



Air Conditioning Technical Data

Outdoor units



EEDEN15-101

AZQS-BY1 UK

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AZQS-BY1 UK

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1 Features

Ideal solution for busy environments and small shops

- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Outdoor units are fitted with either a swing or scroll compressor, renowned for low noise and high energy efficiency
- Outdoor units for pair application
- Seasonal efficiency, optimized for all seasons.
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.

1



Inverter



Auto cooling-
heating
changeover

2 Specifications

2-1 Capacity and Power input				FCQG100F/AZQS100BY1 UK	FCQG125F/AZQS125BY1 UK	FCQG140F/AZQS140BY1 UK	
Indoor unit				FCQG100F	FCQG125F	FCQG140F	
Outdoor unit				AZQS100BY1 UK	AZQS125BY1 UK	AZQS140BY1 UK	
Cooling capacity	Nom.		kW	9.5	12.1	13.0	
Heating capacity	Nom.		kW	10.8	13.5	15.5	
Power input	Cooling	Nom.	kW	2.96	3.90	4.63	
	Heating	Nom.	kW	3.09	3.96	4.70	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A	-	-	
		Pdesign	kW	9.50	-	-	
		SEER		5.50	-	-	
		Annual energy consumption	kWh	605	-	-	
	Heating (Average climate)	Energy label		A	-	-	
		Pdesign	kW	7.60	-	-	
		SCOP		3.85	-	-	
		Annual energy consumption	kWh	2,764	-	-	
Nominal efficiency	EER			3.21	3.10	2.81	
	COP			3.50	3.41	3.30	
	Annual energy consumption			kWh	1,480	1,952	2,313
	Energy label	Cooling			A	B	-
		Heating			B		-

Notes

Annual energy consumption is according to Energy labeling directive 2002/31/EC

SEER and SCOP are according to EN 14825

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2-2 Technical Specifications				AZQS100BY1 UK	AZQS125BY1 UK	AZQS140BY1 UK	
Capacity control	Method			Inverter controlled			
Casing	Colour			Ivory white			
	Material			Painted galvanized steel plate			
Dimensions	Unit	Height	mm	990		1,430	
		Width	mm	940			
		Depth	mm	320			
	Packed unit	Height	mm	1,170		1,610	
		Width	mm	1,015			
		Depth	mm	422			
Weight	Unit		kg	82		101	
	Packed unit		kg	88		108	
Heat exchanger	Fin	Type		WF fin			
		Treatment		Anti-corrosion treatment (PE)			
Compressor	Quantity			1			
	Type			Hermetically sealed swing compressor			
	Starting method			Inverter driven			
Fan	Type			Propeller fan			
	Discharge direction			Horizontal			
	Quantity			1		2	
	Air flow rate	Cooling	Nom.	m³/min	76	77	83
			Super low	m³/min	-		
		Heating	Nom.	m³/min	83		62
Super low			m³/min	-			
			cfm	-			

2 Specifications

2

2-2 Technical Specifications					AZQS100BY1 UK	AZQS125BY1 UK	AZQS140BY1 UK	
Fan motor	Quantity				1		2	
	Model		Brushless DC motor					
	Output		W	200		94		
	Drive		Direct drive					
	Speed	Cooling	Super low	rpm	-			
Heating		Super low	rpm	-				
Sound power level	Cooling		dBA	70	71	70		
	Heating		dBA	-				
Sound pressure level	Cooling	Nom.	dBA	53	54	53		
	Heating	Nom.	dBA	57	58	54		
	Night quiet mode	Level 1	dBA	49				
Operation range	Cooling	Ambient	Min.	°CDB	-5			
			Max.	°CDB	46			
	Heating	Ambient	Min.	°CWB	-15			
			Max.	°CWB	15.5			
Refrigerant	Type		R-410A					
	Charge		kg	2.9		4.0		
			tCO ₂ eq	6.1		8.4		
	Control		Expansion valve (electronic type)					
	GWP		2,087.5					
	Circuits	Quantity		1				
Refrigerant oil	Type		FVC50K					
	Charged volume		l	0.9		1.35		
Piping connections	Liquid	Quantity		1				
		Type		Flare connection				
		OD	mm	9.52				
	Gas	Quantity		1				
		Type		Flare connection				
		OD	mm	15.9				
	Drain	Quantity		5				
		Type		Hole				
		ID	mm	-				
		OD	mm	26				
	Piping length	OU - IU	Min.	m	5			
			Max.	m	30			
		System	Equivalent	m	40			
			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						
Defrost method		Reversed cycle						
Defrost control		Sensor for outdoor heat exchanger temperature						
Safety devices	Item	01	High pressure switch					
		02	Fan motor thermal protection					
		03	Fuse					

2-3 Electrical Specifications					AZQS100BY1 UK	AZQS125BY1 UK	AZQS140BY1 UK	
Power supply	Name		Y1					
	Phase		3N~					
	Frequency		Hz	50				
	Voltage		V	380-415				
	Voltage range	Min.	%	-10				
Max.		%	10					

2 Specifications

2-3 Electrical Specifications			AZQS100BY1 UK	AZQS125BY1 UK	AZQS140BY1 UK
Current	Zmax	List	Complies to EN61000-3-11		
	A	Recommended fuses	20	25	
Current - 50Hz	Maximum fuse amps (MFA)	A	-		
Current - 60Hz	Maximum fuse amps (MFA)	A	-		
Wiring connections	For power supply	Remark	See installation manual outdoor unit		
	For connection with indoor	Remark	See installation manual outdoor unit		
Power supply intake			Outdoor unit only		

Notes

PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC

Minimum Ssc (=Short-circuit power) value: Equipment complying with EN/IEC 61000-3-12: European/International Technical Standard setting the limits for harmonic currents produced by equipment connected to public low-voltage systems with input current $>16A$ and $\leq 75A$ per phase

See separate drawing for electrical data

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

AZQS-B (8) V1
AZQS-BY1

Indoor	Outdoor	Hz	Power supply	Voltage range	Comp					OFM		IFM	
					MCA	TOCA	MFA	MSC	RLA	KW	FLA	kW	FLA
FCQG71FVEB	AZQS71B2V1B	50Hz	~220-240V	Min. 198V Max. 264V	18.7	—	20	—	16.2	0.07	0.3	0.054	0.4
FCQG100FVEB	AZQS100B8V1B				28.4	—	32	—	24.4	0.2	0.6	0.117	0.7
FCQG125FVEB	AZQS125B8V1B				28.8	—	32	—	24.4	0.2	0.6	0.168	1.0
FCQG140FVEB	AZQS140B8V1B				28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FCQG100FVEB	AZQS100B7Y1B	3N~50Hz	380-415V	Min. 342V Max. 456V	14.1	—	16	—	11.4	0.2	0.6	0.117	0.7
FCQG125FVEB	AZQS125B7Y1B				14.5	—	16	—	11.4	0.2	0.6	0.168	1.0
FCQG140FVEB	AZQS140B7Y1B				17.8	—	20	—	14.2	0.094+0.094	0.4+0.4	0.168	1.0

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 amps
- 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.
 - The next lower standard fuse rating is minimum 15 ampere.
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 _____

4 Options

4 - 1 Options

AZQS-BY1

Name of option	Kit name
	AZQS100BY1
	AZQS125BY1
	AZQS140BY1
Demand adapter kit	KRP58M51

4D080869

5 Combination table

5 - 1 Combination Table

AZQS-B(8)V1

AZQS-BY1

5

Sky Air Model	Roundflow cassette			
	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB
AZQS71B2V1B	P			
AZQS100B8V1B		P		
AZQS125B8V1B			P	
AZQS140B8V1B				P
AZQS100B7Y1B		P		
AZQS125B7Y1B			P	
AZQS140B7Y1B				P

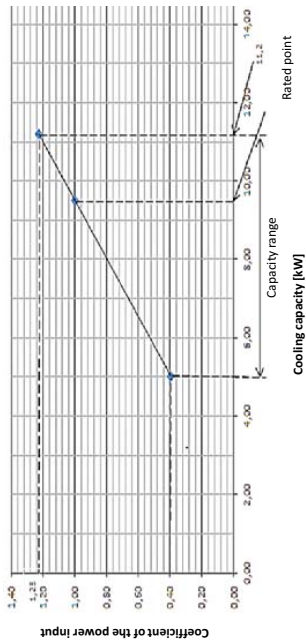
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6 Capacity tables

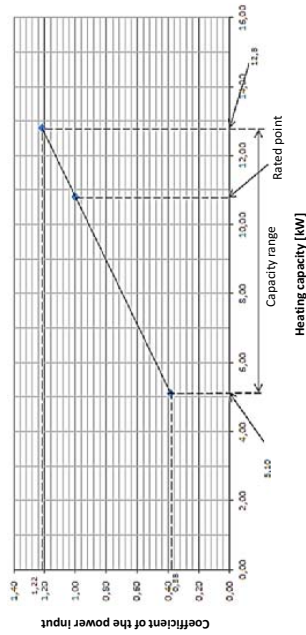
6 - 1 Cooling/Heating Capacity Tables

AZQS100B8V1
AZQS100BY1

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	30				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	7.08	1.33
19.0	27	12.0	7.57	1.02	11.6	7.44	1.12	11.2	7.26	1.23	10.8	7.04	1.33
19.5	27	12.1	7.59	1.02	11.7	7.37	1.13	11.4	7.34	1.23	10.9	7.04	1.34
22.0	30	12.8	7.52	1.02	12.4	7.36	1.13	11.9	7.16	1.24	11.5	7.03	1.35
24.0	32	13.3	7.42	1.03	12.9	7.27	1.14	12.4	7.06	1.25	12.0	6.91	1.36

Heating

Indoor	Outdoor temperature [°C WB]											
	-15.0	-10.0	-5.0	0.0	6.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
°CDB	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
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

- 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 (L-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: 0m
- 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.

FCOG100F	
AFR (BF)	32.0 (0.17)

FCOG100F	
Cooling	2.96
Heating	3.09

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

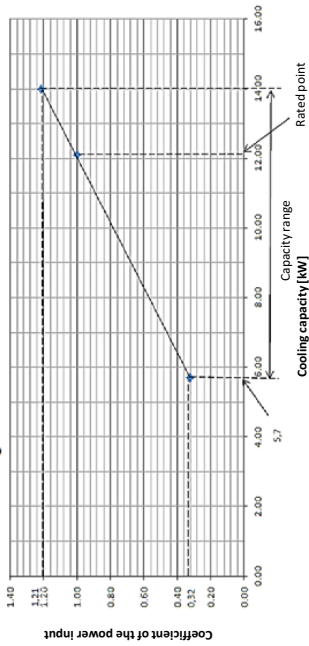
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6 Capacity tables

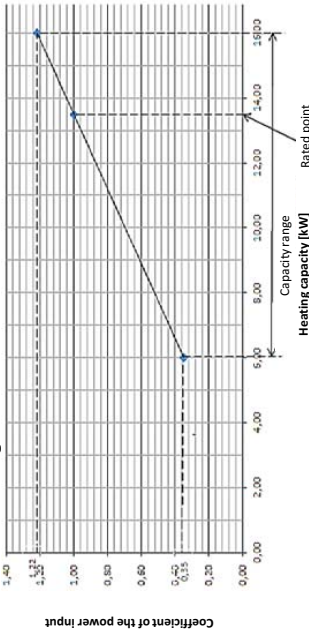
6 - 1 Cooling/Heating Capacity Tables

AZQS125B8V1
AZQS125BY1

Cooling



Heating



Symbols
 AFR: Air flow rate (m³/min)
 BF: Bypass factor
 EW/B: Entering wet-bulb temperature (°C WB)
 ED/B: 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	40		35		30		25				
°C WB	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	14.1	0.94	13.6	9.30	1.09	13.1	9.12	1.19	12.6	8.78	1.29	—	—	—
18.0	25	14.7	0.99	14.2	9.32	1.09	13.7	9.08	1.20	13.2	8.83	1.31	—	—	—
19.0	27	15.0	0.92	14.5	9.34	1.10	14.0	9.06	1.20	13.5	8.87	1.31	—	—	—
19.5	27	15.2	0.92	14.7	9.26	1.11	14.2	9.08	1.20	13.6	8.81	1.31	—	—	—
22.0	30	16.0	0.99	15.5	9.14	1.11	14.9	8.95	1.21	14.4	8.74	1.32	—	—	—
24.0	32	16.7	0.91	16.1	9.08	1.12	15.5	8.83	1.23	15.0	8.63	1.33	—	—	—

Heating

Indoor	Outdoor temperature [°C WB]													
	-15.0	-10.0	-5.0	0.0	6.0	10.0	10.0		5.0		0.0			
°C DB	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
16	10.7	0.93	11.8	0.99	12.6	1.02	13.0	1.05	16.0	1.12	17.3	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**
- 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 EW/B & ED/B.
 SHC for other dry-bulb temperatures = SHC + SHC*
 SHC* = SHC correction for other dry-bulb temperatures
 = 0.02 x AFR (m³/min) x (1.8F + (DB* - ED/B))
 Outdoor air: 85% RH
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0m
 - 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 de frost operation.
 The air flow rate and bypass factor are mentioned in the table.

FCQG125F	
AFR (BF)	33.0 (0.21)

FCQG125F	
Cooling	3.90
Heating	3.96

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

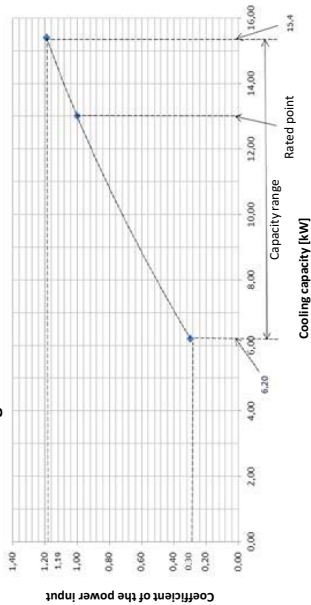
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6 Capacity tables

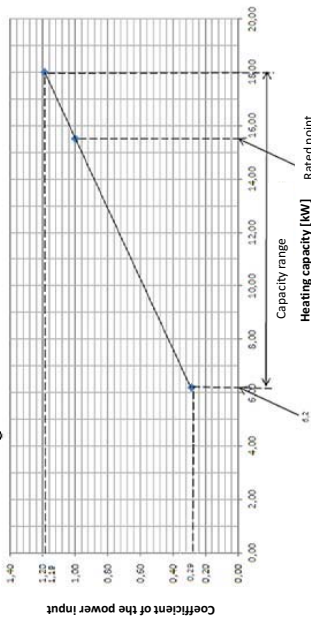
6 - 1 Cooling/Heating Capacity Tables

AZQS140B8V1
AZQS140BY1

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	45	50	55	60	65	70	75	80
°CWB	TC	SHC	OPI	TC	SHC	OPI	TC	SHC	OPI	TC	SHC	OPI
16.0	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	1.055	0.98	15.6	10.21	1.09	15.1	10.01	1.19	14.5	9.71
19.0	27	16.6	1.043	0.99	16.0	10.18	1.09	15.4	9.98	1.19	14.8	9.76
19.5	27	16.7	1.049	0.99	16.1	10.16	1.10	15.6	10.00	1.19	15.0	9.66
22.0	30	17.6	1.037	0.99	17.0	10.16	1.10	16.4	9.83	1.21	15.8	9.60
24.0	32	18.4	1.020	1.00	17.7	10.00	1.11	17.0	9.67	1.22	16.4	9.47

Heating

Indoor	Outdoor temperature [°C WB]											
	-15.0	-10.0	-5.0	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
°CDB	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	18.0	1.09	19.4	1.16
18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	18.0	1.14	19.4	1.21
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	18.0	1.19	19.4	1.25
21	11.5	1.00	12.7	1.06	13.5	1.11	13.9	1.13	18.0	1.21	19.4	1.28
22	11.5	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.24	19.4	1.30
24	11.5	1.07	12.6	1.12	13.5	1.17	13.9	1.20	18.0	1.29	19.4	1.35

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - = Maximum 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 (L-BF) x (DB* - EDB)
 Outdoor air: 85% RH
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0m
 - 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.

FCQG140F	
AFR (BF)	33.0 (0.23)

FCQG140F	
Cooling	4.63
Heating	4.70

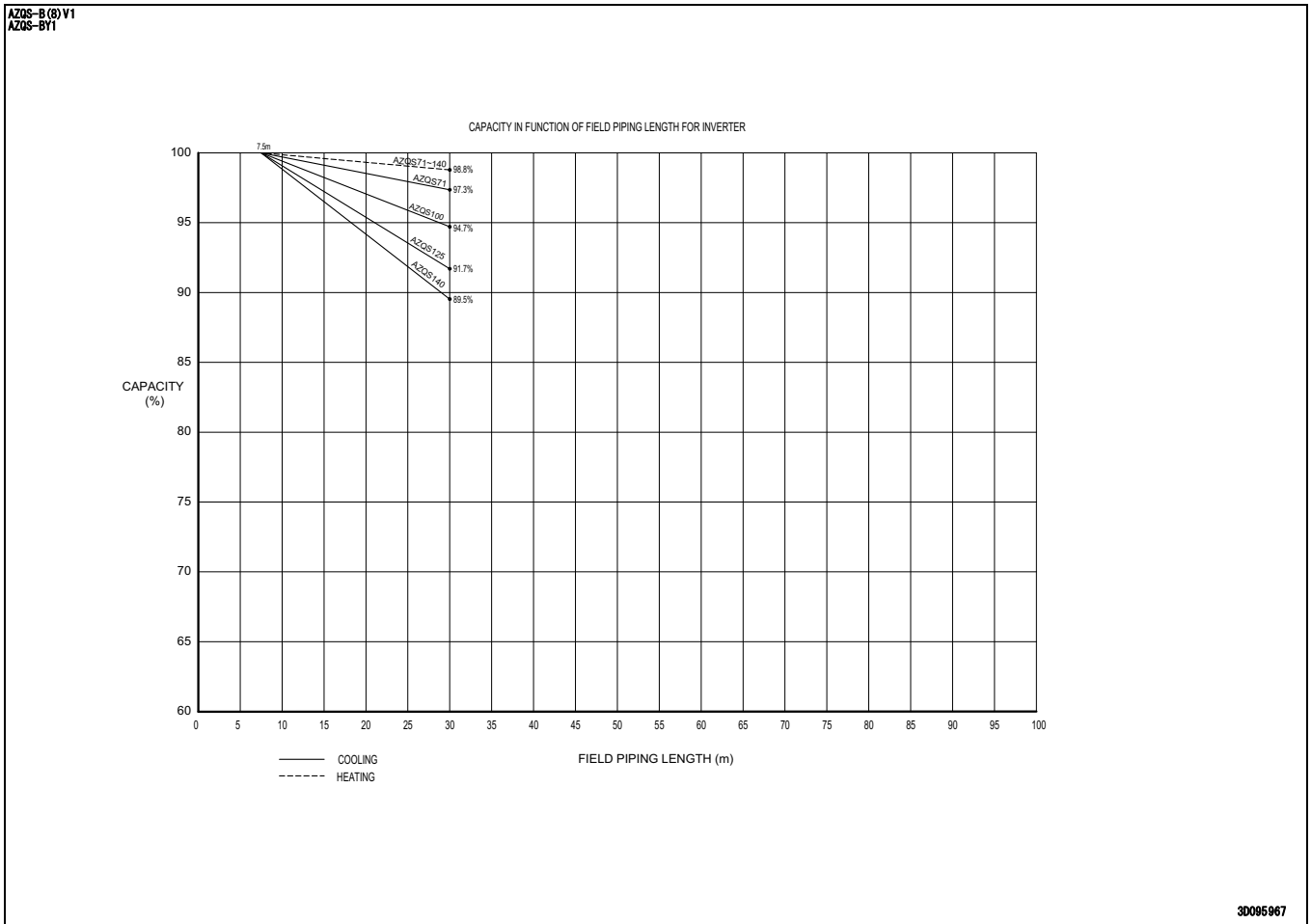
9. The rated power input for each model is mentioned in the table below.

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6 Capacity tables

6 - 2 Capacity Correction Factor

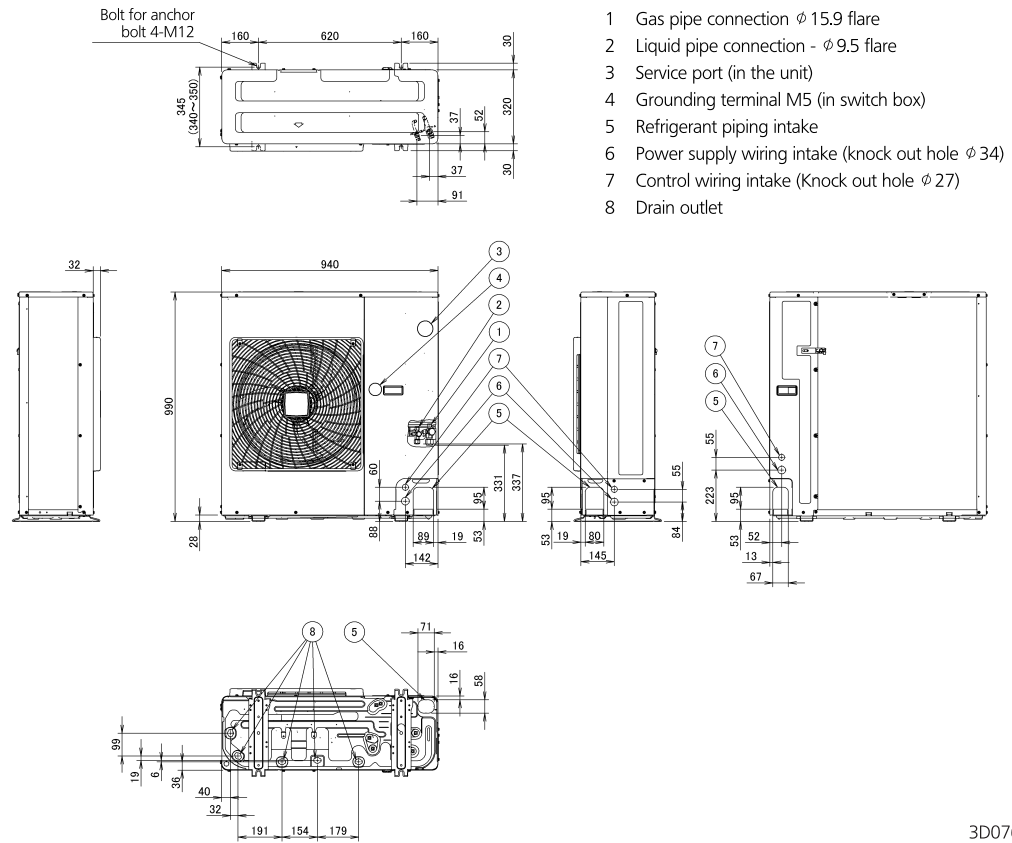
6



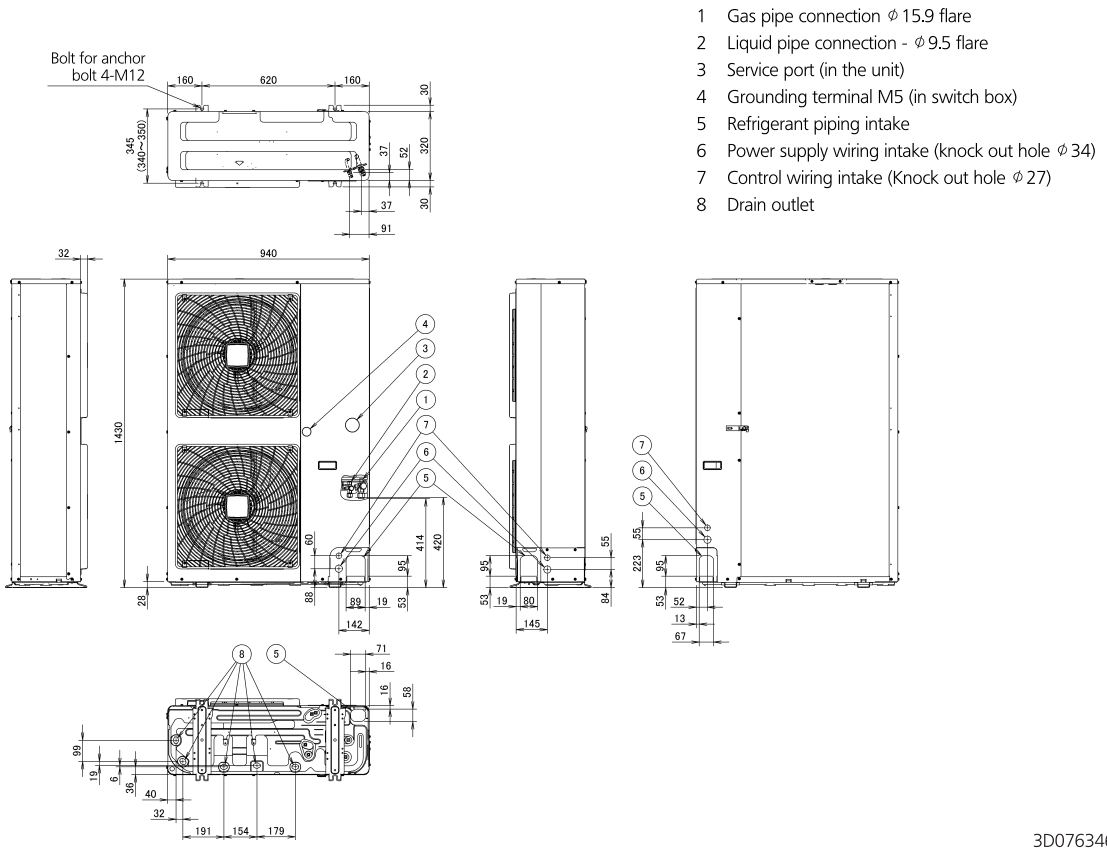
7 Dimensional drawings

7 - 1 Dimensional Drawings

AZQS100-125BY1



AZQS140BY1

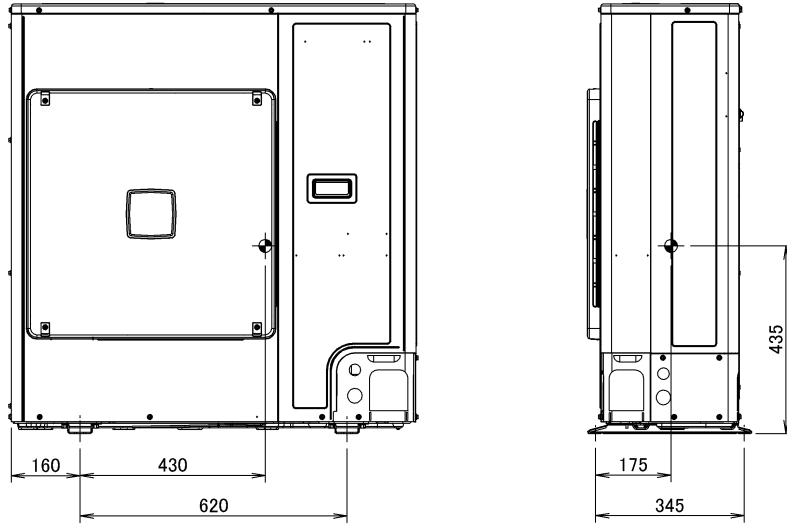


8 Centre of gravity

8 - 1 Centre of Gravity

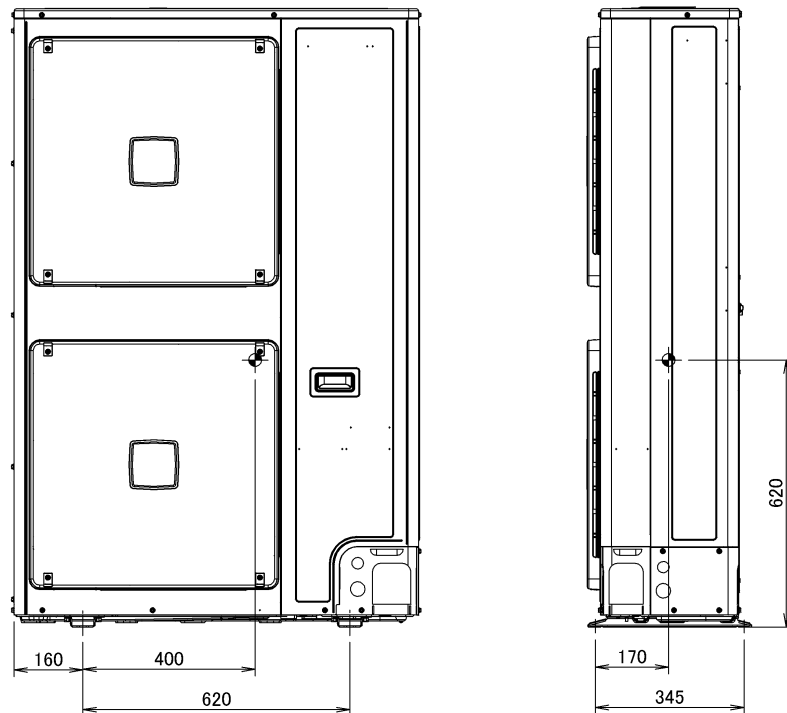
8

AZQS100-125BY1



4D077809

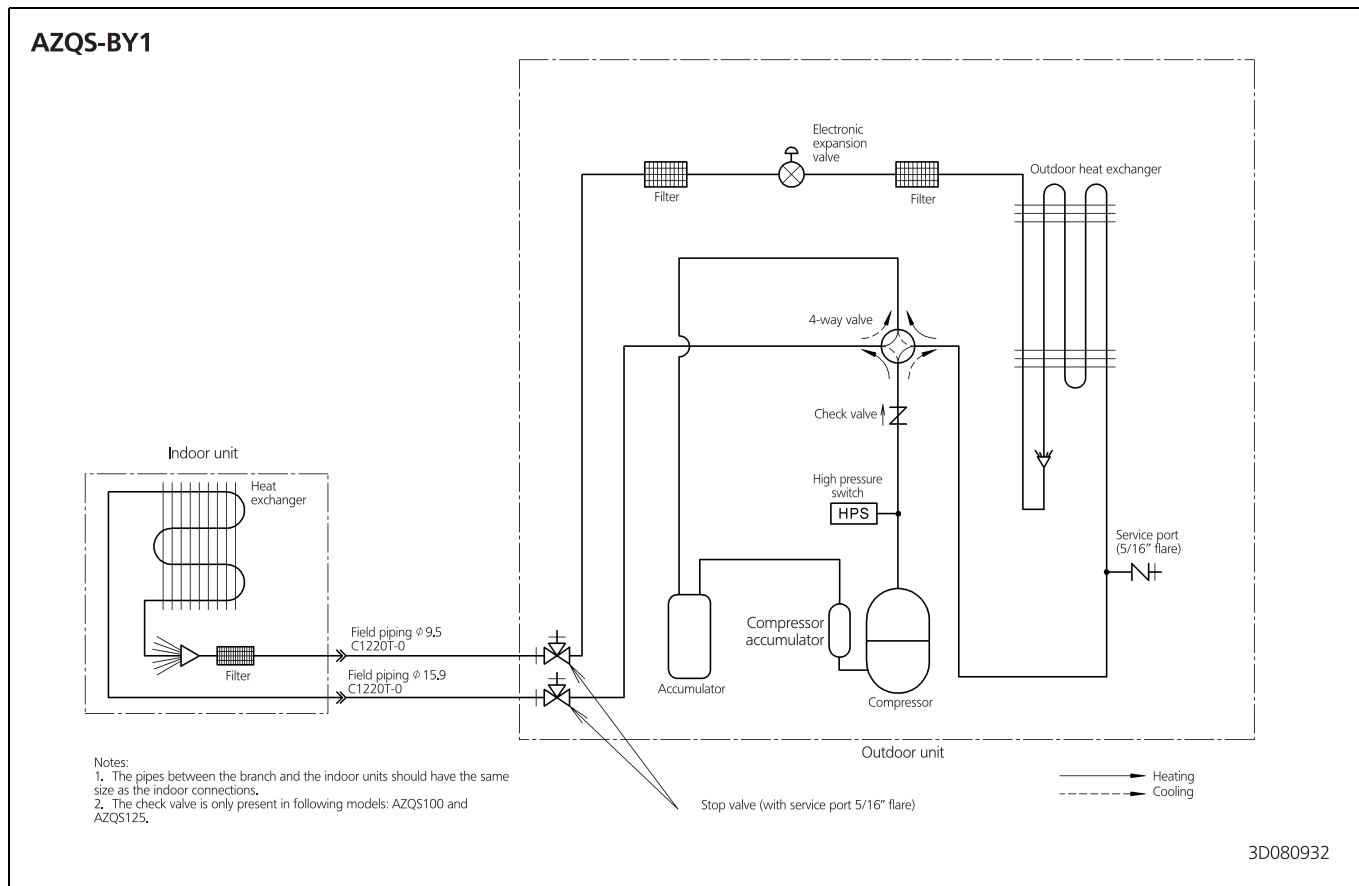
AZQS140BY1



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9 Piping diagrams

9 - 1 Piping Diagrams



10 Wiring diagrams

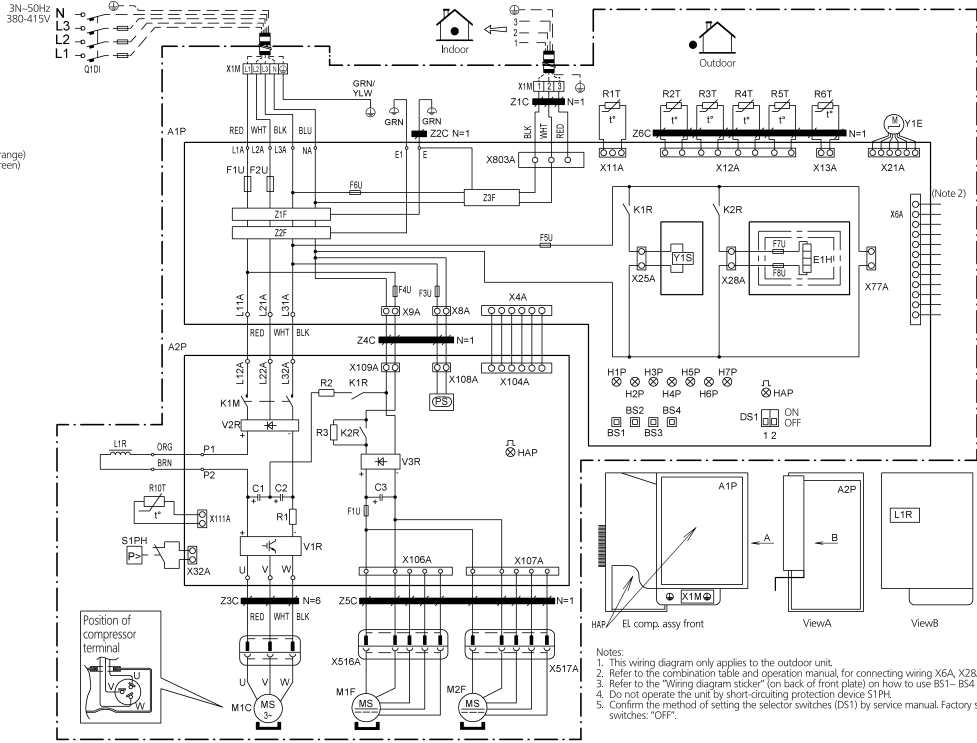
10 - 1 Wiring Diagrams - Three Phase

10

AZQS140BY1

- A1P : Printed circuit board
- A2P : Printed circuit board (Inverter)
- B51-B52 : Push button switch
- C1-C3 : Capacitor
- D51 : Dip switch
- E1H : Bottomplate heater (Option)
- F1U : Fuse (31.5A / 250V)
- F2U : Fuse (31.5A / 250V)
- F3U-F6U : Fuse (T 6.3A / 250V)
- F7U-F8U : Fuse (F 1.0A / 250V)
- F9U (A2P) : Fuse (F 5.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- H8P(A1P/A2P) : Light emitting diode (service monitor green)
- K1M : Magnetic contactor
- K1R (A1P) : Magnetic relay (Y15)
- K1R (A2P) : Magnetic relay
- K2R (A1P) : Magnetic relay (E1H Option)
- K2R (A2P) : Magnetic relay
- L1R : Reactor
- M1C : Motor (compressor)
- M1F : Motor (fan) (upper)
- M2F : Motor (fan) (lower)
- PS : Switching power supply
- Q1DI : Earth leakage breaker (30mA)
- R1-R3 : Resistor
- R1T : Thermistor (air)
- R2T : Thermistor (discharge)
- R3T : Thermistor (Suction)
- R4T : Thermistor (Heat exchanger)
- R5T : Thermistor (Heat exchanger middle)
- R6T : Thermistor (liquid)
- R10T : Thermistor (fin)
- S1PH : Pressure switch (High)
- V1R : KBT Power module
- V2R : Diode module
- X6A : Connector (Option)
- X1M : Terminal strip
- Y1E : Electronic expansion valve
- Y1S : Solenoid valve (4 way valve)
- Z1C-Z6C : Noise filter (ferrite core)
- Z1F-Z3F : Noise filter

- L: Live
 - N: Neutral
 - Field wiring
 - Protective earth (screw)
 - Noiseless earth
 - Terminal
 - Connection
 - Terminal strip
 - Connector
 - Relay connector
 - Option
- BLK: Black
BLU: Blue
BRN: Brown
GRN: Green
ORG: Orange
RED: Red
WHT: White
YLW: Yellow



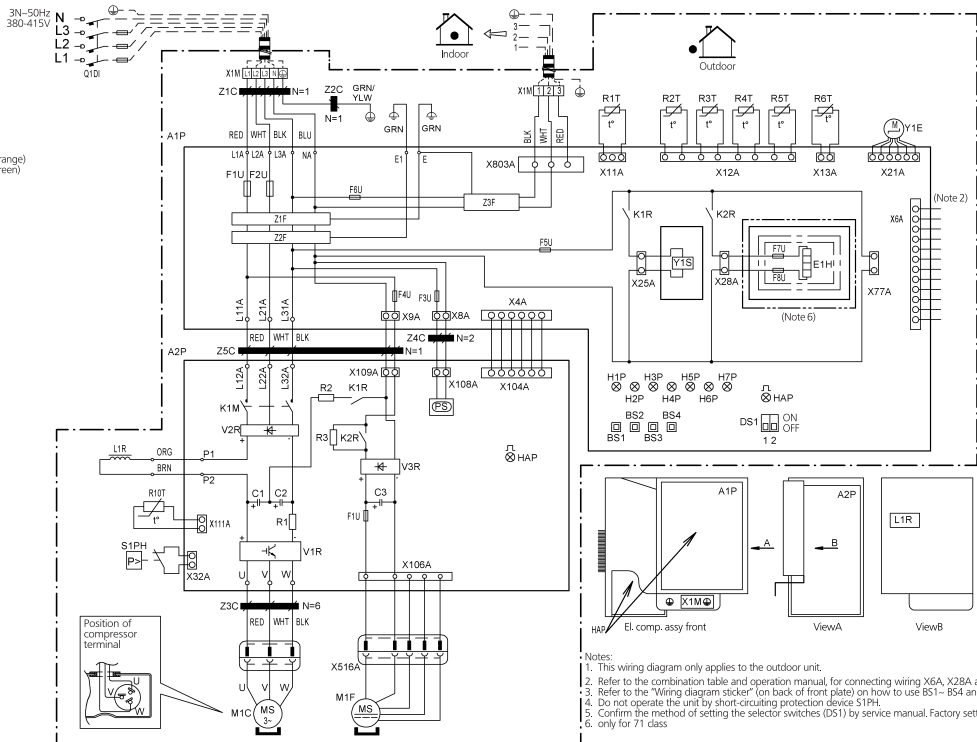
- Notes:
1. This wiring diagram only applies to the outdoor unit.
 2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
 3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
 4. Do not operate the unit by short-circuiting protection device S1PH.
 5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".

2D077192A

AZQS100-125BY1

- A1P : Printed circuit board
- A2P : Printed circuit board (Inverter)
- B51-B52 : Push button switch
- C1-C3 : Capacitor
- D51 : Dip switch
- E1H : Bottomplate heater (Option)
- F1U : Fuse (31.5A / 250V)
- F2U : Fuse (31.5A / 250V)
- F3U-F6U : Fuse (T 6.3A / 250V)
- F7U-F8U : Fuse (F 1.0A / 250V)
- F9U (A2P) : Fuse (F 5.0A / 250V)
- H1P-H7P : Light emitting diode (service monitor orange)
- H8P(A1P/A2P) : Light emitting diode (service monitor green)
- K1M : Magnetic contactor
- K1R (A1P) : Magnetic relay (Y15)
- K1R (A2P) : Magnetic relay
- K2R (A1P) : Magnetic relay (E1H Option)
- K2R (A2P) : Magnetic relay
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- M1C : Motor (compressor)
- M1F : Motor (fan) (upper)
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- PS : Switching power supply
- Q1DI : Earth leakage breaker (30mA)
- R1-R3 : Resistor
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- X1M : Terminal strip
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- Y1S : Solenoid valve (4 way valve)
- Z1C-Z5C : Noise filter (ferrite core)
- Z1F-Z3F : Noise filter

- L: Live
 - N: Neutral
 - Field wiring
 - Protective earth (screw)
 - Noiseless earth
 - Terminal
 - Connection
 - Terminal strip
 - Connector
 - Relay connector
 - Option
- BLK: Black
BLU: Blue
BRN: Brown
GRN: Green
ORG: Orange
RED: Red
WHT: White
YLW: Yellow

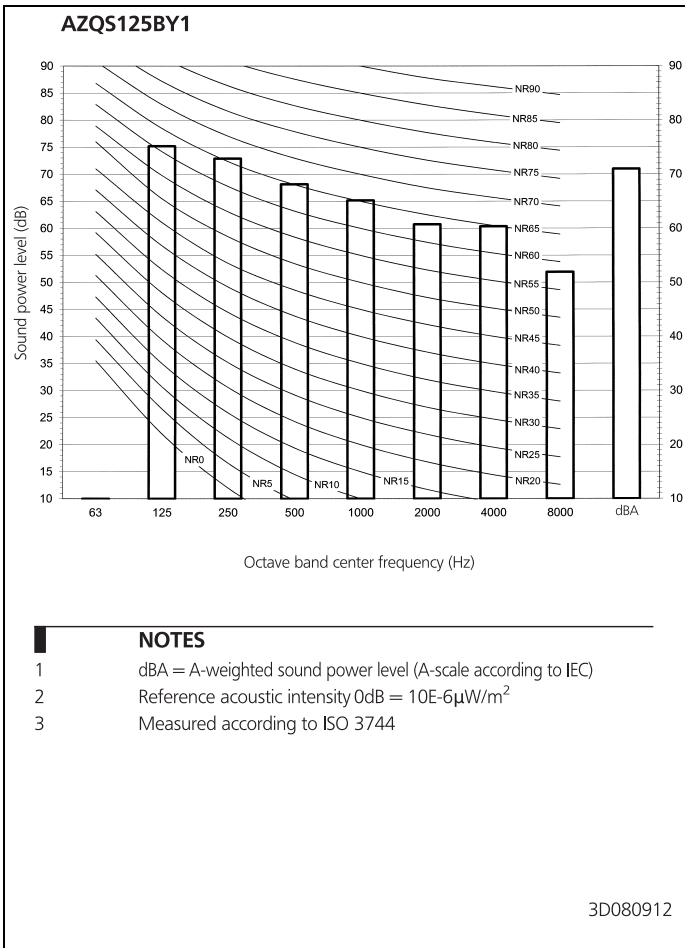
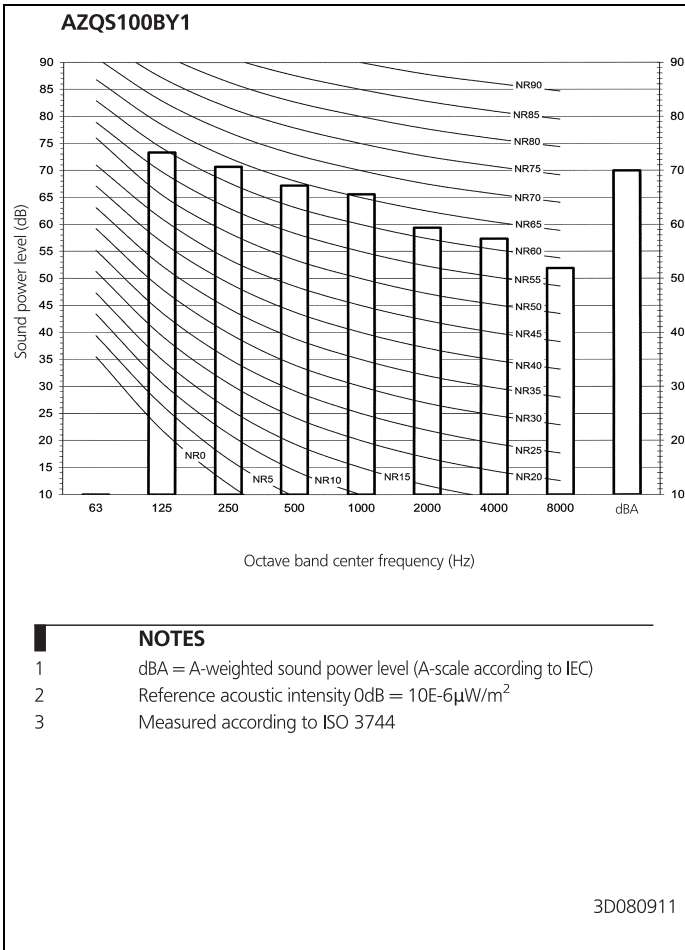


- Notes:
1. This wiring diagram only applies to the outdoor unit.
 2. Refer to the combination table and operation manual, for connecting wiring X6A, X28A and X77A.
 3. Refer to the "Wiring diagram sticker" (on back of front plate) on how to use BS1-BS4 and DS1 switch.
 4. Do not operate the unit by short-circuiting protection device S1PH.
 5. Confirm the method of setting the selector switches (DS1) by service manual. Factory setting of all switches: "OFF".
 6. Only for 71 class

2D080114B

11 Sound data

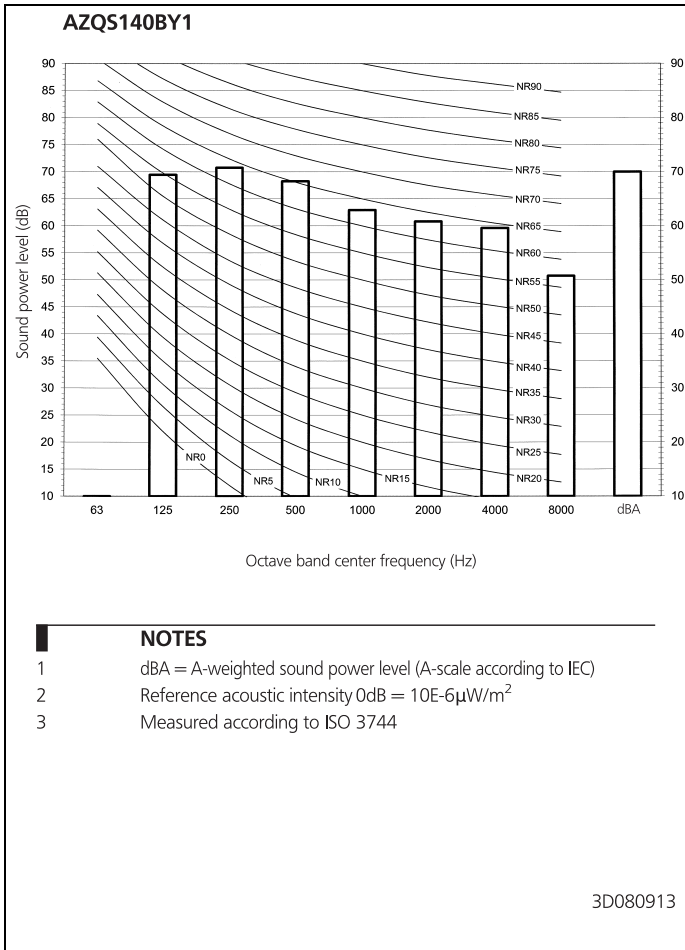
11 - 1 Sound Power Spectrum



11 Sound data

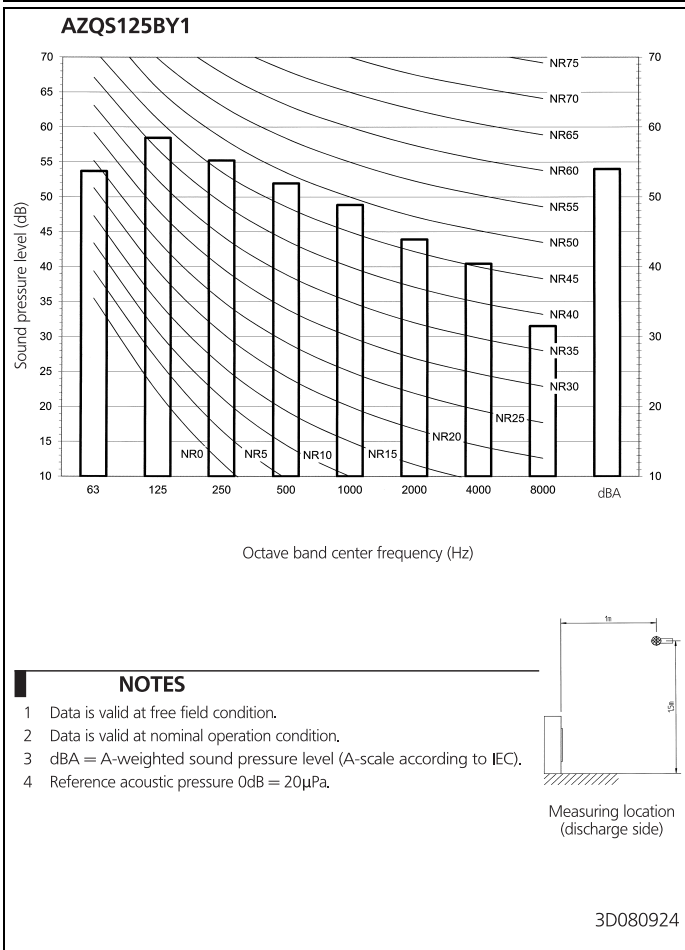
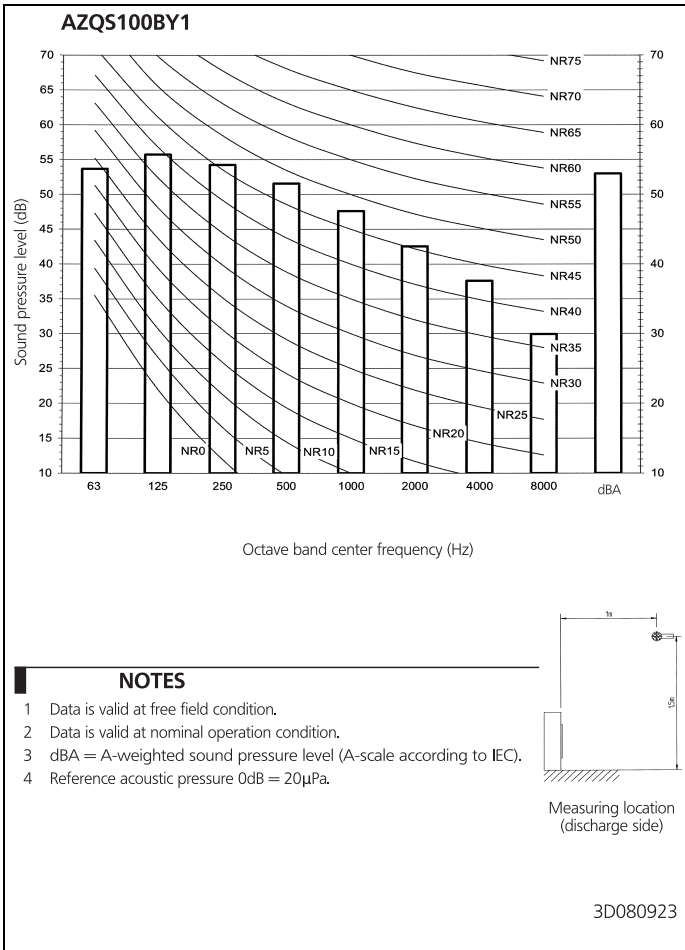
11 - 1 Sound Power Spectrum

11



11 Sound data

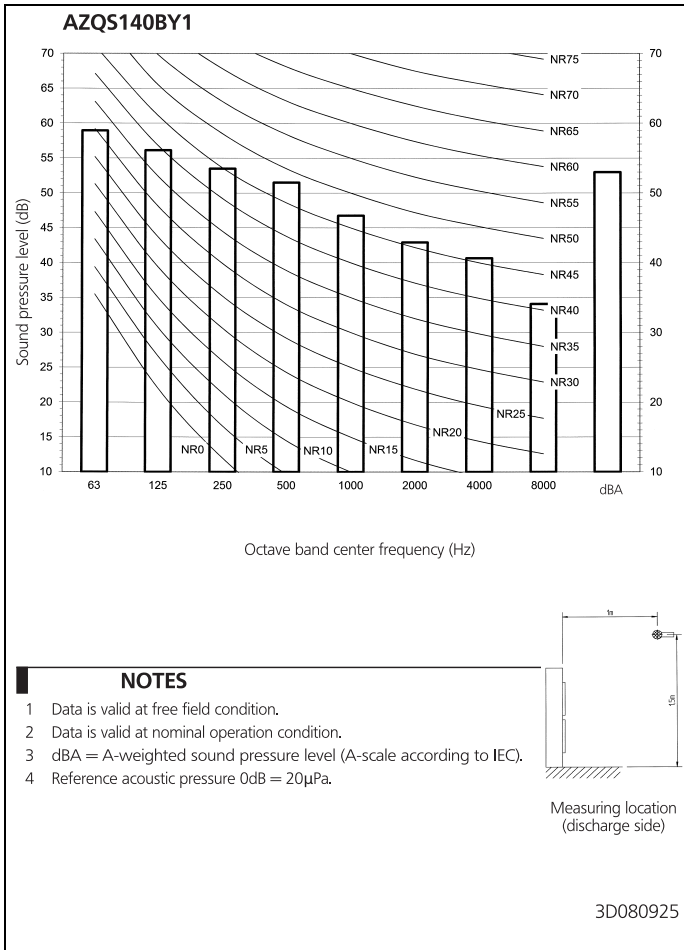
11 - 2 Sound Pressure Spectrum - Cooling



11 Sound data

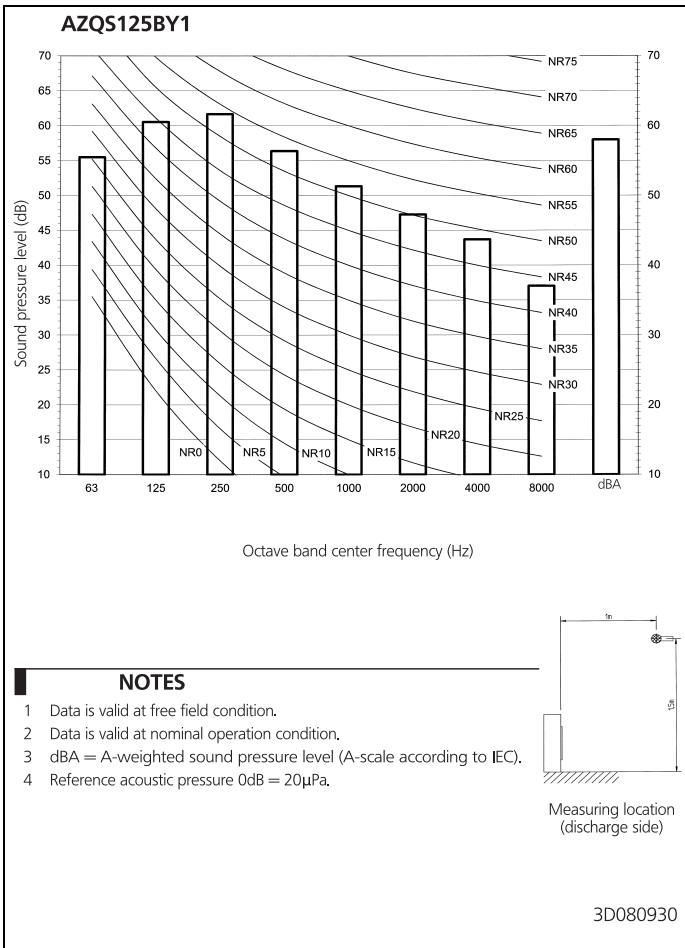
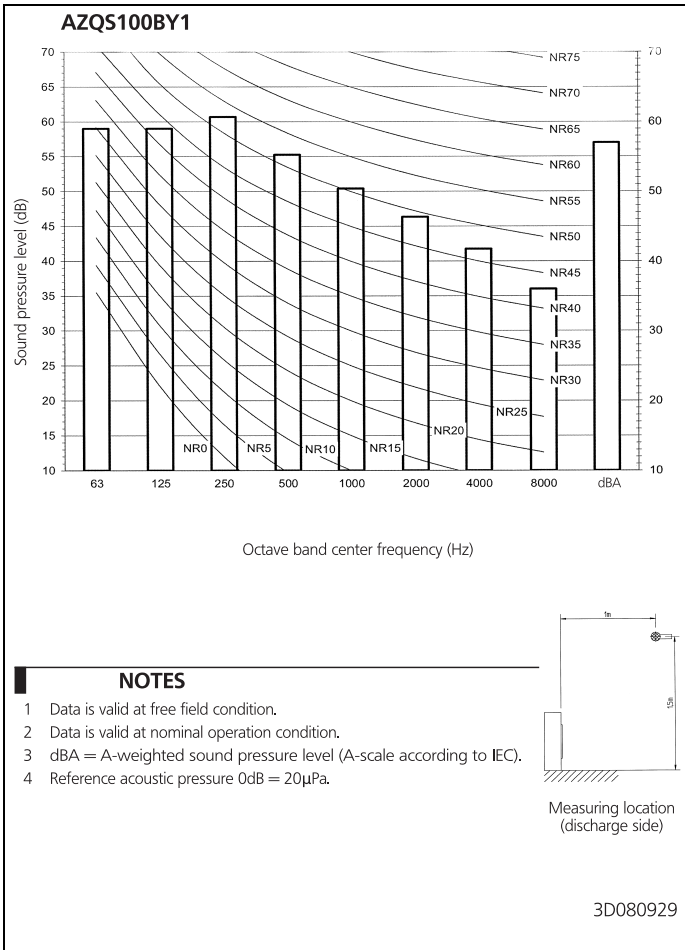
11 - 2 Sound Pressure Spectrum - Cooling

11



11 Sound data

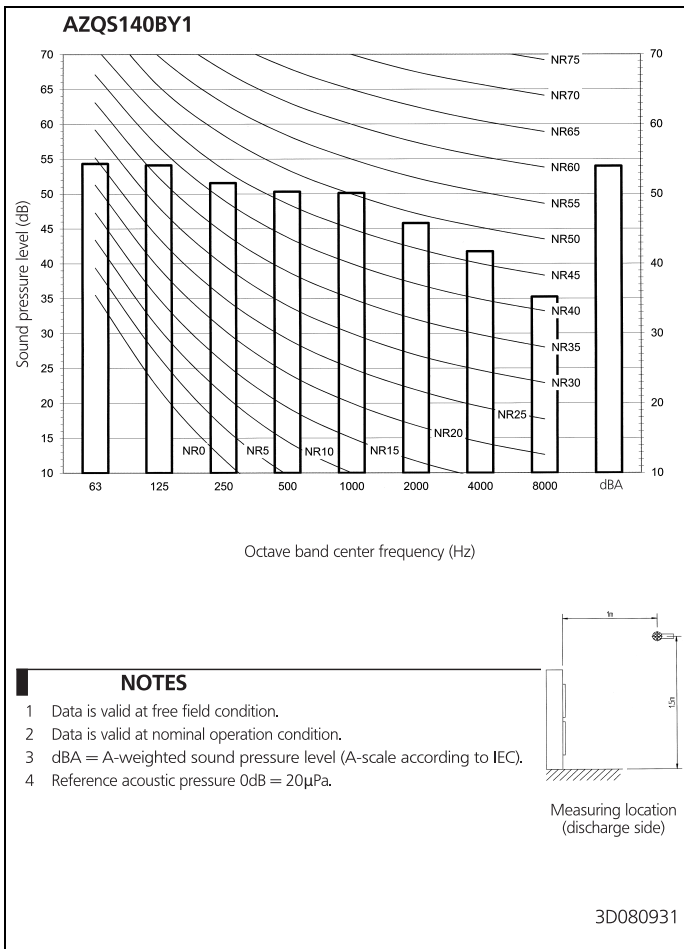
11 - 3 Sound Pressure Spectrum - Heating



11 Sound data

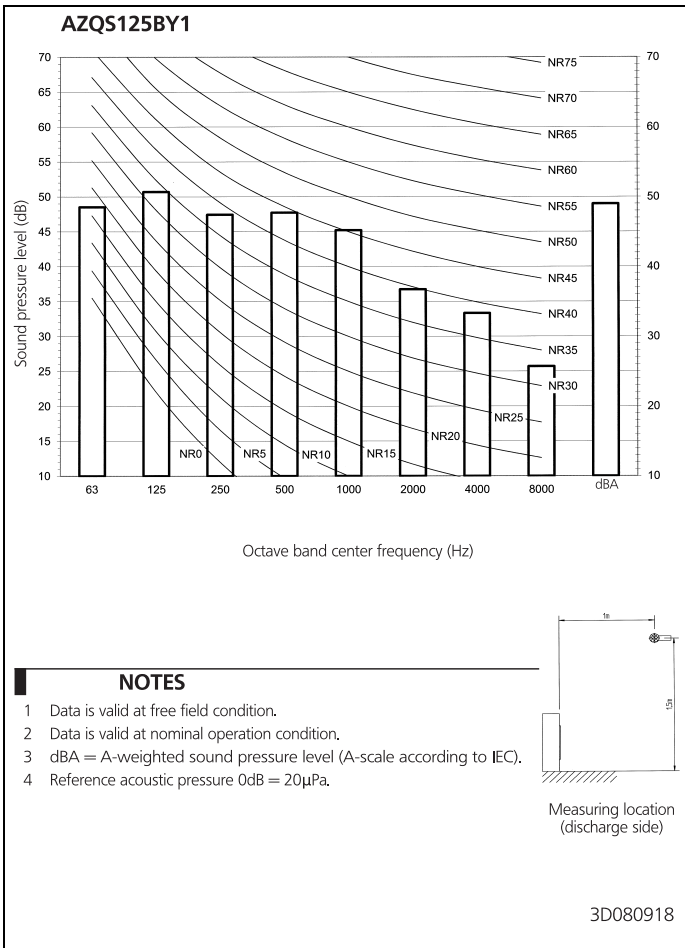
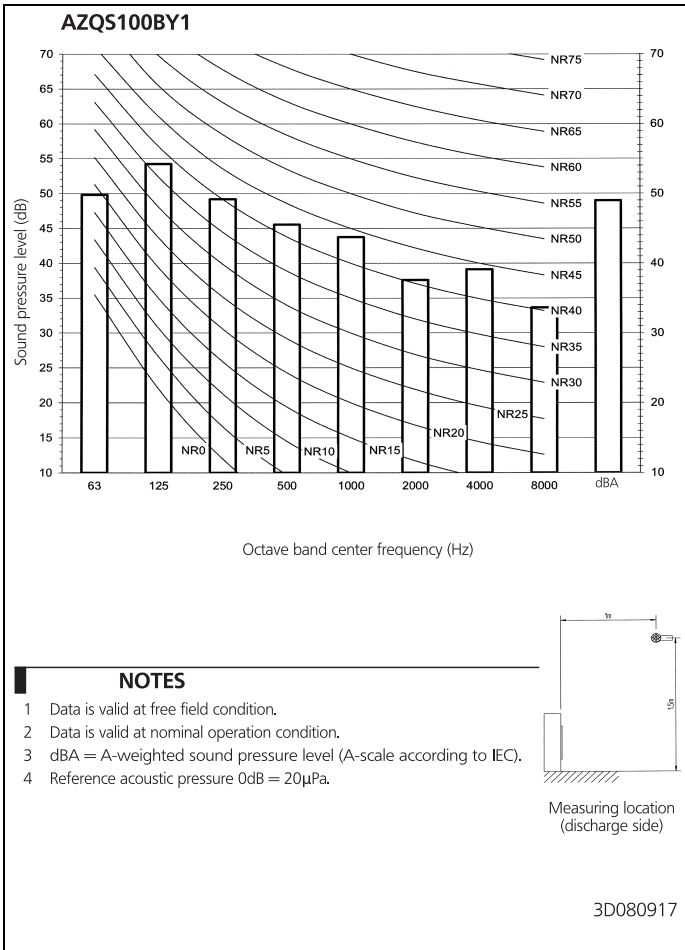
11 - 3 Sound Pressure Spectrum - Heating

11



11 Sound data

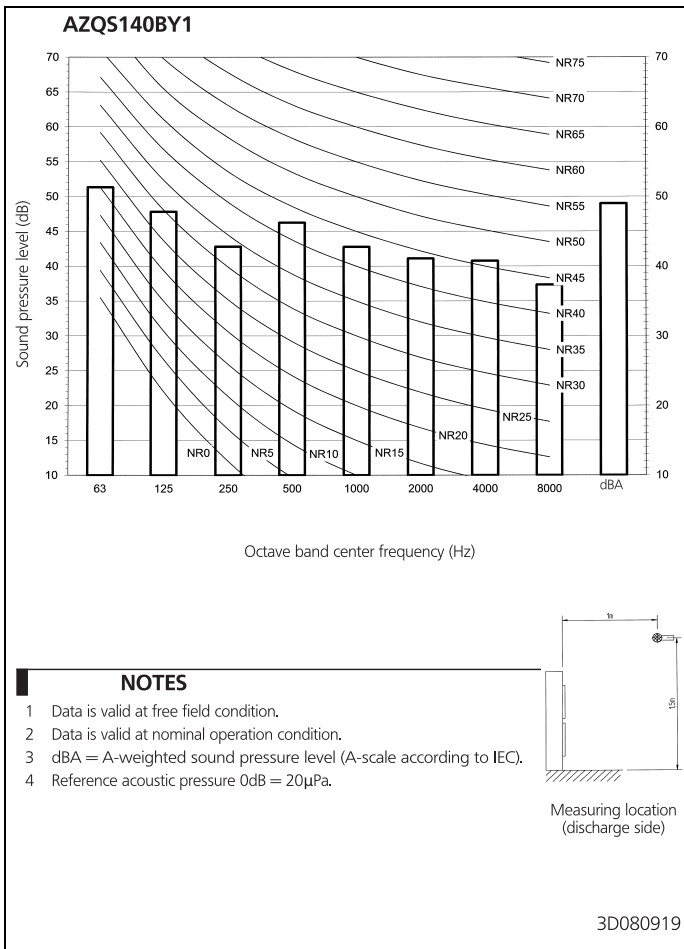
11 - 4 Sound Pressure Spectrum Quiet Mode



11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

11



12 Installation

12 - 1 Installation Method

AZQS-BV1 AZQS-BY1

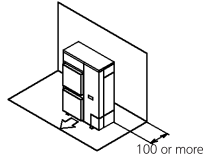
Installation service space

The measure of these values is "mm".

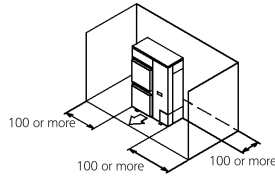
(A) When there are obstacles on suction sides.

• No obstacle above

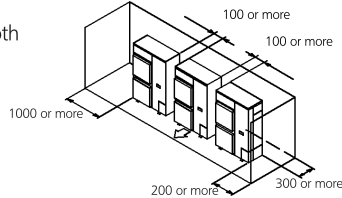
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

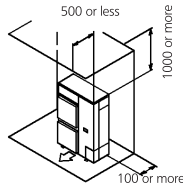


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

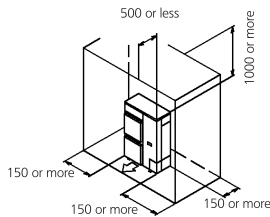


• Obstacle above, too.

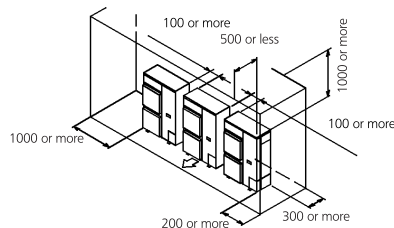
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



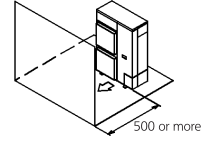
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



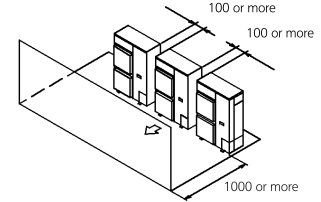
(B) When there are obstacles on discharge sides.

• No obstacle above

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

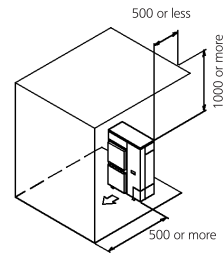


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

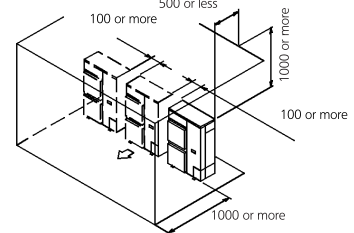


• Obstacle above, too

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



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



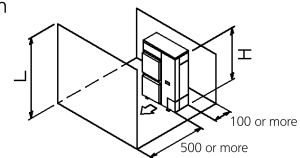
(C) When there are obstacles on both suction and discharge sides:

Pattern 1

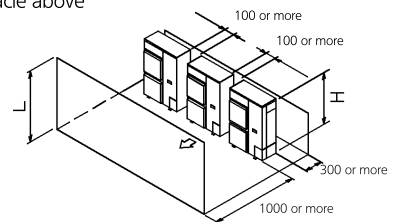
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
 - No obstacle above



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



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12 Installation

12 - 1 Installation Method

12

AZQS-BV1 AZQS-BY1

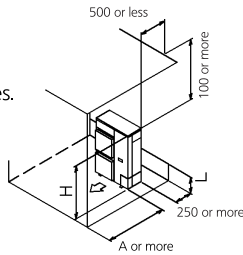
● Obstacle above, too

① Stand-alone installation (Note 2)

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

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

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



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

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

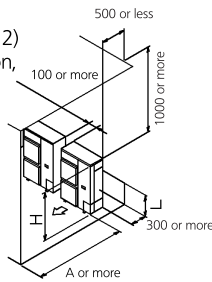
The relations between H, A and L are as follows.

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

Limit of series installation is 2 units.

Pattern 2

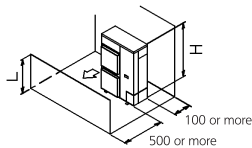
When the obstacle on the discharge side is lower than the unit ($L \leq H$) (There is no limit for the height of obstructions on the suction side.)



● No obstacle above

① Stand-alone installation

- No obstacle above

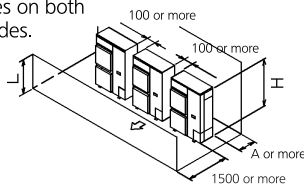


② Series installation (2 or more) (Note 1, 2)

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

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

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



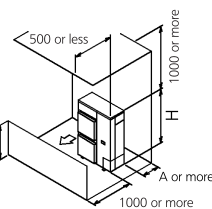
● obstacle above

① Stand-alone installation (Note 2)

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

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

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



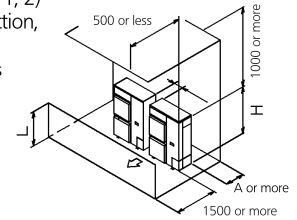
② Series installation (2 or more) (Note 1, 2)

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

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

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

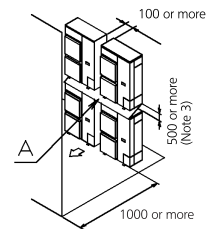
Limit of series installation is 2 units.



(D) Double-decker installation

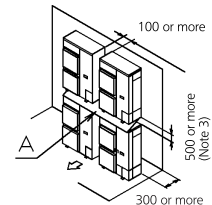
① Obstacle on the discharge side. (1)

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



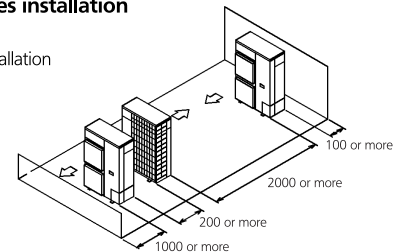
② Obstacle on the suction side. (1)

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



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

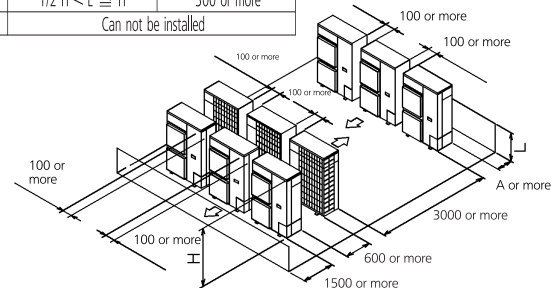
① One row of stand-alone installation



② Rows of series installation (2 or more)

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

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



NOTES

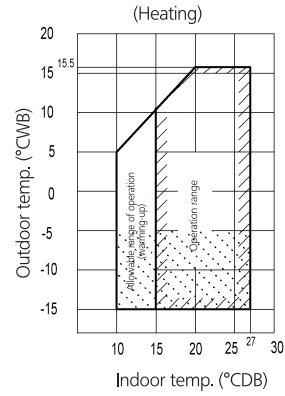
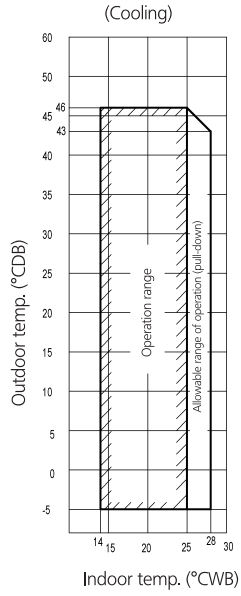
- 1 In case of the sideways piping, make a 100mm gap between the unit above.
- 2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- 3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space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

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13 Operation range

13 - 1 Operation Range

AZQS-B(8)V1
AZQS-BY1



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%) in this [] operation area, an RZQG model should be used instead of an RZQSG model. This to avoid freeze-up of the outdoor unit.

3D096574



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