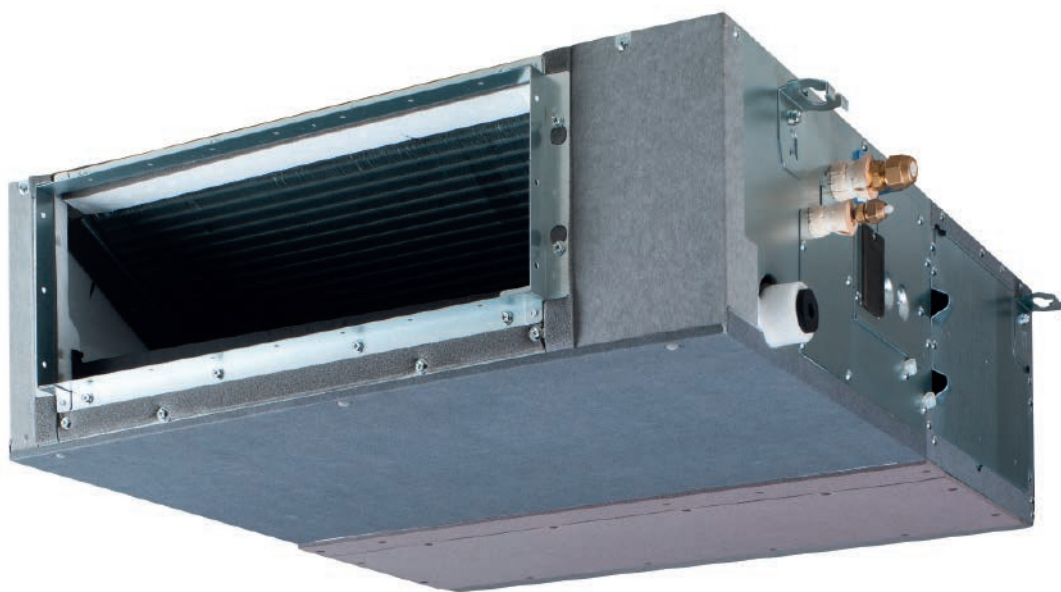


DX coil for air
processing
Air Conditioning
Technical Data
EKV DX-A



EKVDX32A2VEB
EKVDX50A2VEB
EKVDX80A2VEB
EKVDX100A2VEB

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EKVDX-A

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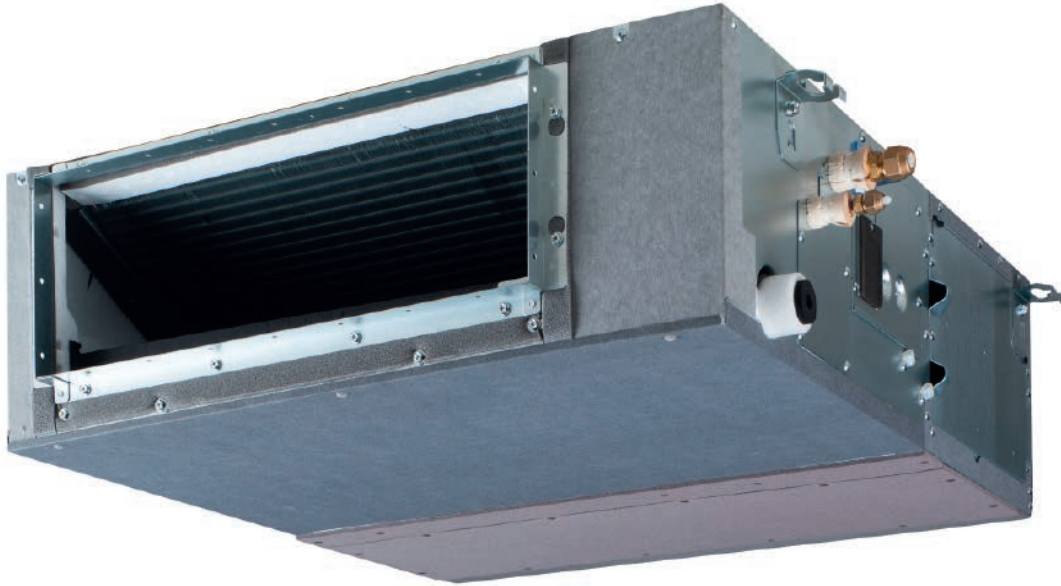
1 Features

1 - 1 EKVDX-A

Post heating or cooling of fresh air to lower the load on the air conditioning system

- 1 > Creates a high quality indoor environment by pre conditioning incoming fresh air
- > Maximum installation flexibility thanks to separate DX coil

- > Wide range of units covering fresh air flows of 500 up to 2,000 m³/h
- > High ESP up to 150Pa
- > Can be integrated in both R-32/R-410A VRV systems



2 Specifications

1 - 1 EKVDX-A

Technical specifications				EKVDX32A	EKVDX50A	EKVDX80A	EKVDX100A	
Power input - 50Hz	Cooling	Nom.	kW	0.035				
	Heating	Nom.	kW	0.035				
Power input - 60Hz	Cooling	Nom.	kW	0,04				
	Heating	Nom.	kW	0,04				
Casing	Material			Galvanised steel plate				
Insulation material				Opcell + anti-sweat material				
Dimensions	Unit	Height	mm	250				
		Width	mm	550	700	1,000	1,400	
		Depth	mm	809				
Weight	Unit			kg	19.0	23.4	30.1	37.7
Operation range	Around unit		°CDB		10°C~40°CDB, 80% RH or less			
	On coil tempera- ture	Cooling	Max.	°CDB	35.0			
		Heating	Min.	°CDB	11.0			
Piping connections	Liquid	Type	Flare connection					
		OD	mm	6.35				
	Gas	Type	Flare connection					
		OD	mm	12.7				
Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm				
Refrigerant	Control		Motor operated expansion valve					
	Type		R32/R410A					
	GWP		675.0 / 2,087.5					
Safety devices	Item	01		PC board fuse				
Electrical specifications				EKVDX32A	EKVDX50A	EKVDX80A	EKVDX100A	
Power supply	Name			VE				
	Phase			1~				
	Frequency			50/60				
	Voltage			220-240/220				
Current	Minimum circuit amps (MCA)			0.220				
	Nominal running current (RLA) - 50Hz		DX coil	A	0.17			
	Nominal running current (RLA) - 60Hz		DX coil	A	0.17			

1. Contains fluorinated greenhouse gases |

2. Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

3. Maximum allowable voltage range variation between phases is 2%. |

4. MCA represents maximum input current. |

5. Select wire size based on the value of MCA

2 Specifications

1 - 1 EKVDX-A

2

Technical specifications					VAM500J8VEB + EKVDX32A2VEB	VAM650J8VEB + EKVDX50A2VEB	VAM800J8VEB + EKVDX50A2VEB	VAM1000J8VEB + EKVDX80A2VEB	VAM1500J8VEB + EKVDX100A2VEB	VAM2000J8VEB + EKVDX100A2VEB
Cooling capacity	DX coil	At ultra high fan speed	kW		3.40 (1)	4.80 (1)	5.50 (1)	5.70 (1)	9.50 (1)	11.20 (1)
		At high fan speed	kW		2.70 (1)	4.10 (1)	4.40 (1)	4.50 (1)	8.80 (1)	9.20 (1)
	Total (VAM+DX coil)	At ultra high fan speed	kW		5.10 (1)	7.10 (1)	8.60 (1)	9.30 (1)	15.40 (1)	18.40 (1)
Heating capacity	DX coil	At ultra high fan speed	kW		4.20 (2)	5.10 (2)	6.90 (2)	7.00 (2)	10.80 (2)	13.00 (2)
		At high fan speed	kW		3.60 (2)	4.60 (2)	5.80 (2)	6.30 (2)	9.60 (2)	11.70 (2)
	Total (VAM+DX coil)	At ultra high fan speed	kW		6.70 (2)	8.50 (2)	11.00 (2)	11.90 (2)	18.70 (2)	22.90 (2)
Fan	Air flow rate - 50Hz	Heat exchange mode	Ultra high	m³/h	500 (3)	650 (3)	800 (3)	1,000 (3)	1,500 (3)	2,000 (3)
			High	m³/h	425 (3)	550 (3)	680 (3)	850 (3)	1,280 (3)	1,700 (3)
		Bypass mode	Ultra high	m³/h	500 (3)	650 (3)	800 (3)	1,000 (3)	1,500 (3)	2,000 (3)
	Air flow rate - 60Hz		High	m³/h	425 (3)	550 (3)	680 (3)	850 (3)	1,280 (3)	1,700 (3)
		Heat exchange mode	Ultra high	m³/h	500 (3)	650 (3)	800 (3)	1,000 (3)	1,500 (3)	2,000 (3)
			High	m³/h	425 (3)	550 (3)	680 (3)	850 (3)	1,275 (3)	1,700 (3)
	External static pressure - 50Hz	Bypass mode	Ultra high	m³/h	500 (3)	650 (3)	800 (3)	1,000 (3)	1,500 (3)	2,000 (3)
			High	m³/h	425 (3)	550 (3)	680 (3)	850 (3)	1,275 (3)	1,700 (3)
		Maximum	Pa	82 (4)	73 (4)	134 (4)	106 (4)	154 (4)	92 (4)	
	External static pressure - 60Hz	Ultra high	Pa	519 (4)	43.0 (4)	23.7 (4)	26.0 (4)	43.6 (4)	12.1 (4)	
			High	Pa	39.0 (4)	33.9 (4)	19.4 (4)	21.4 (4)	35.1 (4)	11.9 (4)
		Maximum	Pa	82 (4)	73 (4)	134 (4)	106 (4)	154 (4)	92 (4)	
Sound pressure level - 50Hz	Cooling	Ultra high	dBA	32.00	34.00	35.50	40.50	38.50	43.50	
		High	dBA	30.50	32.00	34.00	38.00	37.00	40.00	
	Heating	Ultra high	dBA	32.50	34.50	36.00	40.50	39.00	44.00	
		High	dBA	31.50	32.00	34.00	38.50	37.00	40.50	
Sound pressure level - 60Hz	Cooling	Ultra high	dBA	32.00	34.00	35.50	40.50	38.50	43.50	
		High	dBA	30.50	32.00	34.00	38.00	37.00	40.00	
	Heating	Ultra high	dBA	32.50	34.50	36.00	40.50	39.00	44.00	
		High	dBA	31.50	32.00	34.00	38.50	37.00	40.50	
Control systems	Wired remote control			BRC1H52W/S/K; BRC1H82W/S	BRC1H52W/S/K; BRC1H82W/S	BRC1H52W/S/K; BRC1H82W/S	BRC1H52W/S/K; BRC1H82W/S	BRC1H52W/S/K; BRC1H82W/S	BRC1H52W/S/K; BRC1H82W/S	

- Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |
- Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |
- Measured according to JIS B 8628 - 2003 |
- Pressure drop of EKVDX included |
- The heat reclaim ventilation unit and the EKVDX indoor unit MUST share the same electrical safety devices and power supply

Electrical Specifications				VAM500J8VEB + EKVDX32A2VEB	VAM650J8VEB + EKVDX50A2VEB	VAM800J8VEB + EKVDX50A2VEB	VAM1000J8VEB + EKVDX80A2VEB	VAM1500J8VEB + EKVDX100A2VEB	VAM2000J8VEB + EKVDX100A2VEB
Current	Maximum fuse amps (MFA)	A		6.00	6.00	6.00	6.00	16.0	16.0

3 Electrical data

3 - 1 Electrical Data

EKVDX-A

Unit combination restrictions				Power supply			Power input [W]	
Model name	Frequency [Hz]	Voltage [V]	Voltage range [V]	MCA	MFA	FLA	Cooling	Heating
EKVDX32A2VEB	50/60	220-240/220	MAX. 264/MAX.242 MIN. 198/MIN. 198	0.22	6	0.18	35	35
EKVDX50A2VEB				0.22	6	0.18	35	35
EKVDX80A2VEB				0.22	6	0.18	35	35
EKVDX100A2VEB				0.22	16	0.18	35	35

Notes

1. 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.
2. The maximum allowable voltage that is unbalanced between phases is ~2-%.
3. $MCA = 1.25 \times FLA$
4. Select the wire size according to the MCA.
5. Use a circuit breaker instead of a fuse.
6. The ·VAM*· and the ·EKVDX*· indoor units share the same electrical safety devices and power supply.
The ·MFA· is calculated for the combination of these units.

Symbols

- MCA: Minimum Circuit Ampere [A]
MFA: Maximum Fuse Ampere [A]
FLA: Full Load Ampere [A]

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4 Safety device settings

4 - 1 Safety Device Settings

EKVDX-A

EKVDX*A2VEB	Safety devices	32	50	80	100
	Printed circuit board (main)	250V / 3.15A	250V / 3.15A	250V / 3.15A	250V / 3.15A

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5 Options

5 - 1 Options

EKVDX-A

Option kit	Product name	Availability			
		EKVDX32A2VEB	EKVDX50A2VEB	EKVDX80A2VEB	EKVDX100A2VEB
Air discharge adaptor for round ducts	KDAP25A36A	✓			
	KDAP25A56A		✓		
	KDAP25A71A			✓	
	KDAP25A140A				✓
Wired remote controller (Middle East)	BRC1H82W/S/K ①	✓	✓	✓	✓
Wired remote controller (Europe)	BRC1H52W/S/K ①	✓	✓	✓	✓
Installation box for adaptor PCB	KRP1BC101	✓	✓	✓	✓
Central remote control	DCS302C51	✓	✓	✓	✓
Unified ON/OFF controller	DCS301B51	✓	✓	✓	✓
Electrical box with earth terminal (-2- blocks)	KJB212AA	✓	✓	✓	✓
Electrical box with earth terminal (-3- blocks)	KJB311AA	✓	✓	✓	✓
Electrical box with earth terminal	KJB411A	✓	✓	✓	✓
External adaptor for outdoor unit (installation on indoor unit)	DTA104A61 ②	✓	✓	✓	✓
iTouch Controller	DCS601C51	✓	✓	✓	✓
Intelligent Touch Manager	DCM601A51	✓	✓	✓	✓
Intelligent Tablet Controller	DCC601A51	✓	✓	✓	✓

Notes

- ① ·EKVDX*A2VEB· can only have one ·BRC1H*·
 ② Requires installation box for adaptor PCB ·KRP1BC101·.

3D127963A

6 Combination table

6 - 1 Combination Table

6

EKVDX-A

Compatibility list

		Model				
		Model	EKVDX32A2VEB	EKVDX50A2VEB	EKVDX80A2VEB	EKVDX100A2VEB
VAM*J8VEB	VAM350J8VEB	-	-	-	-	
	VAM500J8VEB	P	-	-	-	
	VAM650J8VEB	-	P	-	-	
	VAM800J8VEB	-	P	-	-	
	VAM1000J8VEB	-	-	P	-	
	VAM1500J8VEB	-	-	-	P	
	VAM2000J8VEB	-	-	-	P	

Notes

- : Not compatible
P : Compatible in pair

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7 Capacity tables

7 - 1 Cooling Capacity Tables

EKVDX-A

		Indoor air temperature													
		14.0 [°C WB]		16.0 [°C WB]		18.0 [°C WB]		19.0 [°C WB]		20.0 [°C WB]		22.0 [°C WB]		24.0 [°C WB]	
		20.0 [°C DB]		23.0 [°C DB]		26.0 [°C DB]		27.0 [°C DB]		28.0 [°C DB]		30.0 [°C DB]		32.0 [°C DB]	
Indoor unit combinations	Fan speed	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
EKVDX32 / VAM500	UH	2.0	1.7	2.6	1.9	3.1	2.3	3.4	2.4	3.7	2.5	4.3	2.6	5.0	2.8
	H	Correction factor ·0.79 x UH·													
EKVDX50 / VAM650	UH	2.7	2.2	3.6	2.7	4.4	3.1	4.8	3.2	5.2	3.4	6.1	3.5	7.0	3.7
	H	Correction factor ·0.86 x UH·													
EKVDX50 / VAM800	UH	3.1	2.7	4.1	3.3	5.0	3.8	5.5	3.9	6.0	4.1	7.0	4.3	8.1	4.5
	H	Correction factor ·0.80 x UH·													
EKVDX80 / VAM1000	UH	3.2	3.1	4.2	3.7	5.2	4.4	5.7	4.6	6.2	4.8	7.3	5.1	8.5	5.3
	H	Correction factor ·0.79 x UH·													
EKVDX100 / VAM1500	UH	5.4	4.8	7.0	5.8	8.7	6.7	9.5	7.0	10.3	7.3	12.2	7.8	14.1	8.2
	H	Correction factor ·0.93 x UH·													
EKVDX100 / VAM2000	UH	6.4	6.2	8.3	7.6	10.2	8.9	11.2	9.2	12.2	9.5	14.4	10.2	16.6	10.8
	H	Correction factor ·0.94 x UH·													

Notes

1. TC: Total capacity [kW]
SHC: Sensible heat capacity [kW]
2. Outdoor temperature ~35°C DB

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7 Capacity tables

7 - 2 Heating Capacity Tables

7

EKVDX-A

Indoor unit combinations	Fan speed	Indoor air temperature					
		16.0 [°C DB]	18.0 [°C DB]	20.0 [°C DB]	21.0 [°C DB]	22.0 [°C DB]	24.0 [°C DB]
Indoor unit combinations	Fan speed	TC	TC	TC	TC	TC	TC
EKVDX32 / VAM500	UH	4.9	4.5	4.2	4.0	3.9	3.5
	H	Correction factor :0.85 x UH·					
EKVDX50 / VAM650	UH	5.9	5.5	5.1	4.9	4.7	4.3
	H	Correction factor :0.91 x UH·					
EKVDX50 / VAM800	UH	8.0	6.8	6.9	6.6	6.4	5.8
	H	Correction factor :0.84 x UH·					
EKVDX80 / VAM1000	UH	8.2	7.6	7.0	6.7	6.4	5.9
	H	Correction factor :0.90 x UH·					
EKVDX100 / VAM1500	UH	12.6	11.7	10.8	10.4	9.9	9.1
	H	Correction factor :0.89 x UH·					
EKVDX100 / VAM2000	UH	15.2	14.0	13.0	12.5	12.0	10.9
	H	Correction factor :0.90 x UH·					

Notes
1. TC: Total capacity [kW]
2. Outdoor temperature :7·°C DB / -6·°C WB

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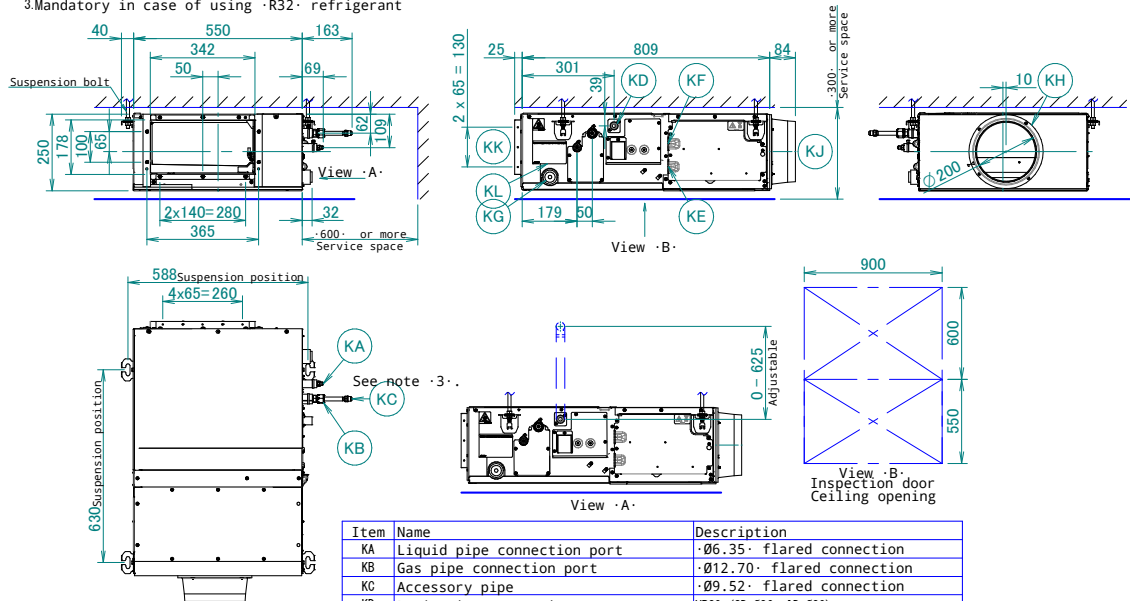
8 Dimensional drawings

8 - 1 Dimensional Drawings

EKVDX32A

Notes

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. Mandatory in case of using R32 refrigerant



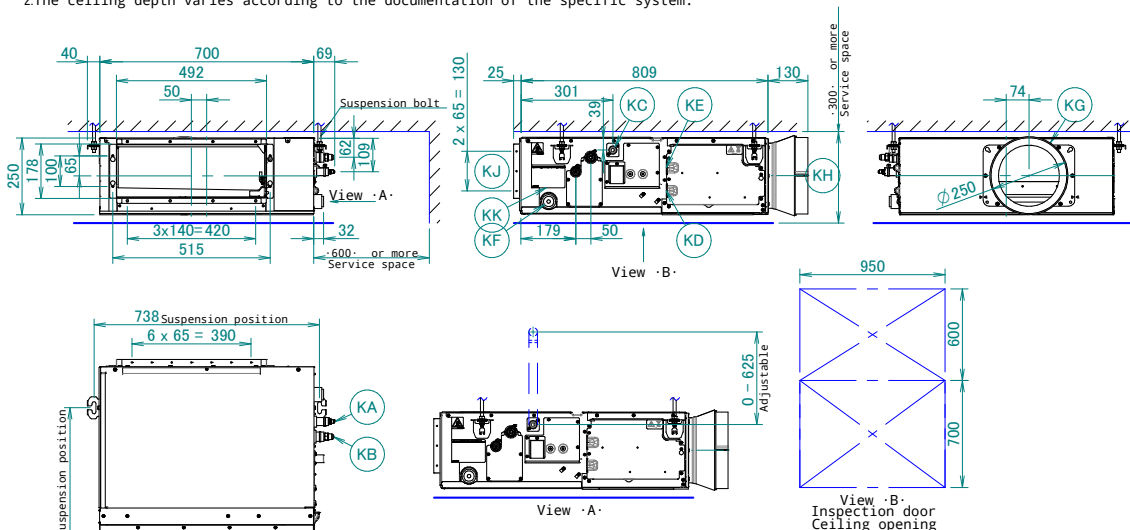
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Accessory pipe	Ø9.52 flared connection
KD	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KE	Wiring connection	
KF	Power supply connection	
KG	Drain outlet	VP20 (OD Ø26, ID Ø20)
KH	Air inlet flange	
KJ	Air suction side	
KL	Air discharge side	
KL	Nameplate	

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EKVDX50A

Notes

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



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 inlet flange	
KH	Air suction side	
KJ	Air discharge side	
KL	Nameplate	

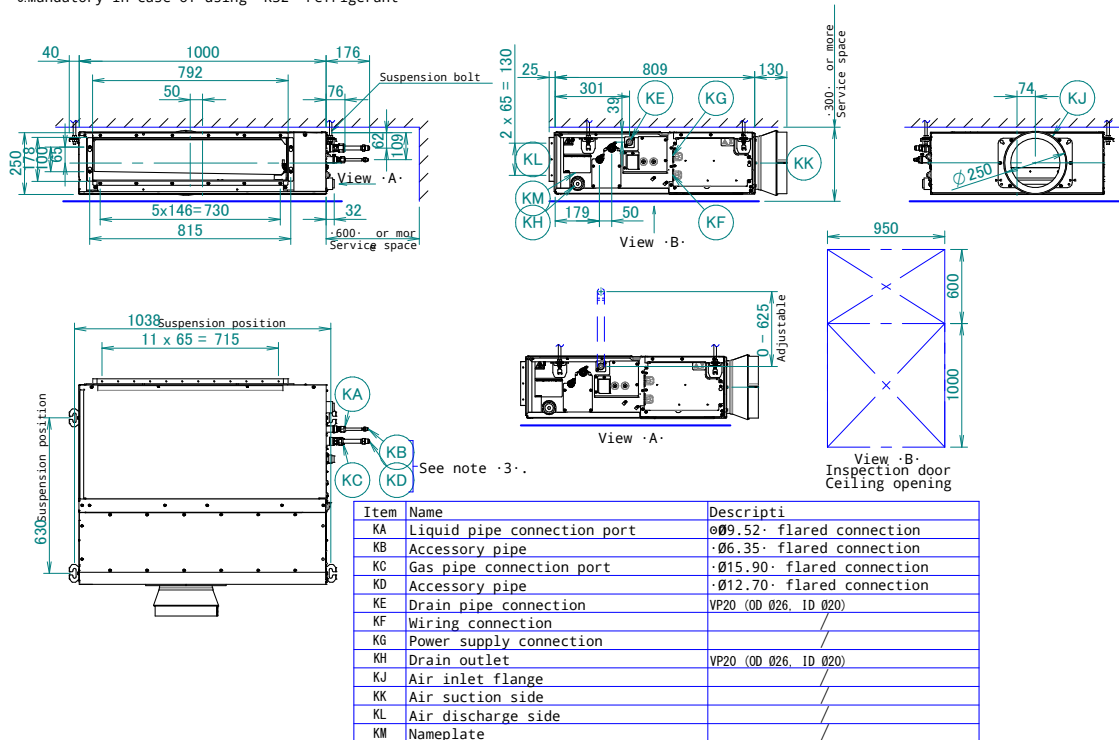
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8 Dimensional drawings

8 - 1 Dimensional Drawings

EKVDX80A

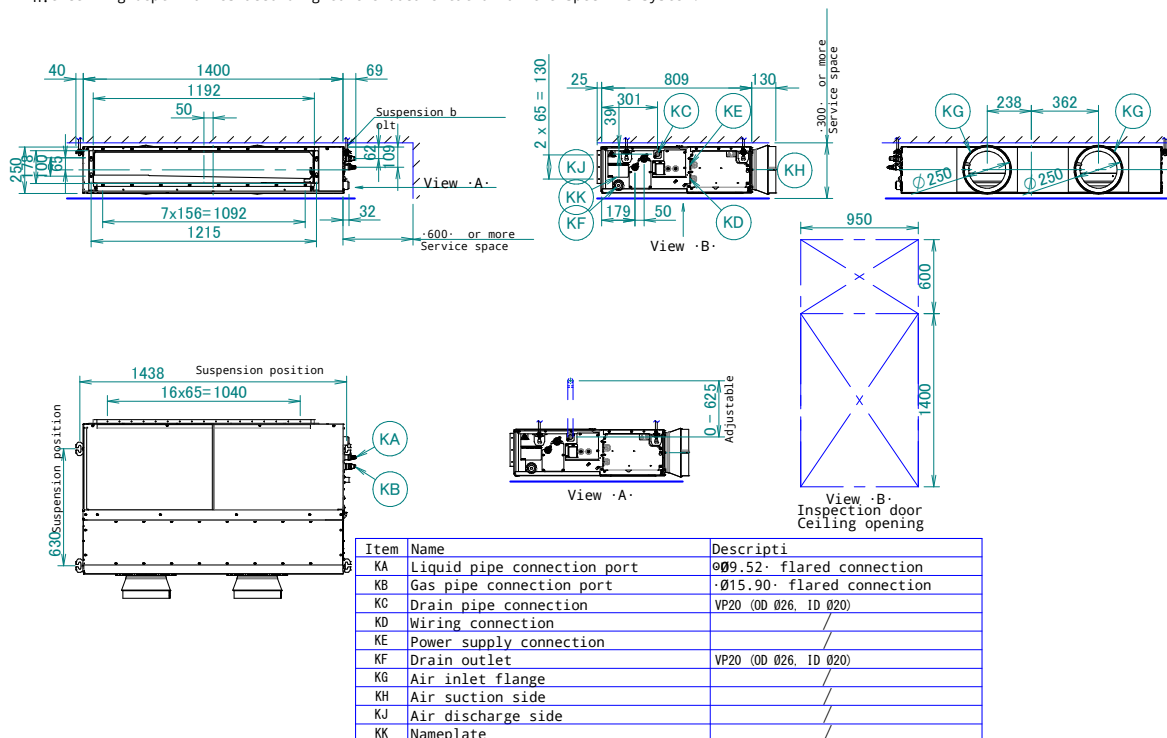
- Notes
 1. When installing optional accessories, refer to their respective documentation.
 2. The ceiling depth varies according to the documentation of the specific system.
 3. Mandatory in case of using R32 refrigerant



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EKVDX100A

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

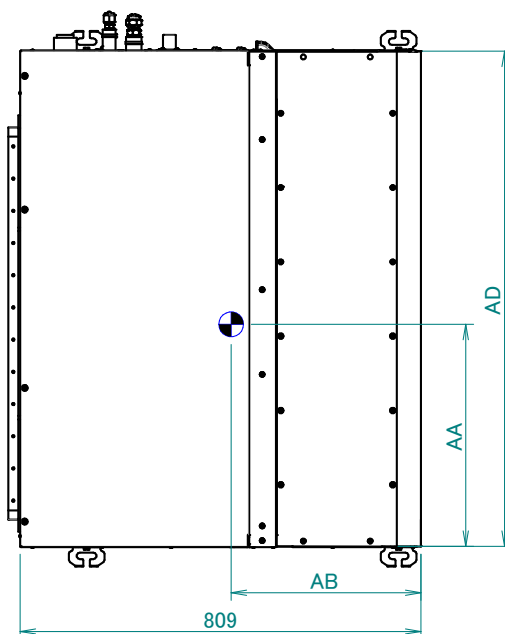
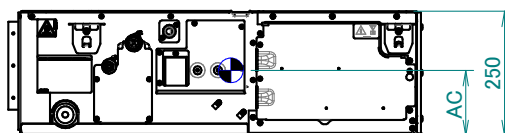


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9 Centre of gravity

9 - 1 Centre of Gravity

EKVDX-A



APPLICABLE MODELS	AA	AB	AC	AD
EKVDX32A2VEB	226	410	123	550
EKVDX50A2VEB	295	401	124	700
EKVDX80A2VEB	439	410	125	1000
EKVDX100A2VEB	616	403	130	1400

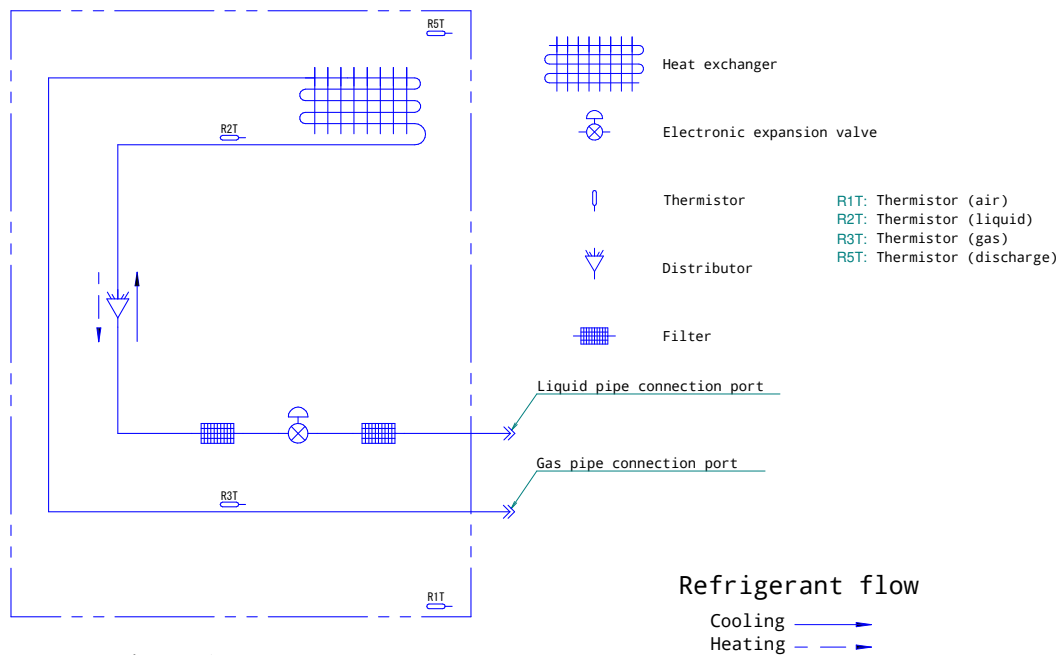
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10 Piping diagrams

10 - 1 Piping Diagrams

10

EKVDX-A

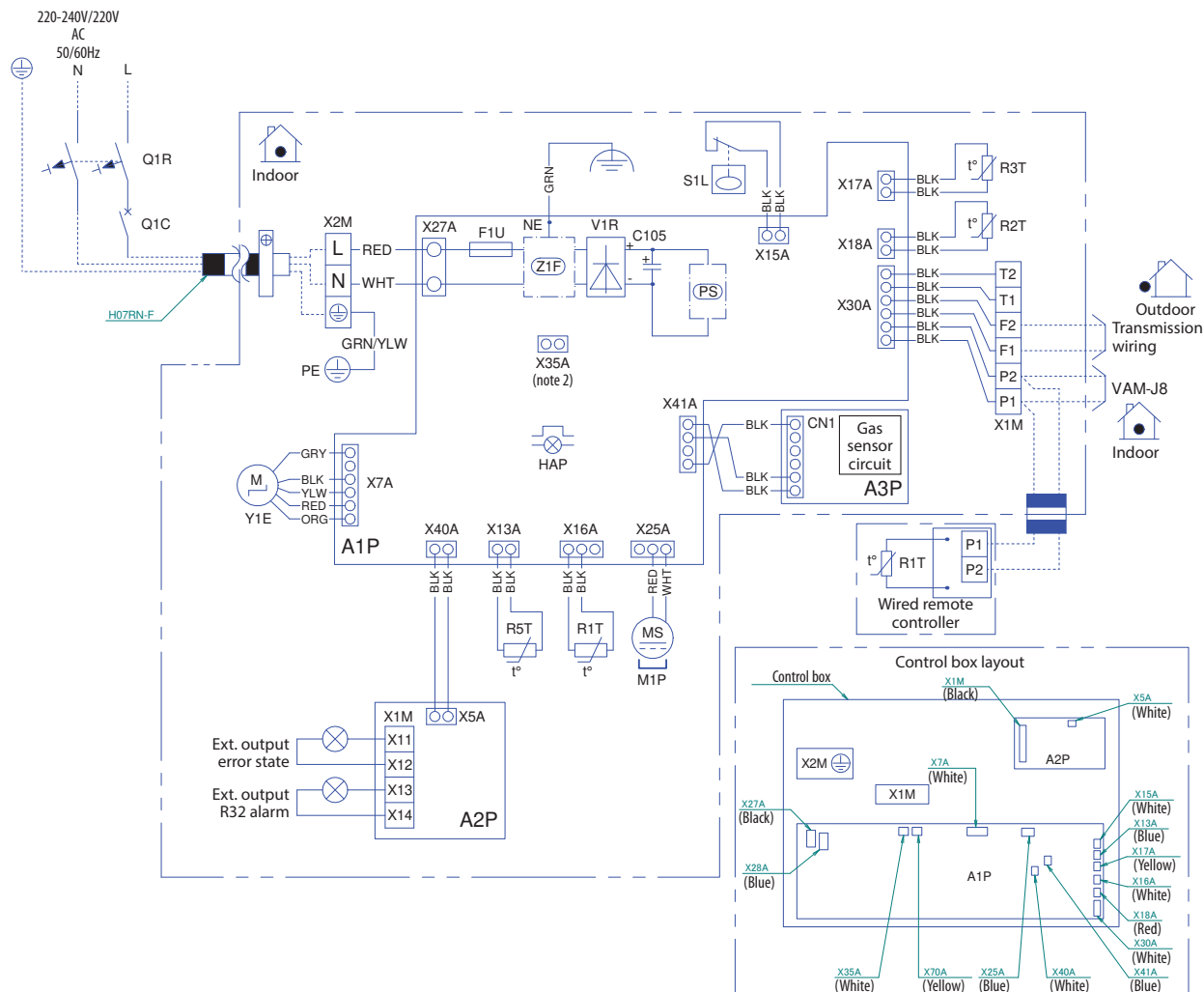


Piping connections Ø

Model	R410A		R32	
	Gas	Liquid	Gas	Liquid
EKVDX32A2VEB	Ø 12.70	Ø 6.35	Ø 9.52	Ø 6.35
EKVDX50A2VEB	Ø 12.70	Ø 6.35	Ø 12.70	Ø 6.35
EKVDX80A2VEB	Ø 15.90	Ø 9.52	Ø 12.70	Ø 6.35
EKVDX100A2VEB	Ø 15.90	Ø 9.52	Ø 15.90	Ø 9.52

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11 - 1 Wiring Diagrams - Single Phase

EKVDX-A

Indoor unit	
A1P	Printed circuit board (main)
A2P	Printed circuit board (relay)
A3P	Printed circuit board (gas sensor)
C105	Capacitor
CN1	Gas sensor connector
F1U	Fuse (T, 3.15A, 250V)
HAP	Indication lamp
M1P	Motor (drain pump)
NE	Noiseless earth
PS	Switching power supply
Q1C	Circuit breaker
Q1R	Residual current device
R1T	Thermistor (air)
R2T	Thermistor (liquid)
R3T	Thermistor (coil)
R5T	Thermistor (discharge)
S1L	Float switch
V1R	Diode bridge
X1M	Terminal strip (remote controller)
X1M (A2P)	Connector (ext. Output)
X2M	Terminal strip (power supply)
X*A	Connector
Y1E	Electronic expansion valve
Z1F	Noise filter
Wired remote controller	
R1T	Thermistor (air)

1. : Terminal block

1. : Terminal block
: Connector
: Field wiring
2. X35A is connected when optional accessories are being used, see wiring diagram of this accessory.
3. An EKVDX* unit and its corresponding VAM*J8* unit should be connected to a common power supply. Refer to the installation manual of the EKVDX* unit for further details.

BLK : Black
BLU : Blue
YLW : Yellow
BRN : Brown
ORG : Orange
RED : Red
WHT : White
GRN : Green
PNK : Pink
GRY : Grey

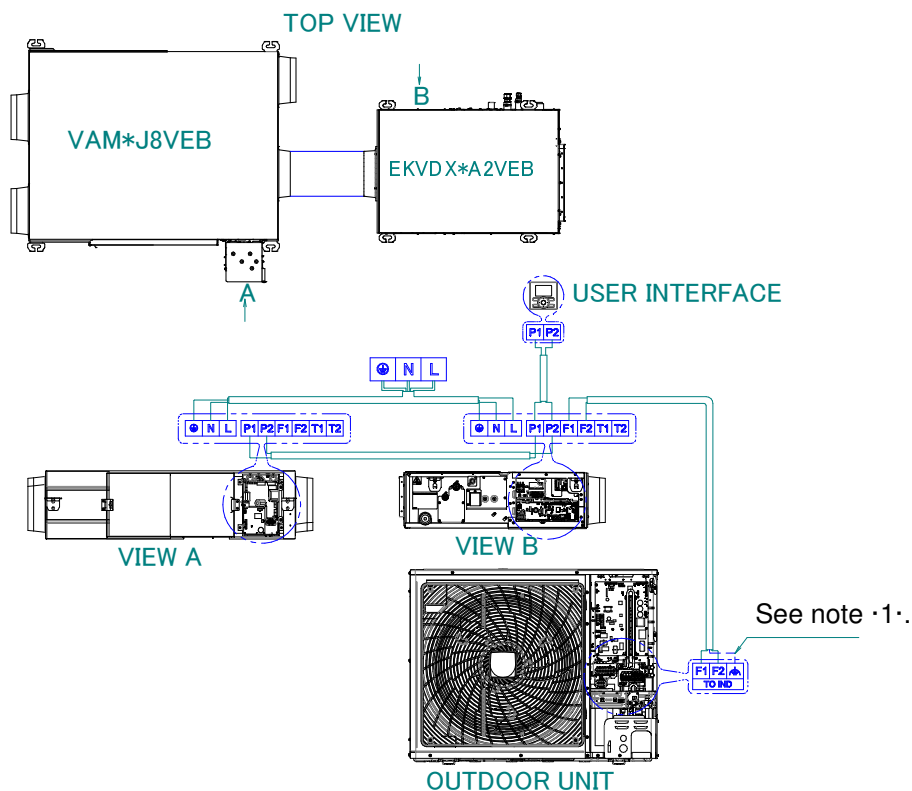
3D127962A

12 External connection diagrams

12 - 1 External Connection Diagrams

12

EKVDX-A



Notes

1. See the outdoor unit manual regarding the requirement of shielded wiring

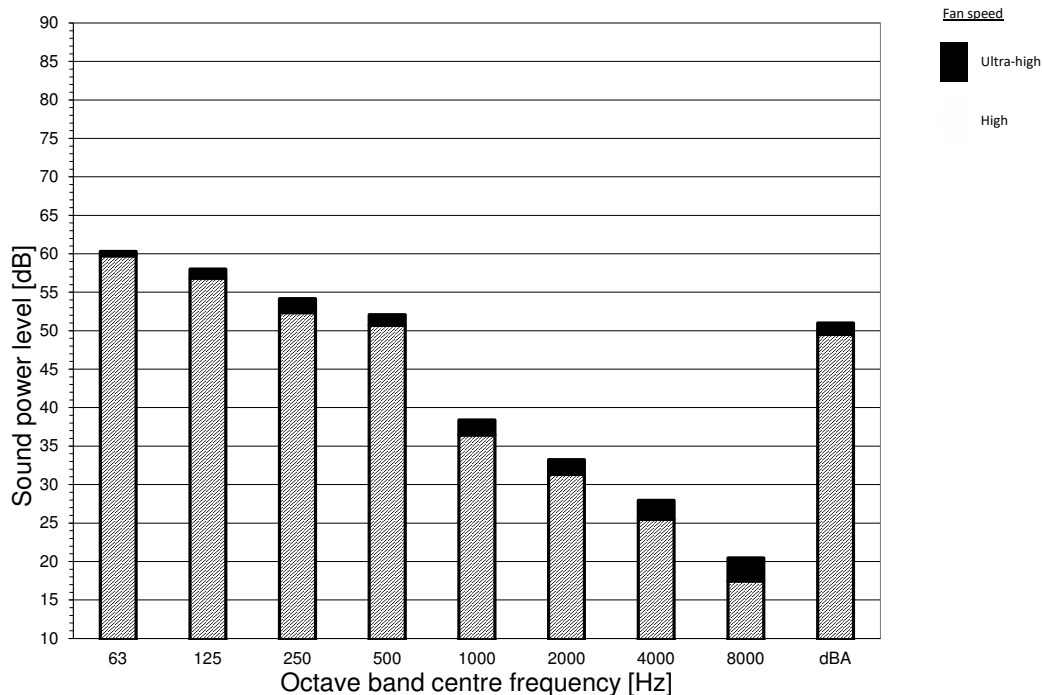
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13 Sound data

13 - 1 Sound Power Spectrum

EKVDX32A

Fan only



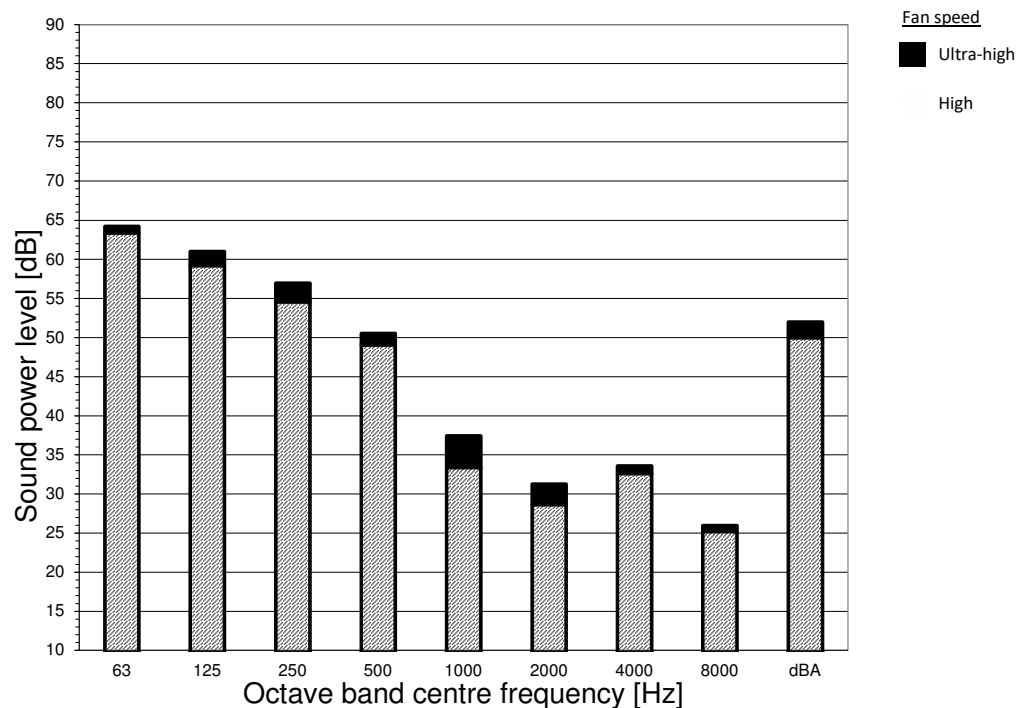
Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744
- Data is valid when connected to the VAM500.

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EKVDX32A

Cooling mode



Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744

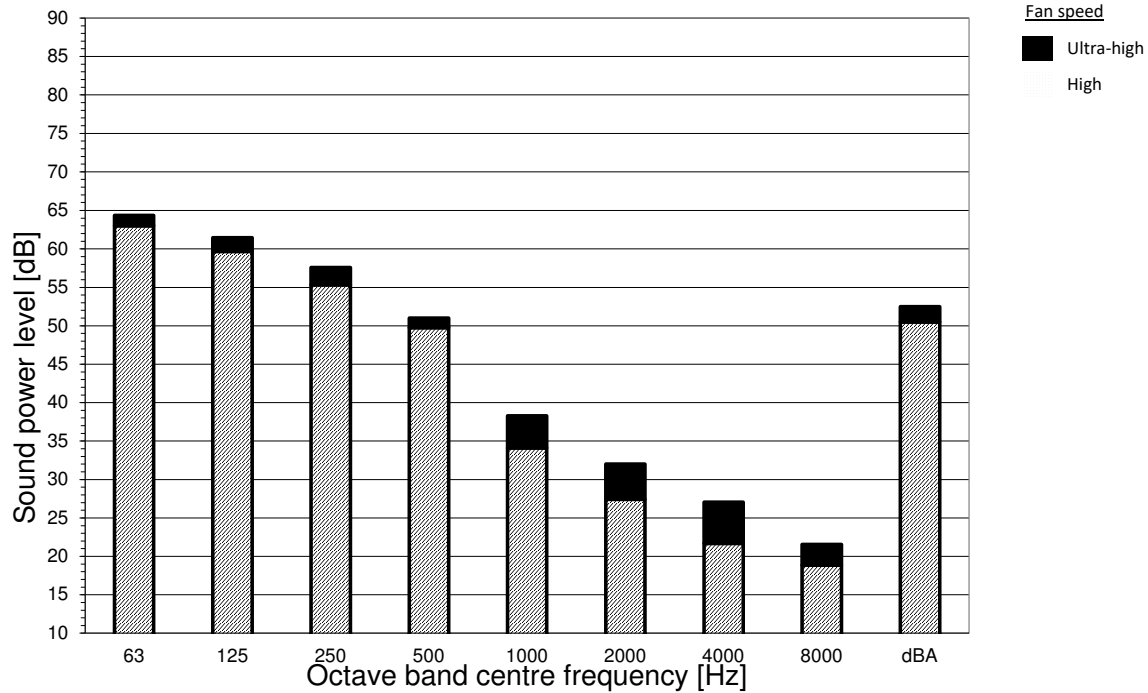
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13 Sound data

13 - 1 Sound Power Spectrum

EKVDX32A

Heating mode



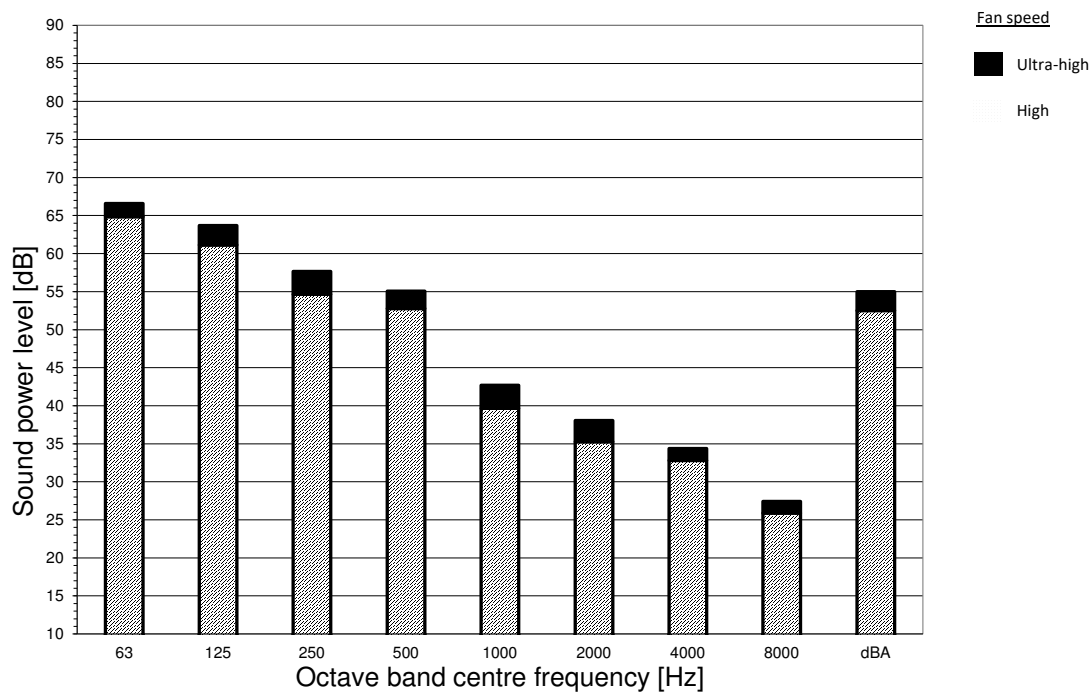
Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744
- Data is valid when connected to the -VAM500-

3D138249

EKVDX50A/VAM650J8

Cooling mode



Notes

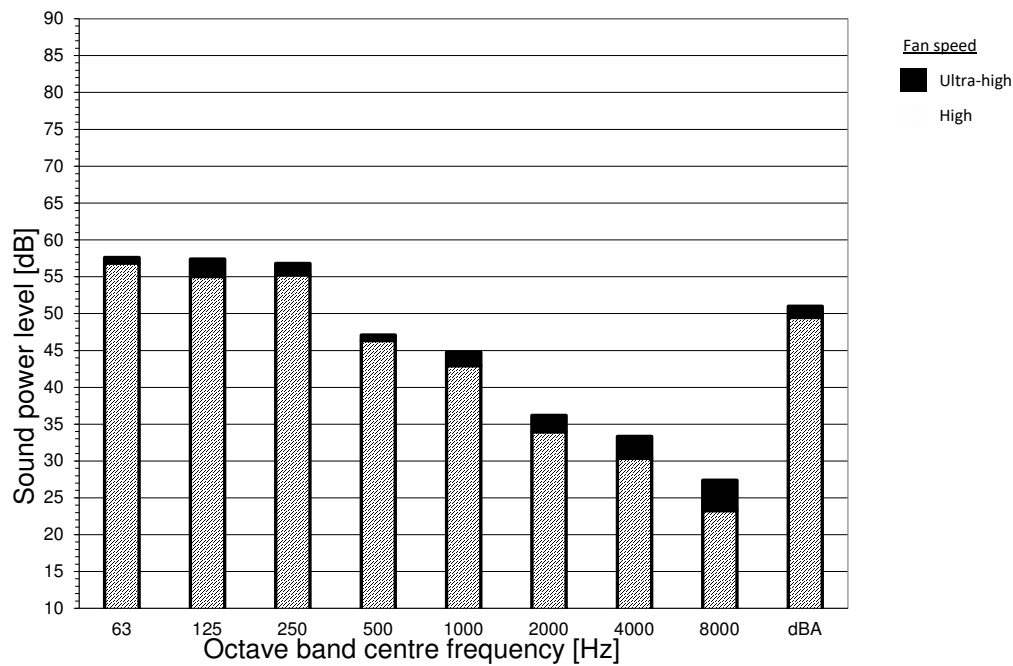
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744
- Data is valid when connected to the -VAM650-

3D138213

13 Sound data

13 - 1 Sound Power Spectrum

EKVDX50A/VAM650J8



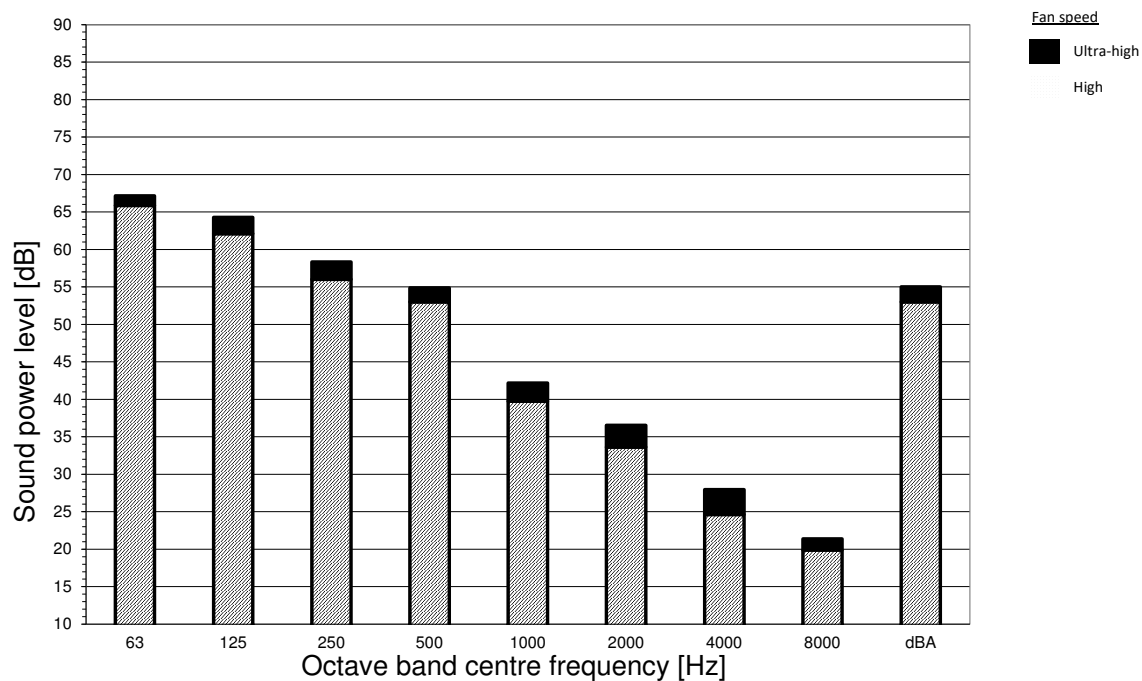
Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744
- Data is valid when connected to the -VAM650-

3D138222

EKVDX50A/VAM650J8

Heating mode



Notes

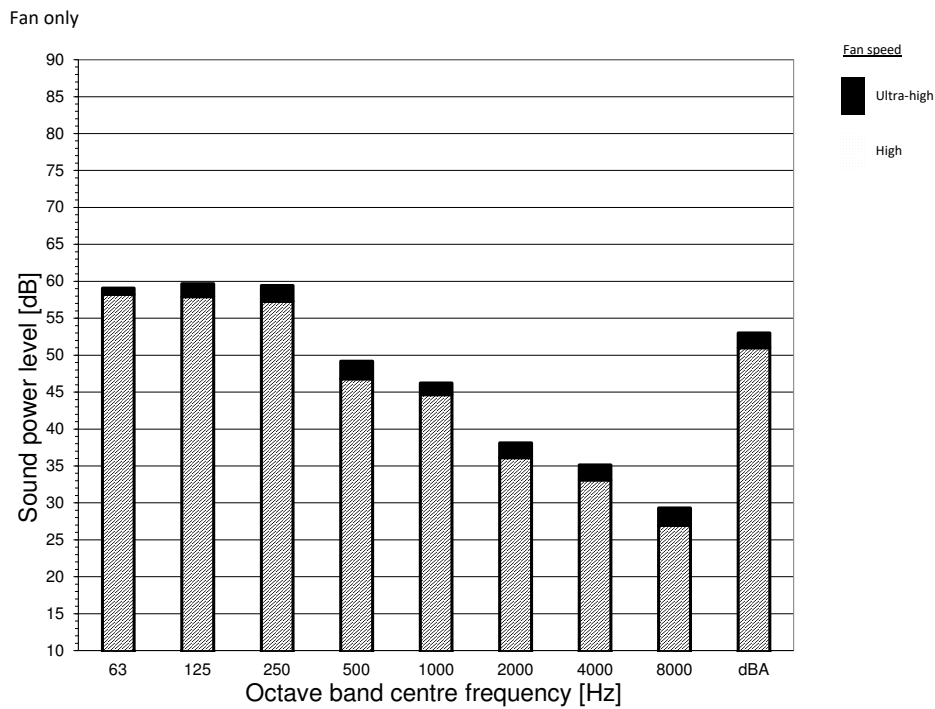
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744
- Data is valid when connected to the -VAM650-

3D138250

13 Sound data

13 - 1 Sound Power Spectrum

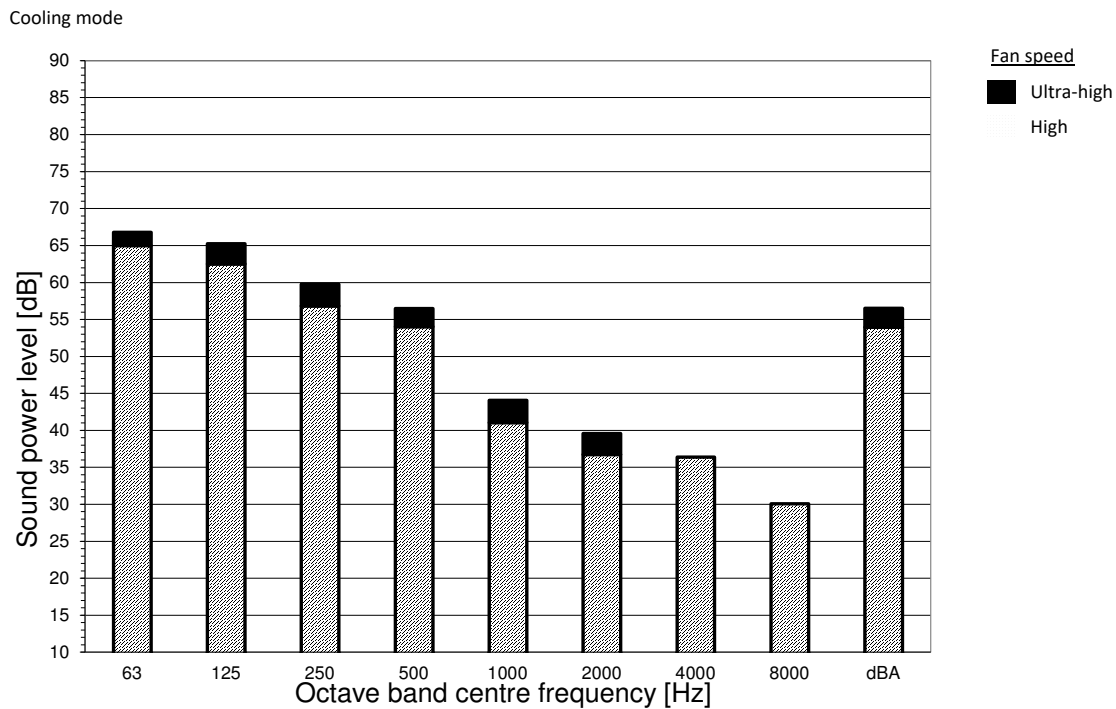
EKV DX50A/VAM800J8



- Notes
- dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = -10⁻¹² W.
 - Measured according to ISO 3744
 - Data is valid when connected to the VAM800.

3D127985

EKV DX50A/VAM800J8



- Notes
- dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = -10⁻¹² W.
 - Measured according to ISO 3744
 - Data is valid when connected to the VAM800.

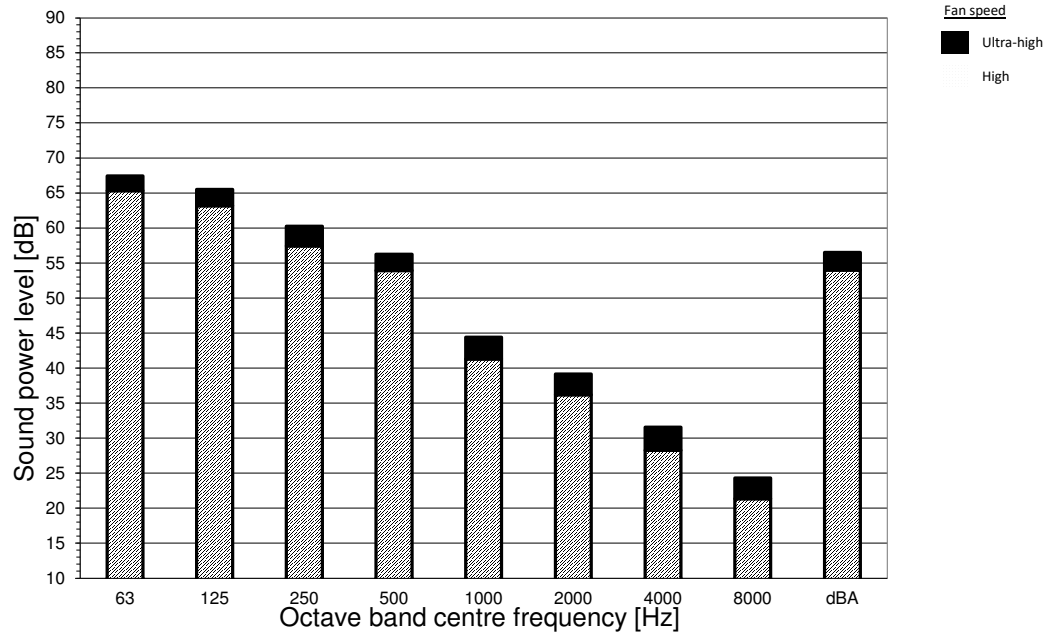
3D138247

13 Sound data

13 - 1 Sound Power Spectrum

EKVDX50A/VAM800J8

Heating mode

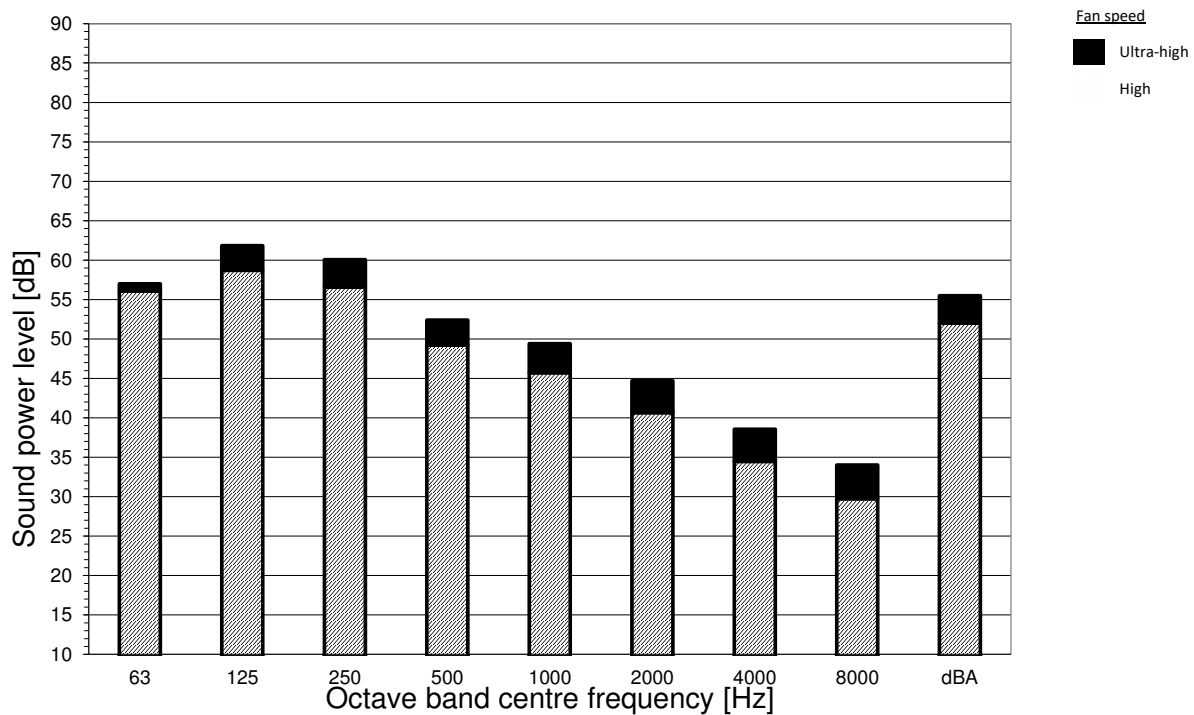


Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = -10^4 -12 W.
- Measured according to ISO 3744
- Data is valid when connected to the ·VAM800·

3D138251

EKVDX80A



Notes

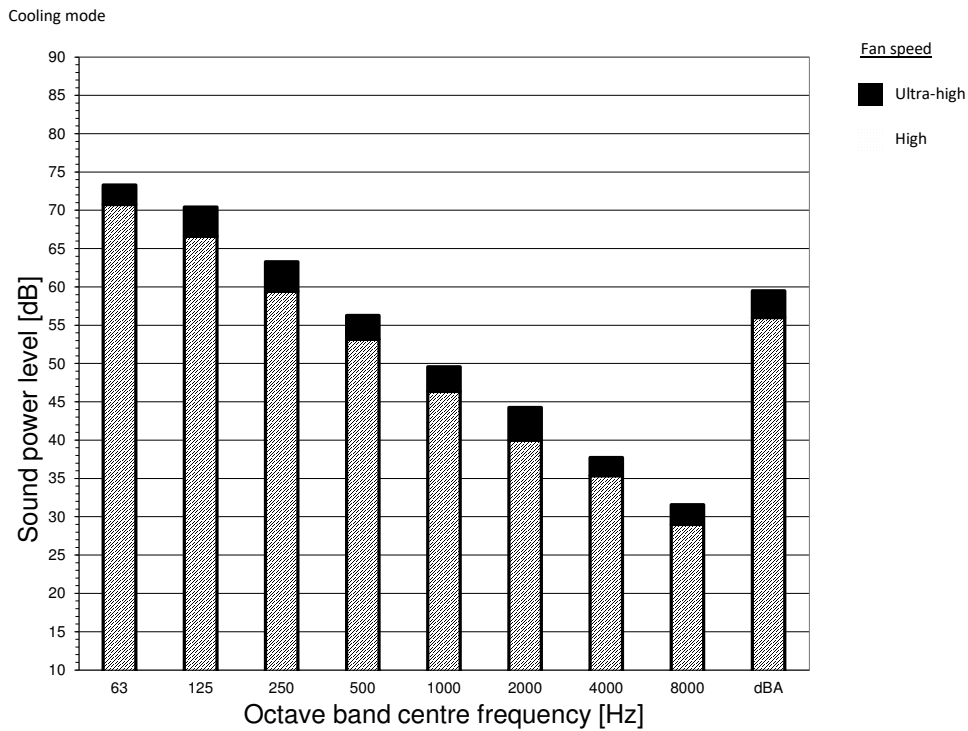
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = -10^4 -12 W.
- Measured according to ISO 3744
- Data is valid when connected to the ·VAM1000·

3D127986

13 Sound data

13 - 1 Sound Power Spectrum

EKVDX80A

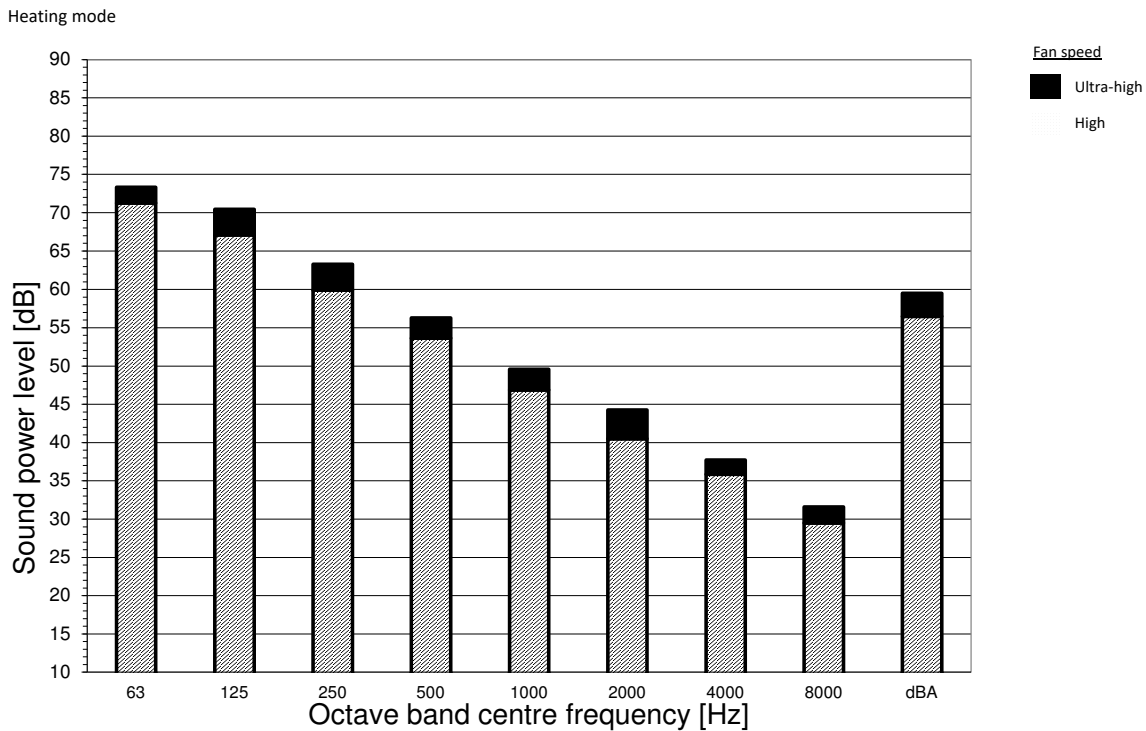


Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744
- Data is valid when connected to the -VAM1000-

3D138214

EKVDX80A



Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744
- Data is valid when connected to the -VAM1000-

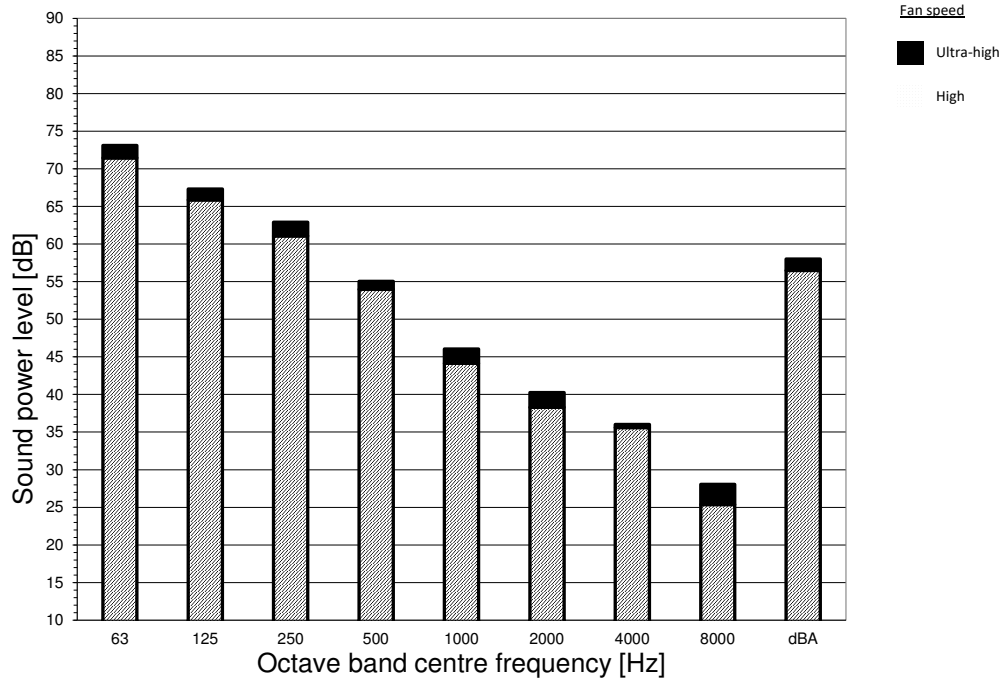
3D138252

13 Sound data

13 - 1 Sound Power Spectrum

EKVDX100A/VAM1500J8

Cooling mode



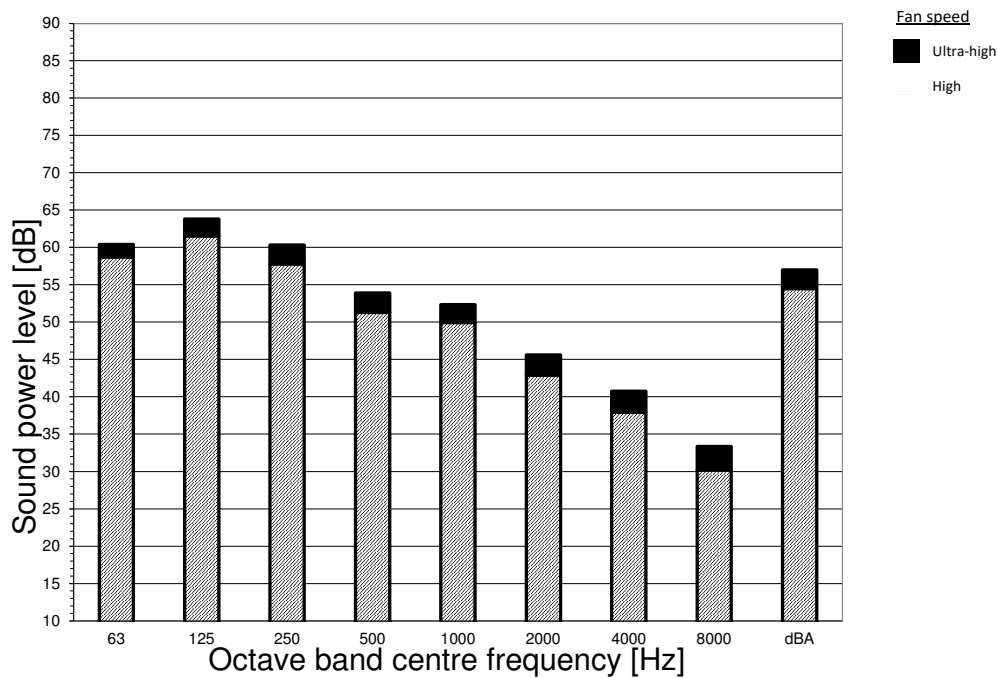
Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{dB} = 10^{-12} \text{ W}$.
- Measured according to ISO 3744
- Data is valid when connected to the VAM1500.

3D138215

EKVDX100A/VAM1500J8

Fan only



Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{dB} = 10^{-12} \text{ W}$.
- Measured according to ISO 3744
- Data is valid when connected to the VAM1500.

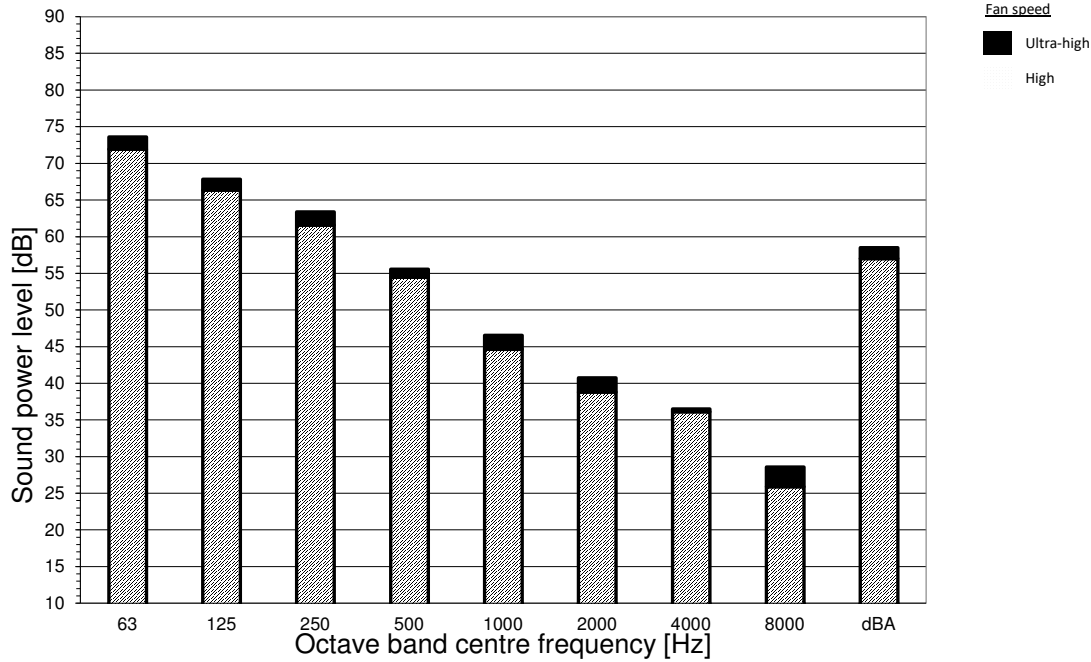
3D138223

13 Sound data

13 - 1 Sound Power Spectrum

EKVDX100A/VAM1500J8

Heating mode



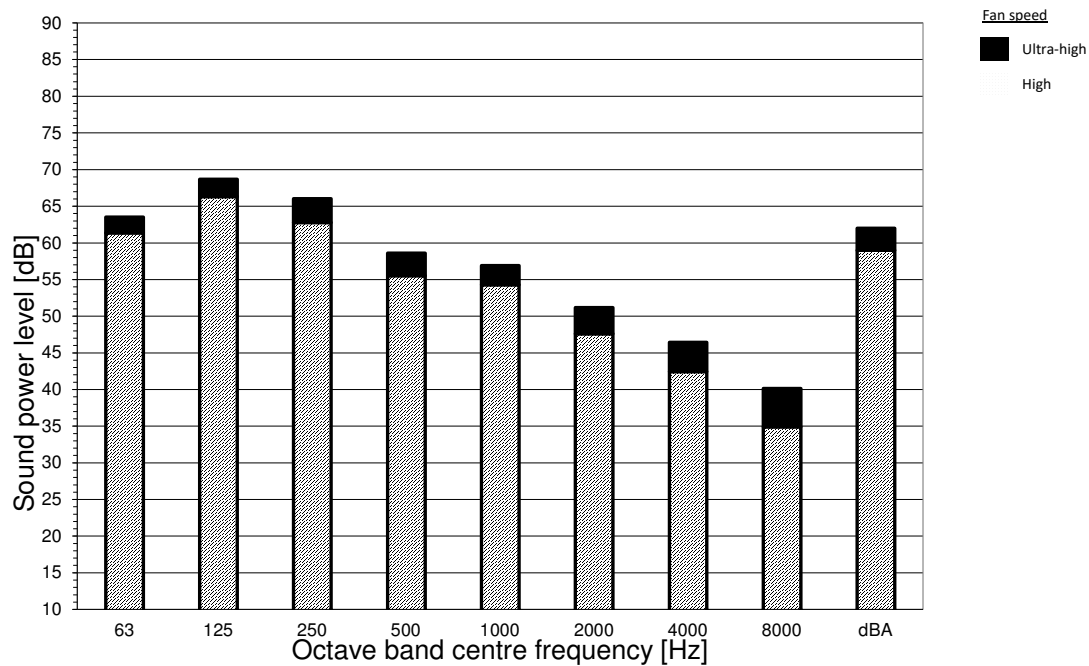
Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W
- Measured according to ISO 3744
- Data is valid when connected to the VAM1500

3D138253

EKVDX100A/VAM2000J8

Fan only



Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W
- Measured according to ISO 3744
- Data is valid when connected to the VAM2000

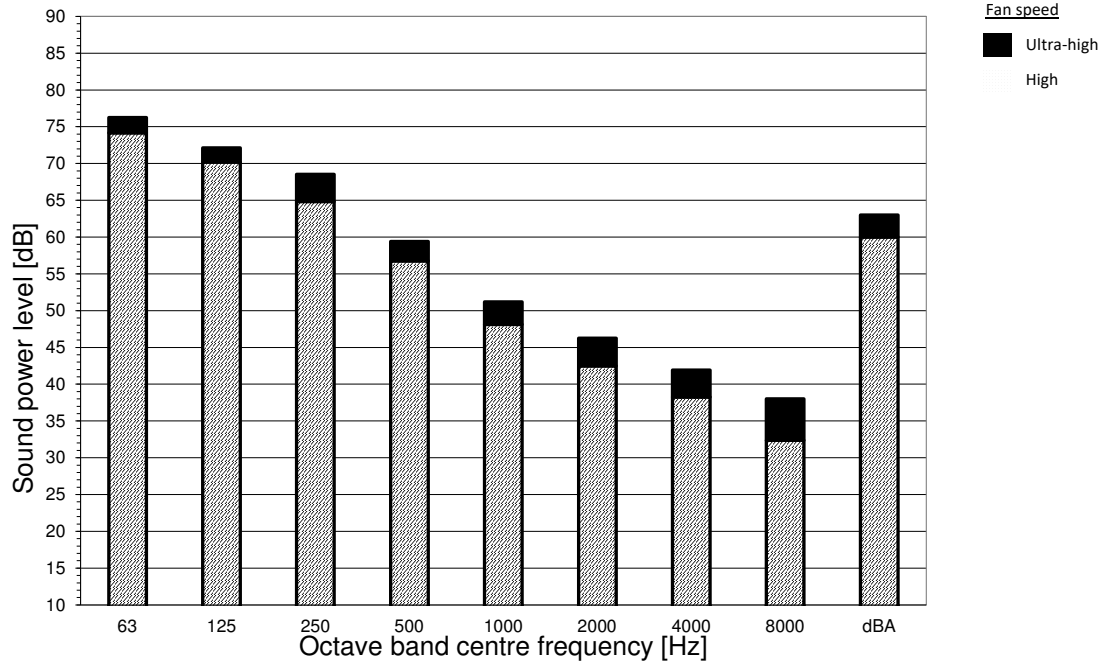
3D127987

13 Sound data

13 - 1 Sound Power Spectrum

EKVDX100A/VAM2000J8

Cooling mode



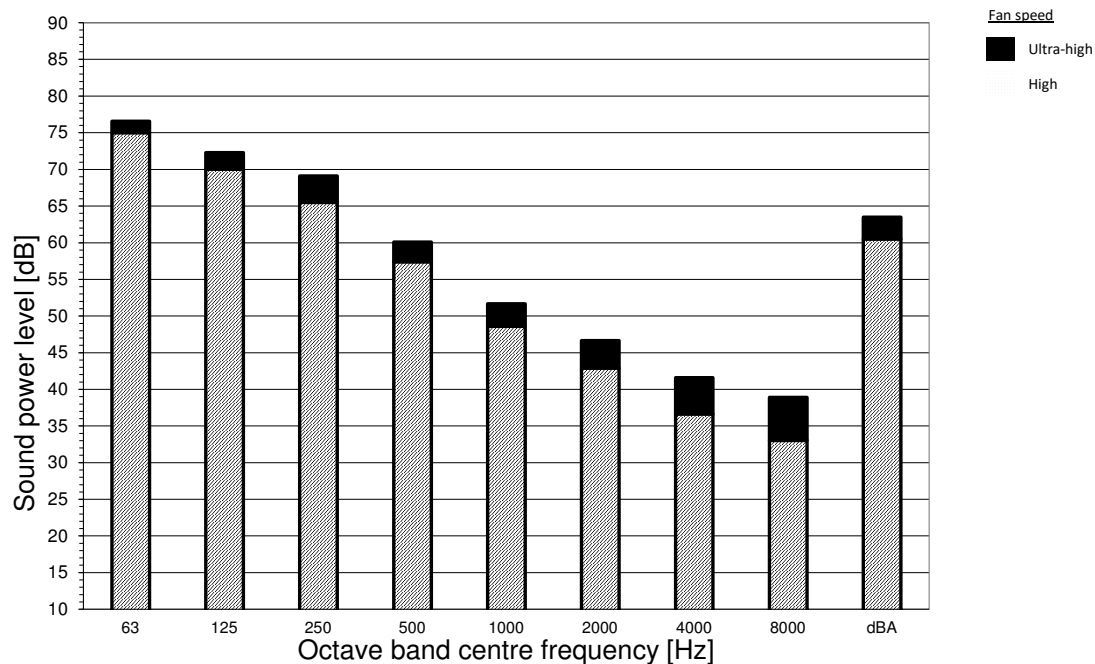
Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744
- Data is valid when connected to the VAM2000.

3D138248

EKVDX100A/VAM2000J8

Heating mode



Notes

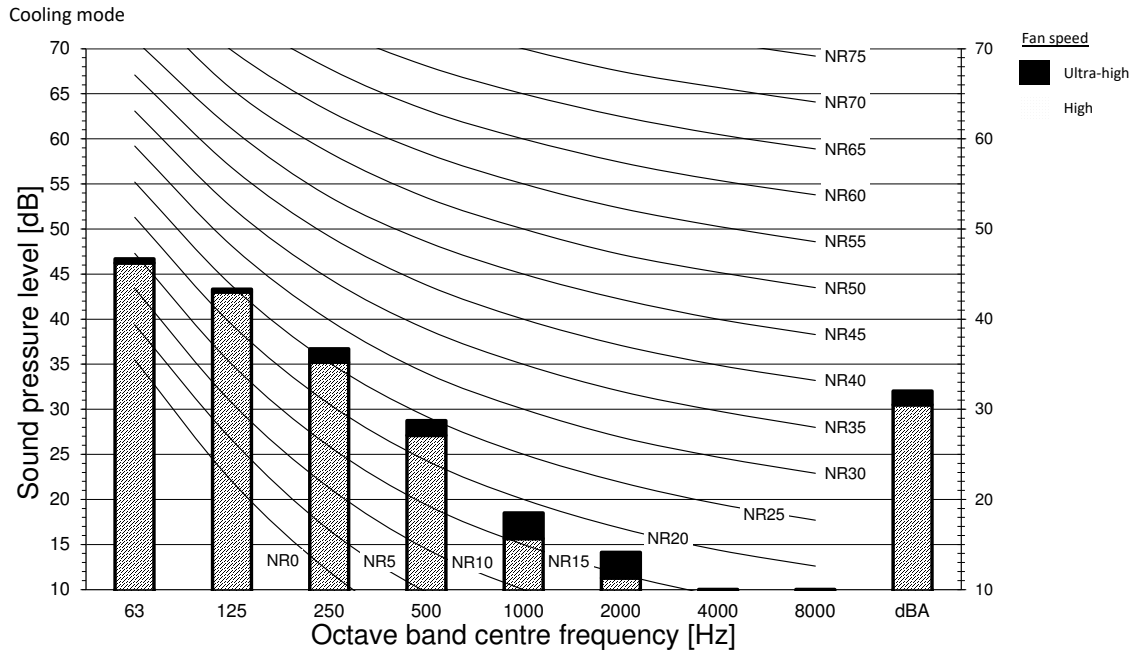
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744
- Data is valid when connected to the VAM2000.

3D138254

13 Sound data

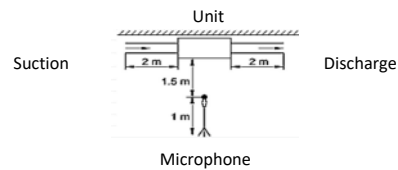
13 - 2 Sound Pressure Spectrum

EKVDX32A



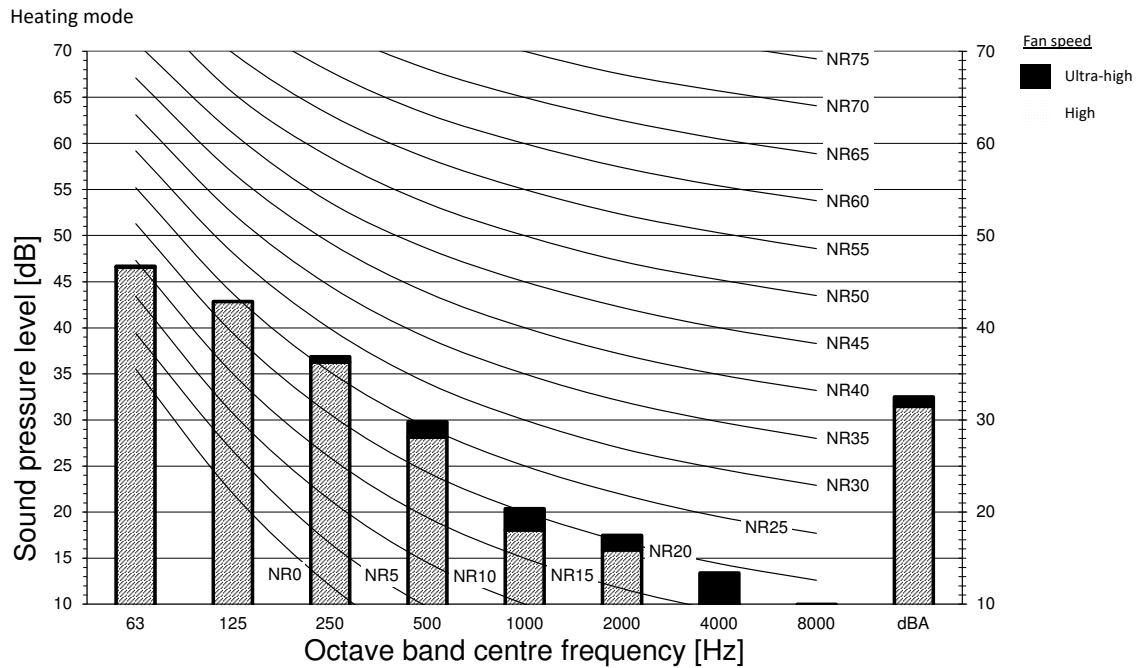
Notes

- 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
- Data is valid when connected to the VAM500.



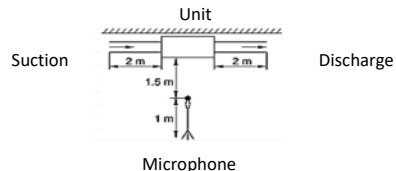
3D138208

EKVDX32A



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
- Data is valid when connected to the VAM500.

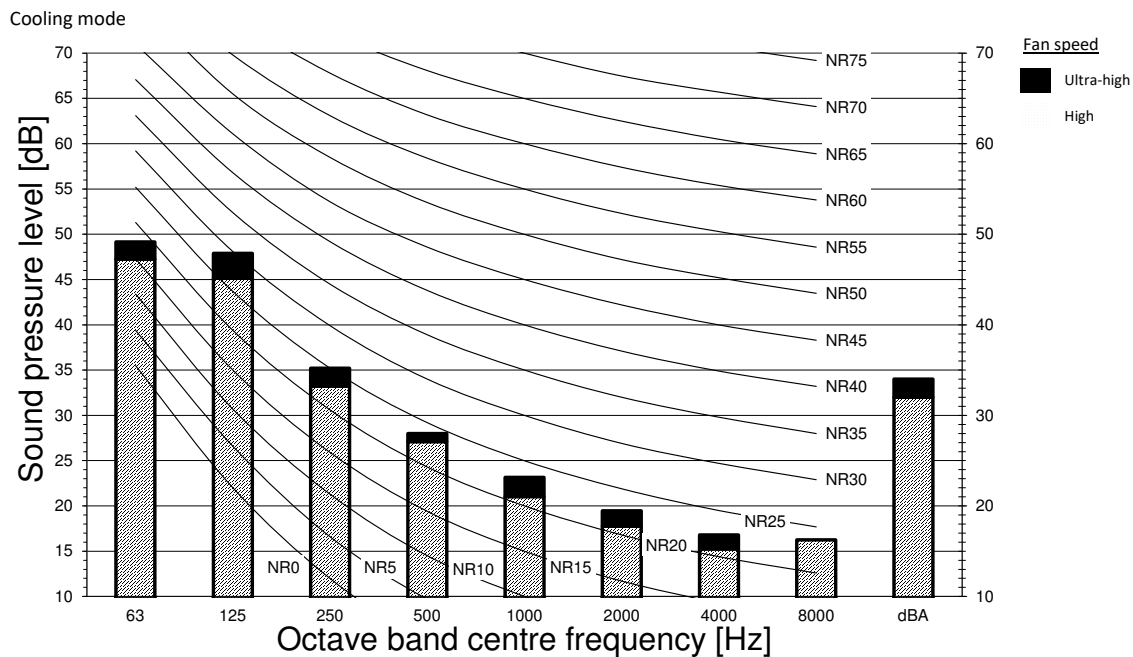


3D138255

13 Sound data

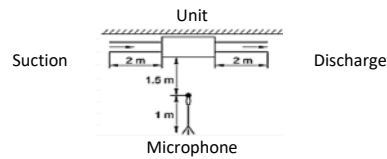
13 - 2 Sound Pressure Spectrum

EKVDX50A/VAM650J8



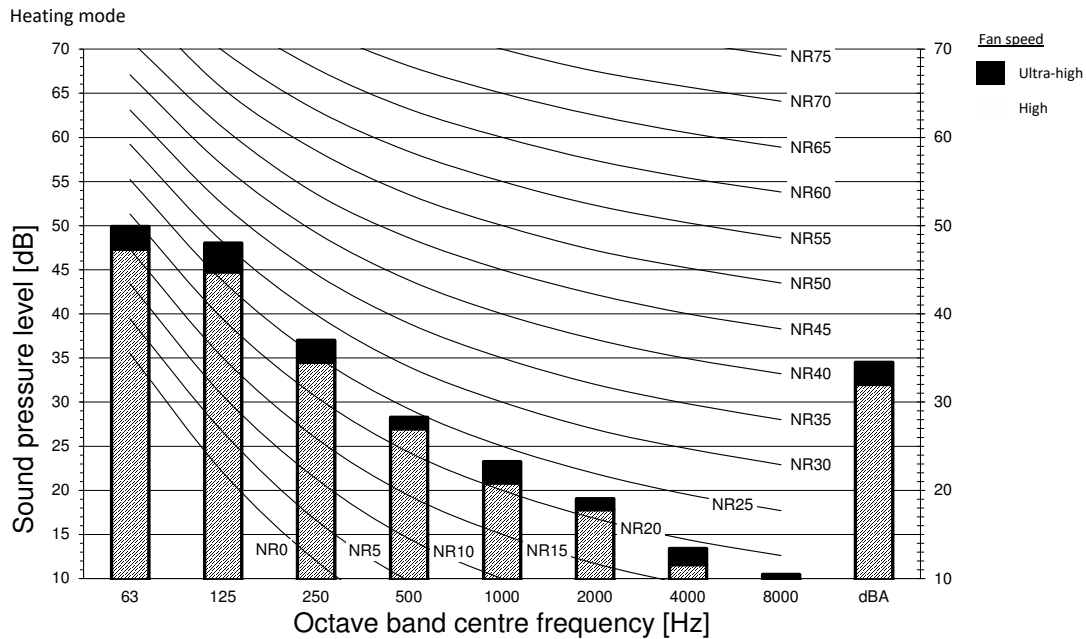
Notes

- 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
- Data is valid when connected to the VAM650.



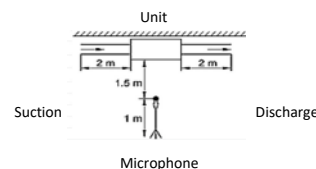
3D138209

EKVDX50A/VAM650J8



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
- Data is valid when connected to the VAM650.

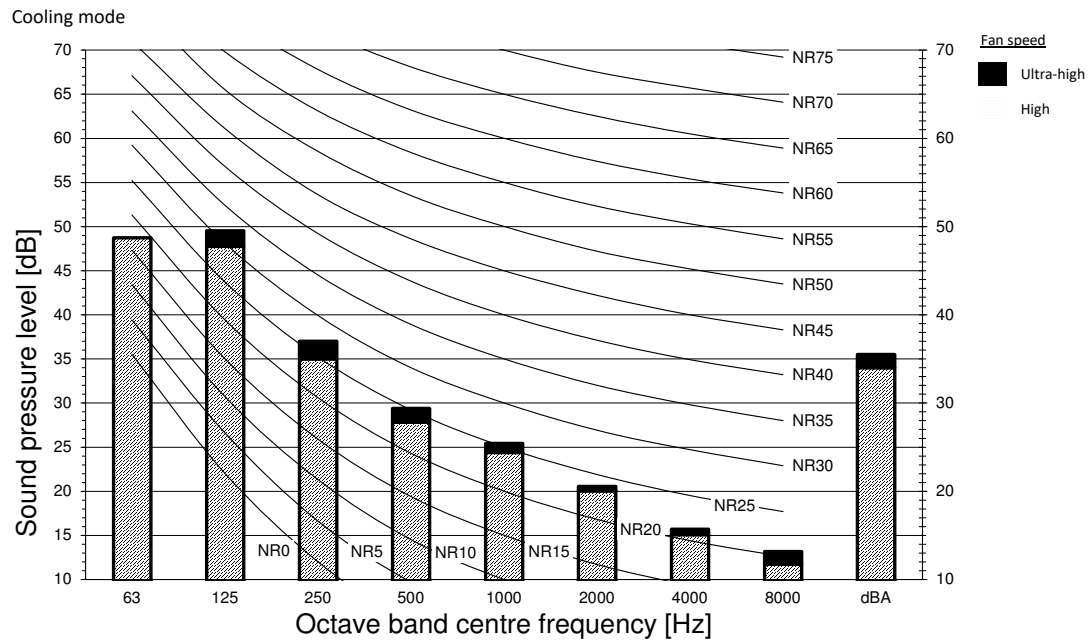


3D138256

13 Sound data

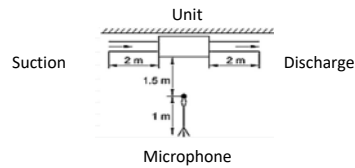
13 - 2 Sound Pressure Spectrum

EKVDX50A/VAM800J8



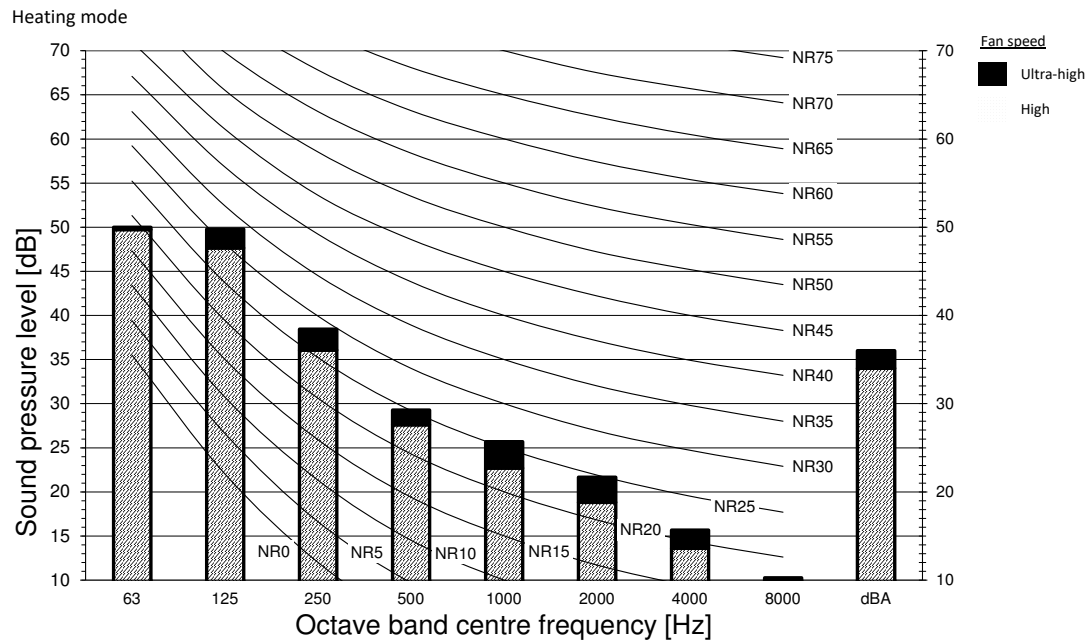
Notes

- 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
- Data is valid when connected to the VAM800.



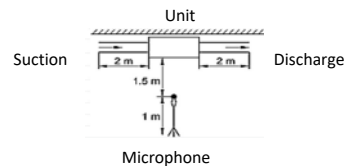
3D138257

EKVDX50A/VAM800J8



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
- Data is valid when connected to the VAM800.

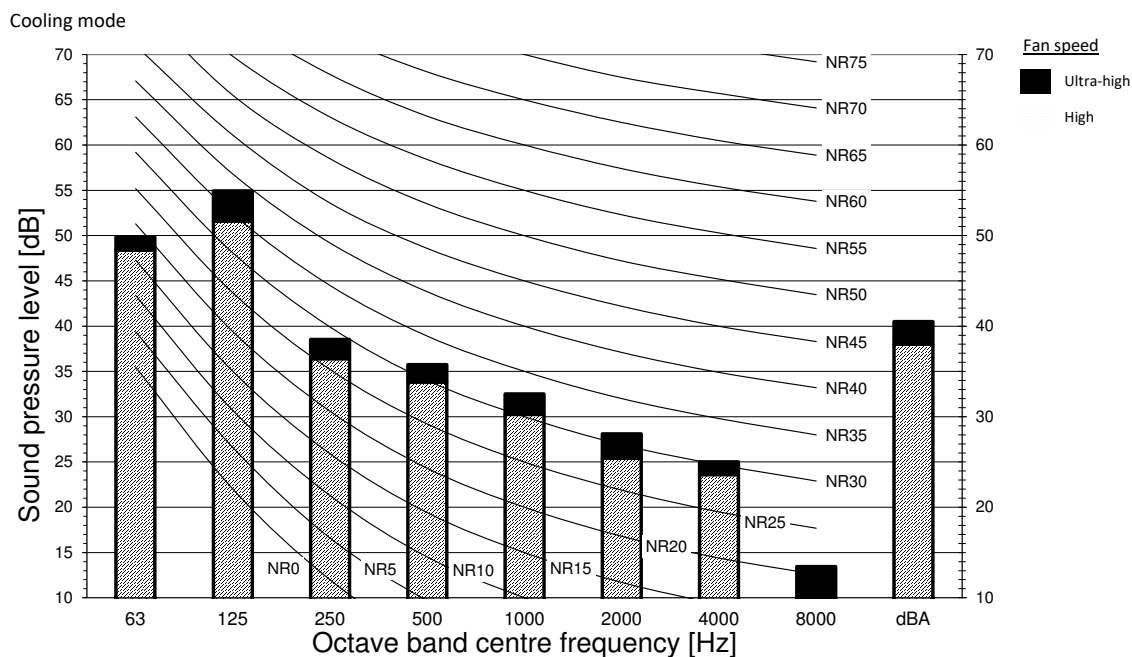


3D138258

13 Sound data

13 - 2 Sound Pressure Spectrum

EKVDX80A

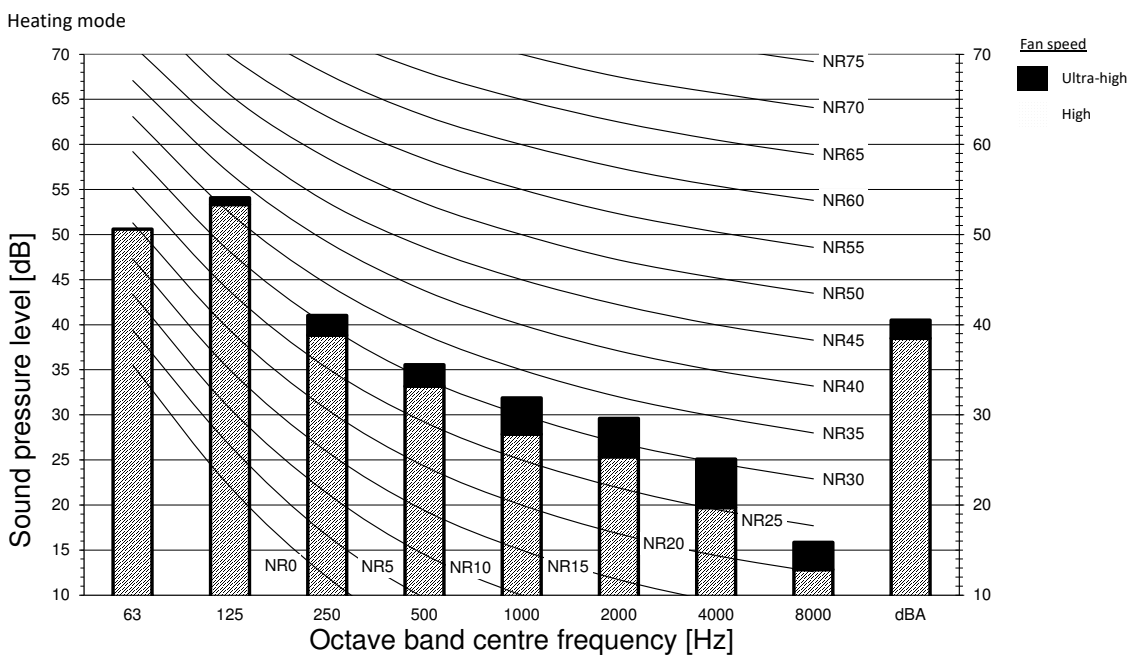


Notes

- 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
- Data is valid when connected to the ·VAM1000·

3D138210

EKVDX80A/VAM1000J8



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
- Data is valid when connected to the ·VAM1000·

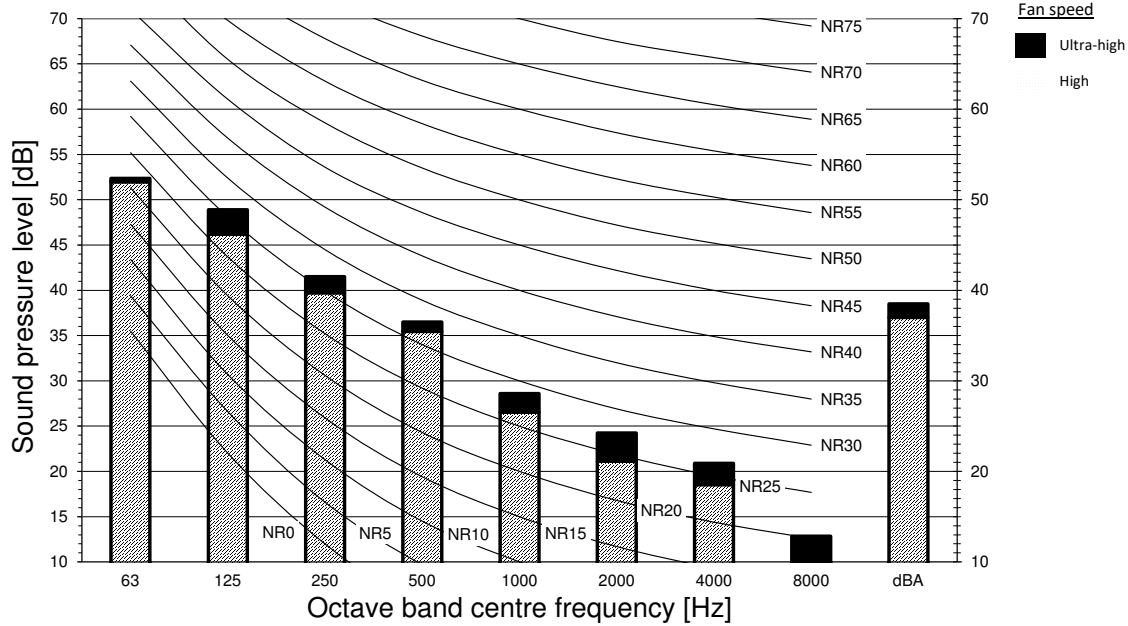
3D138259

13 Sound data

13 - 2 Sound Pressure Spectrum

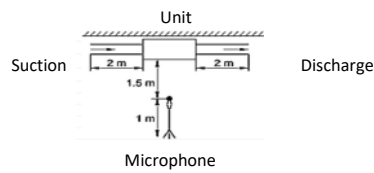
EKVDX100A/VAM1500J8

Cooling mode



Notes

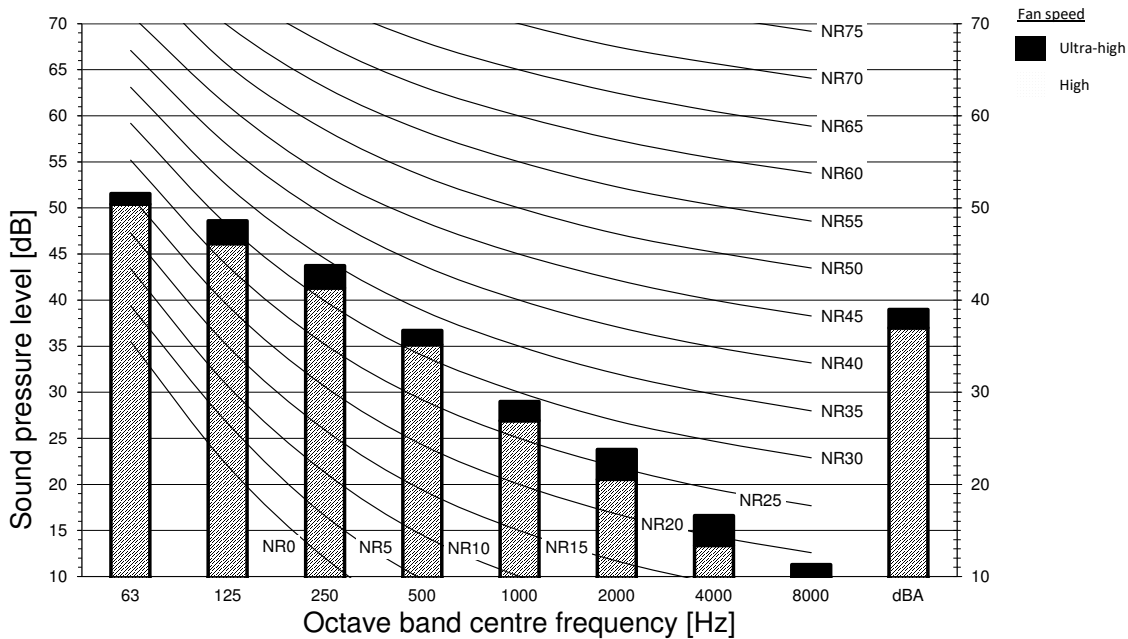
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa
- Data is valid when connected to the -VAM1500-



3D138211

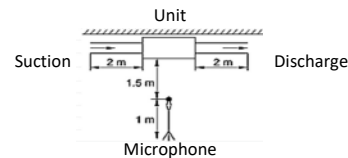
EKVDX100A/VAM1500J8

Heating mode



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
- Data is valid when connected to the -VAM1500-

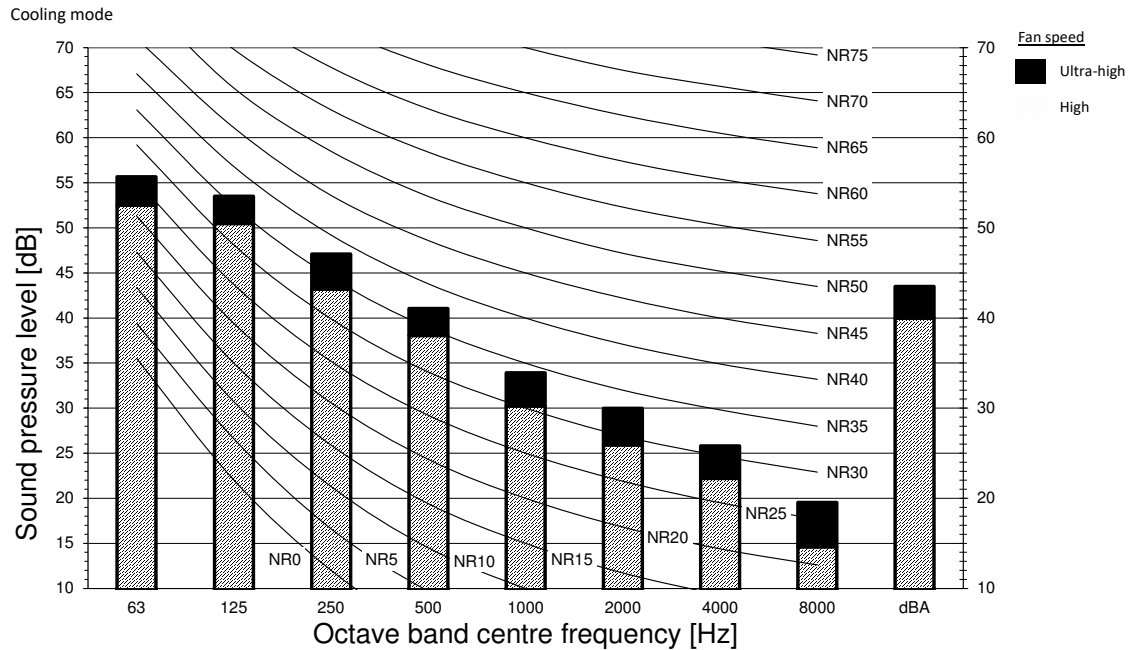


3D138260

13 Sound data

13 - 2 Sound Pressure Spectrum

EKVDX100A/VAM2000J8

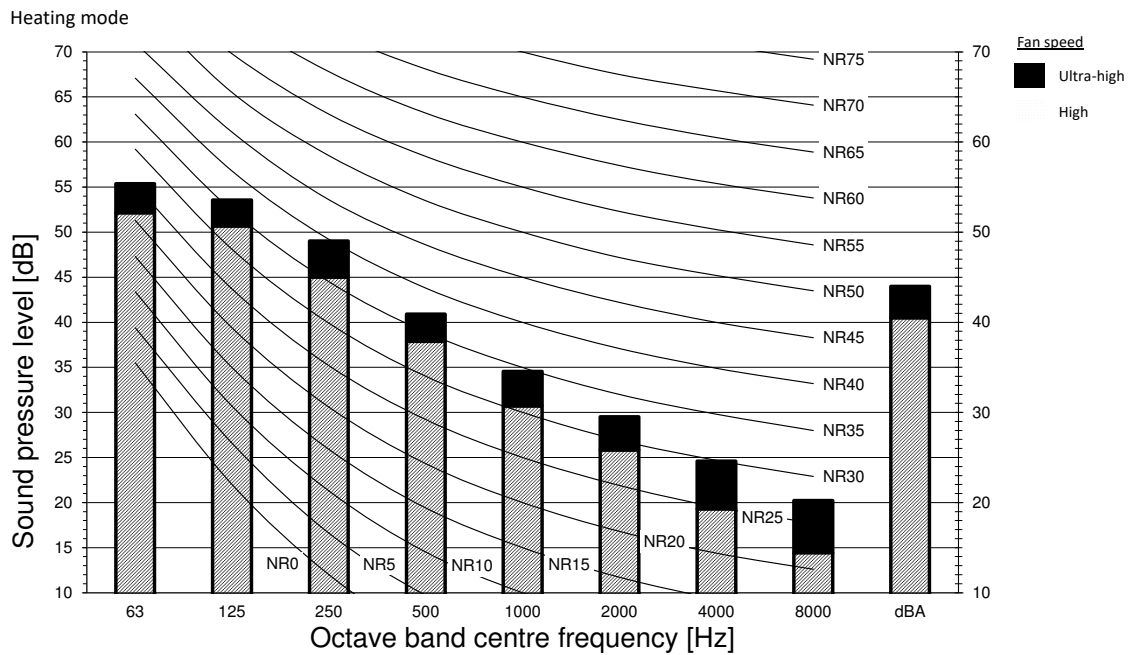


Notes

- 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
- Data is valid when connected to the -VAM2000-

3D138261

EKVDX100A/VAM2000J8



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
- Data is valid when connected to the -VAM2000-

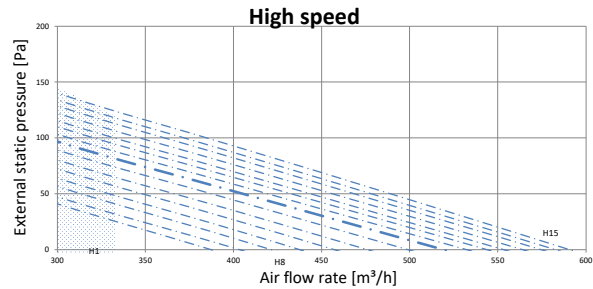
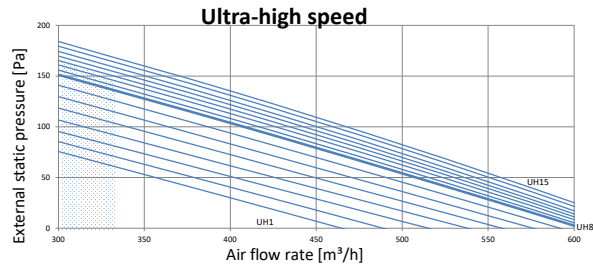
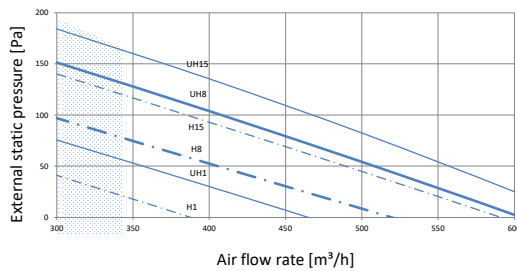
3D138262

14 Fan characteristics

14 - 1 Fan Characteristics

14

EKVDX32A



Legend

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

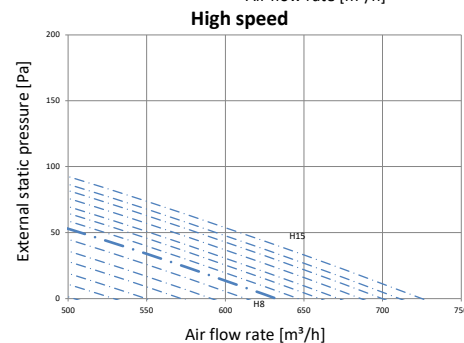
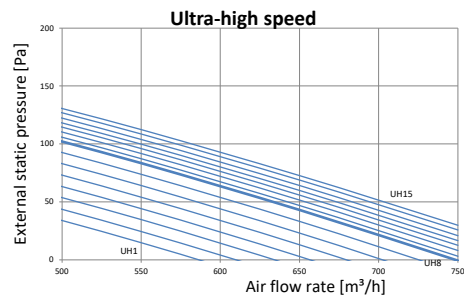
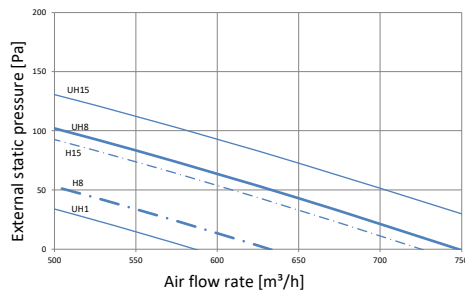
Notes

- The fan curves are determined with $\cdot 1/3 \cdot$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3 \cdot$ of the ESP on the indoor side (-RA & SA-).
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
- The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the -VAM- airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
- Unit operation with R32 refrigerant is possible in the shaded area of the graphs, but the R32 safety alarm will be triggered if the system airflow drops within this area during operation. No selection in this area is allowed.
- Measured according to -JIS B 8628 - 2003-

- Ultra-high speed
- - - High speed

3D138264

EKDVX50A



Legend

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

Notes

- The fan curves are determined with $\cdot 1/3 \cdot$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3 \cdot$ of the ESP on the indoor side (-RA & SA-).
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
- The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the -VAM- airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
- Measured according to -JIS B 8628 - 2003-

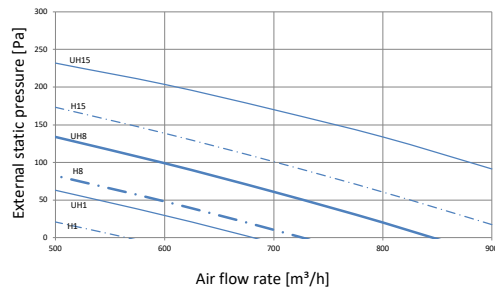
- Ultra-high speed
- - - High speed

3D138265

14 Fan characteristics

14 - 1 Fan Characteristics

EKVDX50A



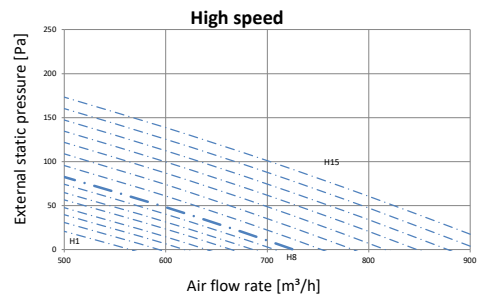
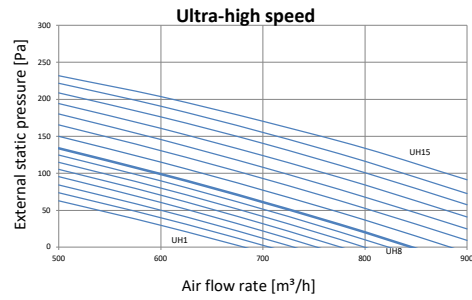
Legend

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

Notes

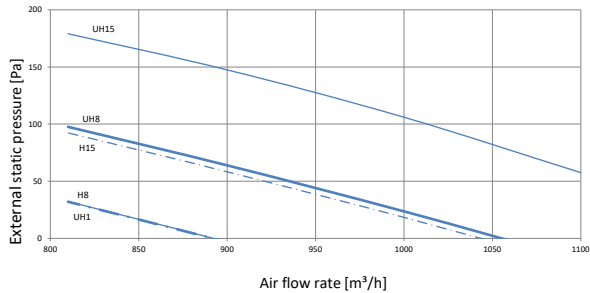
- The fan curves are determined with $\cdot 1/3 \cdot$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3 \cdot$ of the ESP on the indoor side (-RA & SA-).
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
- The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the -VAM- airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
- Measured according to -JIS B 8628 - 2003-

- Ultra-high speed
- - - High speed



3D138266

EKVDX80A



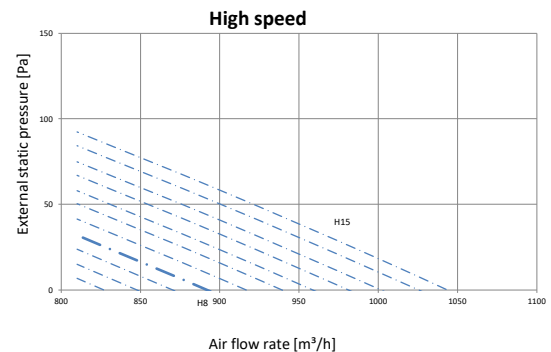
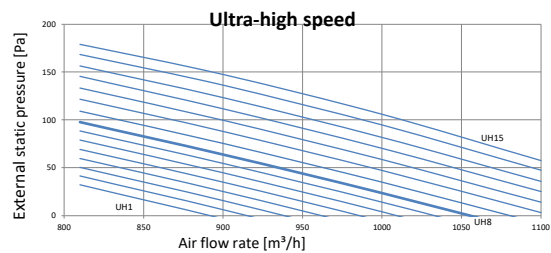
Legend

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

Notes

- The fan curves are determined with $\cdot 1/3 \cdot$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3 \cdot$ of the ESP on the indoor side (-RA & SA-).
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
- The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the -VAM- airflow is out of this range, the compressor of the outdoor unit may stop fo
- Measured according to -JIS B 8628 - 2003-

- Ultra-high speed
- - - High speed



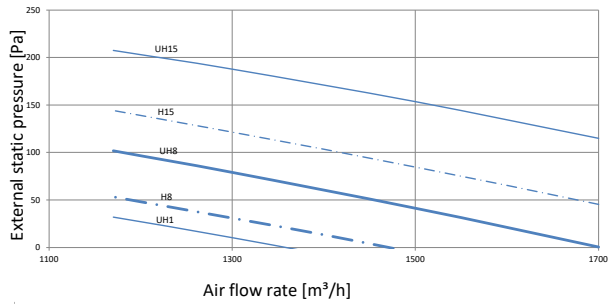
3D138267

14 Fan characteristics

14 - 1 Fan Characteristics

14

EKVDX100A



Legend

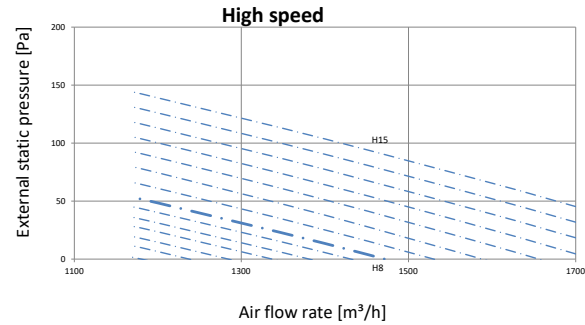
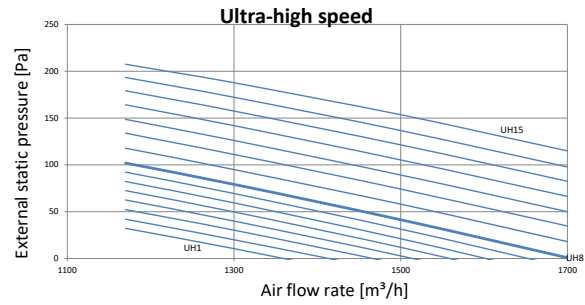
- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

Notes

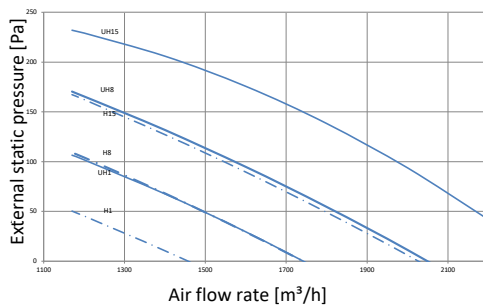
- The fan curves are determined with $\cdot 1/3 \cdot$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3 \cdot$ of the ESP on the indoor side (-RA & SA-).
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
- The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the -VAM- airflow is out of this range, the compressor of the outdoor unit may stop
- Measured according to -JIS B 8628 - 2003-

- Ultra-high speed
- - - High speed

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EKVDX100A



Legend

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

Notes

- The fan curves are determined with $\cdot 1/3 \cdot$ of the ESP on the outdoor side (-EA & OA-), and $\cdot 2/3 \cdot$ of the ESP on the indoor side (-RA & SA-).
EA = Exhaust air
OA = Outdoor air
RA = Room air
SA = Supply air
- The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the -VAM- airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
- Measured according to -JIS B 8628 - 2003-

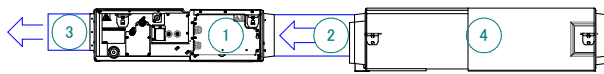
- Ultra-high speed
- - - High speed

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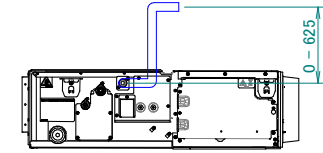
15 Installation

15 - 1 Installation Method

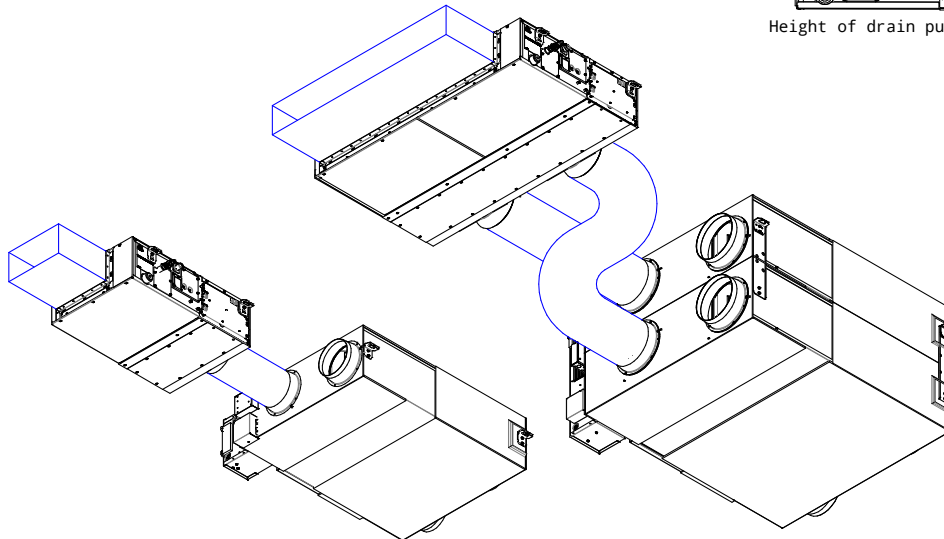
EKVDX-A



Number	Description
①	Indoor unit EKVDX*A2VEB
②	Air inlet duct Field supply
③	Air outlet duct Field supply
④	Indoor unit VAM*J8VEB



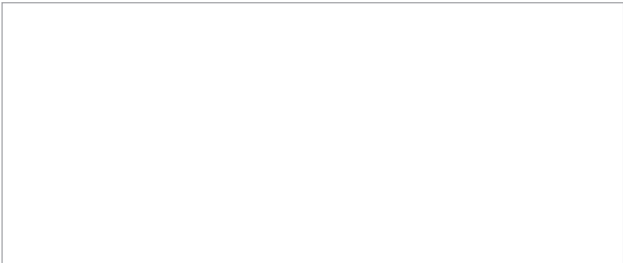
Height of drain pump outlet pipe



Notes

1.For more information, refer to the installation manual.

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