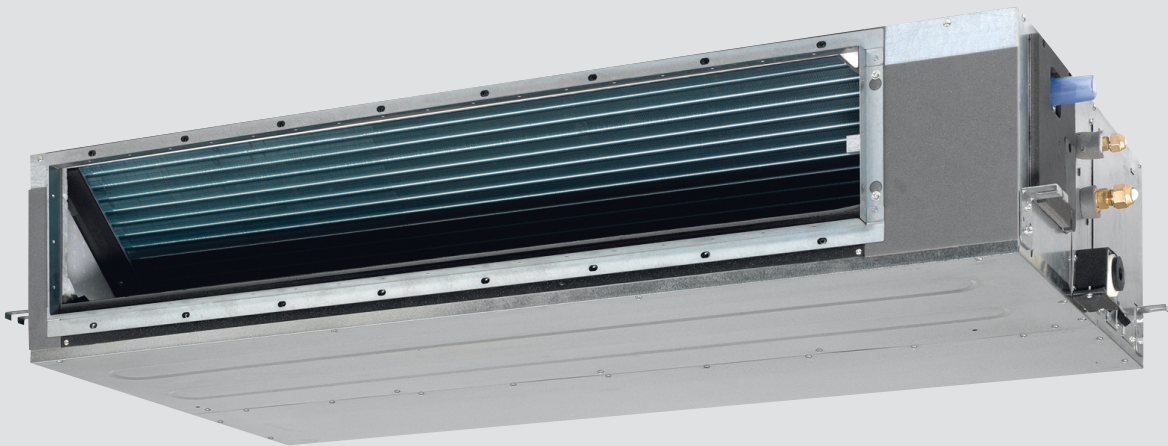


Air Conditioning
Technical Data

ADEA-A



- > ADEA35A2VEB
- > ADEA50A2VEB
- > ADEA60A2VEB
- > ADEA71A2VEB
- > ADEA100A2VEB
- > ADEA125A2VEB

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ADEA-A

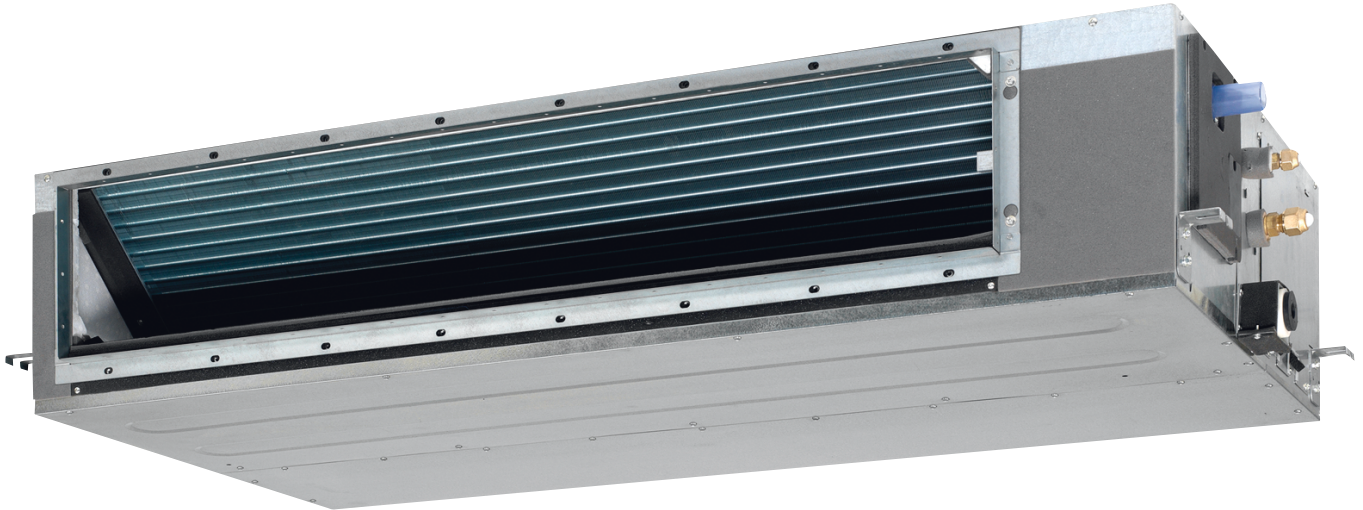
1	Features	2
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1 Features

Ideal for residential applications with false ceilings

- Combination with split outdoor units is ideal for small retail, offices or residential applications
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Low operation sound level down to 25dBA
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit

1



Home leave operation

2 Specifications

2-1 Technical Specifications				ADEA35A	ADEA50A	ADEA60A	ADEA71A	ADEA100A	ADEA125A		
Casing	Colour			Not painted (galvanised)							
	Material			Galvanised steel plate							
Dimensions	Unit	Height/Width/Depth	mm	245/700/800		245/1,000/800		245/1,400/800			
	Packed unit	Height/Width/Depth	mm	890/900/295		890/1,200/295		890/1,600/295			
Weight	Unit		kg	28.0		35.0		46.0			
	Packed unit		kg	30.5		38.0		49.0			
Heat exchanger	Fin	Type		Cross fin coil (Multi slit fins with hydrophilic treatment and Ø5Hi-XA tubes)							
Air filter	Type			Resin net							
Fan	Model			QD16A1CM/QD16A1DM							
	Type			Sirocco fan							
	Quantity			1		2		3			
	Air flow rate	Cooling	High	m³/min	15.0		18.0		29.0		34.0
			Medium	m³/min	12.5 (1)		15.0 (1)		26.0 (1)		29.0 (1)
			Low	m³/min	10.5		12.5		23.0		23.5
		Heating	High	m³/min	15.0		18.0		29.0		34.0
			Medium	m³/min	12.5 (1)		15.0 (1)		26.0 (1)		29.0 (1)
			Low	m³/min	10.5		12.5		23.0		23.5
	External static pressure	High		Pa	150						
Nom.		Pa	30		40		50				
Fan motor	Quantity			1							
	Model			Brushless DC motor							
	Speed	Steps		3							
	Output	Rated		W	130		230		300		
Sound power level	Cooling		dBA	60		56		58		62	
Sound pressure level	Cooling	High/Medium/Low	dBA	35/32 (1)/29		30/28 (1)/25		34/32 (1)/30		37/35 (1)/32	
	Heating	High/Medium/Low	dBA	37/34/29		31/28/25		36/33/30		38/35/32	
Control systems	Infrared remote control			BRC4C65 / BRC4C66							
	Wired remote control			BRC1D528 / BRC1E53A7 / BRC1E53B7 / BRC1E53C7							
Refrigerant	Type			R-32 / R-410A							
Piping connections	Sound absorbing insulation			Butyl Rubber							
	Liquid	Type/OD	mm	Flare connection/6,35			Flare connection/9,52				
	Gas	Type/OD	mm	Flare connection/9,52	Flare connection/12,70		Flare connection/15,90				
	Drain			VP20 (I.D. 20/O.D. 26)							
	Heat insulation			Foamed polystyrene / Foamed polyethylene							
Drain-up height			mm	625							

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Drain hose; Quantity : 1;

Standard Accessories : Metal clamp for drain hose; Quantity : 1;

Standard Accessories : Washer for hanger bracket; Quantity : 8;

Standard Accessories : Screws; Quantity : 40;

Standard Accessories : Insulation for fitting; Quantity : 2;

Standard Accessories : Sealing pads; Quantity : 5;

Standard Accessories : Clamps; Quantity : 4;

2-2 Electrical Specifications				ADEA35A	ADEA50A	ADEA60A	ADEA71A	ADEA100A	ADEA125A
Power supply	Phase			1~					
	Frequency		Hz	50					
	Voltage			220-240/220					

2 Specifications

Notes

(1) See separate drawing for electrical data

Sound power level is an absolute value that a sound source generates.

3 Options

3 - 1 Options

ADEA35-125A

Discharge

Description	Option kit	SA												
		ADEA35A	FBA35A(9)	ADEA50A	FBA50A(9)	ADEA60A	FBA60A(9)	ADEA71A	FBA71A(9)	ADEA100A	FBA100A	ADEA125A	FBA125A	FBA140A
Air discharge adaptor for round ducts	KDAP25A56A		X											
	KDAP25A71A						X							
	KDAP25A140A											X		

Operation control

Description	Option kit	SA											
		ADEA35A	FBA35A(9)	ADEA50A	FBA50A(9)	ADEA60A	FBA60A(9)	ADEA71A	FBA71A(9)	ADEA100A	FBA100A	ADEA125A	FBA125A
Wired remote control	BRC1D528, BRC1H51(9)W/S/K, BRC1H81W/S		X			X					X		
	BRC1E53A7		X(*7)			X(*7)					X(*7)		
	BRC1E53B7		X(*8)			X(*8)					X(*8)		
	BRC1E53C7		X(*9,10)			X(*9,10)					X(*9,10)		
Central remote control	DCS302CA51		X			X					X		
Unified ON/OFF controller	DCS301BA51		X			X					X		
Intelligent touch controller	DCS601C51		X			X					X		
Schedule timer	DST301BA51		X			X					X		
Adaptor for wiring (interlock for fresh air intake fan)	KRP1B54		X			X					X		
Wiring adaptor for electrical appendices	KRP4A52		X(*4)			X(*4)					X(*4)		
Wiring adaptor for electrical appendices	KRP4A51		X(*2,4)			X(*2,4)					X(*2,4)		
Optional PCB for external electric heaters, humidifiers and/or hour meters	EKRP1B2A		X(*1,2)			X(*1,2)					X(*1,2)		
Wireless remote control ·H/P·	BRC4C65		X			X					X		
Wireless remote control ·C/O·	BRC4C66		X			X					X		
Simplified remote control for hotel use	BRC2E52C7		X(*6,10)			X(*6,10)					X(*6,10)		
Remote control for hotel use	BRC3E52C7		X(*6,10)			X(*6,10)					X(*6,10)		
Remote sensor	KRCS01-4B		X			X					X		
Electrical box with earth terminal	KJB411A		X			X					X		
Installation box for adaptor PCB	KRP1BA101		X			X					X		
	KRP1B101		X			X					X		
Digital input adaptor	BRP7A51		X(*3,5)			X(*3,5)					X(*3,5)		
iTouch Manager	DCM601A51		X			X					X		
Wi-Fi adaptor for smartphones	BRP069A81 (*11)		X			X					X		

- (*1) Electric heaters and humidifiers are field-supplied. Do not install them inside the equipment (refer to installation manual ·EKRP1B2A·).
- (*2) When installing electric heaters, an optional PCB for external electric heaters (·EKRP1B2·) is required for each indoor unit.
These options require mounting plate ·KRP4A96·.
- (*3) Maximally ·2· optional PCBs can be mounted.
- (*4) This option needs to be installed together with installation box ·KRP1B101/KRP1BA101·.
- (*5) Only possible in combination with remote control ·BRC2/3E52C7, BRC1E53A/B/C7, BRC1H51(9)W/S/K, BRC1H81W/S·.
- (*6) Included languages are:
Language pack ·1·: English, German, French, Dutch, Spanish, Italian, and Portuguese.
With PC cable ·EKPCAB3· in combination with the Updater PC software, you can additionally change the language to:
Language pack ·2·: English, Bulgarian, Croatian, Czech, Hungarian, Romanian, and Slovenian.
Language pack ·3·: English, Greek, Polish, Russian, Serbian, Slovak, and Turkish.
- (*7) Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
- (*8) Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
- (*9) Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
- (*10) Language pack ·3· of controller ·BRCE1E53C7· is different from that of controller ·BRC2/3E52C7·.
- (*11) Only possible in combination with wired or wireless remote control (e.g. ·BRC1E*, BRC1H*, BRC7FA*·).

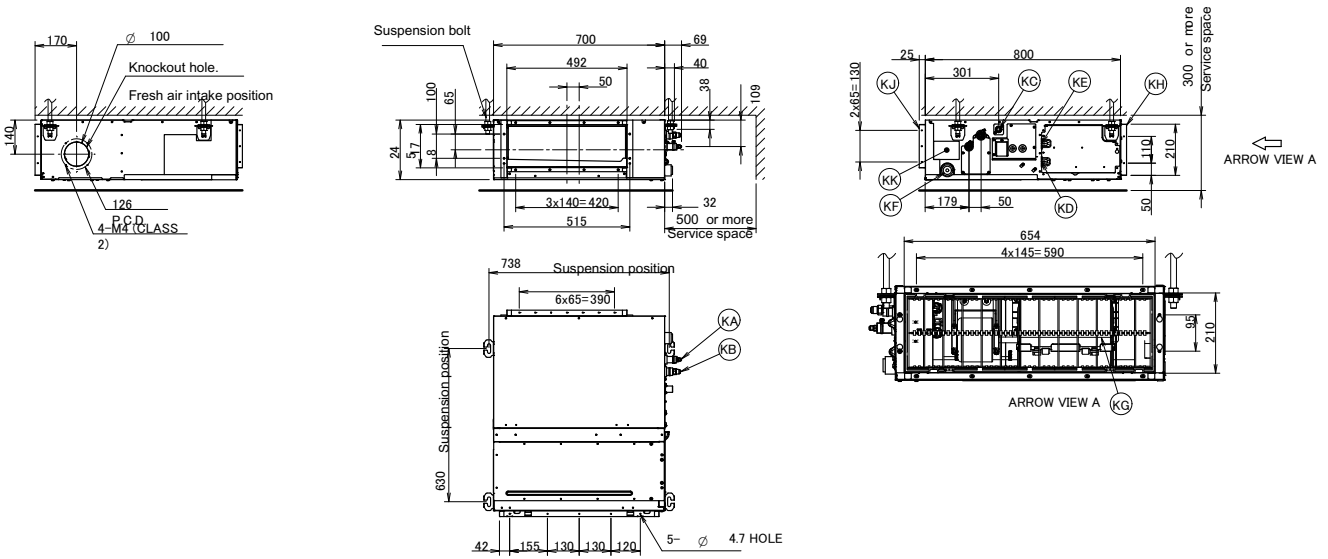
3D106133C

4 Dimensional drawings

4 - 1 Dimensional Drawings

4

ADEA35A



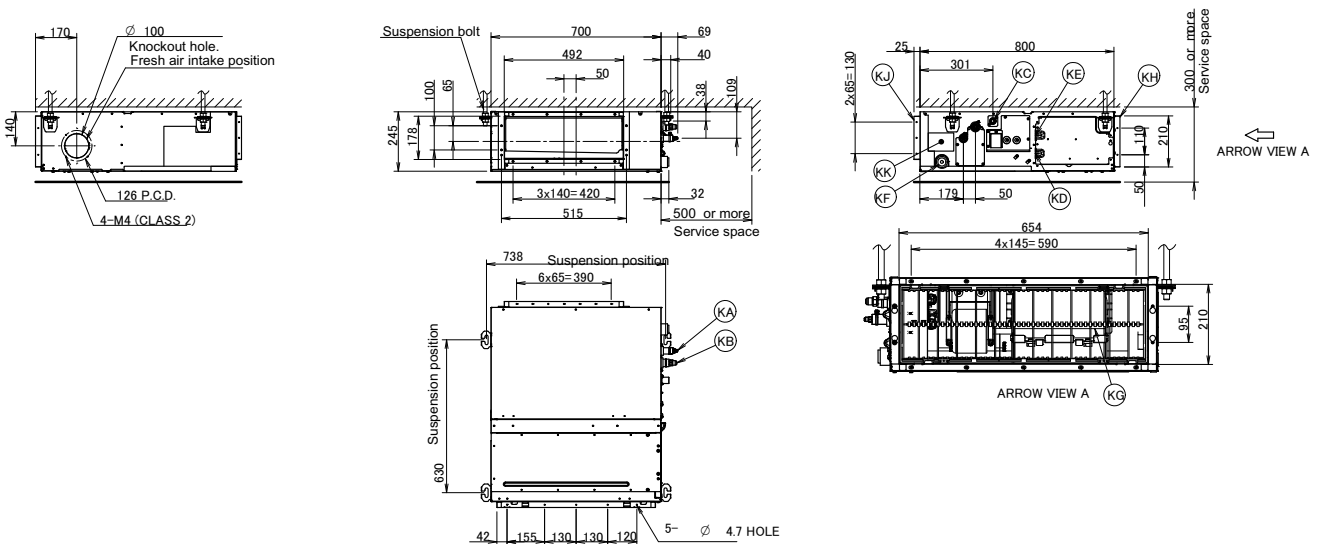
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø9.52 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes

- When installing optional accessories, refer to their respective documentation.
- The ceiling depth varies according to the documentation of the specific system.

3D094988B

ADEA50A



Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes

- When installing optional accessories, refer to their respective documentation.
- The ceiling depth varies according to the documentation of the specific system.

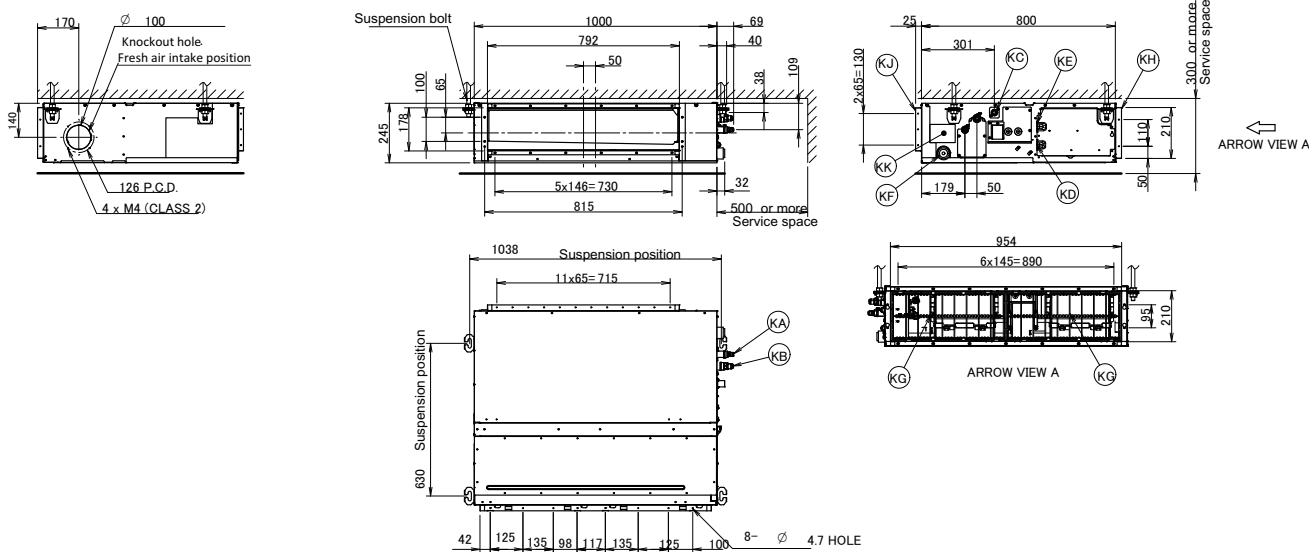
3D094918B

6

4 Dimensional drawings

4 - 1 Dimensional Drawings

ADEA60A



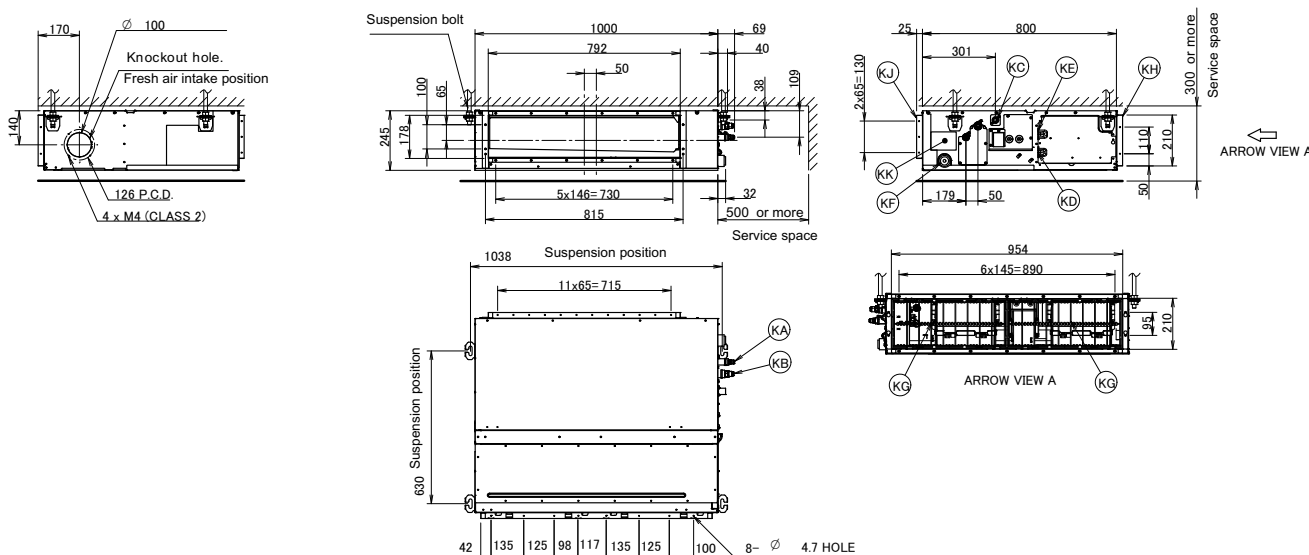
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094983B

ADEA71A



Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

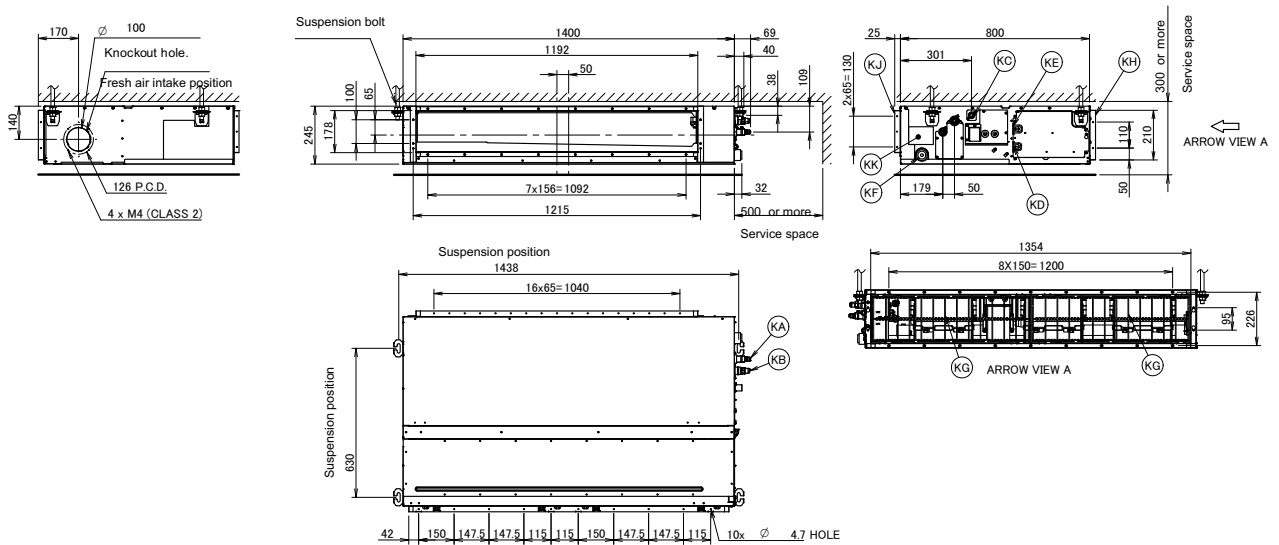
3D094915B

4 Dimensional drawings

4 - 1 Dimensional Drawings

4

ADEA100-125A



Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes

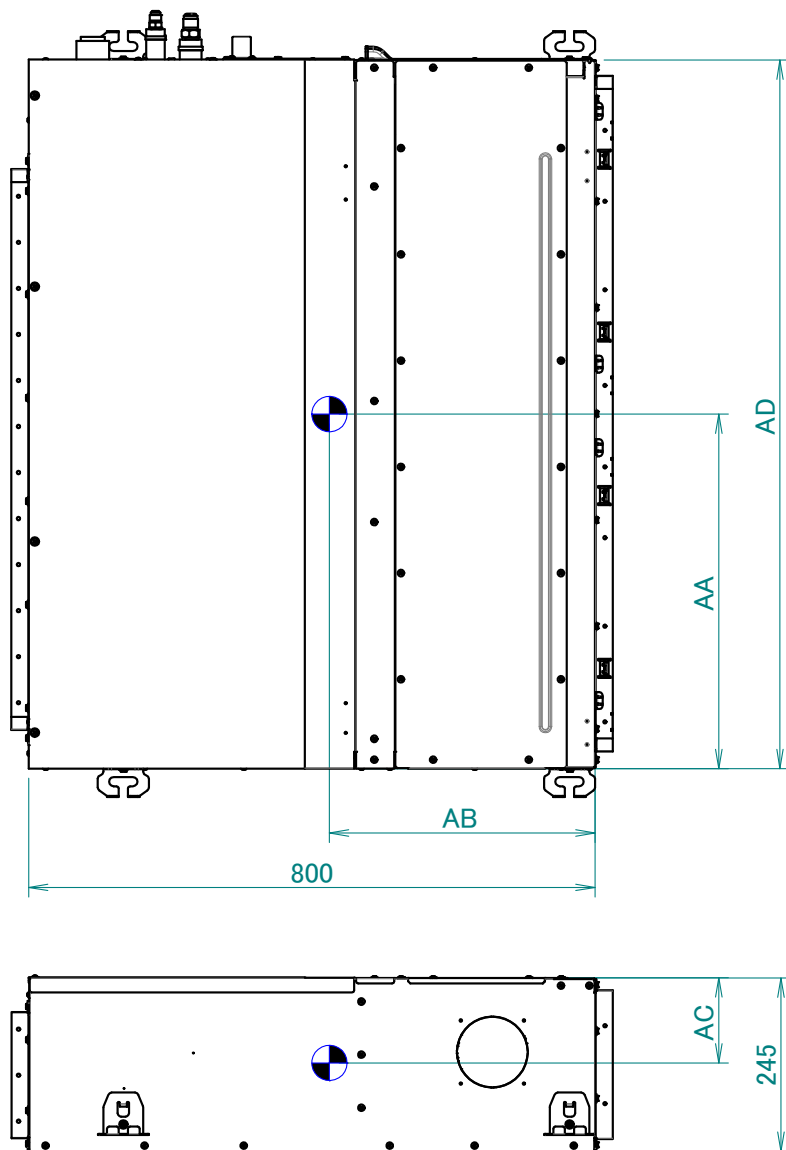
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094914B

5 Centre of gravity

5 - 1 Centre of Gravity

ADEA-A



Applicable models	AA	AB	AC	AD
FBQ35/50, FBA35/50, ADEA35/50	410	375	125	700
FBQ60/71, ADEQ71, FBA60/71, ADEA60/71	525	380	125	1000
FBQ100/125/140, ADEQ100/125, FBA100/125/140, ADEA100/125	760	390	115	1400

4D093590C

6 Piping diagrams

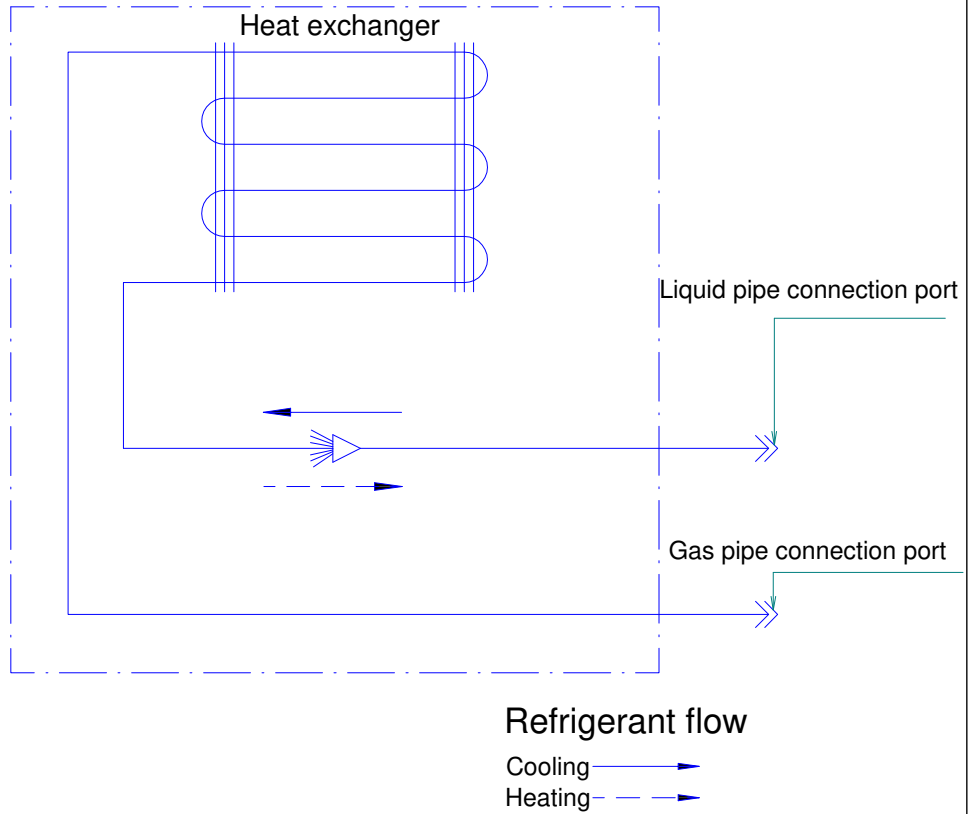
6 - 1 Piping Diagrams

6

ADEA-A

Piping connections Ø

Model	Gas	Liquid
FBQ35D2VEB	Ø 9.52	Ø 6.35
FBQ50D2VEB	Ø 12.70	Ø 6.35
FBQ60D2VEB	Ø 12.70	Ø 6.35
FBQ71D2VEB	Ø 15.90	Ø 9.52
FBQ100D2VEB	Ø 15.90	Ø 9.52
FBQ125D2VEB	Ø 15.90	Ø 9.52
FBQ140D2VEB	Ø 15.90	Ø 9.52
ADEQ71B2VEB	Ø 15.90	Ø 9.52
ADEQ100B2VEB	Ø 15.90	Ø 9.52
ADEQ125B2VEB	Ø 15.90	Ø 9.52
FBA35A2VEB (9)	Ø 9.52	Ø 6.35
FBA50A2VEB (9)	Ø 12.70	Ø 6.35
FBA60A2VEB (9)	Ø 12.70	Ø 6.35
FBA71A2VEB (9)	Ø 15.90	Ø 9.52
FBA100A2VEB	Ø 15.90	Ø 9.52
FBA125A2VEB	Ø 15.90	Ø 9.52
FBA140A2VEB	Ø 15.90	Ø 9.52
ADEA35A2VEB	Ø 9.52	Ø 6.35
ADEA50A2VEB	Ø 12.70	Ø 6.35
ADEA60A2VEB	Ø 12.70	Ø 6.35
ADEA71A2VEB	Ø 15.90	Ø 9.52
ADEA100A2VEB	Ø 15.90	Ø 9.52
ADEA125A2VEB	Ø 15.90	Ø 9.52

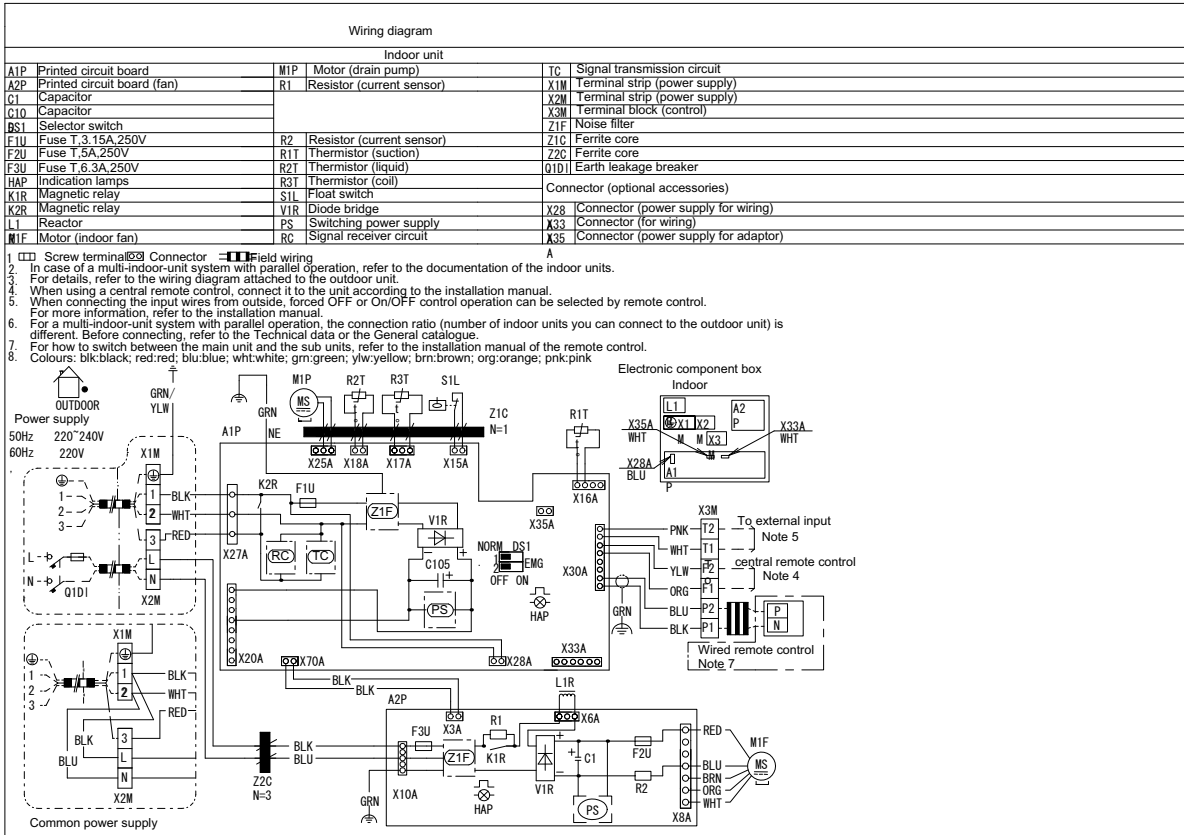


3D090271D

7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

ADEA-A

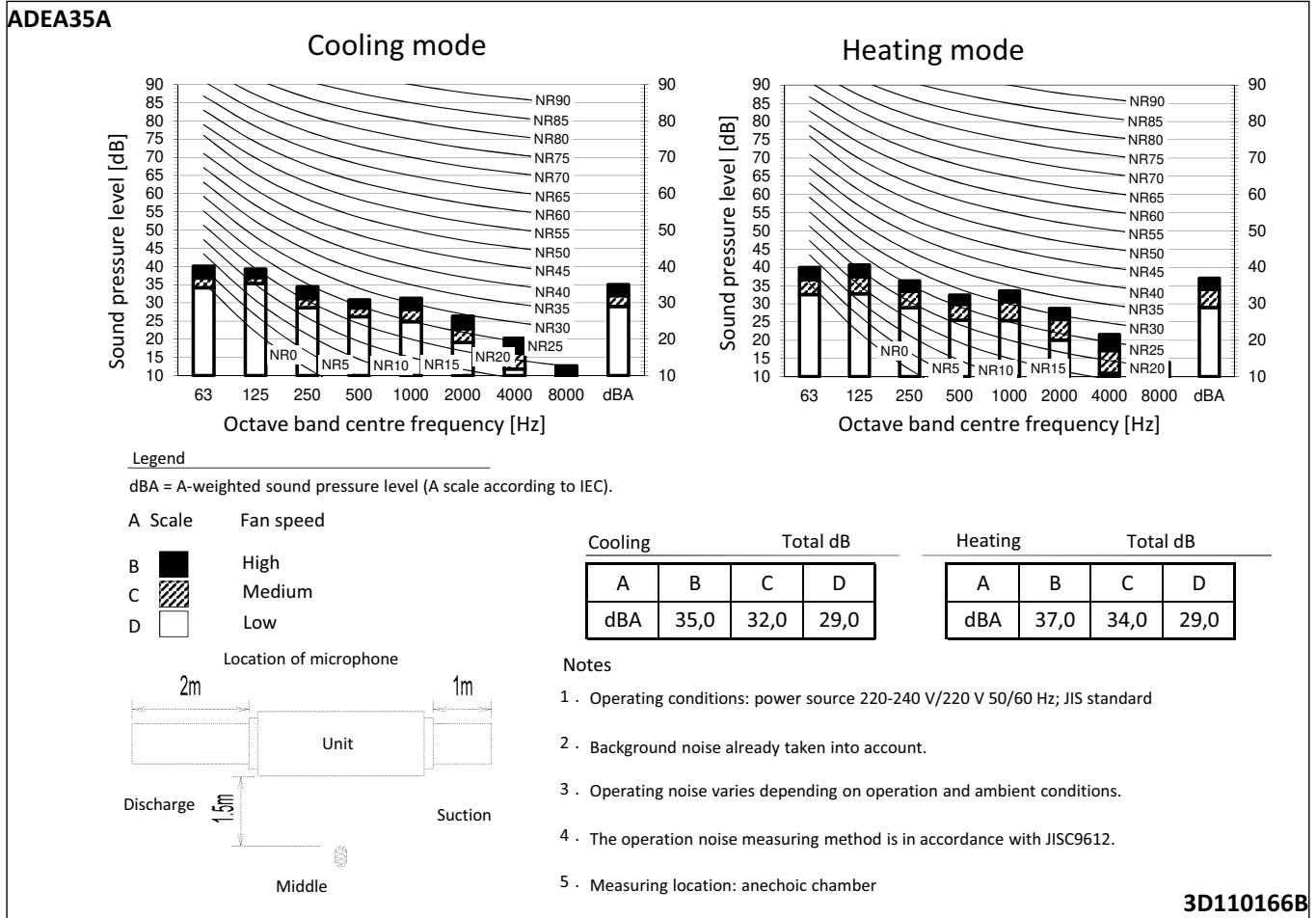


3D090350C

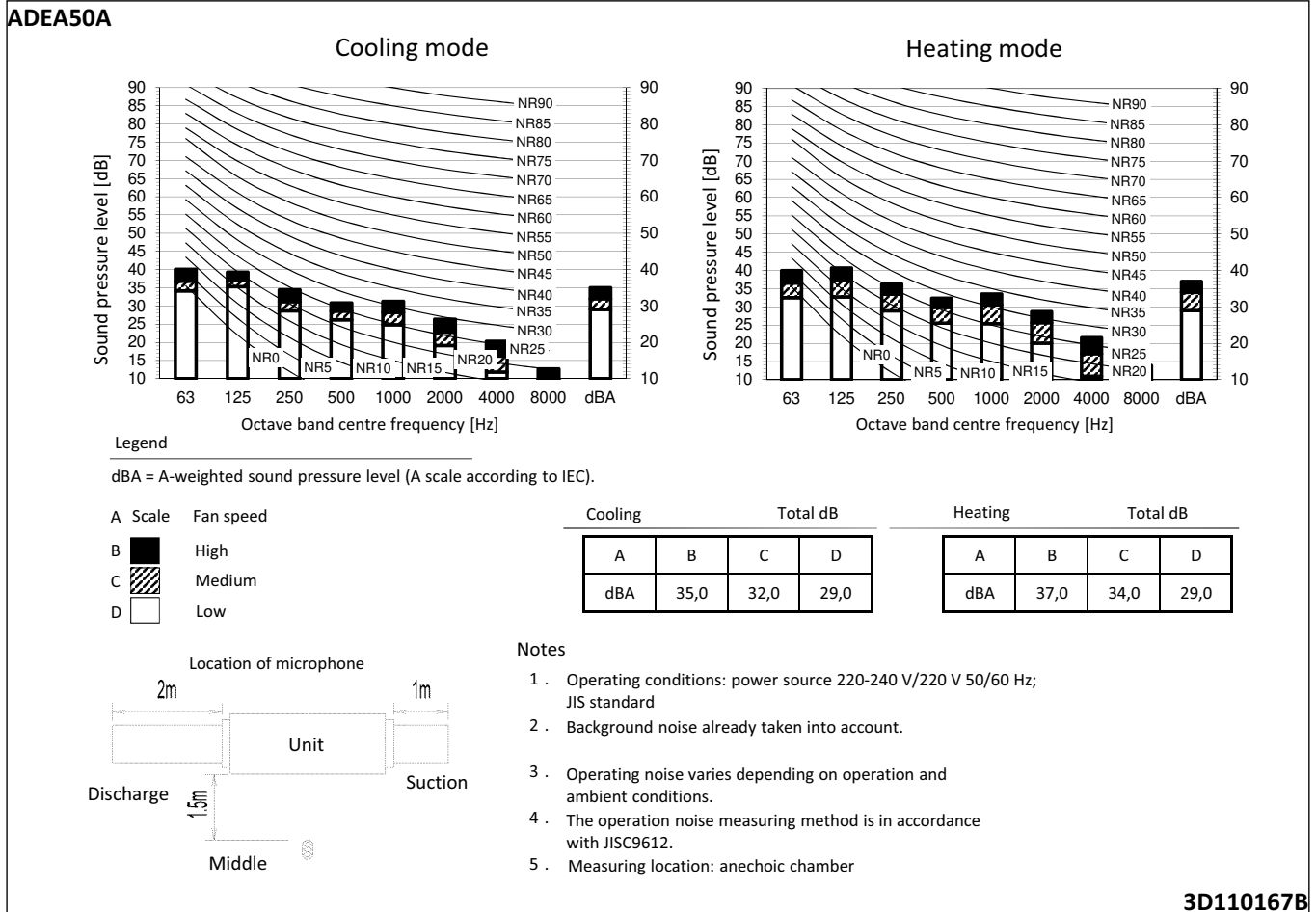
8 Sound data

8 - 1 Sound Pressure Spectrum

8



3D110166B



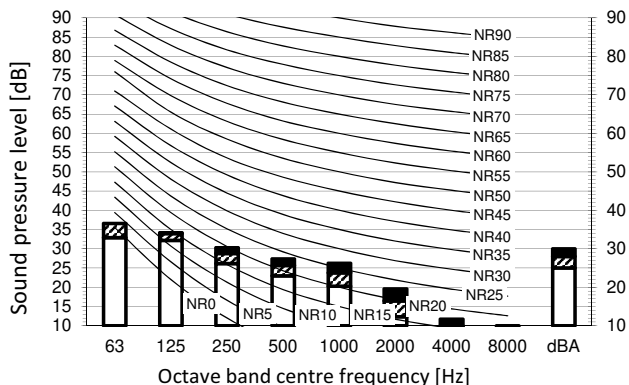
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8 Sound data

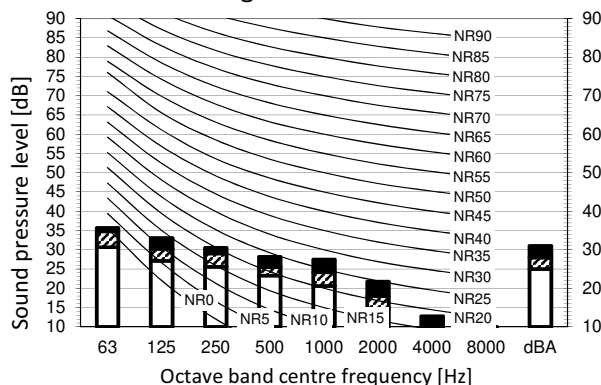
8 - 1 Sound Pressure Spectrum

ADEA60A

Cooling mode



Heating mode



Legend

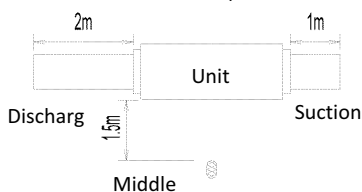
dBA = A-weighted sound pressure level (A scale according to IEC).

A	Scale	Fan speed
B	High	
C	Medium	
D	Low	

Cooling	Total dB			
A	B	C	D	
dBA	30,0	28,0	25,0	

Heating	Total dB			
A	B	C	D	
dBA	31,0	28,0	25,0	

Location of microphone



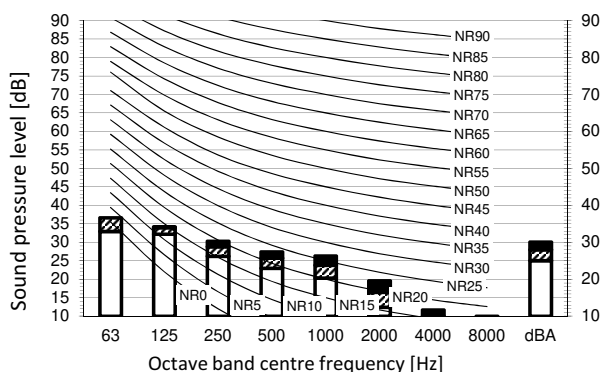
Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

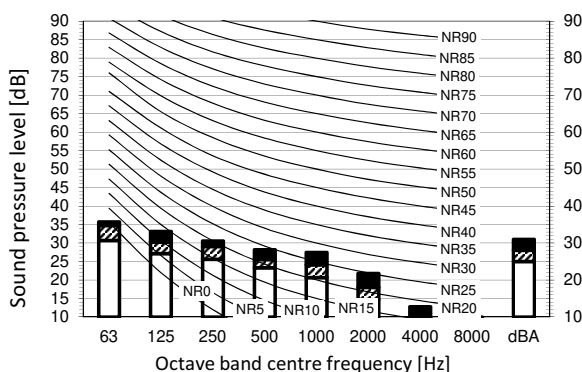
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ADEA71A

Cooling mode



Heating mode



Legend

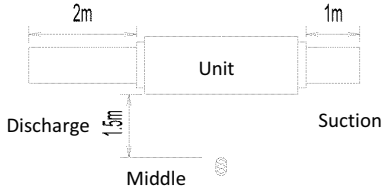
dBA = A-weighted sound pressure level (A scale according to IEC).

A	Scale	Fan speed
B	High	
C	Medium	
D	Low	

Cooling	Total dB			
A	B	C	D	
dBA	30,0	28,0	25,0	

Heating	Total dB			
A	B	C	D	
dBA	31,0	28,0	25,0	

Location of microphone



Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

3D110169B

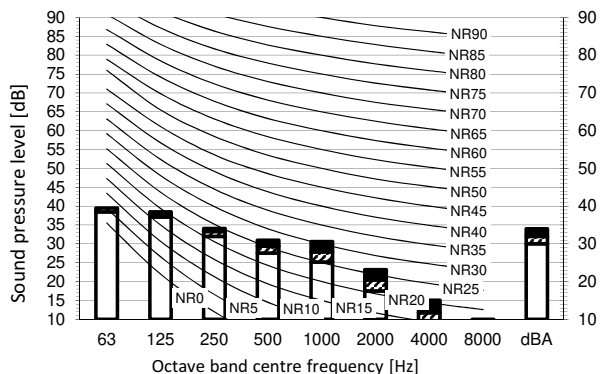
8 Sound data

8 - 1 Sound Pressure Spectrum

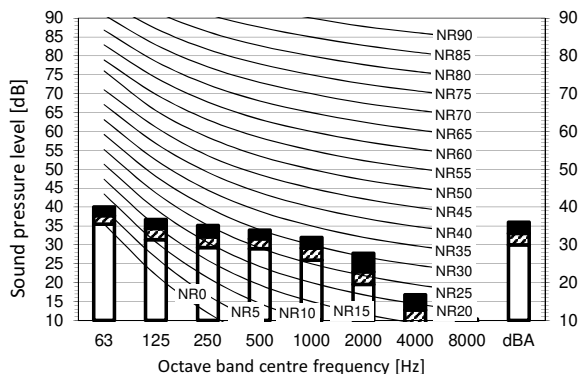
8

ADEA100A

Cooling mode



Heating mode



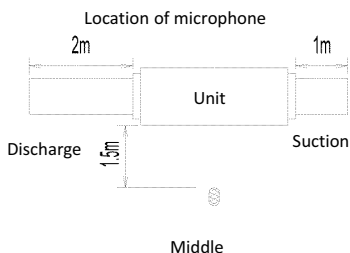
Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A	Scale	Fan speed
B		High
C		Medium
D		Low

Cooling		Total dB	
A	B	C	D
dBA	34	32	30

Heating		Total dB	
A	B	C	D
dBA	36	33	30



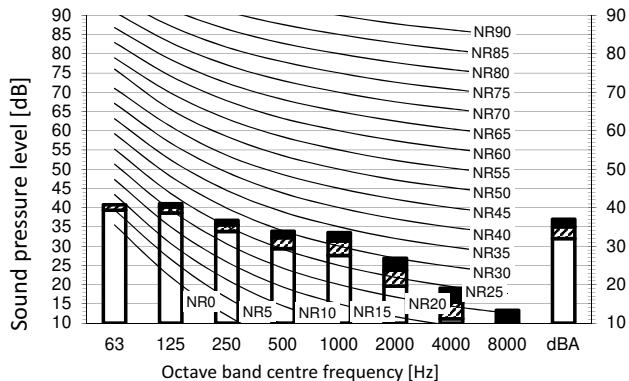
Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

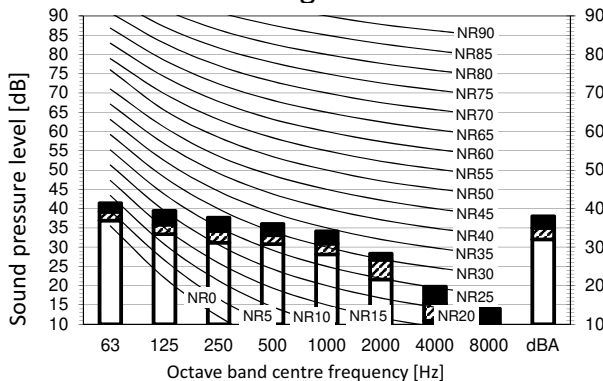
3D110170A

ADEA125A

Cooling mode



Heating mode



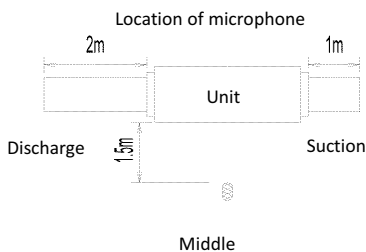
Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A	Scale	Fan speed
B		High
C		Medium
D		Low

Cooling		Total dB	
A	B	C	D
dBA	37	35	32

Heating		Total dB	
A	B	C	D
dBA	38	35	32



Notes

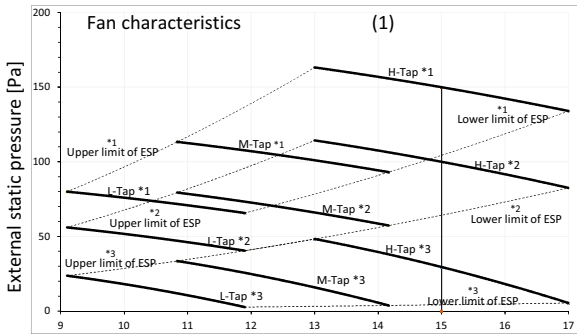
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

3D110171A

9 Fan characteristics

9 - 1 Fan Characteristics

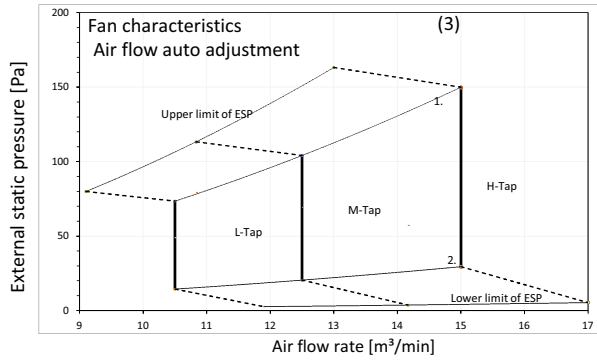
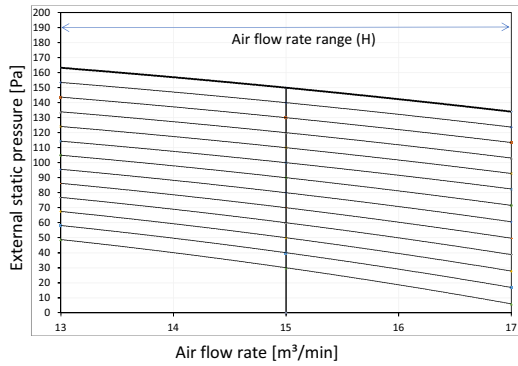
ADEA35-50A



Mark	ESP [Pa]
*1	MAX 150
*2	- 100
*3	STD 30

Fan characteristics (2)

Field setting with remote control



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

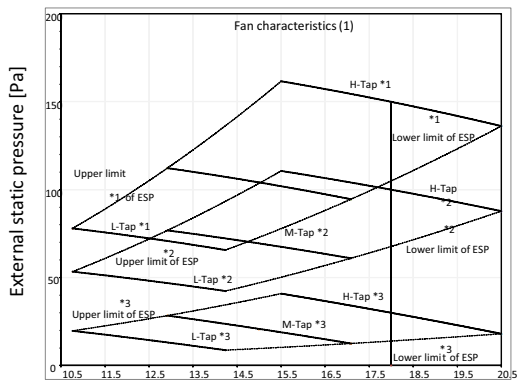
Notes

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure
3. Legend

Mark	Fan speed
H-Tap	High
M-Tap	Medium
L-Tap	Low

3D095521B

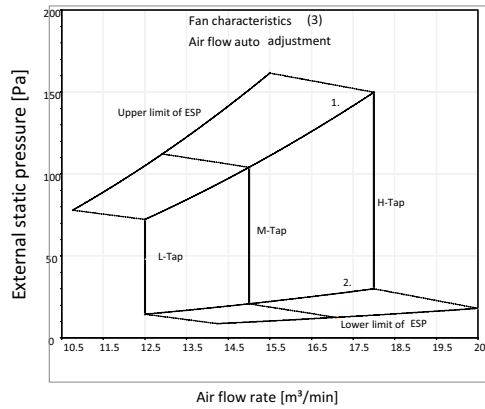
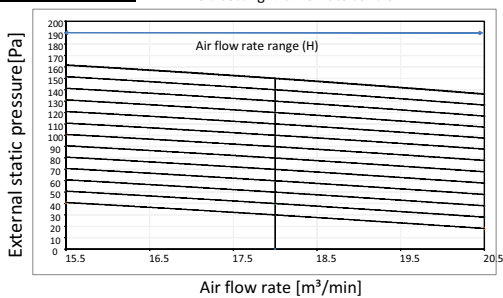
ADEA60-70A



Mark	ESP [Pa]
*1	MAX 150
*2	- 100
*3	STD 30

Fan characteristics (2)

Field setting with remote control



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Notes:

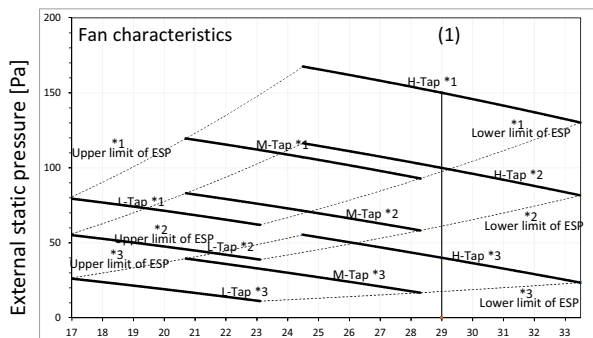
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure.

3D095524B

9 Fan characteristics

9 - 1 Fan Characteristics

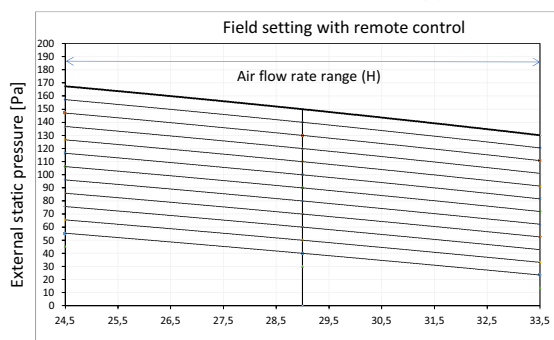
ADEA100A



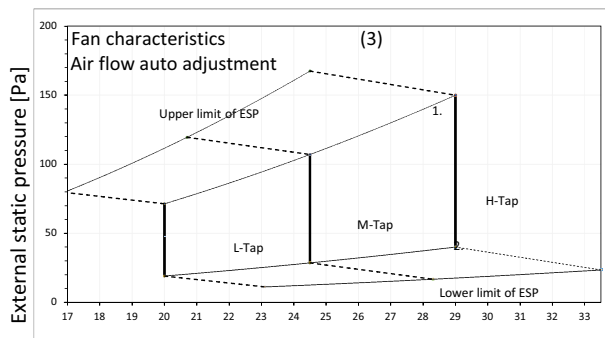
Mark	ESP [Pa]
*1	MAX 150
*2	100
*3	STD 40

Air flow rate [m³/min]

Fan characteristics (2)



Air flow rate [m³/min]



Air flow rate [m³/min]

1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Notes

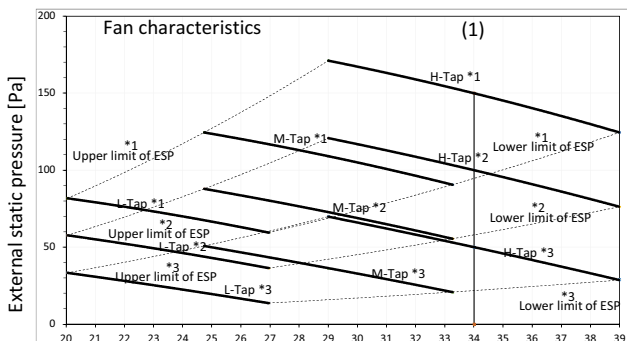
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3. Legend

Mark	Fan speed
H-Tap	High
M-Tap	Medium
L-Tap	Low

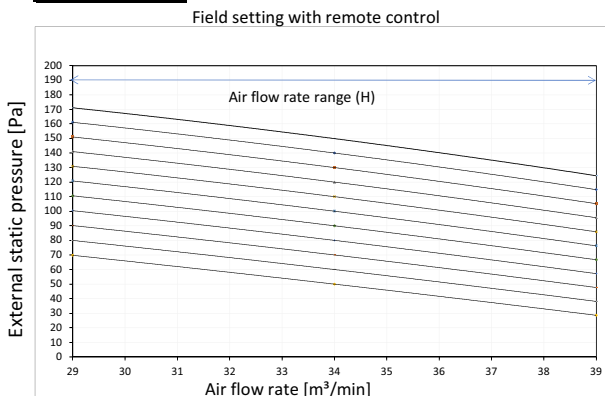
3D095526B

ADEA125A

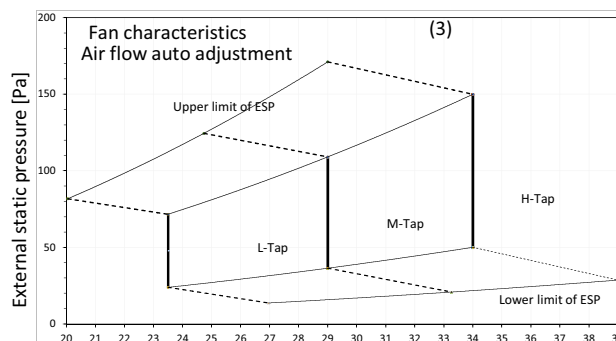


Mark	ESP [Pa]
*1	MAX 150
*2	100
*3	STD 50

Fan characteristics (2)



Air flow rate [m³/min]



Air flow rate [m³/min]

1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Notes

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3. Legend

Mark	Fan speed
H-Tap	High
M-Tap	Medium
L-Tap	Low

3D095527B

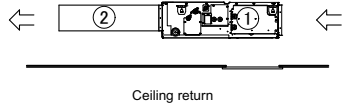
10 Installation

10 - 1 Installation Method

ADEA-A

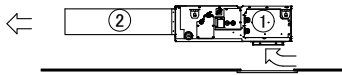
Installation methods

Rear suction



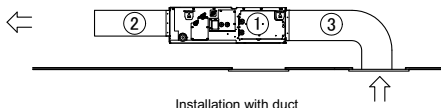
Ceiling return

Bottom suction

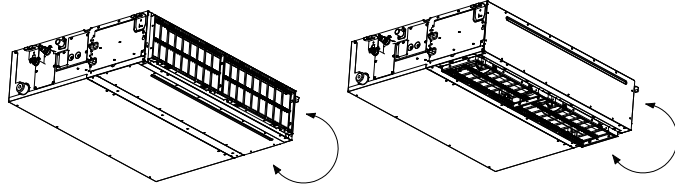


Ceiling return

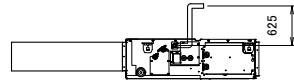
Rear suction



Installation with duct



Easy modification from rear suction to bottom suction



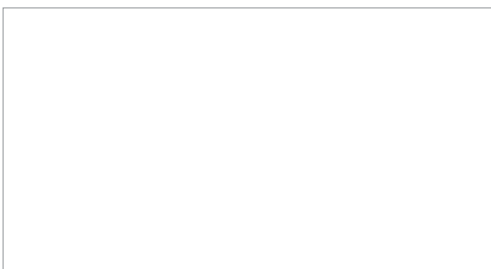
Height of drain pump outlet pipe

Number	Description	
①	Indoor unit	
②	Air outlet duct	Field supply
③	Air inlet duct	Field supply

3D094912A



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