



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



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AZAS-MV

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1 Features

1 - 1 AZAS-MV

Ideal solution for busy environments and small shops

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- › High efficiency: - Energy labels up to A++ (cooling) / A+ (heating) - compressor offers substantial efficiency improvements
- › Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a lower refrigerant charge
- › Very compact and easy to install
- › Replace existing systems with R-32 technology without needing to replace the piping
- › Guarantees operation in 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
(optional)



Auto cooling-
heating
changeover
(5 steps +
auto)



Night quiet
mode
(optional)

2 Specifications

2 - 1 Specifications

Technical Specifications					AZAS100MV	AZAS125MV	AZAS140MV	
Casing	Colour				Ivory white			
	Material				Painted galvanized steel plate			
Dimensions	Unit	Height	mm		990			
		Width	mm		940			
		Depth	mm		320			
	Packed unit	Height	mm		1,158			
		Width	mm		1,037			
		Depth	mm		446			
Weight	Unit	kg		72	79			
	Packed unit	kg		81	88			
Packing	Weight	kg		9				
Heat exchanger	Fin	Type	WF fin					
		Treatment	Anti-corrosion treatment (PE)					
Fan	Type				Propeller			
	Discharge direction				Horizontal			
	Quantity				1			
	Air flow rate	Cooling	Nom.	m³/min	69	71	76	
		Heating	Nom.	m³/min	82			
			Partial	m³/min	-	55 (1)		
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Output				200			
	Drive				Direct drive			
Compressor	Quantity				1			
	Type				Hermetically sealed swing compressor			
Operation range	Cooling	Ambient	Min.	°CDB	-10			
			Max.	°CDB	46			
	Heating	Ambient	Min.	°CWB	-15			
			Max.	°CWB	15.5			
	Sound power level	Cooling			dBA	70	71	73
Heating				dBA	-	71 (1)	73 (1)	
Sound pressure level	Cooling	Nom.	dBA		53	54		
	Heating	Nom.	dBA		57			
Refrigerant	Type				R-32			
	Charge	kg		2.6		2.9		
	Control				Expansion valve (electronic type)			
Refrigerant	GWP				675			
	Circuits	Quantity		1				
Refrigerant oil	Type				FW68DA			
	Charged volume	l		0.9	1.35			
Piping connections	Liquid	Quantity		1				
		Type		Flare connection				
		OD		mm				
	Gas	Quantity		9.52				
		Type		1				
		OD		mm				
	Drain	Quantity		Flare connection				
		Type		5				
		OD		mm				
	Piping length	OU - IU	Min.	m	26			
			Max.	m	5			
		System	Equivalent	m	30			
			Chargeless	m	50			
			Additional refrigerant charge		kg/m	30		
	Level difference	IU - OU	Max.	m	0.5			
	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: Installation manual;Quantity: 1;

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

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: LOT10 Energy Label;Quantity: 1;

Standard accessories: Declaration of conformity;Quantity: 2;

2 Specifications

2 - 1 Specifications

Standard accessories: Tie-wraps;Quantity: 2;

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Electrical Specifications			AZAS100MV	AZAS125MV	AZAS140MV
Power supply	Name			V1	
	Phase			1~	
	Frequency			50	
	Voltage			220-240	
	Voltage range			198 264	
Current	Zmax	List	Complies to EN61000-3-11		
	Minimum Ssc value		Equipment complying with EN / IEC 61000-3-12/ See note 2 / See note 3		
Wiring connections	For power supply	Remark	See installation manual outdoor unit		
	For connection with indoor	Remark	See installation manual outdoor unit		
Power supply intake			See installation manual outdoor unit		
Current - 50Hz	Maximum fuse amps (MFA)		25	32	

(1)According to ENER Lot 21 |

European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current larger than 16A and ≤ 75A per phase. |

Ssc: Short-circuit power |

European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current ≤ 16A per phase.

Technical specifications			FCAG100B + AZAS100MV		FCAG125B + AZAS125MV	FCAG140B + AZAS140MV
Cooling capacity	Nom.	kW	9.5		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	9.5		12.1	13.4
	SEER		6.12		5.62	6.2
	ηs,c	%	-		222	245
	Annual energy consumption	kWh/a	543		1,292	1,296
Space heating (Average climate)	Energy efficiency class		A		-	
	Capacity Pdesign	kW	6		7.8	
	SCOP/A		3.85		3.8	4.31
	SCOPnet/A		3.85		3.8	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			
Space cooling	A Condition Pdc	kW	9.5		12.1	13.4
	(35°C - 27/19) EERd		3.26		2.38	2.56
	Power input	kW	2.92		5.09	5.24
	B Condition Pdc	kW	7		8.92	9.58
	(30°C - 27/19) EERd		5.05		4.2	4.75
	Power input	kW	1.39		2.12	2.02
	C Condition Pdc	kW	4.5		5.74	6.16
	(25°C - 27/19) EERd		7.16		6.57	7.46
	Power input	kW	0.63		0.87	0.83
	D Condition Pdc	kW	3.11		3.18	3.74
	(20°C - 27/19) EERd		10.28		10.23	11.34
	Power input	kW	0.3		0.31	0.33
Space heating (Average climate)	TOL Tol (temperature operating limit)	°C			-10	
	Pdh (declared heating cap)	kW	6			7.8
	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			7.8
	COPd (declared COP)		2.33		2.43	2.26
Space heating (Average climate)	Power input	kW	2.58		2.47	3.44
	A Condition Pdh (declared heating cap)	kW	5.31		5.3	6.9
	(-7°C) COPd (declared COP)		2.54		2.61	2.6
	Power input	kW	2.09		2.03	2.65
	B Condition Pdh (declared heating cap)	kW	3.23			4.2
	(2°C) COPd (declared COP)		3.67		3.64	4.32
	Power input	kW	0.88		0.89	0.97
	C Condition Pdh (declared heating cap)	kW	2.1		2.13	3.4
	(7°C) COPd (declared COP)		5.16		4.88	5.92
	Power input	kW	0.41		0.44	0.57
	D Condition Pdh (declared heating cap)	kW	2.5		2.55	3.99
	(12°C) 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 + AZAS100MV	FCAG125B + AZAS125MV	FCAG140B + AZAS140MV
Power consumption in other than active mode	Crankcase	Cooling	PCK	kW	0		
	heater	Heating	PCK	kW	0		
	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		
		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		
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.

Technical specifications					FHA100A + AZAS100MV	FHA125A + AZAS125MV	FHA140A + AZAS140MV
Cooling capacity	Nom.			kW	9.5	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	9.5	12.1	13.4
	SEER					5.6	
	ηs,c			%	-	221	
Space heating (Average climate)	Annual energy consumption			kWh/a	594	1,297	1,436
	Energy efficiency class				A	-	-
	Capacity	Pdesign		kW		6	7.8
	SCOP/A				3.87	3.75	3.81
	SCOPnet/A				3.87	3.75	3.81
	ηs,h			%	-	147	149
	Annual energy consumption			kWh/a	2,171	2,240	2,866
	Required back up heating cap at design conditions			kW		0	
Space cooling	A Condition (35°C - 27/19)	Pdc		kW	9.5	12.1	13.4
		EERd			3.2	2.53	2.59
		Power input		kW	2.97	4.79	5.17
	B Condition (30°C - 27/19)	Pdc		kW	7	8.92	9.88
		EERd			4.68	4.35	4.45
		Power input		kW	1.5	2.05	2.22
	C Condition (25°C - 27/19)	Pdc		kW	4.5	5.74	6.35
		EERd			6.66	6.52	6.7
		Power input		kW	0.68	0.88	0.95
	D Condition (20°C - 27/19)	Pdc		kW	3.1	3.17	3.86
		EERd			8.46	9.24	9.3
		Power input		kW	0.37	0.34	0.42
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C		-10	
		PdH (declared heating cap)		kW		6	7.8
		COPd (declared COP)			2.47	2.44	1.98
		Power input		kW	2.43	2.46	3.95
	TBivalent	Tbiv (bivalent temperature)		°C		-10	
		PdH (declared heating cap)		kW		6	7.8
		COPd (declared COP)			2.47	2.44	1.98
		Power input		kW	2.43	2.46	3.95
	A Condition (-7°C)	PdH (declared heating cap)		kW	5.31	5.3	6.9
		COPd (declared COP)			2.7	2.66	2.37
	B Condition (2°C)	Power input		kW	1.96	1.99	2.91
		PdH (declared heating cap)		kW		3.23	4.2
		COPd (declared COP)			3.73	3.6	3.92
Space heating (Average climate)	C Condition (7°C)	Power input		kW	0.86	0.9	1.07
		PdH (declared heating cap)		kW	2.18	2.19	3.45
		COPd (declared COP)			4.91	4.74	4.95
	D Condition (12°C)	Power input		kW	0.44	0.46	0.7
		PdH (declared heating cap)		kW	2.57	2.58	4.05
		COPd (declared COP)			6.07	5.88	6.07
		Power input		kW	0.42	0.44	0.67

2 Specifications

2 - 1 Specifications

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Technical specifications					FHA100A + AZAS100MV	FHA125A + AZAS125MV	FHA140A + AZAS140MV
Power consumption in other than active mode	Crankcase	Cooling	PCK	kW	0		
	heater	Heating	PCK	kW	0		
	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		
	Thermo-stat-off mode	Cooling	PTO	kW	0		
		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		
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.

Technical specifications				FBA100A + AZAS100MV	FBA125A + AZAS125MV	FBA140A + AZAS140MV	
Cooling capacity	Nom.		kW	9.5	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	9.5	12.1	13.4	
	SEER			5.67	5.24	5.72	
	ηs,c		%	-	207	226	
	Annual energy consumption		kWh/a	586	1,385	1,406	
Space heating (Average climate)	Energy efficiency class			A	-		
	Capacity	Pdesign	kW	6		7.8	
	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			
	A Condition (35°C - 27/19)	Pdc	kW	9.5	12.1	13.4	
		EERd		3.2	2.48	2.62	
		Power input	kW	2.97	4.88	5.11	
B Condition (30°C - 27/19)	Pdc	kW	7	8.92	9.58		
	EERd		4.95	4.14	4.69		
	Power input	kW	1.42	2.15	2.04		
C Condition (25°C - 27/19)	Pdc	kW	4.5	5.74	6.16		
	EERd		6.8	6.07	6.89		
	Power input	kW	0.66	0.95	0.89		
D Condition (20°C - 27/19)	Pdc	kW	3.1	3.17	3.97		
	EERd		8.33	8.28	8.72		
	Power input	kW	0.37	0.38	0.46		
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10			
		Pdh (declared heating cap)	kW	6		7.8	
		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		7.8	
		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	5.3	6.9	
		COPd (declared COP)		2.66		2.46	
	Space heating (Average climate)	A Condition (-7°C)	Power input	kW	1.99		2.81
		B Condition (2°C)	Pdh (declared heating cap)	kW	3.23		4.2
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	3.5	
		COPd (declared COP)		4.78	4.28	4.98	
		Power input	kW	0.47	0.53	0.7	
D Condition (12°C)		Pdh (declared heating cap)	kW	2.57	2.66	4.1	
		COPd (declared COP)		5.64	5.24	6.1	
	Power input	kW	0.46	0.51	0.67		

2 Specifications

2 - 1 Specifications

Technical specifications					FBA100A + AZAS100MV	FBA125A + AZAS125MV	FBA140A + AZAS140MV
Power consumption in other than active mode	Crankcase	Cooling	PCK	kW	0		
	heater	Heating	PCK	kW	0		
	Off mode	Cooling	POFF	kW	0.014		
		Heating	POFF	kW	0.014		
	Standby mode	Cooling	PSB	kW	0.014		
		Heating	PSB	kW	0.014		
	Thermo-stat-off mode	Cooling	PTO	kW	0		
		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		
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.

Technical specifications					ADEA100A + AZAS100MV	ADEA125A + AZAS125MV
Cooling capacity	Nom.		kW		9.5	12.1 (1)
Heating capacity	Nom.		kW		10.8 (2)	13.5 (2)
Space cooling	Energy efficiency class				A	-
	Capacity	Pdesign	kW		9.5	12.1
	SEER				5.55	5.11
	ηs,c		%		-	201
	Annual energy consumption		kWh/a		600	1,421
Space heating (Average climate)	Energy efficiency class				A	-
	Capacity	Pdesign	kW		6	
	SCOP/A				3.81	3.5
	SCOPnet/A				3.81	3.5
	ηs,h		%		-	137
	Annual energy consumption		kWh/a		2,205	2,400
	Required back up heating cap at design conditions		kW		0	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		9.5	12.1
		EERd			3.2	2.45
		Power input	kW		2.97	4.93
	B Condition (30°C - 27/19)	Pdc	kW		7	8.92
		EERd			4.82	4.03
		Power input	kW		1.45	2.21
	C Condition (25°C - 27/19)	Pdc	kW		4.5	5.74
		EERd			6.62	5.91
		Power input	kW		0.68	0.97
	D Condition (20°C - 27/19)	Pdc	kW		3.1	3.2
		EERd			8.08	
		Power input	kW		0.38	0.4
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C		-10	
		Pdh (declared heating cap)	kW		6	
		COPd (declared COP)			2.42	2.41
		Power input	kW		2.47	2.49
	TBivalent	Tbiv (bivalent temperature)	°C		-10	
		Pdh (declared heating cap)	kW		6	
		COPd (declared COP)			2.42	2.41
		Power input	kW		2.47	2.49
	A Condition (-7°C)	Pdh (declared heating cap)	kW		5.31	5.3
		COPd (declared COP)			2.66	2.63
	B Condition (2°C)	Power input	kW		1.99	2.02
		Pdh (declared heating cap)	kW		3.23	
Space heating (Average climate)	C Condition (7°C)	COPd (declared COP)			3.73	3.4
		Power input	kW		0.87	0.95
		Pdh (declared heating cap)	kW		2.26	2.27
	D Condition (12°C)	COPd (declared COP)			4.78	4.22
		Power input	kW		0.47	0.54
		Pdh (declared heating cap)	kW		2.57	2.66
		COPd (declared COP)			5.64	5.17
		Power input	kW		0.46	0.51

2 Specifications

2 - 1 Specifications

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Technical specifications					ADEA100A + AZAS100MV	ADEA125A + AZAS125MV	
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0		
		Heating	PCK	kW	0		
	Off mode	Cooling	POFF	kW	0.014		
		Heating	POFF	kW	0.014		
	Standby mode	Cooling	PSB	kW	0.014		
		Heating	PSB	kW	0.014		
	Thermo-stat-off mode	Cooling	PTO	kW	0		
		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	
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.

Technical specifications					FAA100B + AZAS100MV	
Cooling capacity	Nom.		kW		9.5	
Heating capacity	Nom.		kW		10.8 (1)	
Space cooling	Energy efficiency class				A+	
	Capacity	Pdesign	kW		9.5	
	SEER				5.67	
	Annual energy consumption		kWh/a		586	
Space heating (Average climate)	Energy efficiency class				A	
	Capacity	Pdesign	kW		6	
	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	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		9.5	
		EERd			2.7	
		Power input	kW		3.52	
	B Condition (30°C - 27/19)	Pdc	kW		7	
		EERd			4.7	
		Power input	kW		1.49	
	C Condition (25°C - 27/19)	Pdc	kW		4.5	
		EERd			6.64	
		Power input	kW		0.68	
	D Condition (20°C - 27/19)	Pdc	kW		3	
		EERd			9.92	
		Power input	kW		0.3	
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C		-10	
		Pdh (declared heating cap)	kW		6	
		COPd (declared COP)			2.29	
		Power input	kW		2.63	
	TBivalent	Tbiv (bivalent temperature)	°C		-10	
		Pdh (declared heating cap)	kW		6	
		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		2.1	
	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	

2 Specifications

2 - 1 Specifications

Technical specifications					FAA100B + AZAS100MV
Power consumption in other than active mode	Crankcase	Cooling	PCK	kW	0
	heater	Heating	PCK	kW	0
	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
		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
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 heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CWB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. | Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

Technical specifications				AVA125A + AZAS125MV	
Cooling capacity	Nom.		kW	12.1 (1)	
Heating capacity	Nom.		kW	13.5 (2)	
Space cooling	Capacity	Pdesign	kW	12.1	
	SEER			5.3	
	ηs,c		%	209	
	Annual energy consumption		kWh/a	1,370	
Space heating (Average climate)	Capacity	Pdesign	kW	6	
	SCOP/A			3.64	
	SCOPnet/A			3.64	
	ηs,h		%	143	
	Annual energy consumption		kWh/a	2,308	
	Required back up heating cap at design conditions		kW	0	
Space cooling	A Condition	Pdc	kW	12.1	
	(35°C - 27/19)	EERd		2.37	
		Power input	kW	5.11	
	B Condition	Pdc	kW	8.92	
	(30°C - 27/19)	EERd		4.13	
		Power input	kW	2.16	
	C Condition	Pdc	kW	5.74	
	(25°C - 27/19)	EERd		6	
		Power input	kW	0.96	
	D Condition	Pdc	kW	3.07	
	(20°C - 27/19)	EERd		9.15	
		Power input	kW	0.34	
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-10	
		Pdh (declared heating cap)	kW	6	
		COPd (declared COP)		2.37	
		Power input	kW	2.53	
	TBivalent	Tbiv (bivalent temperature)	°C	-10	
		Pdh (declared heating cap)	kW	6	
		COPd (declared COP)		2.37	
		Power input	kW	2.53	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	5.3	
		COPd (declared COP)		2.6	
		Power input	kW	2.04	
	B Condition (2°C)	Pdh (declared heating cap)	kW	3.23	
	Space heating (Average climate)	B Condition (2°C)	COPd (declared COP)		3.51
			Power input	kW	0.92
		C Condition (7°C)	Pdh (declared heating cap)	kW	2.19
			COPd (declared COP)		4.57
		Power input	kW	0.48	
D Condition (12°C)		Pdh (declared heating cap)	kW	2.57	
		COPd (declared COP)		5.6	
	Power input	kW	0.46		

2 Specifications

2 - 1 Specifications

2

Technical specifications					AVA125A + AZAS125MV
Power consumption in other than active mode	Crankcase	Cooling	PCK	kW	0
	heater	Heating	PCK	kW	0
	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
		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
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.

Technical specifications					FVA100A + AZAS100MV	FVA125A + AZAS125MV	FVA140A + AZAS140MV
Cooling capacity	Nom.	kW			9.5	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		9.5	12.1	13.4
	SEER				5.5	5.3	5.4
	ηs,c		%		-	209	213
	Annual energy consumption		kWh/a		605	1,370	1,489
Space heating (Average climate)	Energy efficiency class				A	-	-
	Capacity	Pdesign	kW		6		7.8
	SCOP/A				3.79	3.56	3.81
	SCOPnet/A				3.79	3.56	3.81
	ηs,h		%		-	139	149
	Annual energy consumption		kWh/a		2,217	2,360	2,866
	Required back up heating cap at design conditions					0	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		9.5	12.1	13.4
		EERd			3.2	2.37	2.4
		Power input	kW		2.97	5.11	5.59
	B Condition (30°C - 27/19)	Pdc	kW		7	8.92	9.88
		EERd			4.78	4.13	4.37
		Power input	kW		1.46	2.16	2.26
	C Condition (25°C - 27/19)	Pdc	kW		4.5	5.74	6.35
		EERd			6.47	6	6.27
		Power input	kW		0.7	0.96	1.01
	D Condition (20°C - 27/19)	Pdc	kW		3	3.07	3.76
		EERd			7.88	9.15	8.42
		Power input	kW		0.38	0.34	0.45
Space heating (Average climate)	TOL	Tol (temperature operating limit)			-10		
		Pdh (declared heating cap)	kW		6		7.8
		COPd (declared COP)			2.43	2.32	1.99
	TBivalent	Tbiv (bivalent temperature)			-10		
		Pdh (declared heating cap)	kW		6		7.8
		COPd (declared COP)			2.43	2.32	1.99
	A Condition (-7°C)	Power input			2.46		
					2.58		
Space heating (Average climate)	A Condition (-7°C)	Pdh (declared heating cap)	kW		5.31	5.3	6.9
		COPd (declared COP)			2.67	2.55	2.38
		Power input	kW		1.99	2.08	2.9
	B Condition (2°C)	Pdh (declared heating cap)	kW		3.23		4.2
		COPd (declared COP)			3.68	3.43	3.9
		Power input	kW		0.88	0.94	1.08
	C Condition (7°C)	Pdh (declared heating cap)	kW		2.2	2.19	3.47
		COPd (declared COP)			4.76	4.47	4.99
		Power input	kW		0.46	0.49	0.7
	D Condition (12°C)	Pdh (declared heating cap)	kW		2.58	2.57	4.07
		COPd (declared COP)			5.76	5.48	6.1
		Power input	kW		0.45	0.47	0.67

2 Specifications

2 - 1 Specifications

Technical specifications					FVA100A + AZAS100MV	FVA125A + AZAS125MV	FVA140A + AZAS140MV
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW		0	
		Heating	PCK	kW		0	
	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	
		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	
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.

3 Electrical data

3 - 1 Electrical Data

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

SYMBOLS

MCA	: Minimum Circuit Ampere	[A]
TOCA	: Total overcurrent amps	[A]
MFA	: Maximum Fuse Ampere	[A]
MSC	: Maximum current of the starting compressor	[A]
RLA	: Rated load amps	[A]
OFM	: Outdoor fan motor	
IFM	: Indoor fan motor	
FLA	: Full Load Ampere	[A]
kW	: Fan motor rated output	[kW]

NOTES

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

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AZAS-MV

Indoor	Outdoor	Power supply	Voltage range	Compressor					OFM		IFM	
				MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAG100BVEB	AZAS100MUV	50Hz ~ 220-240V	Minimum: ·198· V Maximum: ·264· V	21.5	-	25	-	19	0.2	1	0.117	0.7
FBA100A2VEB9	AZAS100MUV			21.8	-	25	-	19	0.2	1	0.127	1
FAA100BUBV1B	AZAS100MUV			21.7	-	25	-	19	0.2	1	0.064	0.9
ADEA100A2VEB	AZAS100MUV			21.8	-	25	-	19	0.2	1	0.127	1
FVA100AMVEB	AZAS100MUV			22.0	-	25	-	19	0.2	1	0.238	1.2
FHA100AVEB9	AZAS100MUV			22.2	-	25	-	19	0.2	1	0.172	1.3
FCAG125BVEB	AZAS125MUV			27.8	-	32	-	24.7	0.2	1	0.168	1
FBA125A2VEB9	AZAS125MUV			28.3	-	32	-	24.7	0.2	1	0.187	1.5
ADEA125A2VEB	AZAS125MUV			28.3	-	32	-	24.7	0.2	1	0.187	1.5
FVA125AMVEB	AZAS125MUV			28.0	-	32	-	24.7	0.2	1	0.238	1.2
FHA125AVEB9	AZAS125MUV			28.3	-	32	-	24.7	0.2	1	0.217	1.5
FCAG140BVEB	AZAS140MUV			27.0	-	32	-	24	0.2	1	0.168	1
FBA140A2VEB9	AZAS140MUV			27.6	-	32	-	24	0.2	1	0.187	1.5
FVA140AMVEB	AZAS140MUV			27.5	-	32	-	24	0.2	1	0.276	1.4
FHA140AVEB9	AZAS140MUV			27.9	-	32	-	24	0.2	1	0.251	1.8
FCAG100BVEB	AZAS100MUY	3N ~ 50Hz 380-415V	Minimum: ·342· V Maximum: ·456· V	14.2	-	16	-	12	0.2	1	0.117	0.7
FBA100A2VEB9	AZAS100MUY			14.6	-	16	-	12	0.2	1	0.127	1
FAA100BUBV1B	AZAS100MUY			14.4	-	16	-	12	0.2	1	0.064	0.9
FVA100AMVEB	AZAS100MUY			14.8	-	16	-	12	0.2	1	0.238	1.2
FHA100AVEB9	AZAS100MUY			14.9	-	16	-	12	0.2	1	0.172	1.3
FCAG125BVEB	AZAS125MUY			14.6	-	16	-	12	0.2	1	0.168	1
FBA125A2VEB9	AZAS125MUY			15.1	-	16	-	12	0.2	1	0.187	1.5
ADEA125A2VEB	AZAS125MUY			14.8	-	16	-	12	0.2	1	0.238	1.2
FVA125AMVEB	AZAS125MUY			15.1	-	16	-	12	0.2	1	0.217	1.5
FHA125AVEB9	AZAS125MUY			14.6	-	16	-	12	0.2	1	0.168	1
FCAG140BVEB	AZAS140MUY			15.1	-	16	-	12	0.2	1	0.187	1.5
FBA140A2VEB9	AZAS140MUY			15.0	-	16	-	12	0.2	1	0.276	1.4
FVA140AMVEB	AZAS140MUY			15.4	-	16	-	12	0.2	1	0.251	1.8

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4 Combination table

4 - 1 Combination Table

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

Possible combinations

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

Sky Air		High Cassette		Thin cassette				2x2 cassette			Duct (medium ESP)				Concealed floor standing type		Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)										
Model		FCAHG71GVEB	FCAHG100GVEB	FCAHG125GVEB	FCAHG140GVEB	FCAG35AVEB	FCAG50AVEB	FCAG60AVEB	FCAG71AVEB	FCAG100AVEB	FCAG125AVEB	FCAG140AVEB	FFA35A2VEB	FFA50A2VEB	FFA60A2VEB	FBA35A2VEB	FBA50A2VEB	FBA60A2VEB	FBA71A2VEB	FBA100A2VEB	FBA125A2VEB	FBA140A2VEB	FNA35A2VEB	FNA50A2VEB	FNA60A2VEB	FUA71AVEB	FUA100AVEB	FUA125AVEB	FAA71AUEVB	FAA100AUEVB	FDA125A5VEB	
RZAG71M7V1B	RZAG71M7Y1B	P				2							2			2						2				P				P		
RZAG100M7V1B	RZAG100M7Y1B		P			3	2			P			3	2		3	2			P			3	2			P			P		
RZAG125M7V1B	RZAG125M7Y1B			P		4	3	2			P		4	3	2	4	3	2			P		4	3	2			P			P	
RZAG140M7V1B	RZAG140M7Y1B	P			P	4	3		2			P	4	3		4	3		2			P	4	3		2			2			
RZASG71M2V1B						2			P				2			2			P			2				P			2			
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			
RZASG100MUV	RZASG100MUY					3	2			P			3	2		3	2			P			3	2			P			P		
RZASG125MUV	RZASG125MUY					4	3	2			P		4	3	2	4	3	2			P		4	3	2			P			P	
RZASG140MUV	RZASG140MUY					4	3		2			P	4	3		4	3		2			P	4	3		2			2			
AZAS71M2V1B																			P											P		
AZAS100M7V1B	AZAS100M7Y1B									P										P											P	
AZAS125M7V1B	AZAS125M7Y1B										P										P											
AZAS140M7V1B	AZAS140M7Y1B											P																				
AZAS100MUV	AZAS100MUY									P										P											P	
AZAS125MUV	AZAS125MUY										P											P										
AZAS140MUV	AZAS140MUY											P										P										

Sky Air		Floor standing type				Slim duct			Ceiling-suspended						Duct (medium ESP)			
Model		FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	FDX35F3V1B	FDX50F3V1B	FDX60F3V1B	FHA35AVEB	FHA50AVEB	FHA60AVEB	FHA71AVEB	FHA100AVEB	FHA125AVEB	FHA140AVEB	ADEA71A2VEB	ADEA100A2VEB	ADEA125A2VEB
RZAG71M7V1B	RZAG71M7Y1B	P				2			2			P						
RZAG100M7V1B	RZAG100M7Y1B		P			3	2		3	2			P					
RZAG125M7V1B	RZAG125M7Y1B			P		4	3	2	4	3	2			P				
RZAG140M7V1B	RZAG140M7Y1B	2			P	4	3		4	3		2			P			
RZASG71M2V1B		P				2			2			P						
RZASG100M7V1B	RZASG100M7Y1B		P			3	2		3	2			P					
RZASG125M7V1B	RZASG125M7Y1B			P		4	3	2	4	3	2			P				
RZASG140M7V1B	RZASG140M7Y1B	2			P	4	3		4	3		2			P			
RZASG100MUV	RZASG100MUY		P			3	2		3	2			P					
RZASG125MUV	RZASG125MUY			P		4	3	2	4	3	2			P				
RZASG140MUV	RZASG140MUY	2			P	4	3		4	3		2			P			
AZAS71M2V1B																P		
AZAS100M7V1B	AZAS100M7Y1B																P	
AZAS125M7V1B	AZAS125M7Y1B																	P
AZAS140M7V1B	AZAS140M7Y1B																	
AZAS100MUV	AZAS100MUY		P									P					P	
AZAS125MUV	AZAS125MUY			P									P					P
AZAS140MUV	AZAS140MUY				P									P				

NOTES

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

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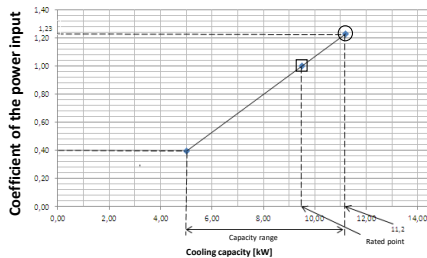
5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

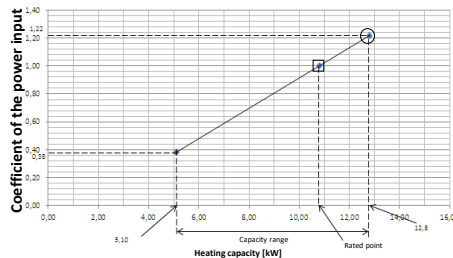
AZAS100MV

AZAS100MY

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		
°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
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	7.57	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	6.81	1.36

Heating

Indoor		Outdoor temperature (°C WB)											
		-15.0			-10.0			-5.0			0.0		
°CDB	°CWB	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
16	8.58	0.93	0.94	0.99	1.01	1.02	1.04	1.05	1.06	1.07	1.08	1.12	1.18
18	8.57	0.97	0.94	1.02	1.00	1.07	1.03	1.10	1.08	1.11	1.17	1.38	1.23
20	8.56	1.01	0.94	1.07	1.00	1.11	1.03	1.14	1.08	1.22	1.38	1.28	1.28
21	8.56	1.03	0.94	1.09	1.00	1.13	1.03	1.16	1.08	1.24	1.38	1.30	1.30
22	8.55	1.04	0.94	1.10	1.00	1.14	1.03	1.18	1.09	1.26	1.38	1.33	1.33
24	8.54	1.09	0.94	1.15	1.00	1.19	1.03	1.23	1.08	1.31	1.38	1.38	1.38

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.

Pair	FCAG100B	FAA100A	FBA100A	ADEA100A	FVA100A	FHA100A
AFR (BF)	22.8 (0.17)	26.0 (0.10)	29.0 (0.03)	29.0 (0.03)	28.0 (0.20)	28.0 (0.09)

Pair	FCAG100B	FAA100A	FBA100A	ADEA100A	FVA100A	FHA100A
Cooling	2.92	3.52	2.97	2.97	2.97	2.97
Heating	2.92	2.85	2.26	2.33	2.43	2.86

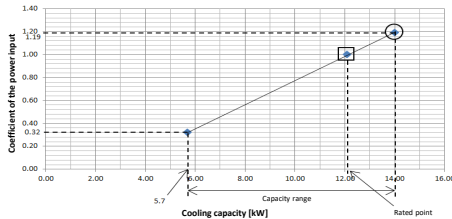
- The rated power input for each model is mentioned in the table below.

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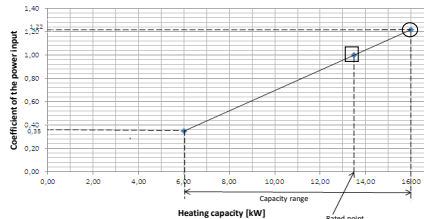
AZAS125MV

AZAS125MY

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		
°CWB	°CDB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
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

Indoor		Outdoor temperature (°C WB)											
		-15.0			-10.0			-5.0			0.0		
°CDB	°CWB	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
16	10.7	0.93	1.18	0.99	1.26	1.02	1.30	1.05	1.60	1.12	1.73	1.18	1.18
18	10.7	0.97	1.18	1.02	1.25	1.07	1.29	1.10	1.60	1.17	1.73	1.23	1.23
20	10.7	1.01	1.18	1.07	1.25	1.11	1.29	1.14	1.60	1.22	1.73	1.28	1.28
21	10.7	1.03	1.18	1.09	1.25	1.13	1.29	1.16	1.60	1.24	1.73	1.31	1.31
22	10.7	1.04	1.18	1.10	1.25	1.14	1.29	1.18	1.60	1.27	1.73	1.33	1.33
24	10.7	1.09	1.18	1.15	1.25	1.19	1.29	1.23	1.60	1.31	1.73	1.38	1.38

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.

Pair	FCAG125B	AAV125A	FBA125A	ADEA125A	FVA125A	FHA125A
AFR (BF)	26.0 (0.21)	28.0 (0.14)	34.0 (0.06)	34.0 (0.06)	28.0 (0.16)	31.0 (0.14)

Pair	FCAG125B	AAV125A	FBA125A	ADEA125A	FVA125A	FHA125A
Cooling	5.09	5.11	4.88	4.93	5.11	4.79
Heating	3.18	3.64	3.37	3.47	3.64	3.63

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

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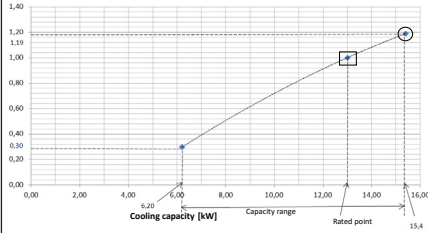
5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

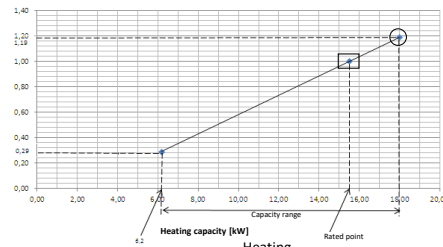
AZAS140MV

AZAS140MY

Cooling



Heating



Symbols

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

compressor + indoor and outdoor fan motors

Cooling

		Outdoor temperature [°C DB]											
		25				30				35			
		TC	SHC	CPI		TC	SHC	CPI		TC	SHC	CPI	
°CWB	°CDB	kW	kW	—	kW	kW	kW	—	kW	kW	kW	—	kW
16.0	22	15.5	10.47	0.98	14.9	10.25	1.08	14.4	10.03	1.18	13.9	9.89	1.28
18.0	25	16.2	10.55	0.98	15.6	10.21	1.08	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	9.86	1.30
22.0	30	17.6	10.37	0.99	17.0	10.16	1.10	16.4	9.93	1.21	15.9	9.90	1.31
24.0	32	18.4	10.20	1.00	17.7	10.00	1.11	17.0	9.87	1.22	16.4	9.47	1.32

Heating

		Outdoor temperature [°C DB]											
		-15.0				-10.0				-5.0			
		TC	CPI			TC	CPI			TC	CPI		
°CDB	°CWB	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	—

- 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 × AFR (m³/min) × (1-BF) × (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	FVA140A	FHA140A
AFR	26.0	34.0	30.0	32.0
BF	(0.23)	(0.06)	(0.18)	(0.17)

Pair	FCAG140B	FBA140A	FVA140A	FHA140A
Cooling	5.24	5.11	5.59	5.17
Heating	3.98	3.89	4.42	4.07

4D148950

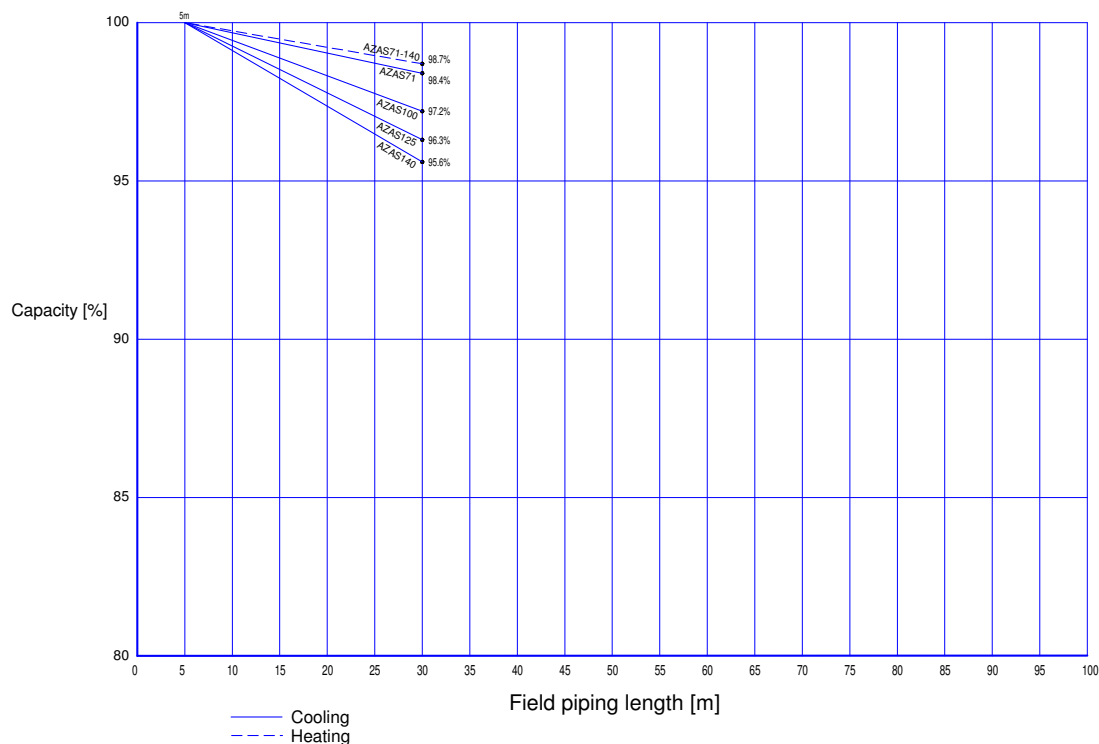
5 Capacity tables

5 - 2 Capacity Correction Factor

5

AZAS-MV
AZAS-MY

Capacity in function of field piping length

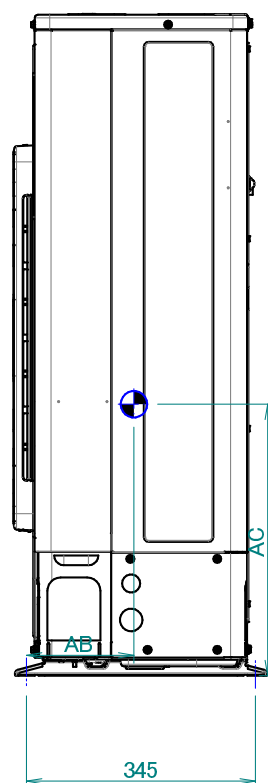
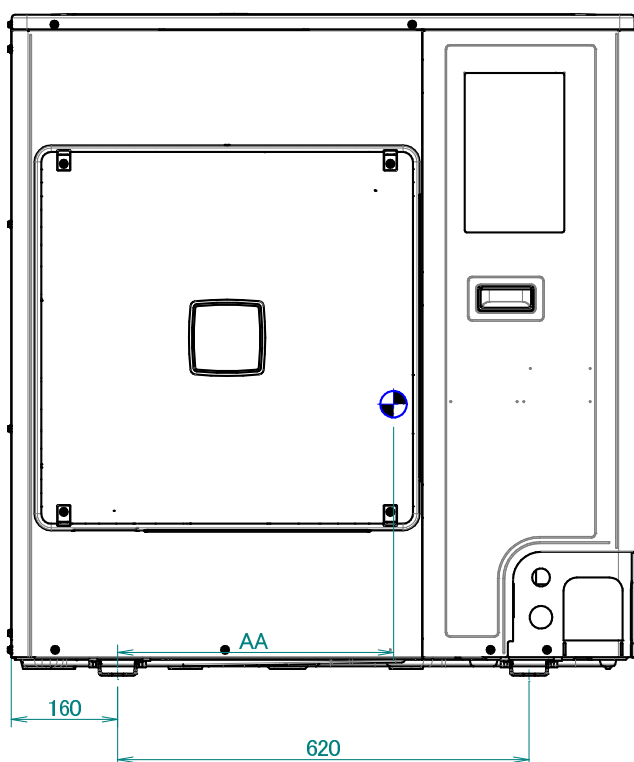


3D112164A

7 Centre of gravity

7 - 1 Centre of Gravity

7

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


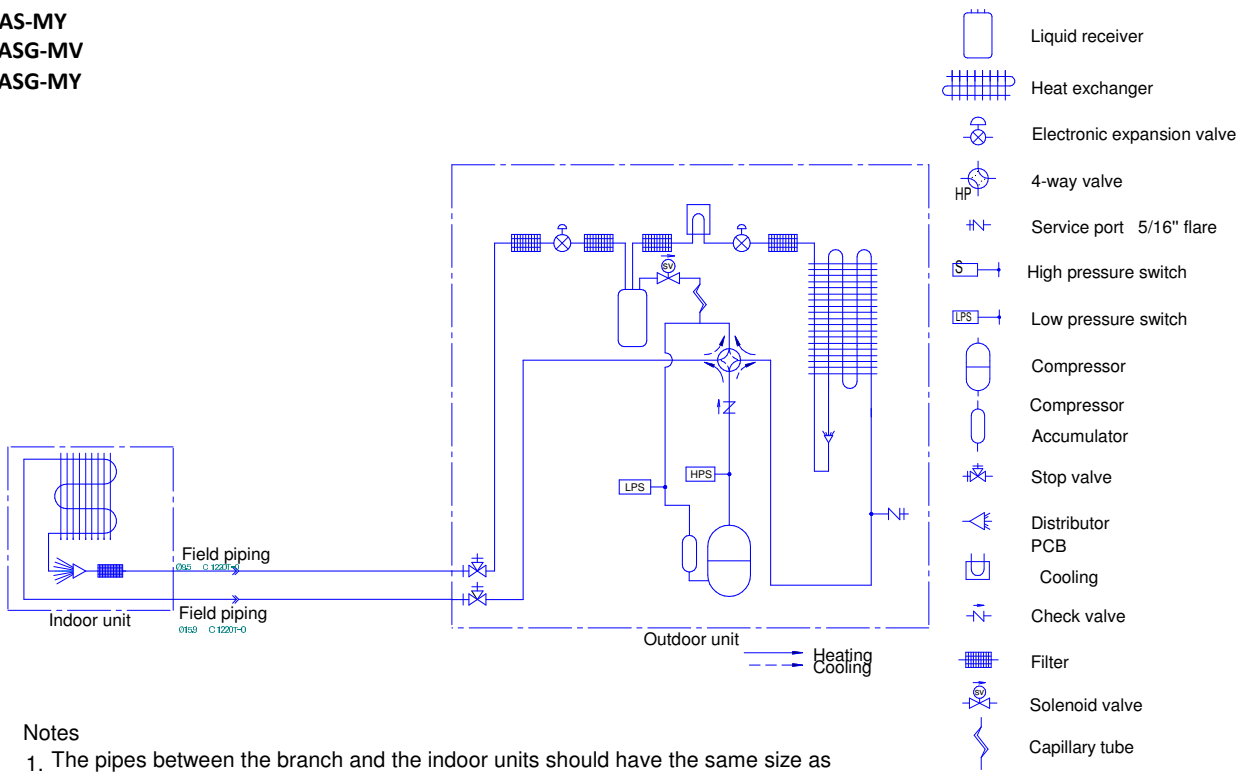
MODEL	AA	AB	AC
RZAG71M7V*	414	163	407
RZAG71M7Y*	432	137	407
RZASG100-125M7V*/AZAS100-125M7V*	425	181	422
RZASG100-125M7Y*/AZAS100-125M7Y*	414	156	417
RZASG140M7V*/AZAS140M7V*	414	161	423
RZASG140M7Y*/AZAS140M7Y*	416	151	418
RZASG100-125MUV/Y / AZAS100-125MUV/Y	425	175	430
RZASG140MUV/Y / AZAS140MUV/Y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

4D110025A

8 Piping diagrams

8 - 1 Piping Diagrams

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

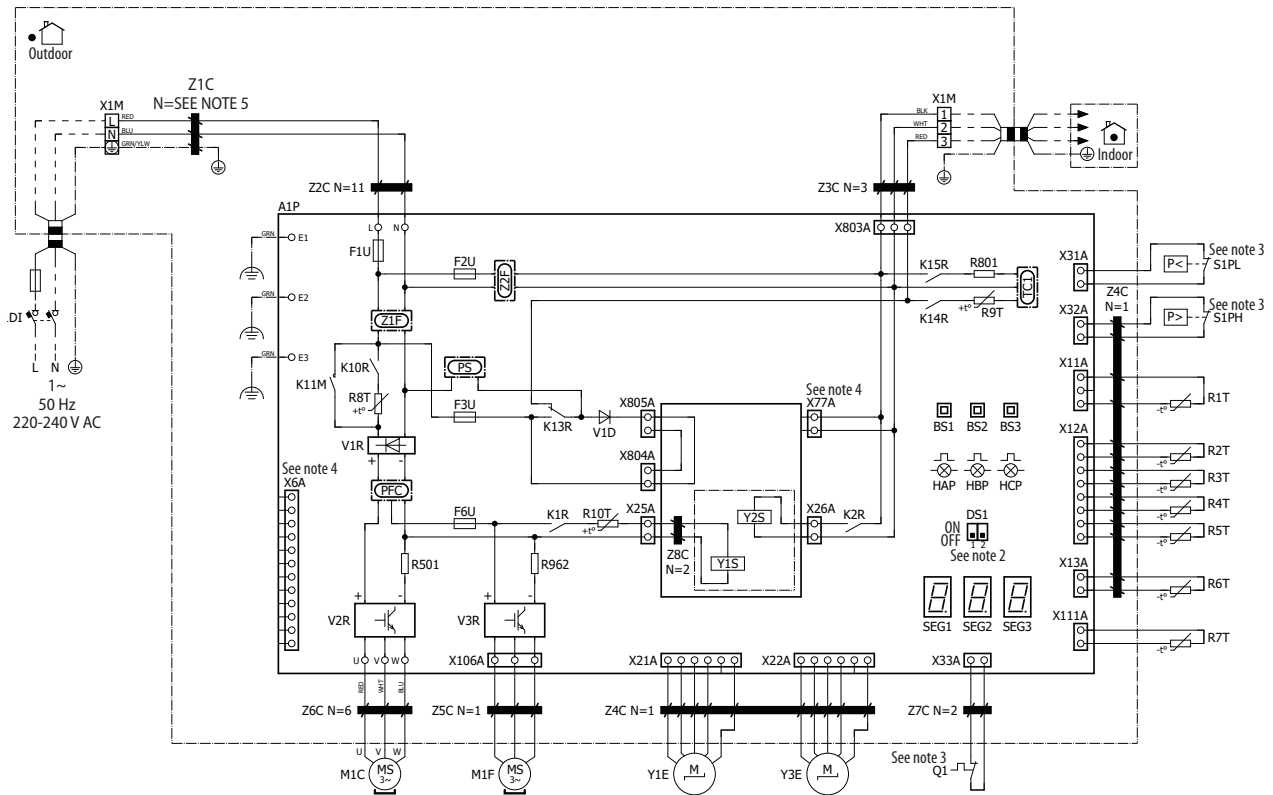


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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

AZAS100MV RZASG100MV



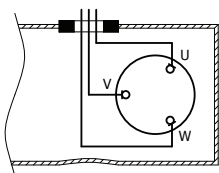
NOTES to go through before starting the unit

- X1M : Main terminal
- : Connection
- : Earth wiring
- - - : Field supply
- ⊕ : Protective earth
- ⊖ : Noiseless earth
- Field wire
- Switch box
- PCB

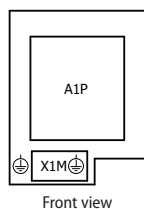
NOTES

- Colours: BLK: black; RED: red; BLU: blue; WHT: white; GRN: green; YLW: yellow
- Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
- When operating, do not short-circuit protection device(s) Q1, S1PH and S1PL.
- Refer to the option and service manual for how to connect the wiring to X6A and X77A.
- Windings L-N: 3, earth: 1

POSITION OF COMPRESSOR TERMINAL



POSITION IN SWITCH BOX



LEGEND

Part n°	Description
A1P	printed circuit board (main)
BS* (A1P)	push-button switch on PCB
DS1 (A1P)	slide switch on PCB
E* (A1P)	terminal (noiseless earth)
F1U (A1P)	fuse T 31.5A 250 V
F2U (A1P)	fuse T6.3A, 250V
F3U (A1P)	fuse T6.3A, 250V
F6U (A1P)	fuse T5A, 250V
H*P (A1P)	light-emitting diode (service monitor is green)

Part n°	Description
K1R (A1P)	magnetic relay (Y15)
K2R (A1P)	magnetic relay (Y25)
K10R, K13R~K15R (A1P)	magnetic relay
K11M (A1P)	magnetic contactor
L* (A1P)	terminal (live)
M1C	compressor motor
M1F	fan motor
N* (A1P)	terminal (neutral)
PFC (A1P)	power factor correction
PS (A1P)	switching power supply
Q1	overload protection
Q1DI	# earth leakage circuit breaker
R1T	thermistor (air)
R2T	thermistor (discharge)
R3T	thermistor (suction)
R4T	thermistor (heat exchanger)
R5T	thermistor (heat exchanger middle)
R6T	thermistor (liquid)
R7T	thermistor (fin)
R8T~R10T (A1P)	thermistor (PTC)
R501~R962 (A1P)	resistor
S1PH	high pressure switch (4.15MPa)
S1PL	low pressure switch (-0.03MPa)
SEG* (A1P)	7-segment display
TC1 (A1P)	signal transceiver circuit
U, V, W (A1P)	terminal (compressor)
V1D (A1P)	diode
V*R (A1P)	diode module / IGBT power module
X*A	connector
X1M	terminal strip
Y1E, Y3E	electronic expansion valve
Y1S	solenoid valve (4-way valve)
Y2S	solenoid valve (gas receiver)
Z*C	noise filter (ferrite core)
Z*F (A1P)	noise filter

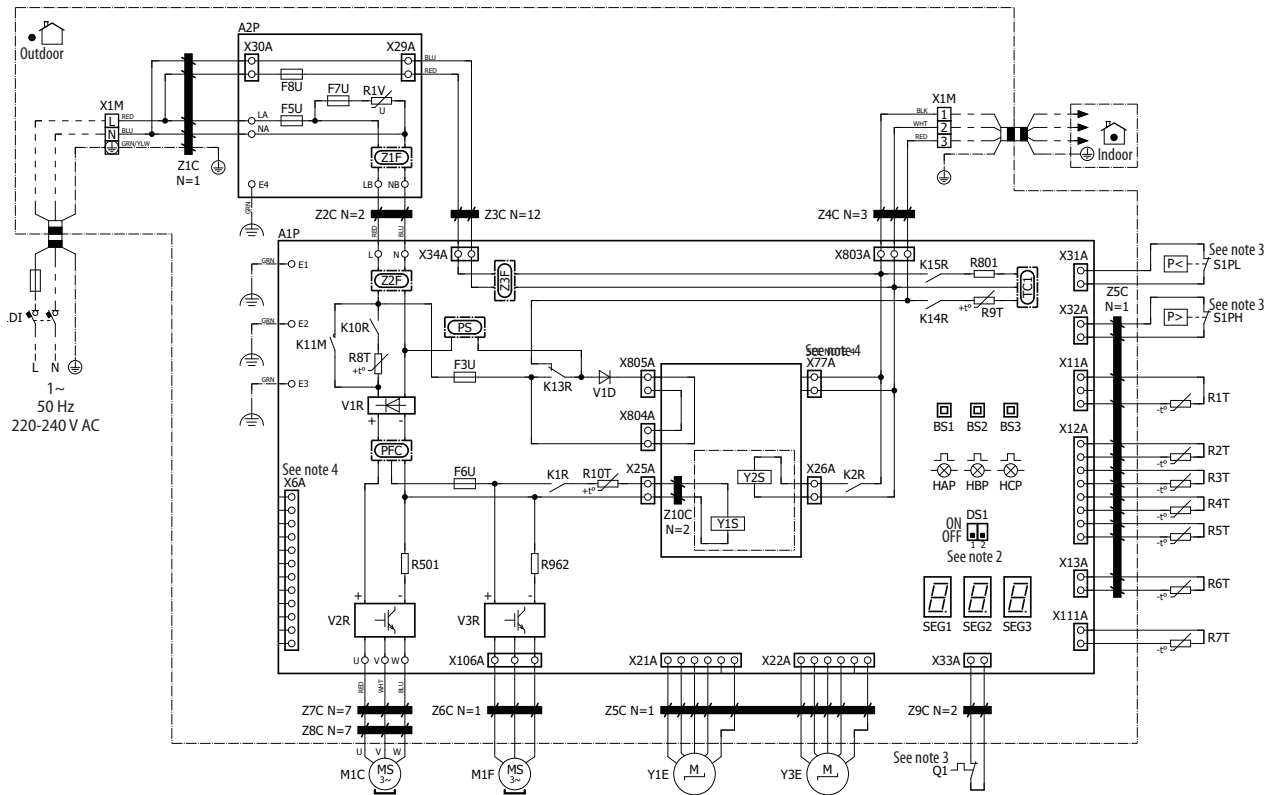
#: field supply

4D146951D

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

AZAS125MV RZASG125MV



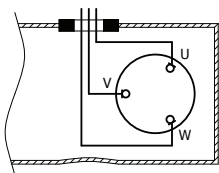
NOTES to go through before starting the unit

- X1M : Main terminal
- : Connection
- : Earth wiring
- - - : Field supply
- ⊕ : Protective earth
- ⊖ : Noiseless earth
- ⏏ : Field wire
- ⏏ : Switch box
- ⏏ : PCB

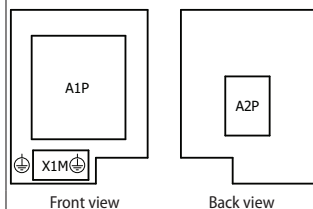
NOTES

- Colours: BLK: black; RED: red; BLU: blue; WHT: white; GRN: green; YLW: yellow
- Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
- When operating, do not short-circuit protection device(s) Q1, S1PH and S1PL.
- Refer to the option and service manual for how to connect the wiring to X6A and X77A.

POSITION OF COMPRESSOR TERMINAL



POSITION IN SWITCH BOX



LEGEND

Part n°	Description
A1P	printed circuit board (main)
A2P	printed circuit board (noise filter)
BS* (A1P)	push-button switch on PCB
DS1 (A1P)	slide switch on PCB
E* (A*P)	terminal (noiseless earth)
F3U (A1P)	fuse T6.3A, 250V
F5U (A2P)	fuse T56A, 250V
F6U (A1P)	fuse T5A, 250V
F7U (A1P)	fuse T6.3A, 250V
F8U (A2P)	fuse T6.3A, 250V

Part n°	Description
H*P (A1P)	light-emitting diode (service monitor is green)
K1R (A1P)	magnetic relay (Y1S)
K2R (A1P)	magnetic relay (Y2S)
K10R, K13R~K15R (A1P)	magnetic relay
K11M (A1P)	magnetic contactor
L* (A*P)	terminal (live)
M1C	compressor motor
M1F	fan motor
N* (A*P)	terminal (neutral)
PFC (A1P)	power factor correction
PS (A1P)	switching power supply
Q1	overload protection
Q1DI	# earth leakage circuit breaker
R1T	thermistor (air)
R2T	thermistor (discharge)
R3T	thermistor (suction)
R4T	thermistor (heat exchanger)
R5T	thermistor (heat exchanger middle)
R6T	thermistor (liquid)
R7T	thermistor (fin)
R8T~R10T (A1P)	thermistor (PTC)
R501~R962 (A1P)	resistor
R1V (A2P)	varistor
S1PH	high pressure switch (4.15MPa)
S1PL	low pressure switch (-0.03MPa)
SEG* (A1P)	7-segment display
TC1 (A1P)	signal transceiver circuit
U, V, W (A1P)	terminal (compressor)
V1D (A1P)	diode
V*R (A1P)	diode module / IGBT power module
X*A	connector
X1M	terminal strip
Y1E, Y3E	electronic expansion valve
Y1S	solenoid valve (4-way valve)
Y2S	solenoid valve (gas receiver)
Z*C	noise filter (ferrite core)
Z*F (A*P)	noise filter

#: field supply

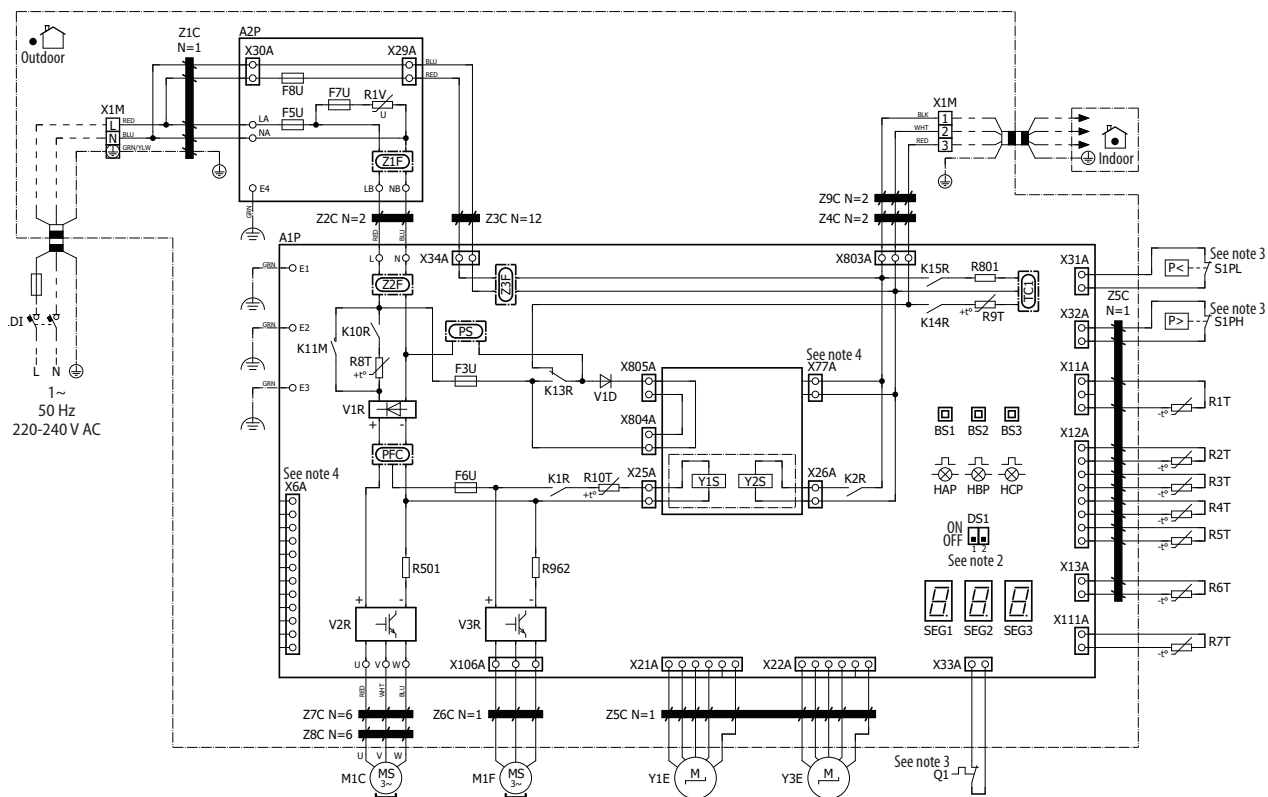
4D146950D

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

9

AZAS140MV
RZASG140MV



NOTES to go through before starting the unit

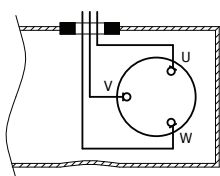
 : Main terminal
 : Connection
 : Earth wiring
 : Field supply
 : Protective earth
 : Noiseless earth

 : Field wire
 : Switch box
 : PCB

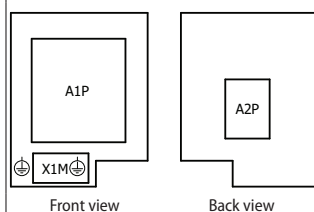
NOTES

1. Colours: BLK: black; RED: red; BLU: blue; WHT: white; GRN: green; YLW: yellow
2. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
3. When operating, do not short-circuit protection device(s) Q1, S1PH and S1PL.
4. Refer to the option and service manual for how to connect the wiring to X6A and X7A.

POSITION OF COMPRESSOR TERMINAL



POSITION IN SWITCH BOX



LEGEND

Part n°	Description
A1P	printed circuit board (main)
A2P	printed circuit board (noise filter)
BS* (A1P)	push-button switch on PCB
DS1 (A1P)	slide switch on PCB
E* (A*P)	terminal (noiseless earth)
F3U (A1P)	fuse T6.3A, 250V
F5U (A2P)	fuse T56A, 250V
F6U (A1P)	fuse T5A, 250V
F7U (A1P)	fuse T6.3A, 250V
F8U (A2P)	fuse T6.3A, 250V

Part n°	Description
H*P (A1P)	light-emitting diode (service monitor is green)
K1R (A1P)	magnetic relay (Y1S)
K2R (A1P)	magnetic relay (Y2S)
K10R, K13R~K15R (A1P)	magnetic relay
K11M (A1P)	magnetic contactor
L* (A*P)	terminal (live)
M1C	compressor motor
M1F	fan motor
N* (A*P)	terminal (neutral)
PFC (A1P)	power factor correction
PS (A1P)	switching power supply
Q1	overload protection
Q1DI	# earth leakage circuit breaker
R1T	thermistor (air)
R2T	thermistor (discharge)
R3T	thermistor (suction)
R4T	thermistor (heat exchanger)
R5T	thermistor (heat exchanger middle)
R6T	thermistor (liquid)
R7T	thermistor (fin)
R8T~R10T (A1P)	thermistor (PTC)
R501~R962 (A1P)	resistor
R1V (A2P)	varistor
S1PH	high pressure switch (4.15MPa)
S1PL	low pressure switch (-0.03MPa)
SEG* (A1P)	7-segment display
TC1 (A1P)	signal transceiver circuit
U, V, W (A1P)	terminal (compressor)
V1D (A1P)	diode
V*R (A1P)	diode module / IGBT power module
X*A	connector
X1M	terminal strip
Y1E, Y3E	electronic expansion valve
Y1S	solenoid valve (4-way valve)
Y2S	solenoid valve (gas receiver)
Z*C	noise filter (ferrite core)
Z*F (A*P)	noise filter

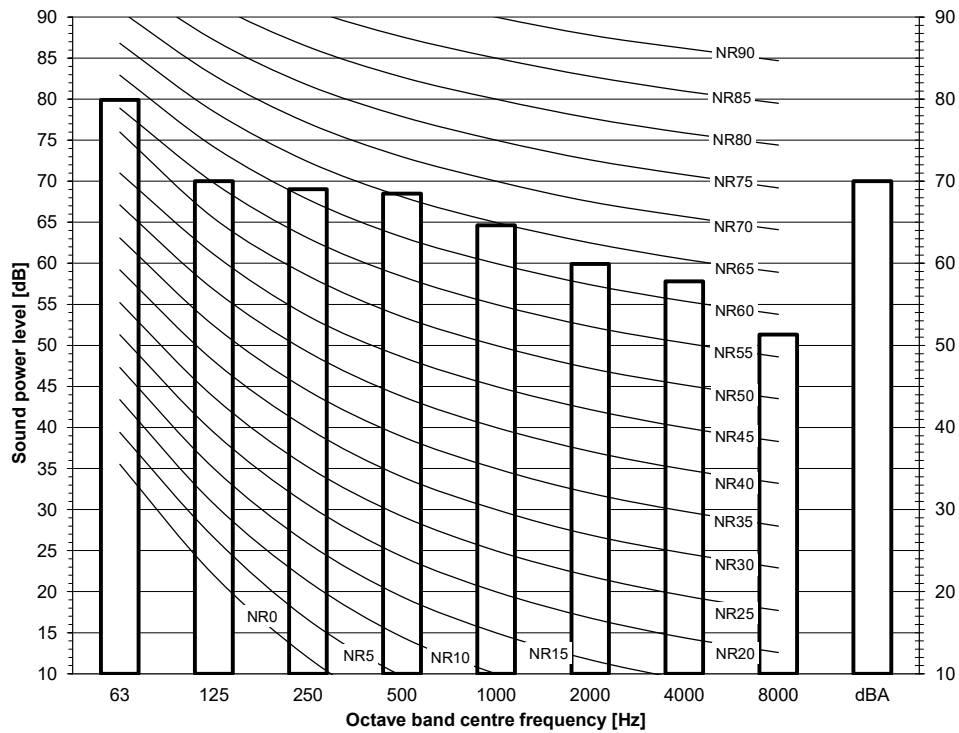
#: field supply

4D146958C

10 Sound data

10 - 1 Sound Power Spectrum - Cooling

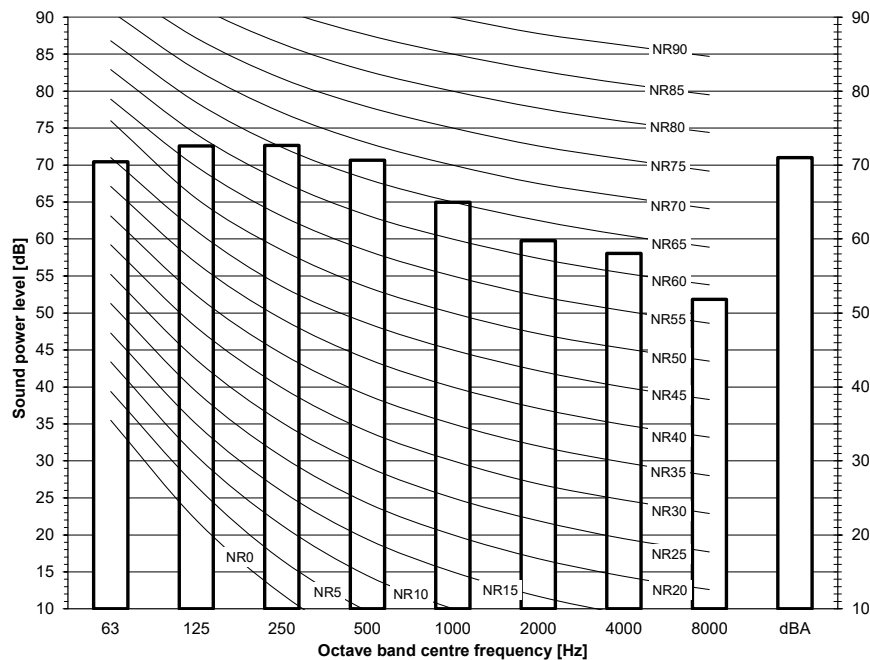
AZAS100MV
AZAS100MY
RZASG100MV
RZASG100MY



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

4D148922

AZAS125MV
AZAS125MY
RZASG125MV
RZASG125MY



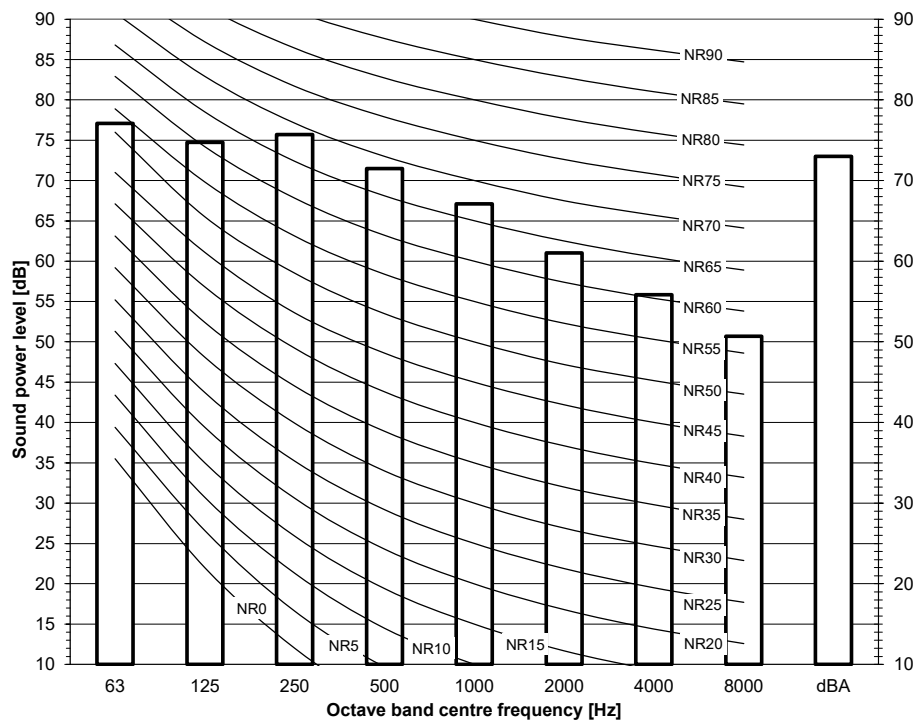
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{ dB} = -10\text{E-}6\mu\text{W/m}^2$.
- Measured according to ISO 3744

4D148923

10 Sound data

10 - 1 Sound Power Spectrum - Cooling

AZAS140MV
AZAS140MY
RZASG140MV
RZASG140MY



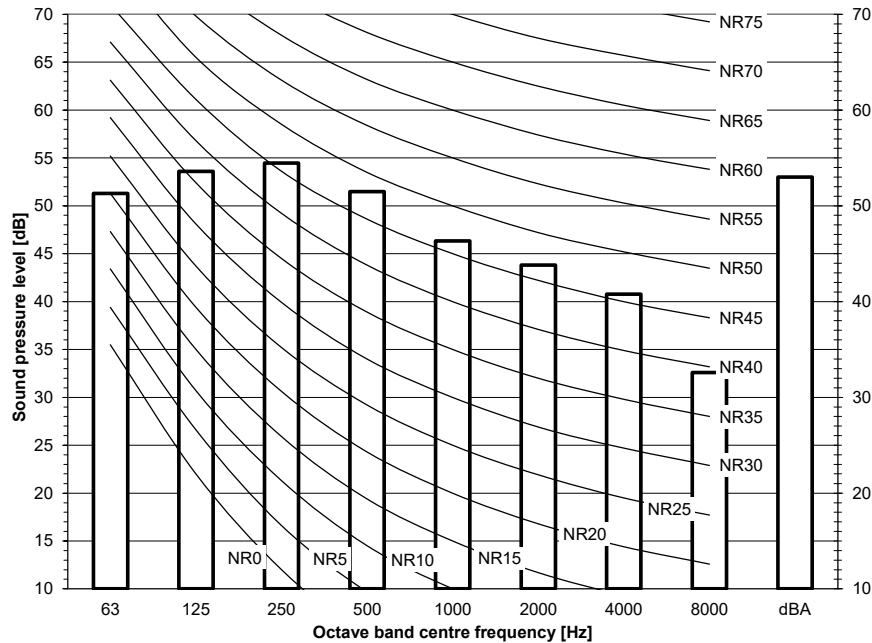
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $O_{dB} = 10^{-6} \text{ W/m}^2$.
- Measured according to ISO 3744

4D148924

10 Sound data

10 - 2 Sound Pressure Spectrum - Cooling

AZAS100MV
AZAS100MY
RZASG100MV
RZASG100MY

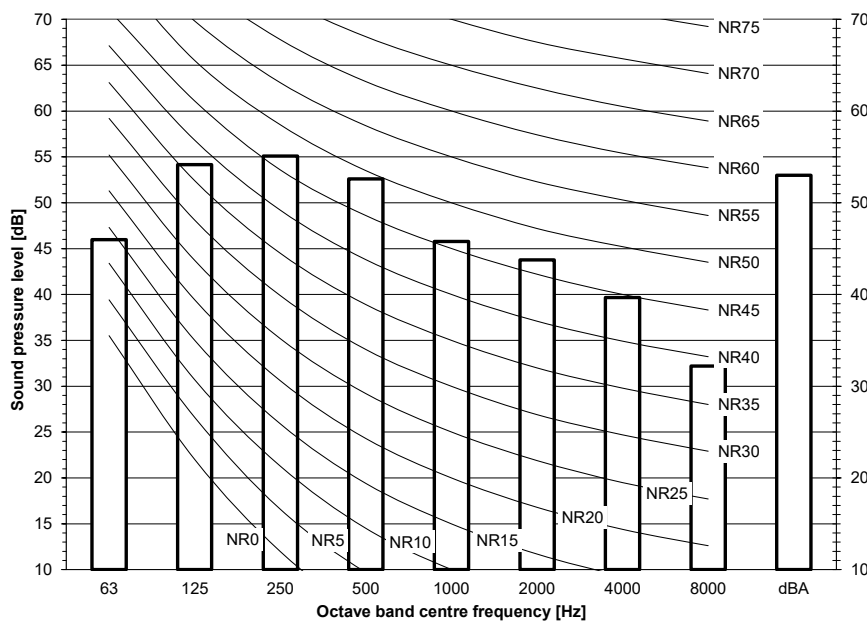


Notes

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

4D148937

AZAS125MV
AZAS125MY
RZASG125MV
RZASG125MY



Notes

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

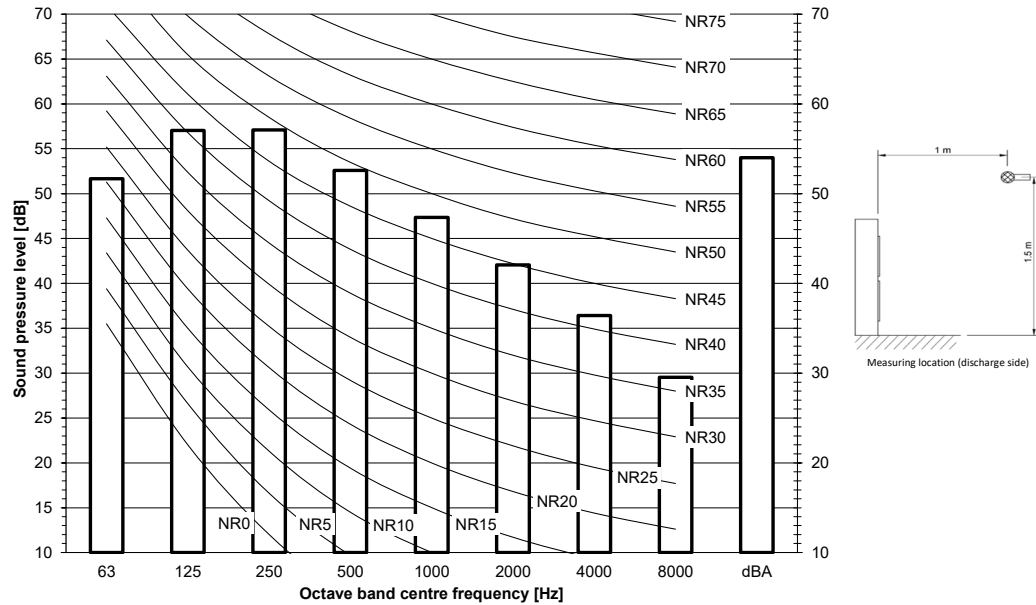
4D148938

10 Sound data

10 - 2 Sound Pressure Spectrum - Cooling

AZAS140MV
AZAS140MY
RZASG140MV
RZASG140MY

10



Notes

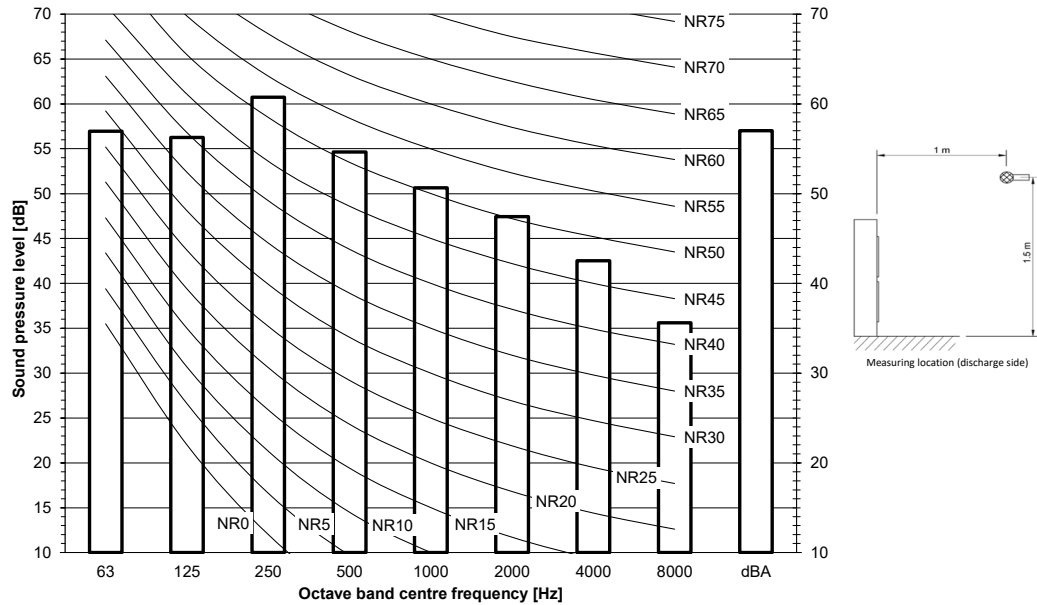
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

4D148939

10 Sound data

10 - 3 Sound Pressure Spectrum - Heating

AZAS100MV
AZAS100MY
RZASG100MV
RZASG100MY

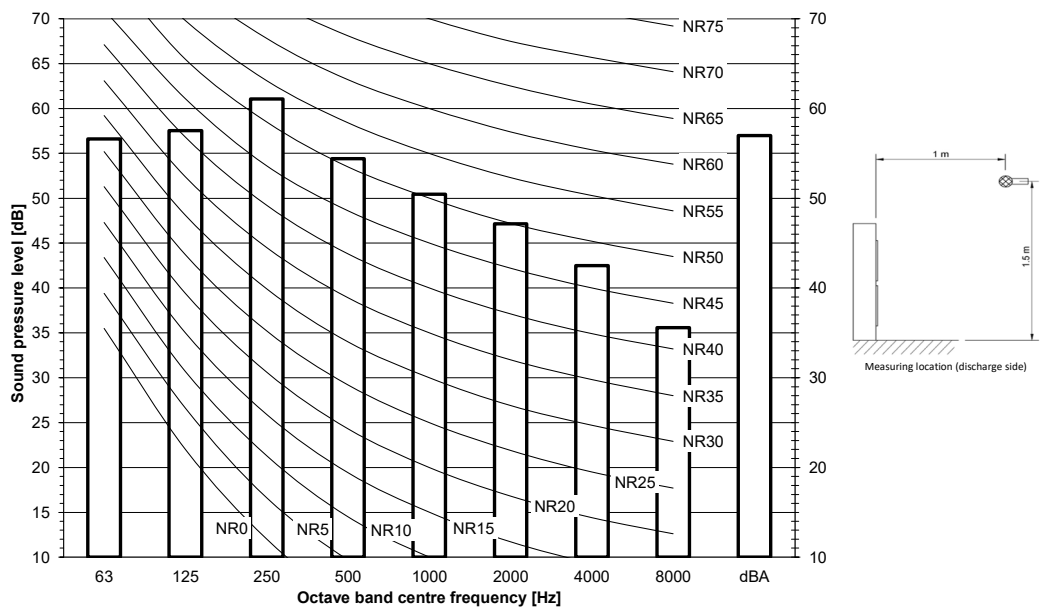


Notes

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

4D148934

AZAS125MV
AZAS125MY
RZASG125MV
RZASG125MY



Notes

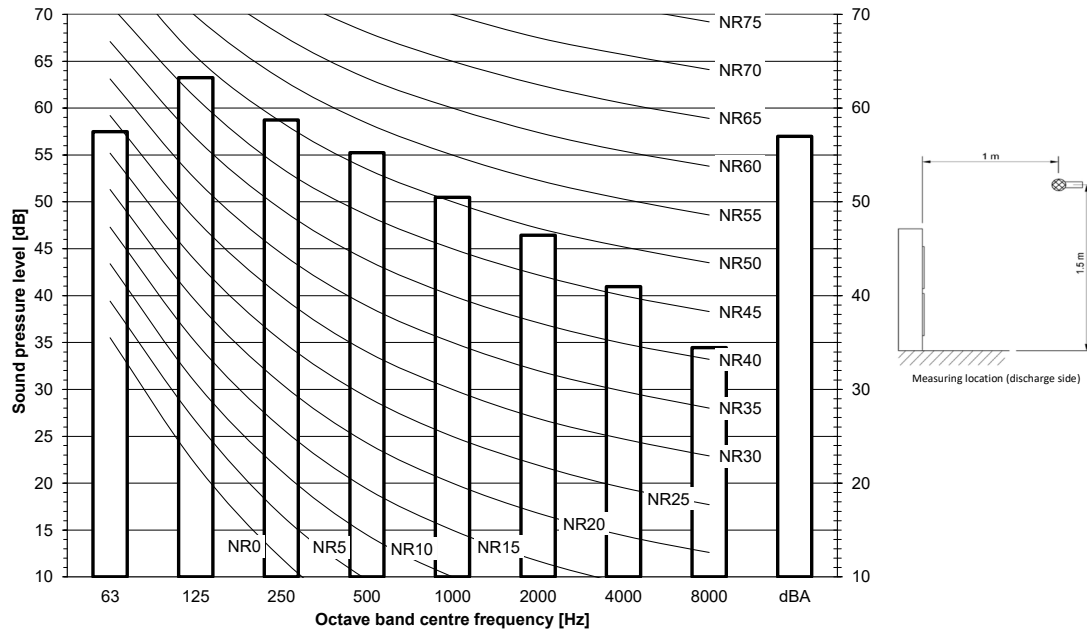
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

4D148935

10 Sound data

10 - 3 Sound Pressure Spectrum - Heating

AZAS140MV
AZAS140MY
RZASG140MV
RZASG140MY



Notes

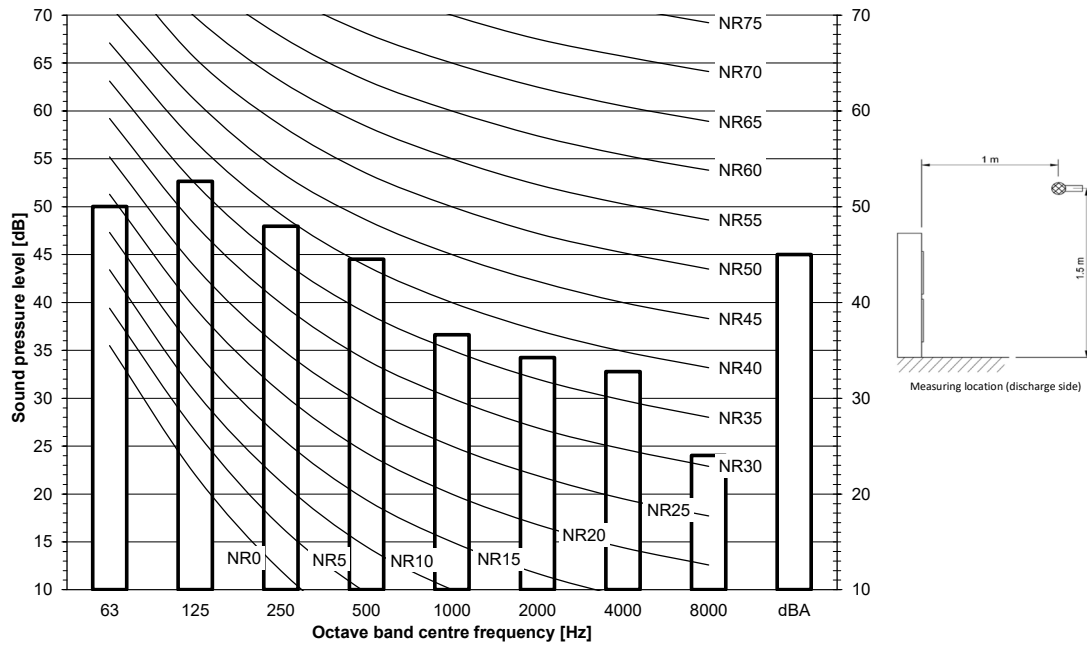
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

4D148936

10 Sound data

10 - 4 Sound Pressure Spectrum Quiet Mode

AZAS100MV
AZAS100MY
RZASG100MV
RZASG100MY

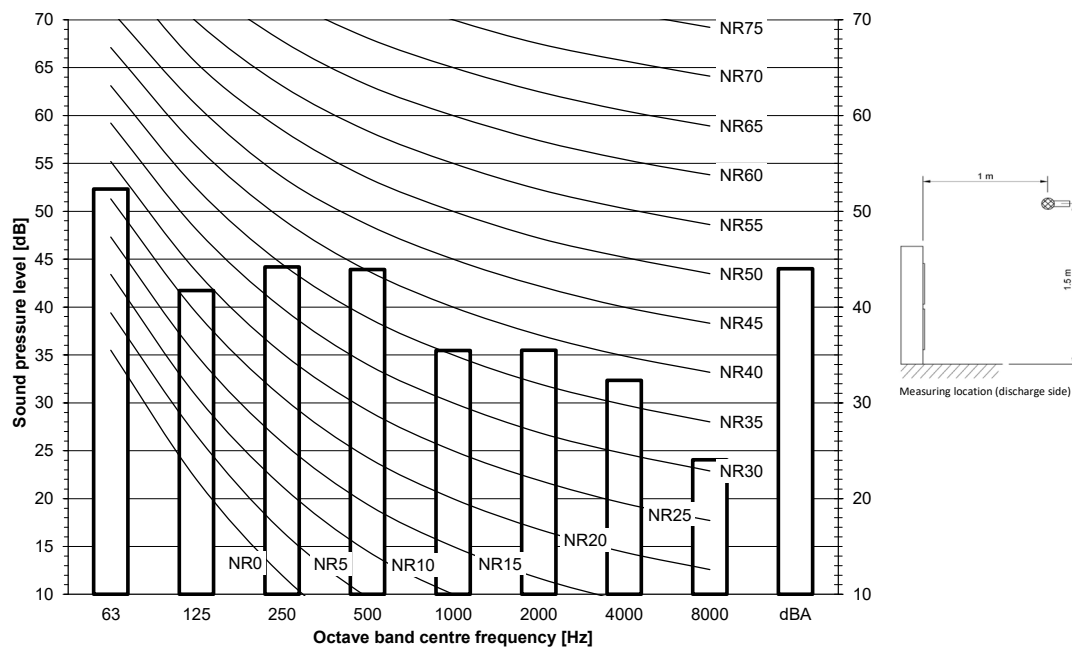


Notes

- 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

4D148925

AZAS100MV
AZAS100MY
RZASG100MV
RZASG100MY



Notes

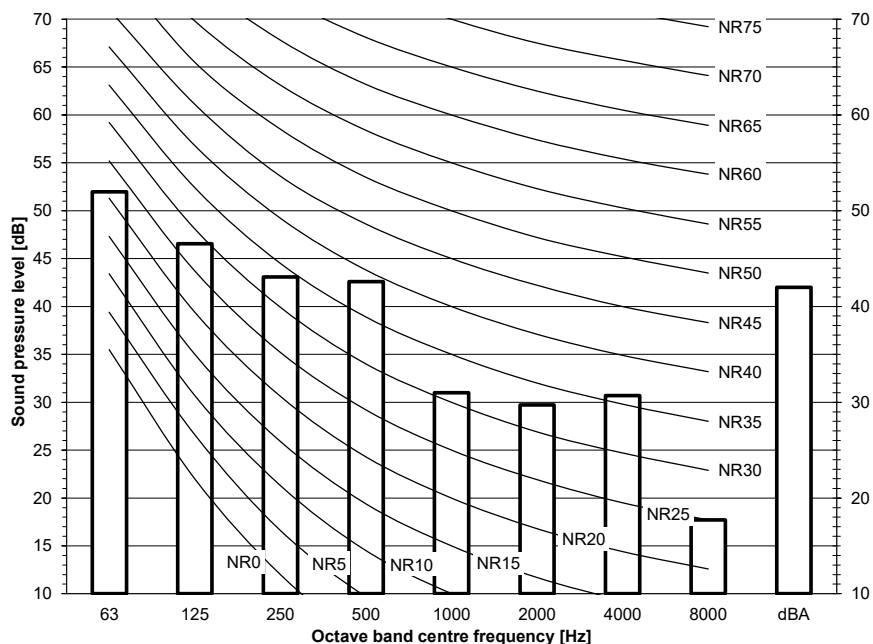
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

4D148926

10 Sound data

10 - 4 Sound Pressure Spectrum Quiet Mode

AZAS100MV
AZAS100MY
RZASG100MV
RZASG100MY

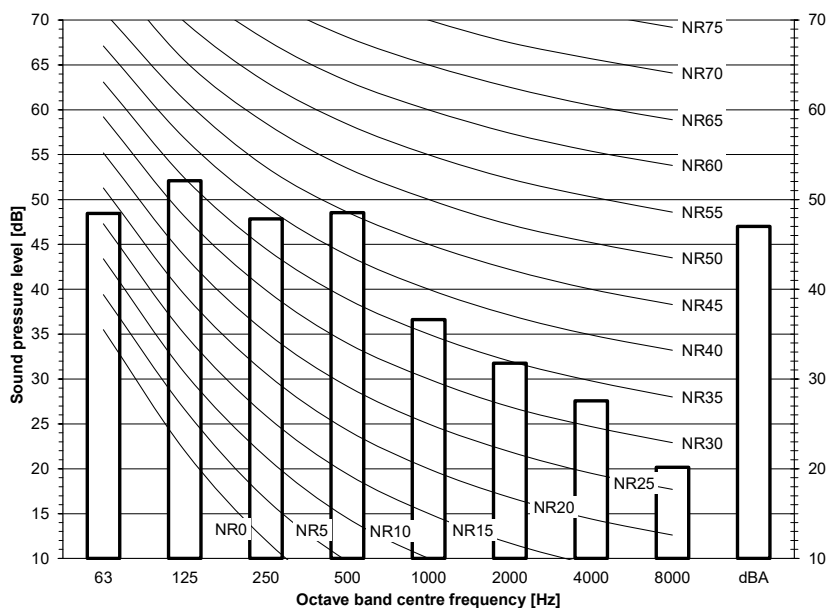


Notes

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

4D148927

AZAS125MV
AZAS125MY
RZASG125MV
RZASG125MY



Notes

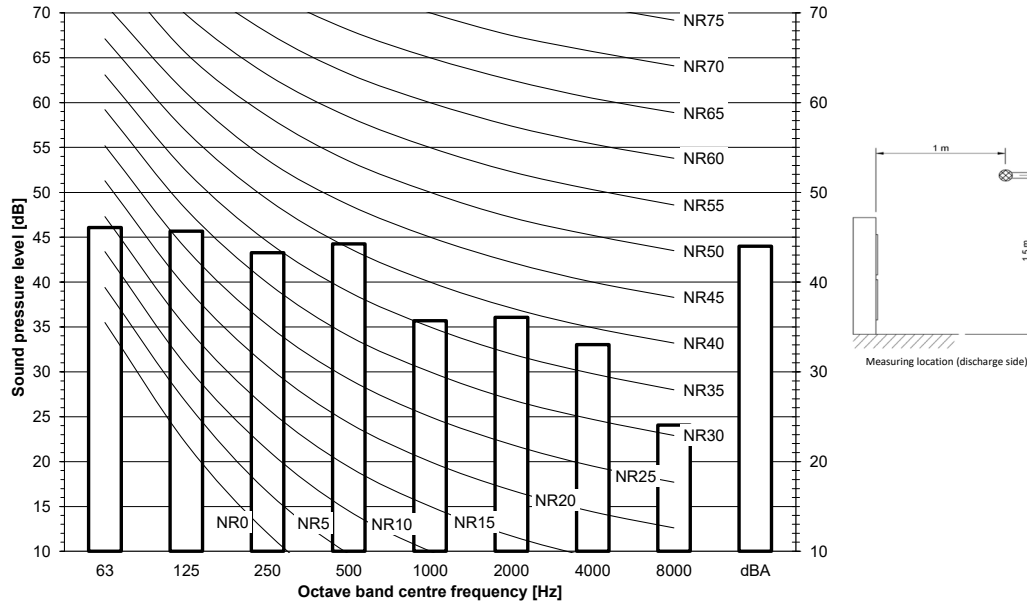
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

4D148928

10 Sound data

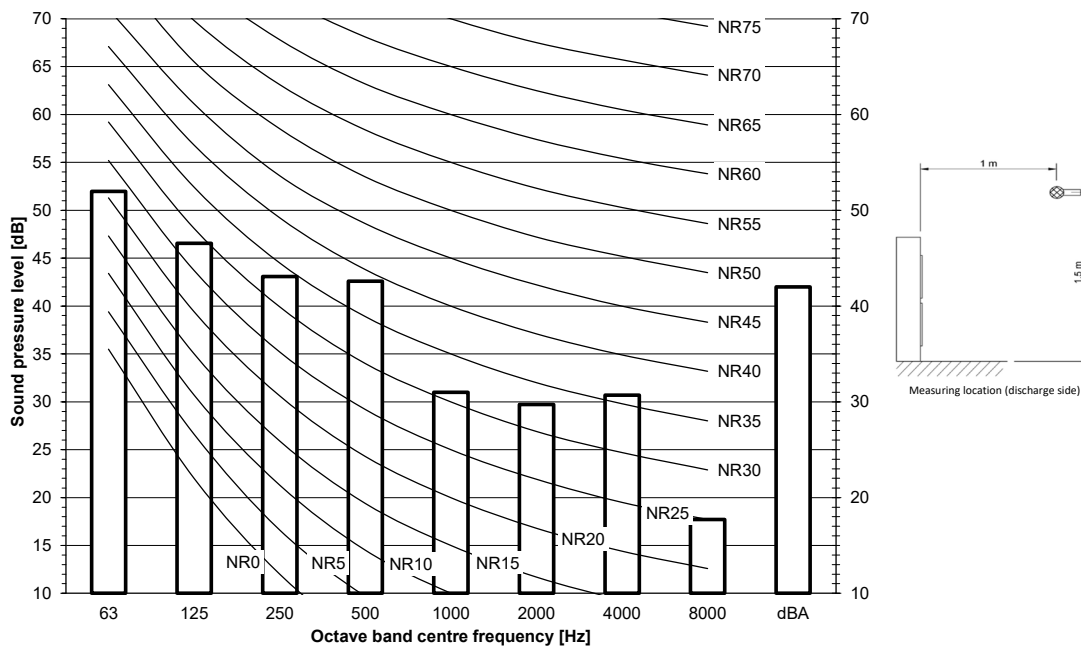
10 - 4 Sound Pressure Spectrum Quiet Mode

AZAS125MV
AZAS125MY
RZASG125MV
RZASG125MY



4D148929

AZAS125MV
AZAS125MY
RZASG125MV
RZASG125MY



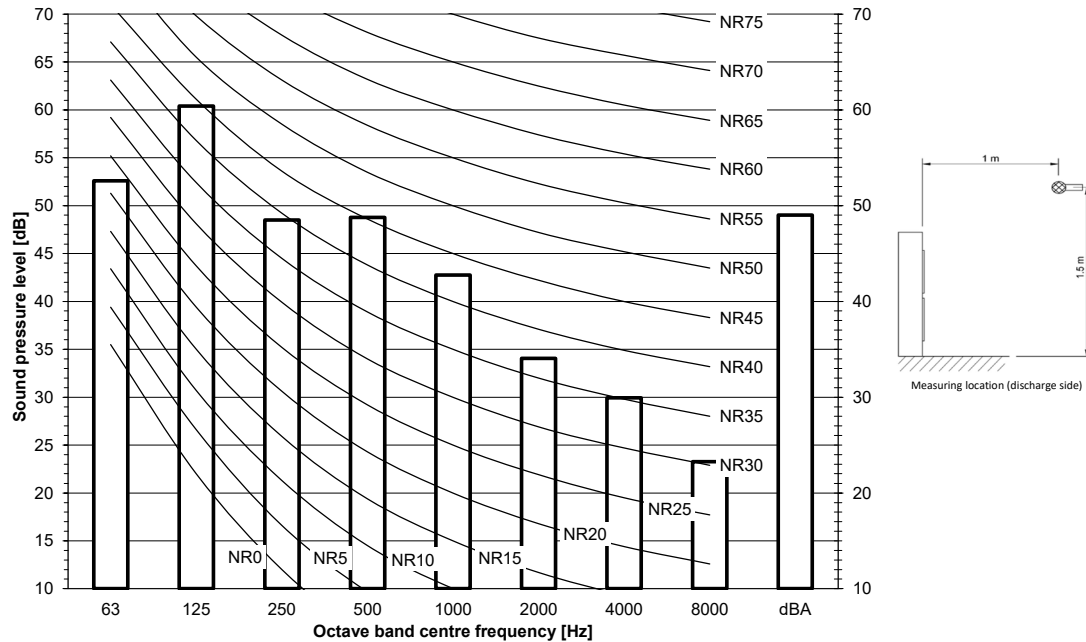
4D148930

10 Sound data

10 - 4 Sound Pressure Spectrum Quiet Mode

AZAS140MV
AZAS140MY
RZASG140MV
RZASG140MY

10

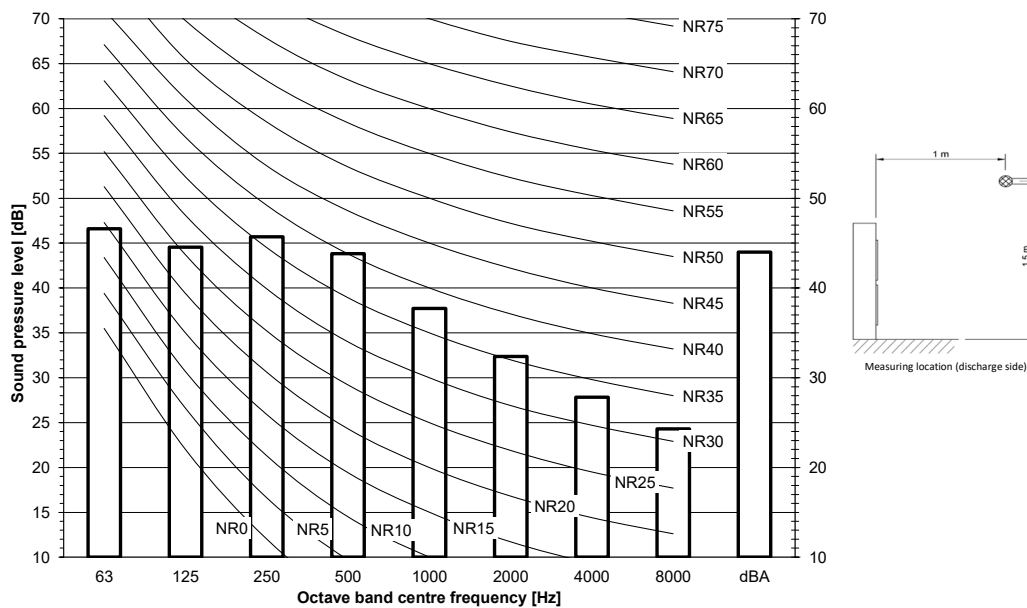


Notes

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

4D148931

AZAS140MV
AZAS140MY
RZASG140MV
RZASG140MY



Notes

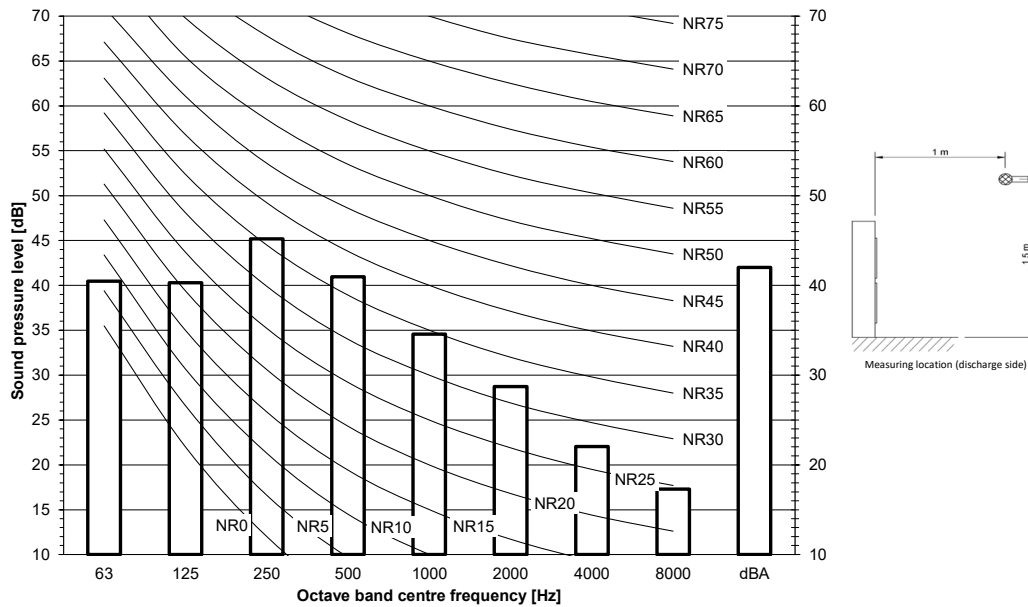
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

4D148932

10 Sound data

10 - 4 Sound Pressure Spectrum Quiet Mode

AZAS140MV
AZAS140MY
RZASG140MV
RZASG140MY



Notes

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

4D148933

11 Installation

11 - 1 Installation Method

11

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

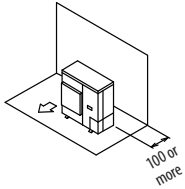
Installation servicing space

(The unit of the values is mm.)

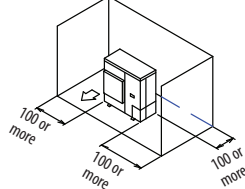
Installation of single unit

When nothing is obstructing the top

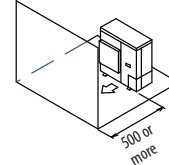
(1) In case obstacles exist only in front of the air inlet.



(2) In case obstacles exist in front of the air inlet and on both sides of the unit.

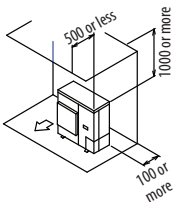


(3) In case obstacles exist only in front of outlet side.

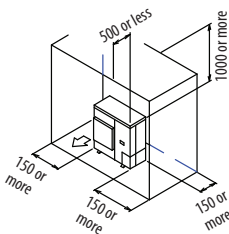


When something is obstructing the top

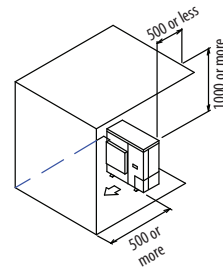
(1) In case obstacles exist in front of the air inlet.



(2) In case obstacles exist in front of the air inlet and on both sides of the unit.



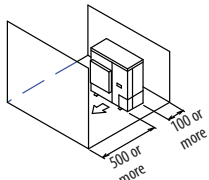
(3) In case obstacles exist in front of outlet side.



In case obstacles exist in front of both the air inlet and outlet sides

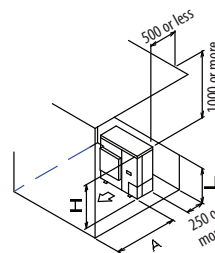
Pattern 1 Where obstacle in front of the air outlet is higher than the unit.

(1) When nothing is obstructing the top.
(There is no height limit for obstructions on the intake side.)



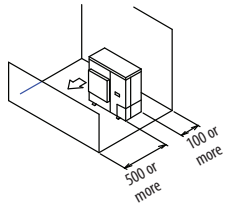
(2) When something is obstructing the top.
Relation of dimensions of H, A, and L are shown in the table below

	L	A
$L \leq H$	$0 < L \leq 1/2H$	750 or more
	$1/2H < L \leq H$	1000 or more
$L > H$	Set the frame to be $L \leq H$. Refer to the column of $L \leq H$ for A.	



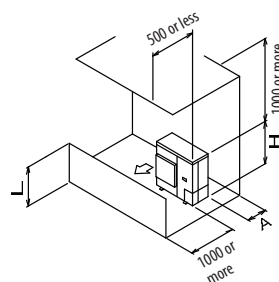
Pattern 2 Where obstacles in front of the air outlet is lower than the unit.

(1) When nothing is obstructing the top.
(There is no height limit for obstructions on the intake side.)



(2) When something is obstructing the top.
Relation of dimensions of H, A, and L are shown in the table below

	L	A
$L \leq H$	$0 < L \leq 1/2H$	100 or more
	$1/2H < L \leq H$	200 or more
$L > H$	Set the frame to be $L \leq H$. Refer to the column of $L \leq H$ for A.	



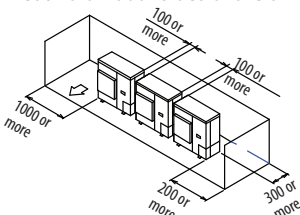
Get the lower part of the frame sealed so that air from the outlet does not bypass.

IN CASE OF INSTALLING MULTIPLE UNITS (2 UNITS OR MORE) IN LATERAL CONNECTION PER ROW

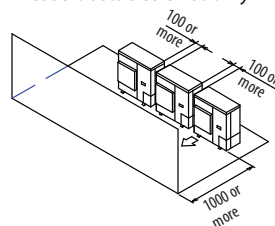
● Secure appropriate space when using a side piping outlet.

When nothing is obstructing the top

(1) In case obstacles exist in front of the air inlet and on both sides of the unit.



(2) In case obstacles exist only in front of outlet side.



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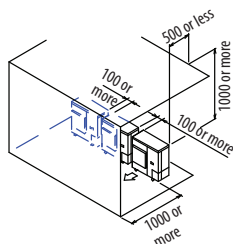
11 Installation

11 - 1 Installation Method

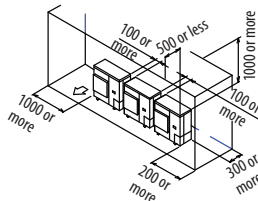
AZAS-MV/AZAS-MY/RZASG-MV/RZASG-MY

When something is obstructing the top

(1) In case obstacles exist in front of outlet side.



(2) In case obstacles exist in front of the air inlet and on both sides of the unit.

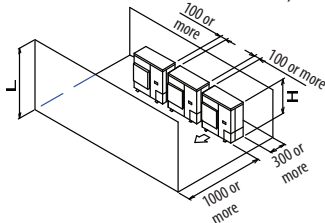


In case obstacles exist in front of both the air inlet and outlet sides

Pattern 1 Where obstacle in front of the air outlet is higher than the unit.

(1) When nothing is obstructing the top.

(There is no height limit for obstructions on the intake side.)



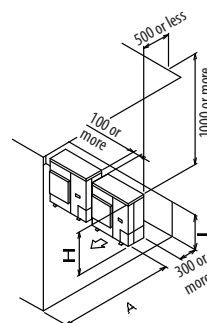
(2) When something is obstructing the top.

Relation of dimensions of H, A, and L are shown in the table below

	L	A
$L \leq H$	$0 < L \leq 1/2H$	1000 or more
	$1/2H < L \leq H$	1250 or more
$L > H$	Set the frame to be $L \leq H$. Refer to the column of $L \leq H$ for A.	

Get the lower part of the frame sealed so that air from the outlet does not bypass.

Only two units at most can be installed in series

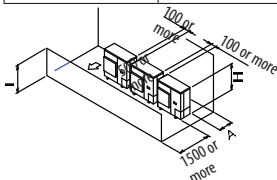


Pattern 2 Where obstacles in front of the air outlet is lower than the unit.

(1) When nothing is obstructing the top.

(There is no height limit for obstructions on the intake side.)

L	A
$0 < L \leq 1/2H$	250 or more
$1/2H < L \leq H$	300 or more



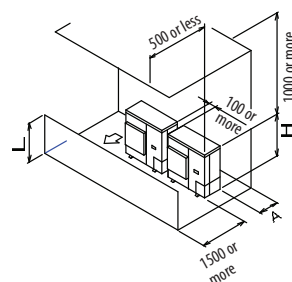
(2) When something is obstructing the top.

Relation of dimensions of H, A, and L are shown in the table below

	L	A
$L \leq H$	$0 < L \leq 1/2H$	250 or more
	$1/2H < L \leq H$	300 or more
$L > H$	Set the frame to be $L \leq H$. Refer to the column of $L \leq H$ for A.	

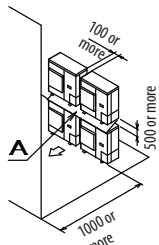
Get the lower part of the frame sealed so that air from the outlet does not bypass.

Only two units at most can be installed in series.

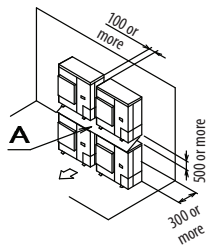


IN CASE OF STACKED INSTALLATION

(1) In case obstacles exist in front of outlet side.



(2) In case obstacles exist in front of the air inlet.



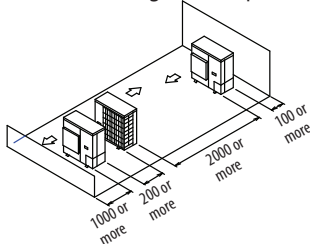
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to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

(A space of at least 500 mm is recommended.)

- 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 100 mm. (Close off the gap between the upper and lower units so there is no reintake of discharged air.)

IN CASE OF MULTIPLE-ROW INSTALLATION (FOR ROOF TOP USE, ETC.)

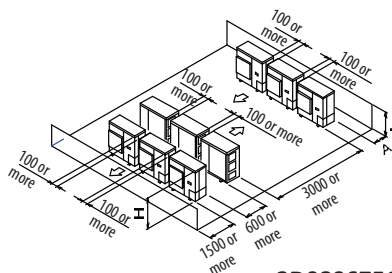
(1) In case of installing one unit per row.



(2) When something is obstructing the top.

Relation of dimensions of H, A, and L are shown in the table below

	L	A
$L \leq H$	$0 < L \leq 1/2H$	250 or more
	$1/2H < L \leq H$	300 or more
$L > H$	Installation impossible	



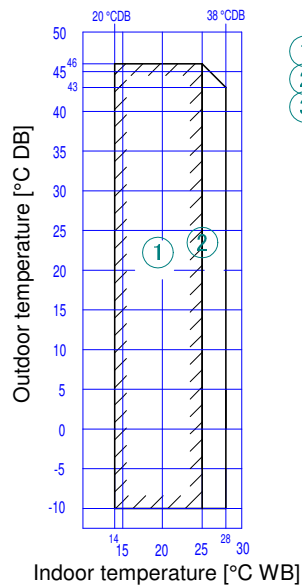
3D089675C

12 Operation range

12 - 1 Operation Range

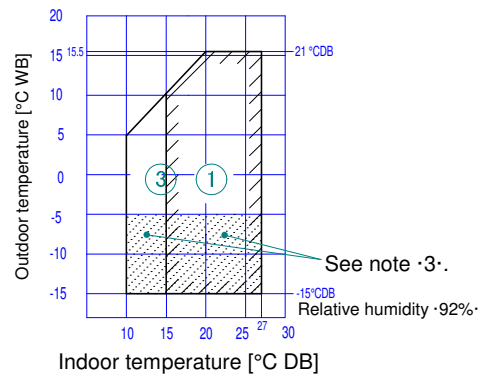
AZAS-MV
AZAS-MY

Cooling



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

Heating



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.

3D146957

13 Appropriate Indoors

13 - 1 Appropriate Indoors

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

ENER Lot 21

Recommended combinations

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

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

P = Pair

3 = Triple

2 = Twin

4 = Double twin

NOTES

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

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13 Appropriate Indoors

13 - 1 Appropriate Indoors

13

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

ENER Lot 10

Appropriate indoor units

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

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

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

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

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

-	FCAG71	-	FBA71	-	-	FAA71	-	-	-	-	-	ADEA71
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Connectable to -RZAG100M7V1B / RZAG100M7Y1B- and covered by -ENER Lot 10-

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

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

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

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

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

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

-	FCAG100	-	FBA100	-	-	FAA100	-	-	-	-	-	ADEA100
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Connectable to -AZAS100MUV / AZAS100MUY- and covered by -ENER Lot 10-

-	FCAG100	-	FBA100	-	-	FAA100	-	FVA100	-	FHA100	-	ADEA100
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Connectable to -RZAG125M7V1B / RZAG125M7Y1B- and covered by -ENER Lot 21-

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

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

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

Connectable to -RZASG125MUV / RZASG125MUY- and covered by -ENER Lot 21-

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

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

-	FCAG125	-	FBA125	-	-	-	-	-	-	-	AVA125	ADEA125
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Connectable to -AZAS125MUV / AZAS125MUY- and covered by -ENER Lot 21-

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

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

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

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

Connectable to -RZASG140MUV / RZASG140MUY- and covered by -ENER Lot 21-

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

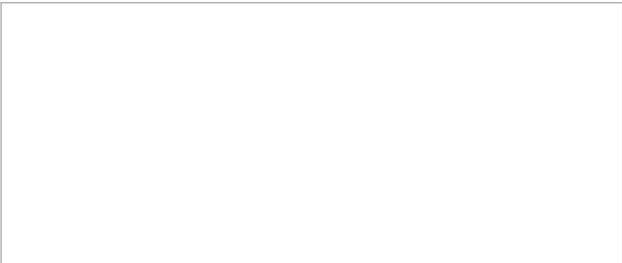
Connectable to -AZAS140M7V1B / AZAS140M7Y1B- and covered by -ENER Lot 21-

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

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