	1.21	15.8	9.60	1.31
24.0	32	18.4	10.20	1.00	17.7	10.00	1.11	17.0	9.67	1.22	16.4	9.47	1.32

Heating capacity [kW]

Heating

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

Pair

	FCAG140B	FBA140A
AFR (BF)	26.0 (0.23)	34.0 (0.06)

Pair

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

Notes

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

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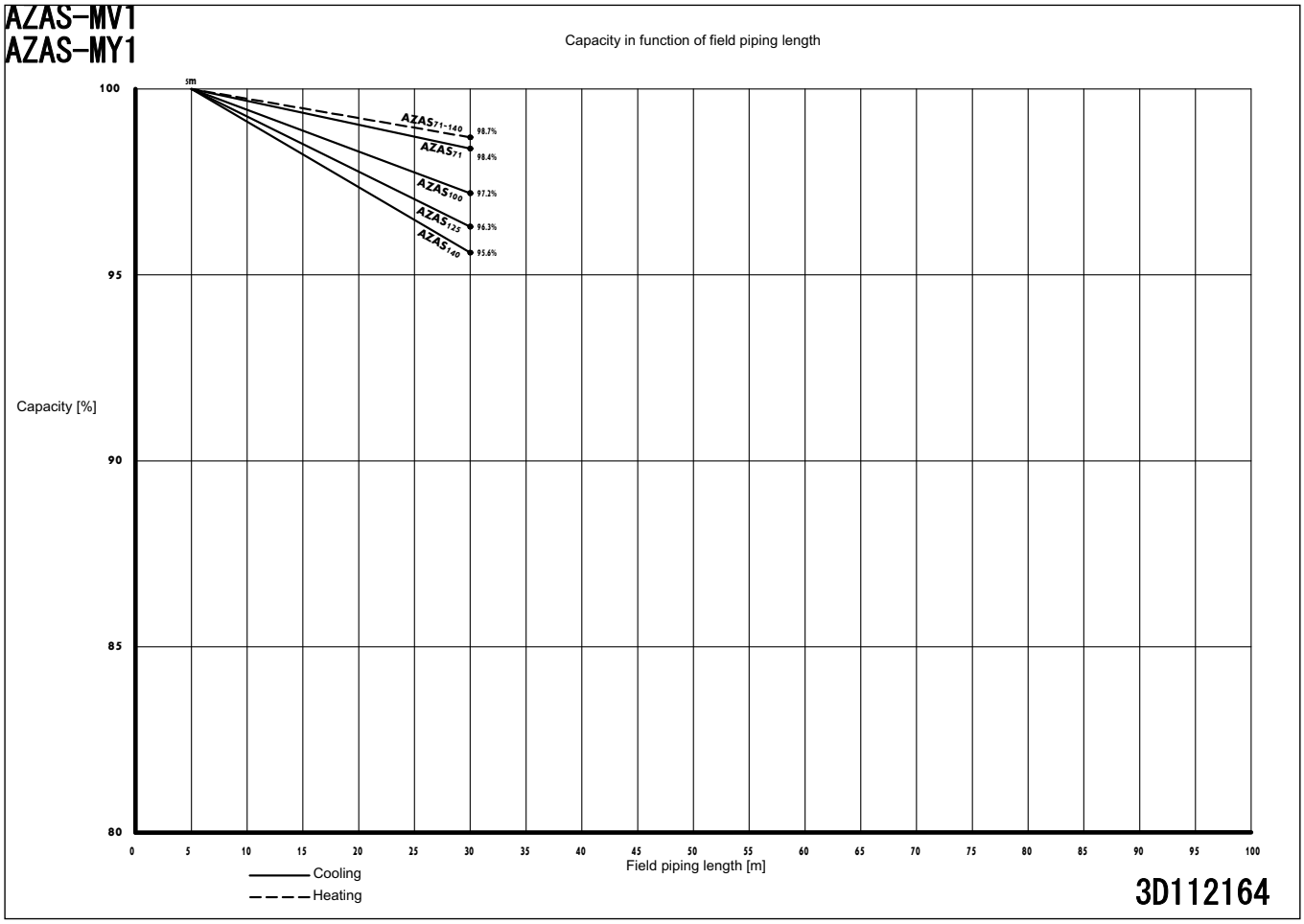
5 Capacity tables

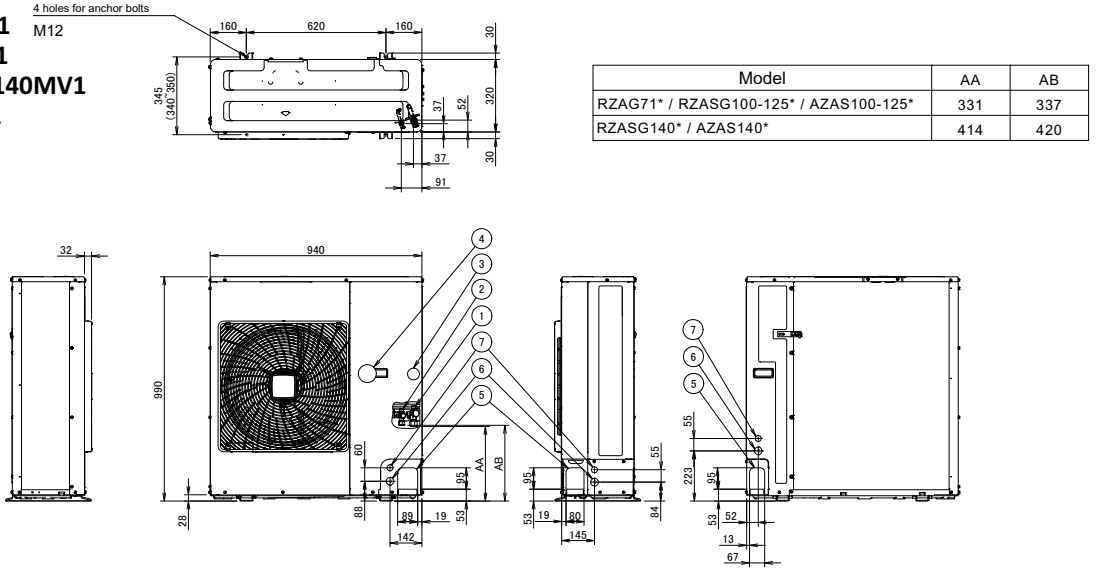
5 - 2 Capacity Correction Factor



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

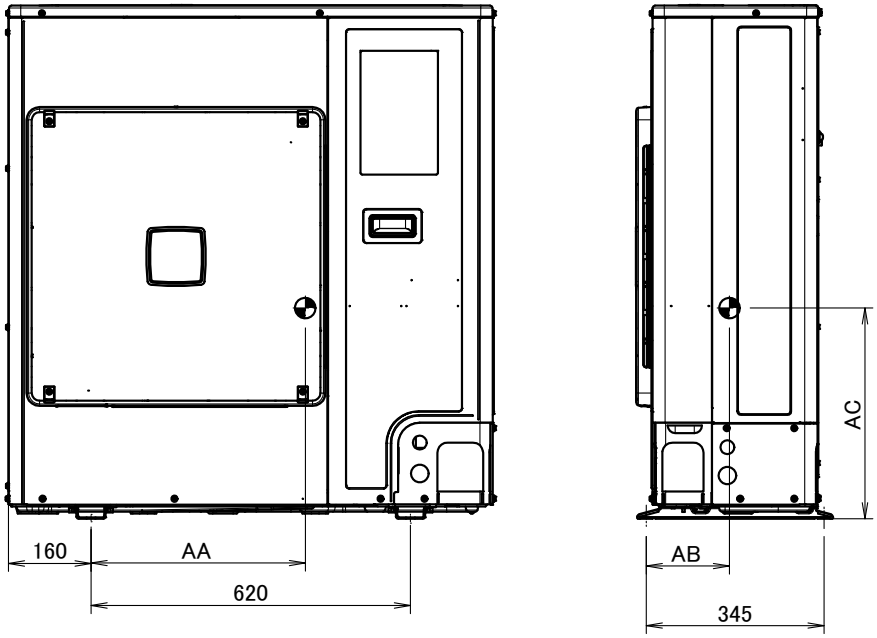
1. Gas pipe connection Ø15.9 flare
2. Liquid pipe connection Ø9.5 flare
3. Service port (in the unit)
4. Electronic connection and grounding terminal M5 (in the switch box)
5. Refrigerant piping intake
6. Power supply wiring intake (knockout hole Ø34)
7. Control wiring intake (knockout hole Ø27)
8. Drain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

3D110011

7 Centre of gravity

7 - 1 Centre of Gravity

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



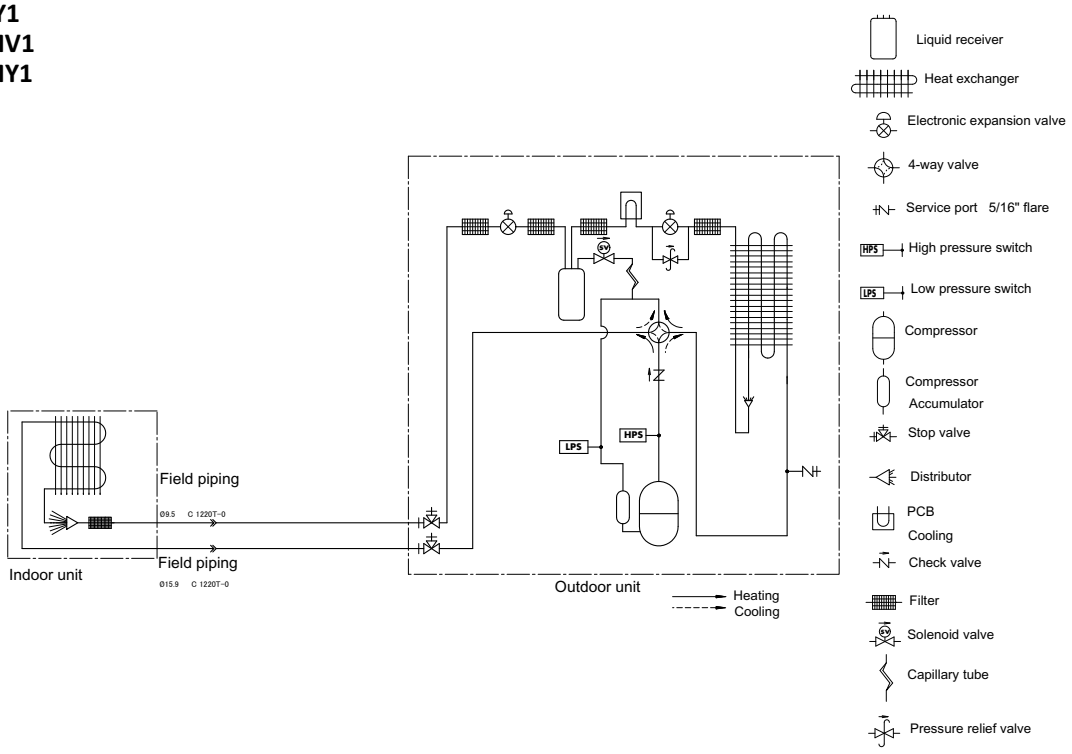
Model	AA	AB	AC
RZAG71M7V*	414	163	407
RZAG71M7Y*	432	137	407
RZASG100-125M7V* / AZAS100-125M7V*	425	181	422
RZASG100-125M7Y* / AZAS100-125M7Y*	414	156	417
RZASG140M7V* / AZAS140M7V*	414	161	423
RZASG140M7Y* / AZAS140M7Y*	416	151	418

4D110025

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.

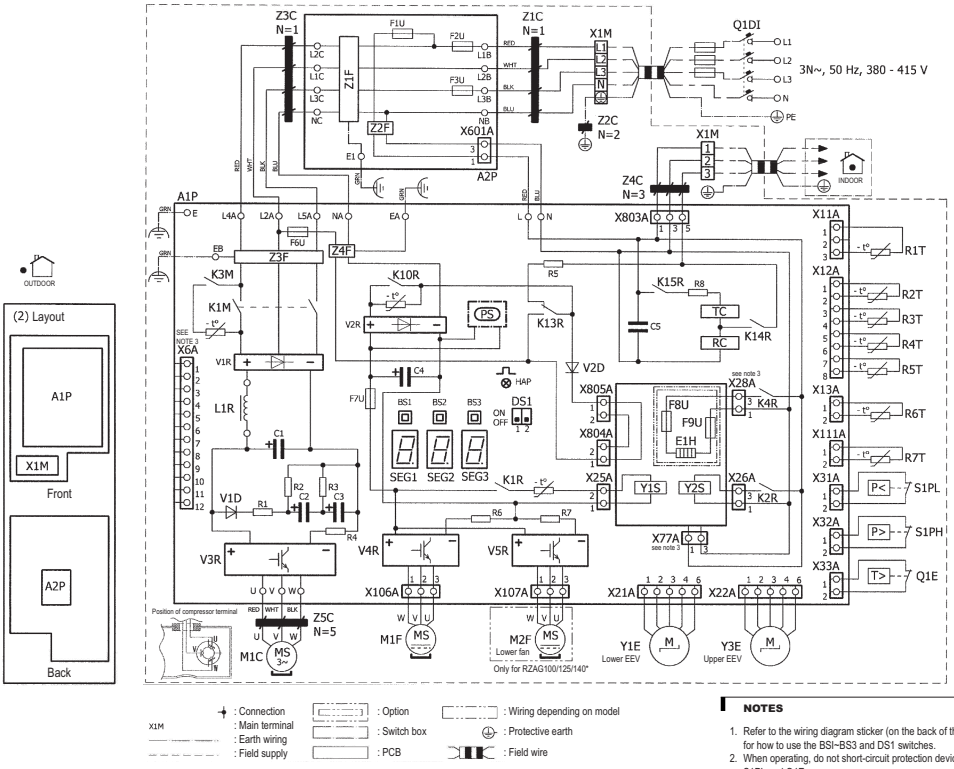
3D108855A

8

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

RZAG-MY1, RZASG-MY1, AZAS-MY1



LEGEND

: Field supply
* Optional

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 motors
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
V1R, V2R (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~Z5C		Noise filter (ferrite core)
Z1F~Z4F (A1P~A2P)		Noise filter
L*A, L*B, NA, NBE*, U, V, W, X*A (A1P, A2P)		Connector

NOTES

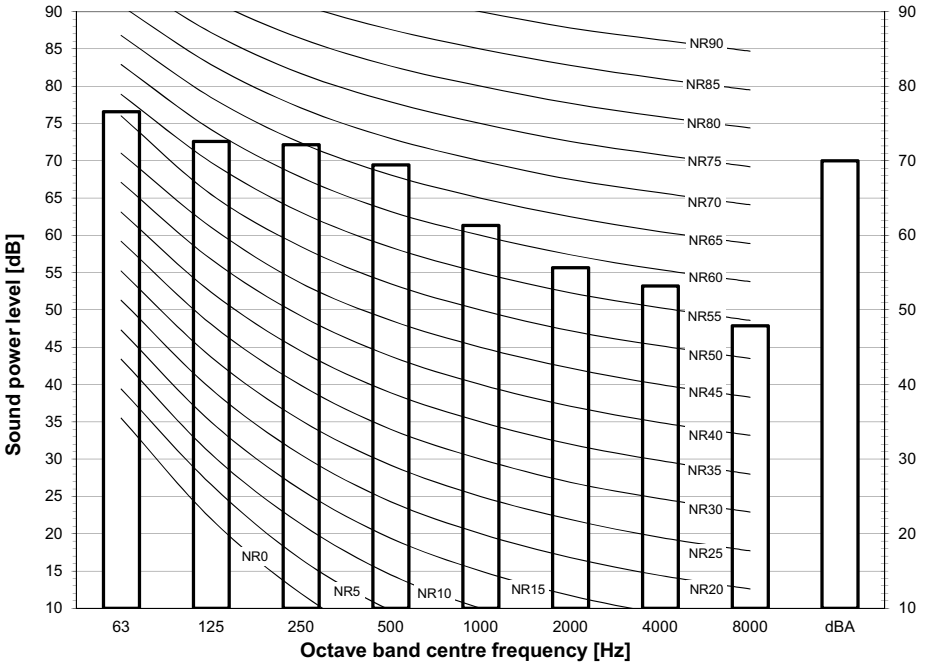
1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BSI~BS3 and DS1 switches.
2. When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
3. Refer to the combination table and the option manual for how to connect the wiring to X6A, X28A and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

4D109448

10 Sound data

10 - 1 Sound Power Spectrum

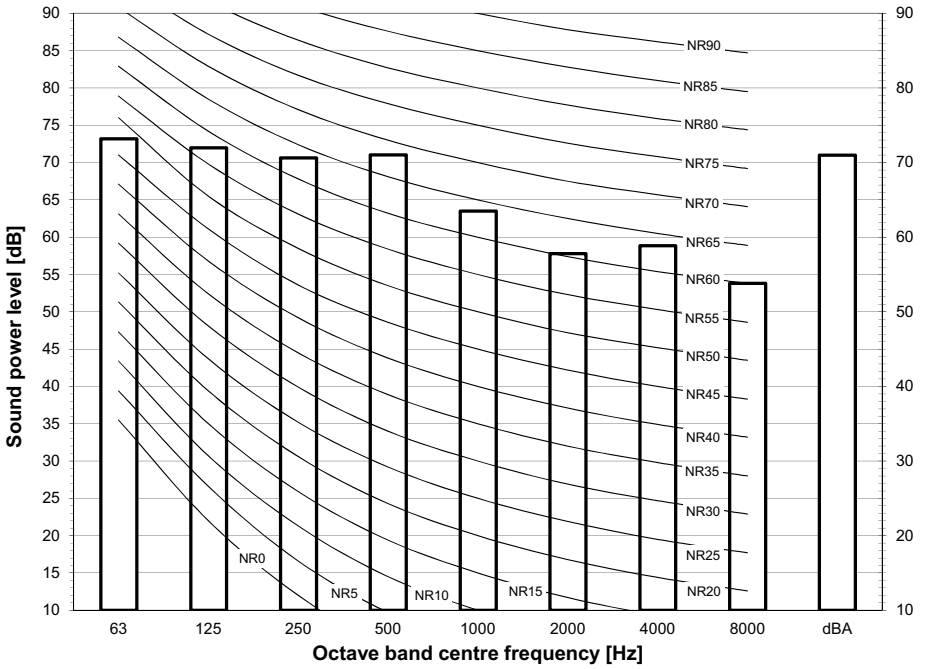
AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1



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

3D110038

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1



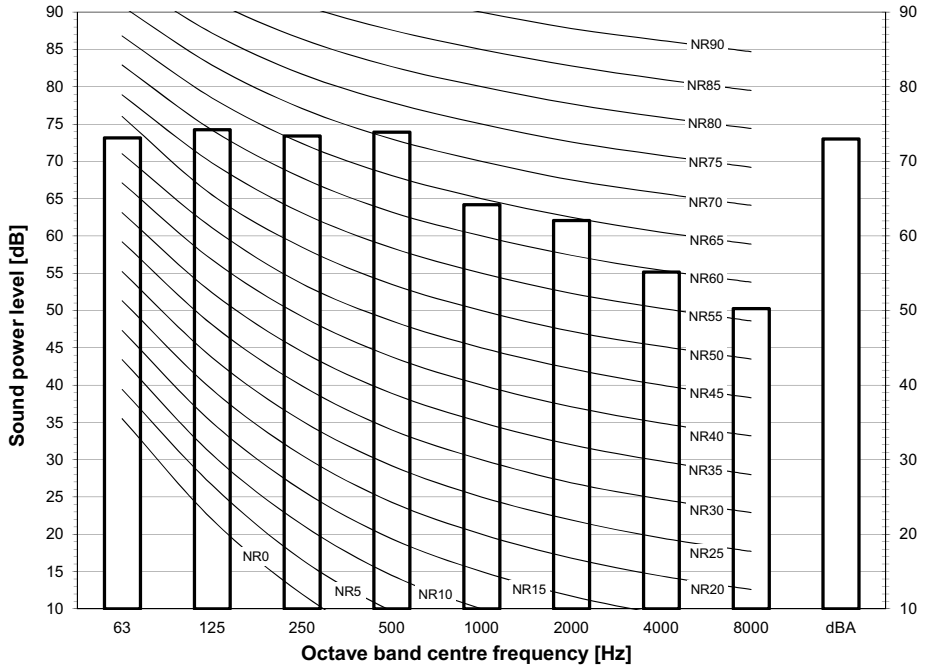
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

3D110039

10 Sound data

10 - 1 Sound Power Spectrum

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1



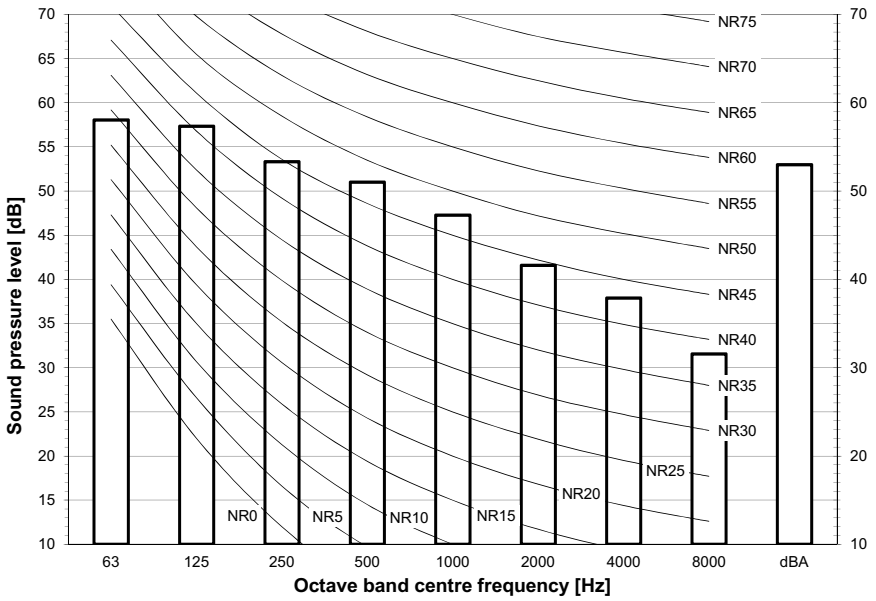
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

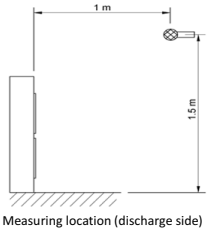
3D110040

10 Sound data

10 - 2 Sound Pressure Spectrum - Cooling

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1



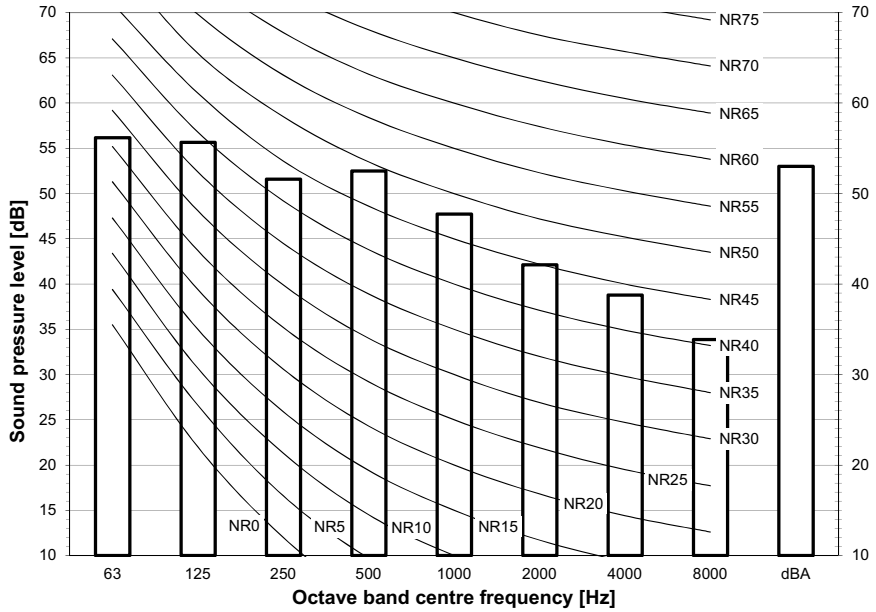


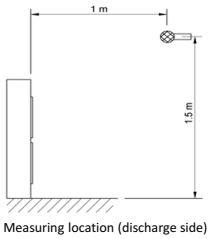
Measuring location (discharge side)

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

3D110050

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1





Measuring location (discharge side)

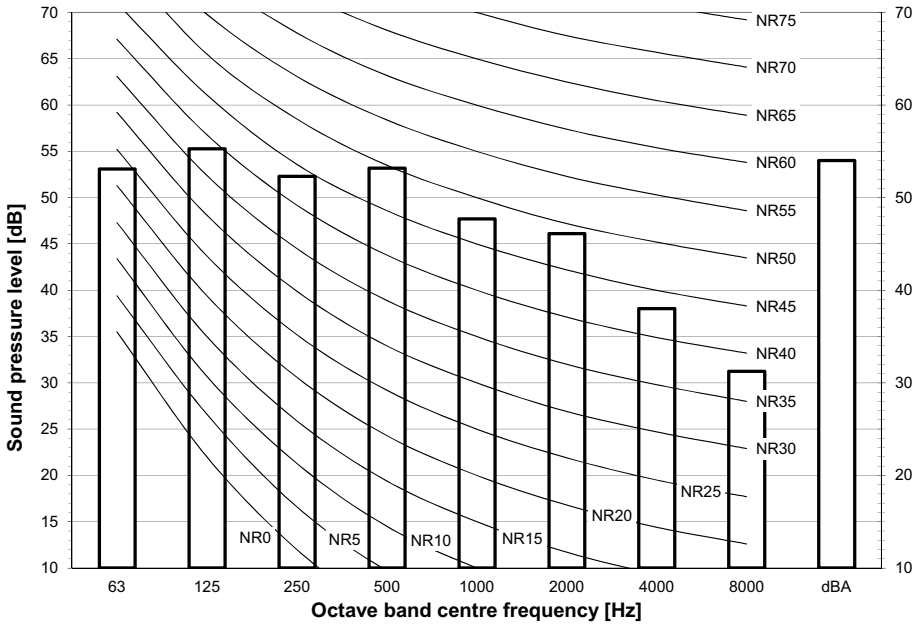
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

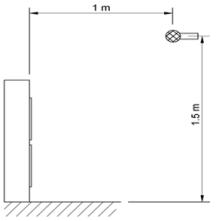
3D110051

10 Sound data

10 - 2 Sound Pressure Spectrum - Cooling

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1





Measuring location (discharge side)

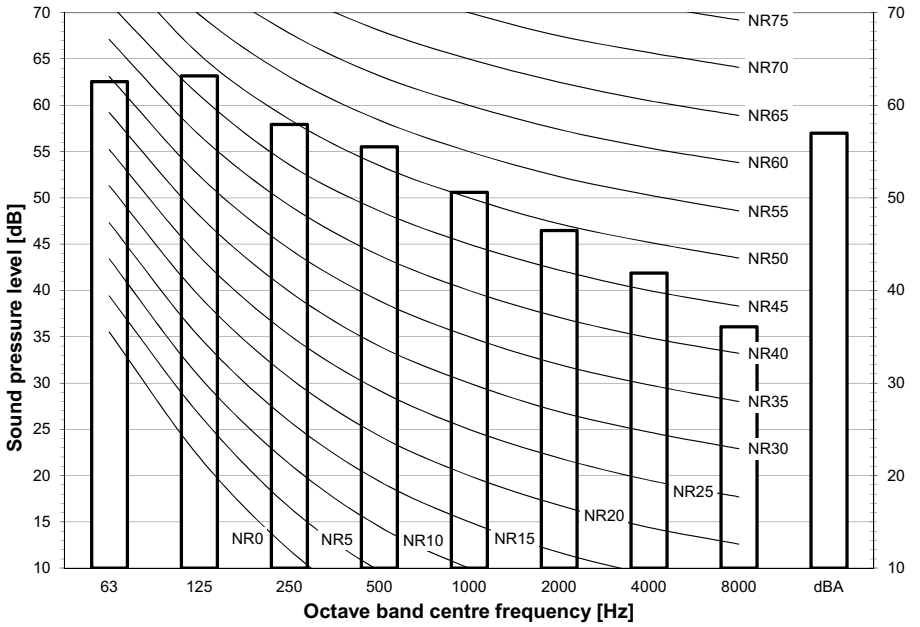
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

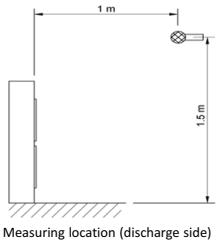
3D111310

10 Sound data

10 - 3 Sound Pressure Spectrum - Heating

AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1

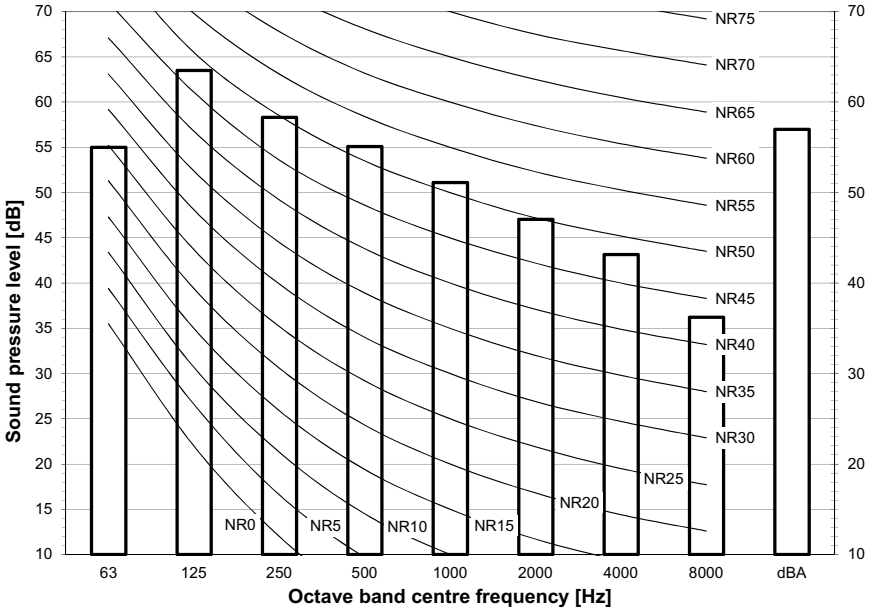


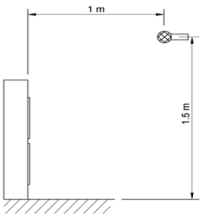


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D111294

AZAS125MV1
AZAS125MY1
RZASG125MV1
RZASG125MY1





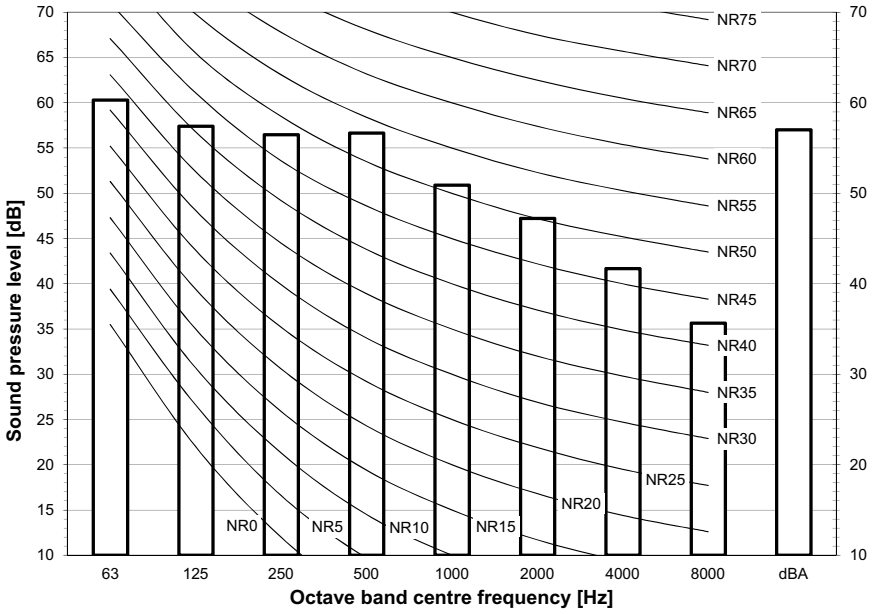
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

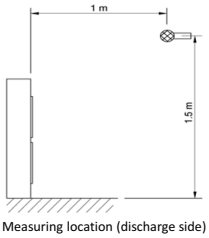
3D111295

10 Sound data

10 - 3 Sound Pressure Spectrum - Heating

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1





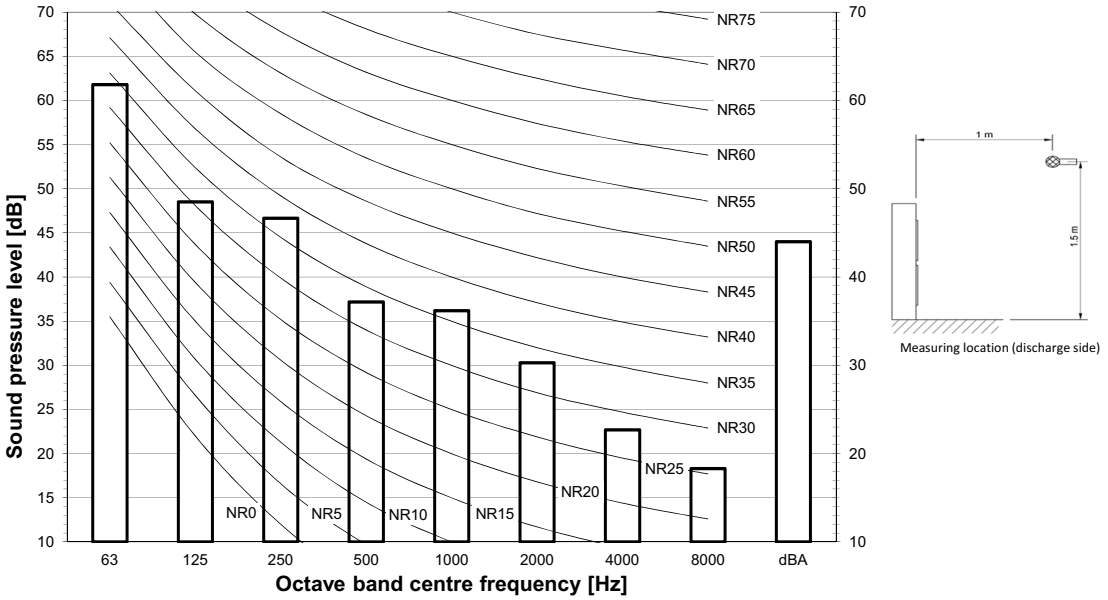
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D111296

10 Sound data

10 - 4 Sound Pressure Spectrum Quiet Mode

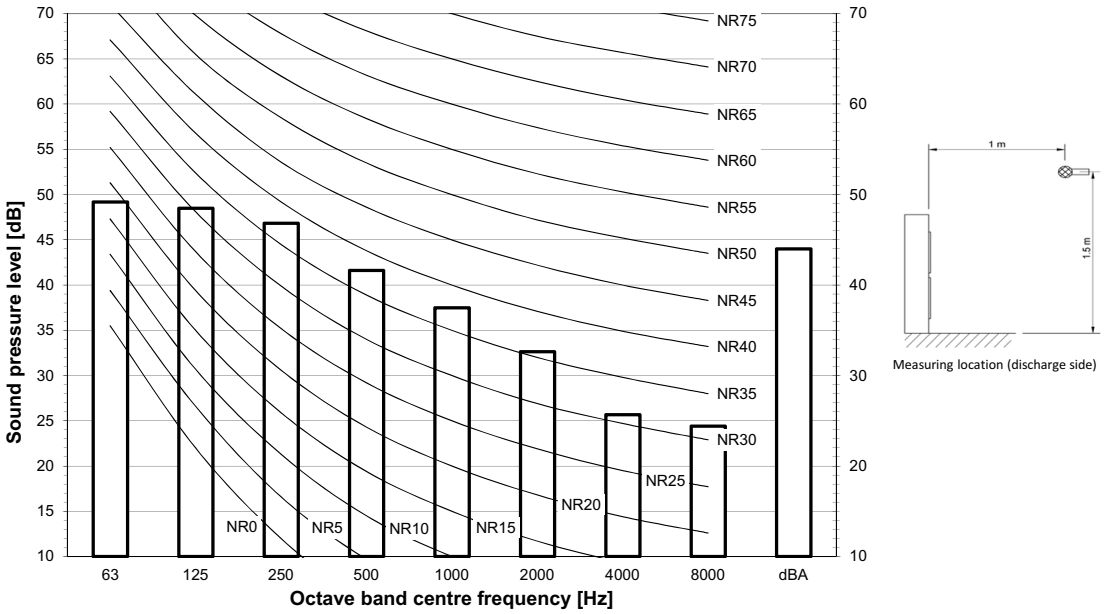
AZAS100MV1
AZAS100MY1
RZASG100MV1
RZASG100MY1



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



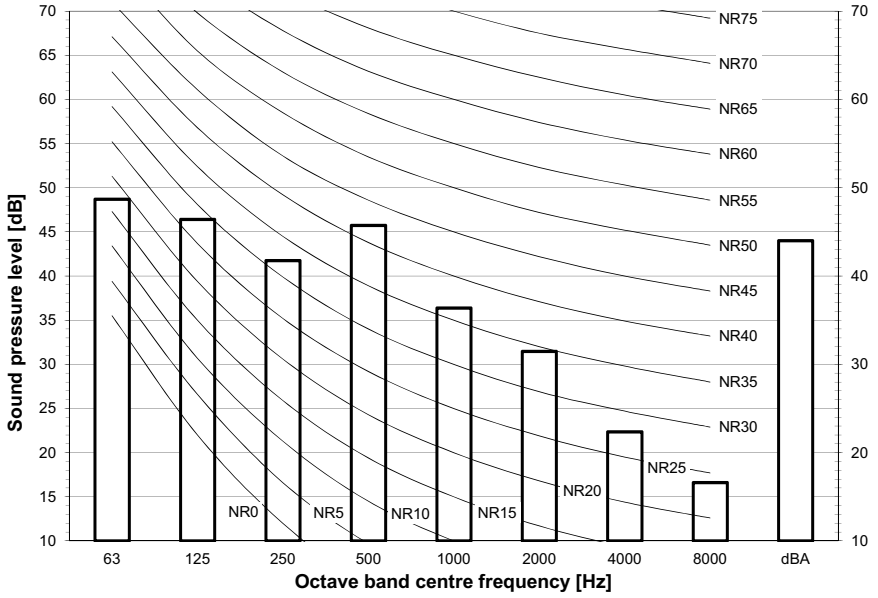
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

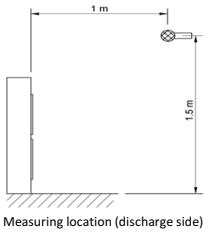
3D111317

10 Sound data

10 - 4 Sound Pressure Spectrum Quiet Mode

AZAS140MV1
AZAS140MY1
RZASG140MV1
RZASG140MY1





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

3D111318

11 Installation

11 - 1 Installation Method

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

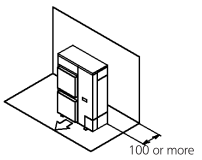
Installation service space

The measure of these values is "mm".

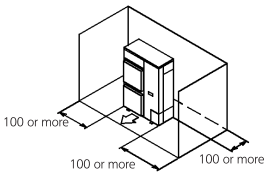
(A) When there are obstacles on suction sides.

● **No obstacle above**

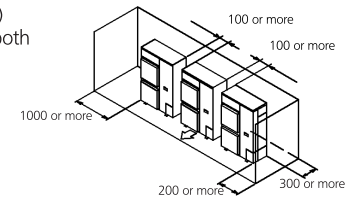
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

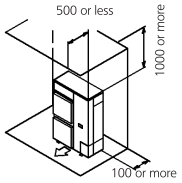


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

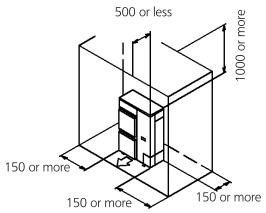


● **Obstacle above, too.**

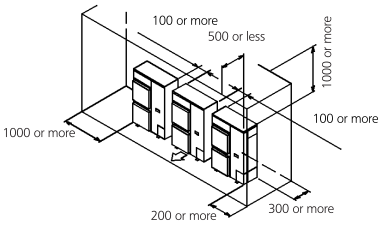
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



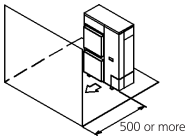
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



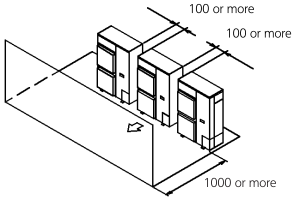
(B) When there are obstacles on discharge sides.

● **No obstacle above**

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

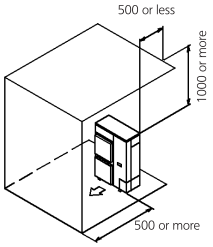


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

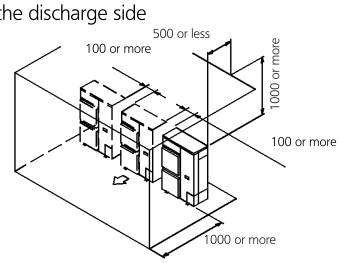


● **Obstacle above, too**

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



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



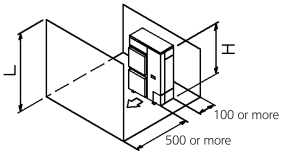
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

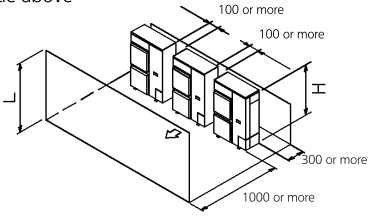
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

● **No obstacle above**

① Stand-alone installation
- No obstacle above



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



3D069554

11 Installation

11 - 1 Installation Method

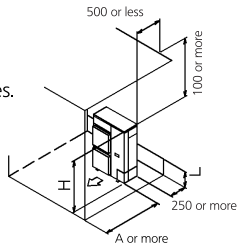
RZAG-MV1
RZAG-MY1
RZASG-MV1
RZASG-MY1
AZAS-MV1
AZAS-MY1

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

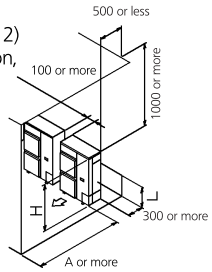


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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

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

Limit of series installation is 2 units.

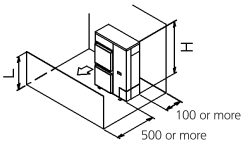


Pattern 2

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

- **No obstacle above**

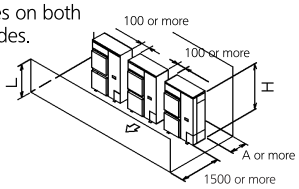
① Stand-alone installation
- No obstacle above



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

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

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

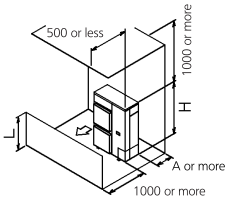


- **obstacle above**

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

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

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

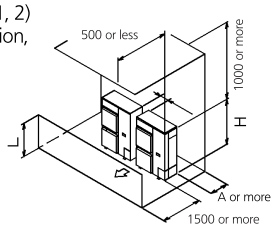


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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

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

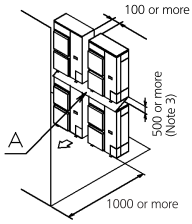
Limit of series installation is 2 units.

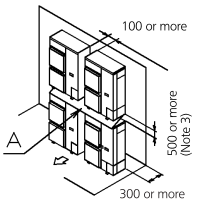


(D) Double-decker installation

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

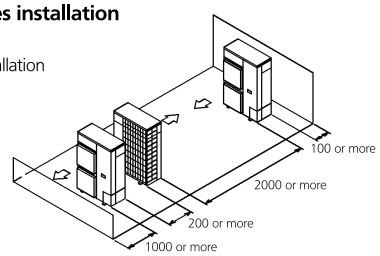
② Obstacle on the suction side. (1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height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





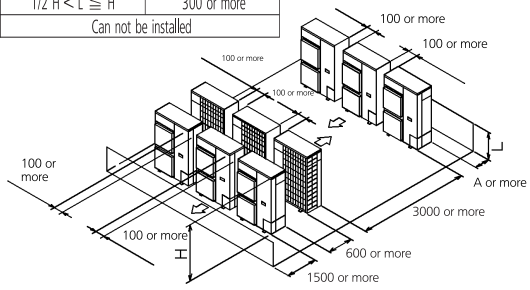
(E) Multiple rows of series installation (on the rooftop, etc.)

① One row of stand-alone installation



② Rows of series installation (2 or more)
The relations between H, A and L are as follows.

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



NOTES

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

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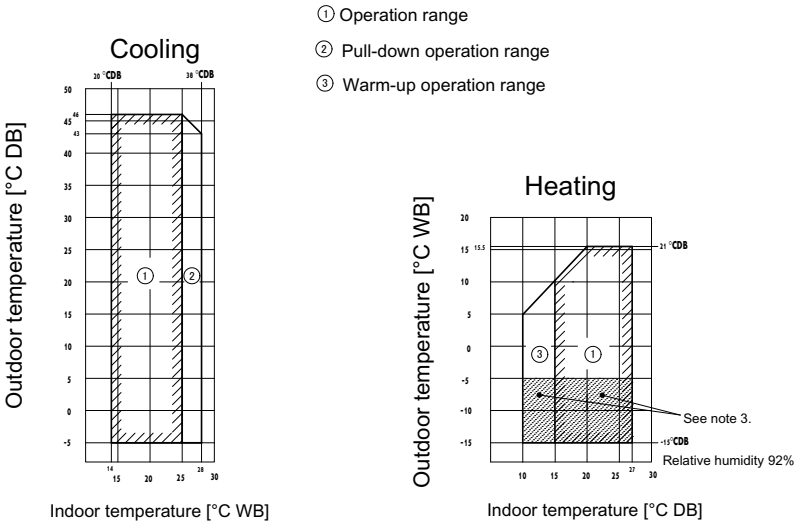
12 Operation range

12 - 1 Operation Range

AZAS-MV1
AZAS-MY1



Notes

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

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13 Appropriate Indoors

13 - 1 Appropriate Indoors

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

13

Recommended combinations

ENER Lot 21

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

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

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

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

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

ENER Lot 21
Appropriate indoor units

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

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

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

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

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

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

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

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

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

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

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

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

ENER Lot 10
Appropriate indoor units

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

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

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

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

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

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

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

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

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

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

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

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

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