

Air Conditioning  
Technical Data

**SB.RKXYQ-T**



> SB.RKXYQ5T  
> SB.RKXYQ8T



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## SB.RKXYQ-T

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# 1 Features

## The invisible VRV

- Unique VRV heat pump for indoor installation
- Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor
- Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- VRV configurator software for the fastest and most accurate commissioning, configuration and customisation
- Lightweight units (max. 105kg) can be installed by two people
- Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- Small footprint compressor unit (760 x 554 mm) maximizing useable floor space
- Connectable to all VRV control systems
- Keep your system in top condition via our i-Net service: 24/7 monitoring for maximum efficiency, extended lifetime, immediate service support thanks to failure prediction and a clear understanding of operability and usage



Inverter

## 2 Specifications

2-1 Technical Specifications					SB.RKXYQ5T	SB.RKXYQ8T
System	Heat exchanger unit				RDXYQ5T	RDXYQ8T
	Compressor unit				RKXYQ5T	RKXYQ8T
Capacity range				HP	5	8
Cooling capacity	Nom.	35°CDB		kW	14.0 (1)	21.4 (1)
	Heating capacity	Nom.	6°CWB		kW	14.0 (2)
Max.		6°CWB		kW	16.0 (2)	25.0 (2)
Power input - 50Hz	Cooling	Nom.	35°CDB	kW	4.38 (1)	7.64 (1)
		Heating	Nom.	6°CWB	kW	3.68 (2)
	Heating	Max.	6°CWB	kW	4.71 (2)	7.60 (2)
		Capacity control Method				Inverter controlled
EER at nom. capacity	35°CDB			kW/kW	3.20 (1)	2.80 (1)
COP at nom. capacity	6°CWB			kW/kW	3.80 (2)	3.60 (2)
COP at max. capacity	6°CWB			kW/kW	3.40 (2)	3.29 (2)
Maximum number of connectable indoor units					10 (3)	17 (3)
Indoor index connection	Min.				62.5	100
	Nom.				-	200
	Max.				162.5	260
Fan	External static pressure		Max.	Pa	150	
			Nom.	Pa	60	
Piping connections	Between Compressor module (CM) and heat exchanger module (HM)	Liquid	Type		Braze connection	
			OD	mm	12.7	
		Gas	Type		Braze connection	
			OD	mm	19.1	22.2
		Piping length	Max.	m	-	30.0
		Level difference	CM below HM	m	-	10.0
	CM above HM		m	-	10.0	
	Between Compressor module (CM) and indoor units (IU)	Liquid	Type		Braze connection	
			OD	mm	9.5	9.52
		Gas	Type		Braze connection	
			OD	mm	15.9	19.1
		Level difference	CM below IU	m	-	30.0
			CM above IU	m	-	30.0
	Liquid	OD	mm	-		
	Total piping length	System	Actual	m	140 (4)	300 (5)
Level difference	IU - IU	Max.	m	-	15	
Heat insulation				Both liquid and gas pipes		-
Defrost method				Reversed cycle		

Standard Accessories : Installation and operation manual;

Standard Accessories : Drain hose;

2-2 Electrical Specifications					SB.RKXYQ5T	SB.RKXYQ8T
Current - 50Hz	Zmax		List	No requirements		
	Minimum Ssc value		kVa	-	3,329 (6)	
Wiring connections - 50Hz	For connection with indoor		Quantity	2	-	
			Remark	F1,F2	-	
Power supply intake			Bottom		-	

## 2 Specifications

### Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series. Nominal air flow rate, ESP 30 Pa.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series. Nominal air flow rate, ESP 30 Pa.

(3) Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being;  $50\% \leq CR \leq 130\%$ ).

(4) Refer to refrigerant pipe selection or installation manual

(5) Sound values are measured in a semi-anechoic room.

(6) For detailed contents of standard accessories, see installation/operation manual

Sound power level is an absolute value that a sound generates. Nominal air flow rate, ESP 60 Pa.

Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings. Nominal air flow rate, ESP 60 Pa.

RLA is based on following conditions: COOLING indoor temperature: 27°CDB / 19°CWB, outdoor temperature: 35°CDB. Nominal air flow rate, ESP 30 Pa.

MSC means the maximum current during start up of the compressor. VRV IV uses only inverter compressors. Starting current is always  $\leq$  max. running current.

MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current.

MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

TOCA means the total value of each OC set.

FLA means the nominal running current of the fan

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

Maximum allowable voltage range variation between phases is 2%.

Contains fluorinated greenhouse gases

The sound power level is an absolute value indicating the power which a sound source generates.

In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with  $S_{sc} \geq$  minimum  $S_{sc}$  value

2-3 Technical Specifications				RKXYQ5T	RDXYQ5T	RDXYQ8T	RKXYQ8T	
Dimensions	Unit	Height	mm	701	397		701	
		Width	mm	600	1,456		760	
		Depth	mm	554	1,044		554	
	Packed unit	Height	mm	838	1,245		825	
		Width	mm	720	1,604		875	
		Depth	mm	660	470		660	
	Ducting	Height	mm	-	298		-	
Width		mm	-	1,196		-		
Weight	Unit	kg		77	97	103	105	
	Packed unit	kg		86	117	123	116	
Packing	Material			Carton				
	Weight	kg		2.1	4.9	2.2		
Packing 2	Material			Wood				
	Weight	kg		6.9	14.0	8.5		
Packing 3	Material			Plastic	-	Plastic		
	Weight	kg		0.30	-	0.3		
Casing	Colour			Daikin White	Unpainted		Daikin White	
	Material			Painted galvanized steel plate	Galvanised steel		Painted galvanized steel plate	
Heat exchanger	Fin	Treatment		-	Anti-corrosion treatment (PE)	-		
Compressor	Quantity			1	-		1	
	Type			Hermetically sealed swing inverter compressor	-		G-type scroll compressor	
	Crankcase heater	W		-		33		
Fan	Quantity			-	2	3	-	
	Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	-	55	100	-
	Discharge direction			-	Discharge duct	-		
	Type			-	Centrifugal	-		

## 2 Specifications

2-3 Technical Specifications				RKXYQ5T	RDXYQ5T	RDXYQ8T	RKXYQ8T
Fan motor	Quantity			-	2	3	-
	Output		W	-	500		-
	Model			-	Brushless DC motor		-
Sound power level	Cooling	Nom.	dBA	60	76	81	64
Sound pressure level	Cooling	Nom.	dBA	47		54	48
Refrigerant	Type			R-410A			
	GWP			2,087.5	-	-	2,087.5
	Charge		TCO <sub>2</sub> eq	4.2	-	-	8.35
			kg	2	-	-	4.00
Refrigerant oil	Type			Synthetic (ether) oil		Daphne FVC68D	
	Charged volume		l	1.75	-		
Piping connections	Drain	OD	mm	-	32		-

2-4 Electrical Specifications				RKXYQ5T	RDXYQ5T	RDXYQ8T	RKXYQ8T	
Power supply	Name			Y1	V1		Y1	
	Phase			3N~	1N~		3N~	
	Frequency		Hz	50				
	Voltage		V	380-415	220-240		380-415	
Voltage range	Min.		%	-10				
	Max.		%	10				
Current	Nominal running current (RLA) - 50Hz	Cooling	A	5.8	1.8	4.6	8.6	
Current - 50Hz	Minimum circuit amps (MCA)		A	13.5	4.6	7.0	17.4	
	Maximum fuse amps (MFA)		A	16	10		20	
	Total overcurrent amps (TOCA)		A	13.5	4.6	7.0	17.4	
	Full load amps (FLA)	Total		A	-		6.6	-
		Fan motor		A	-	2.2	-	
Fan motor 2		A	-	2.2	-			
Wiring connections - 50Hz	For power supply	Quantity		5G	3G		5G	
	For connection with indoor	Quantity		-			2	
		Remark		-			F1,F2	

# 3 Options

## 3 - 1 Options

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SB.RKXYQ-T

VRV4-i  
Heat pump  
Option list

Nr.	Item	SB.RKXYQST		SB.RKXYQBT	
		Heat exchanger unit	Compressor unit	Heat exchanger unit	Compressor unit
1.	Refrnet header				
1L	Refrnet point	KHR022M29H		KHR022M29H	
1R	Refrnet point	KHR022M20T		KHR022M20T	
1a	Cool/heat selector (switch)	-	KRC19-26	-	KRC19-26
1b	Cool/heat selector (flange box)	-	FJ8111A	-	FJ8111A
1c	Cool/heat selector (cable)	-	EXPCSC	-	EXPCSC
1d	Cool/heat selector (PCB)	-	-	-	BRPCAB1
1e	VRV configurator	-	EXPCAB*	-	EXPCAB*
1s	Demand PCB		DTA10A61/62*		DTA10A61/62*
1t	Drain pan heater	EXDPH18DX		EXDPH18DX	

**Notes**

- All options are kits.
- To mount option 1a, option 1b is required.
- VRV4-i (BPH) To operate the cool/heat selector function, options 1a and 1c are both required.  
VRV4-i (BPF) To operate the cool/heat selector function, options 1a and 1d are both required.
- If the outdoor temperature can drop below -7°C for more than 24 hours, it is recommended to install drain pan heater kit EXDPH18DX.

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# 4 Combination table

## 4 - 1 Combination Table

SB.RKXYQ-T

**VRV4-i**

**Heat pump**

**Indoor unit combination restrictions**

System pattern	Capacity [%]	DX [%]	AHU [%]	FXMQ*MF [%]
VRV DX indoor unit	50 - 130	50 - 130	-	-
RA indoor unit	-	-	-	-
Hydrobox unit	-	-	-	-
DX + AHU	See note 1.	50 - 110	0 - 60	-
Air handling unit only	See note 1.	90 - 110	90 - 110	-
FXMQ*MF	50 - 100	-	-	50 - 100

AHU: Air handling unit (AHU)

Notes

1. AHU = CYV (biddle) air curtain OR EKEXV + EKEQM

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# 5 Capacity tables

## 5 - 1 Integrated Heating Capacity Correction Factor

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SB.RKXYQ-T

VRV4-i

Heat pump

Integrated heating capacity coefficient

The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation. The capacity values that take these factors into account, or in other words, the integrated heating capacity values, can be calculated as follows:

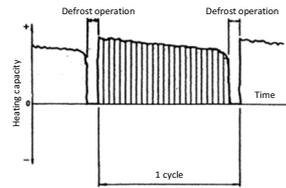
Formula

- A = Integrated heating capacity
- B = Capacity characteristics value
- C = Integrated correction factor for frost accumulation (see table)

$$A = B \cdot C$$

Inlet air temperature of heat exchanger

(°CDB/°CWB)	-7/-7.6	-5/-5.6	-3/-3.7	0/-0.7	3/2.2	5/4.1	7/6
5 HP	0,88	0,86	0,80	0,75	0,76	0,82	1,00
8 HP	0,88	0,86	0,80	0,75	0,76	0,82	1,00



Notes

1. The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).

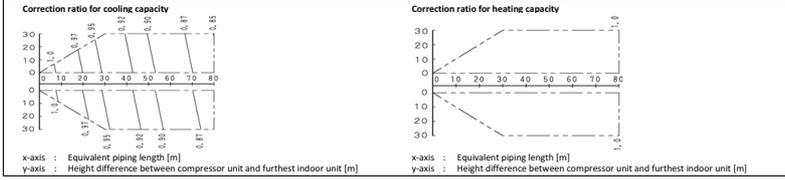
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# 5 Capacity tables

## 5 - 2 Capacity Correction Factor

SB.RKXYQ5T

VRV4-i  
Heat pump



**Notes**

1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.

2. With this VRV4-i system, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control

**Method of calculating the capacity of the outdoor units.**

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity delivered by the compressor unit plus the heat exchanger unit, whichever is less.

**Indoor connection ratio ≤ 100%.**  
Maximum capacity of outdoor units = Capacity from capacity table at 100% connection ratio × Correction ratio of piping to furthest indoor unit

**Indoor connection ratio > 100%.**  
Maximum capacity of outdoor units = Capacity from capacity table at installed connection ratio × Correction ratio of piping to furthest indoor unit

4. If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥ 90 m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit). If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø
5-HP	9.5	Not increased	15.9	19.1

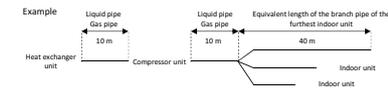
5. Overall equivalent length  
Overall equivalent length = Equivalent length of the main pipe × Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

When calculating the cooling capacity: gas pipe size

When calculating the heating capacity: liquid pipe size

	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.5



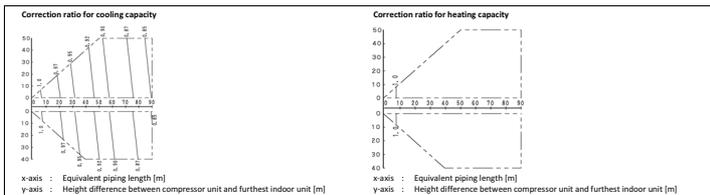
**Overall equivalent length**  
• Cooling mode = 10 m + 10 m x 1 + 40 m = 60 m  
• Heating mode = 10 m + 10 m x 1 + 40 m = 60 m

**Capacity correction ratio (height difference = 0)**  
• Cooling mode = 0.89  
• Heating mode = 1.00

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SB.RKXYQ8T

VRV4-i  
Heat pump



**Notes**

1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.

2. With this VRV4-i system, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control

**Method of calculating the capacity of the outdoor units.**

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity delivered by the compressor unit plus the heat exchanger unit, whichever is less.

**Indoor connection ratio ≤ 100%.**  
Maximum capacity of outdoor units = Capacity from capacity table at 100% connection ratio × Correction ratio of piping to furthest indoor unit

**Indoor connection ratio > 100%.**  
Maximum capacity of outdoor units = Capacity from capacity table at installed connection ratio × Correction ratio of piping to furthest indoor unit

4. If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥ 90 m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit). If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø
8-HP	9.5	12.7	15.1	22.2

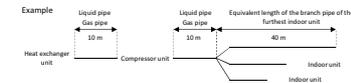
5. Overall equivalent length  
Overall equivalent length = Equivalent length of the main pipe × Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

When calculating the cooling capacity: gas pipe size

When calculating the heating capacity: liquid pipe size

	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.3



**Overall equivalent length**  
• Cooling mode = 10 m + 10 m x 1 + 40 m = 60 m  
• Heating mode = 10 m + 10 m x 1 + 40 m = 60 m

**Capacity correction ratio (height difference = 0)**  
• Cooling mode = 0.89  
• Heating mode = 1.00

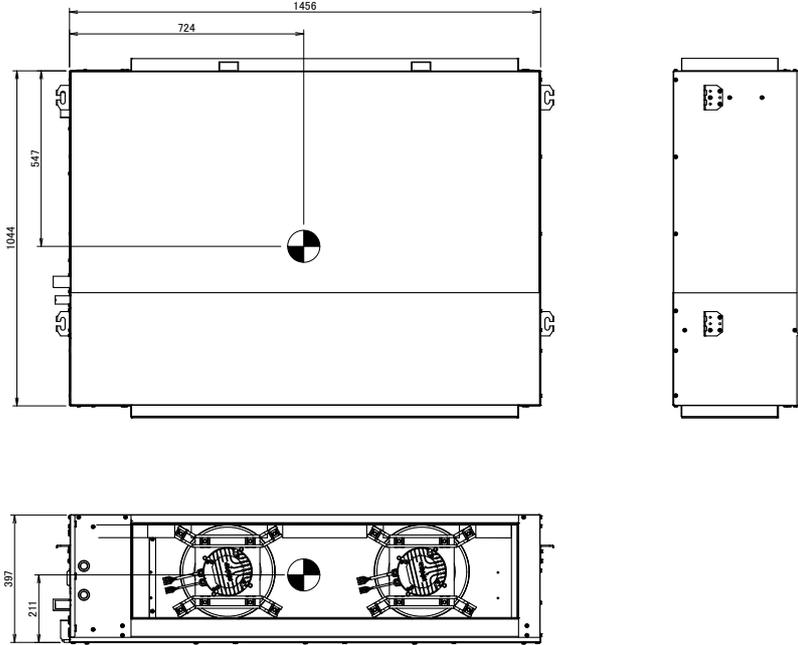
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# 7 Centre of gravity

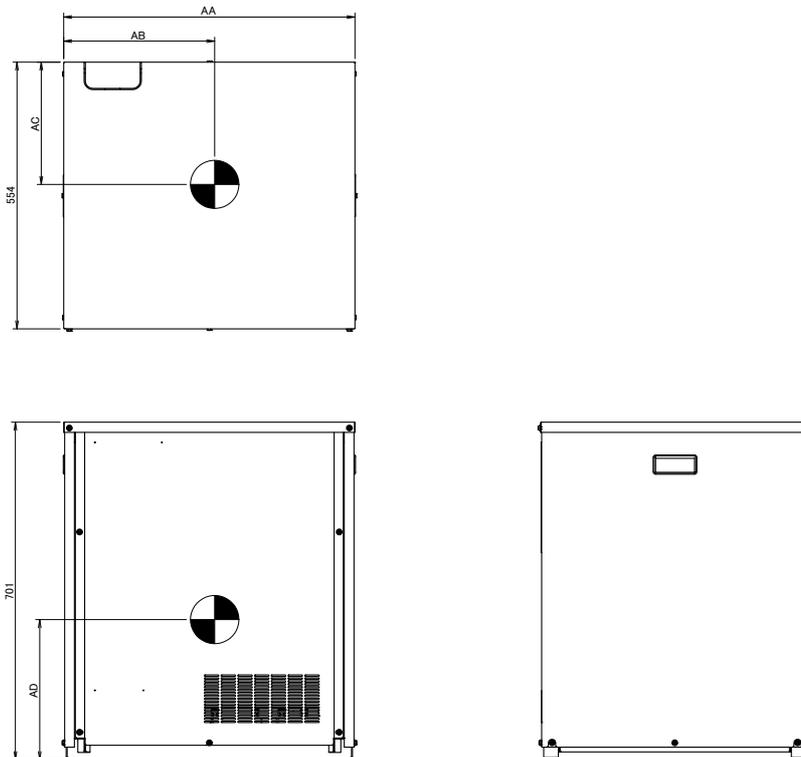
## 7 - 1 Centre of Gravity

RDXYQ5T



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SB.RKXYQ-T



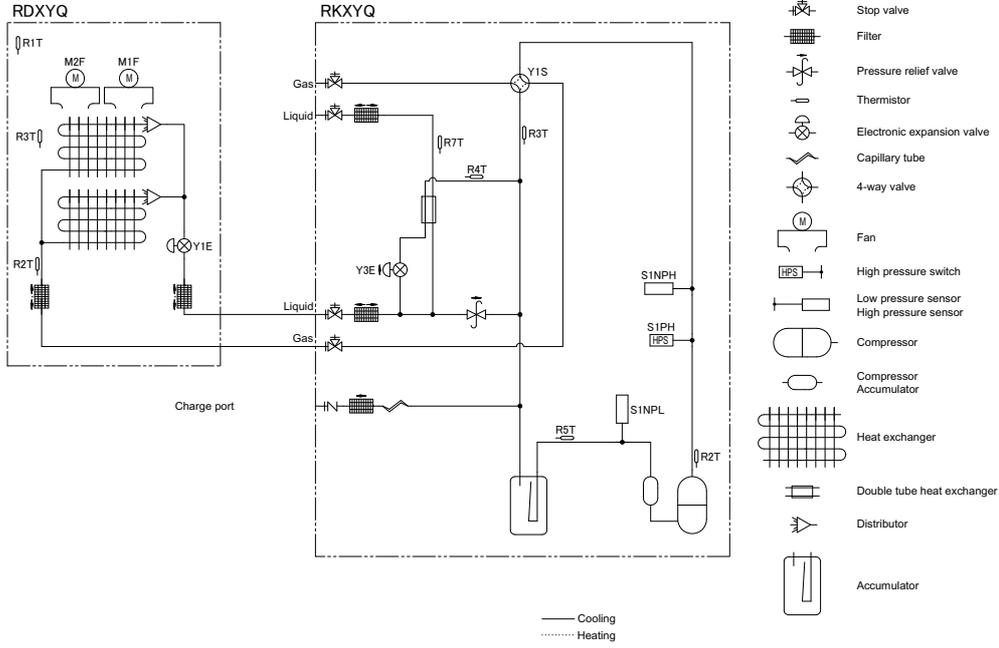
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# 8 Piping diagrams

## 8 - 1 Piping Diagrams

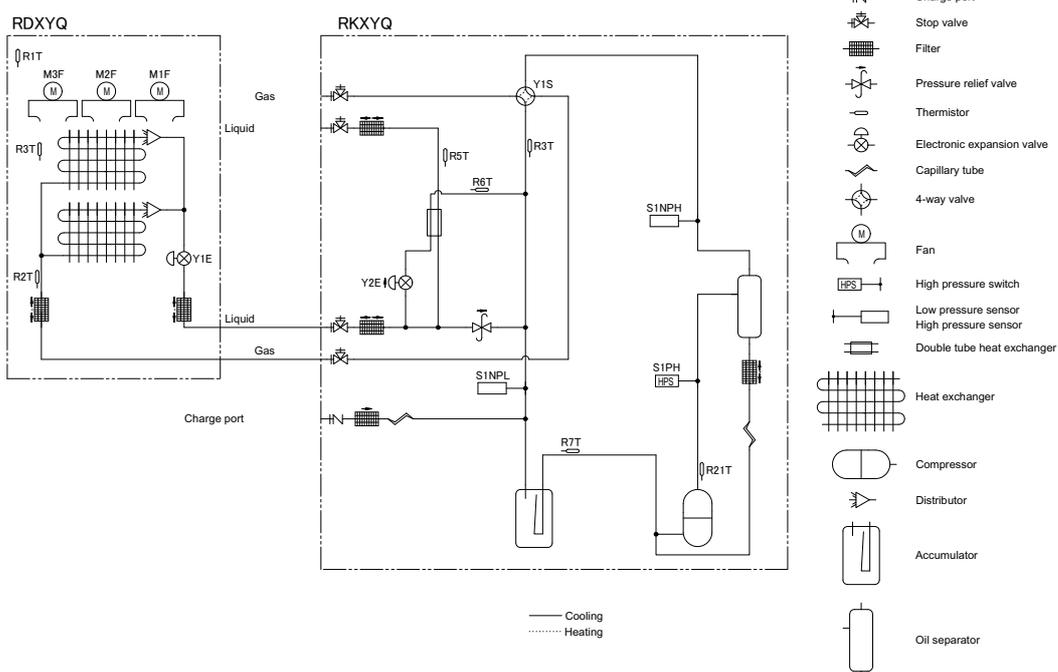
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SB.RKXYQ5T



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SB.RKXYQ8T



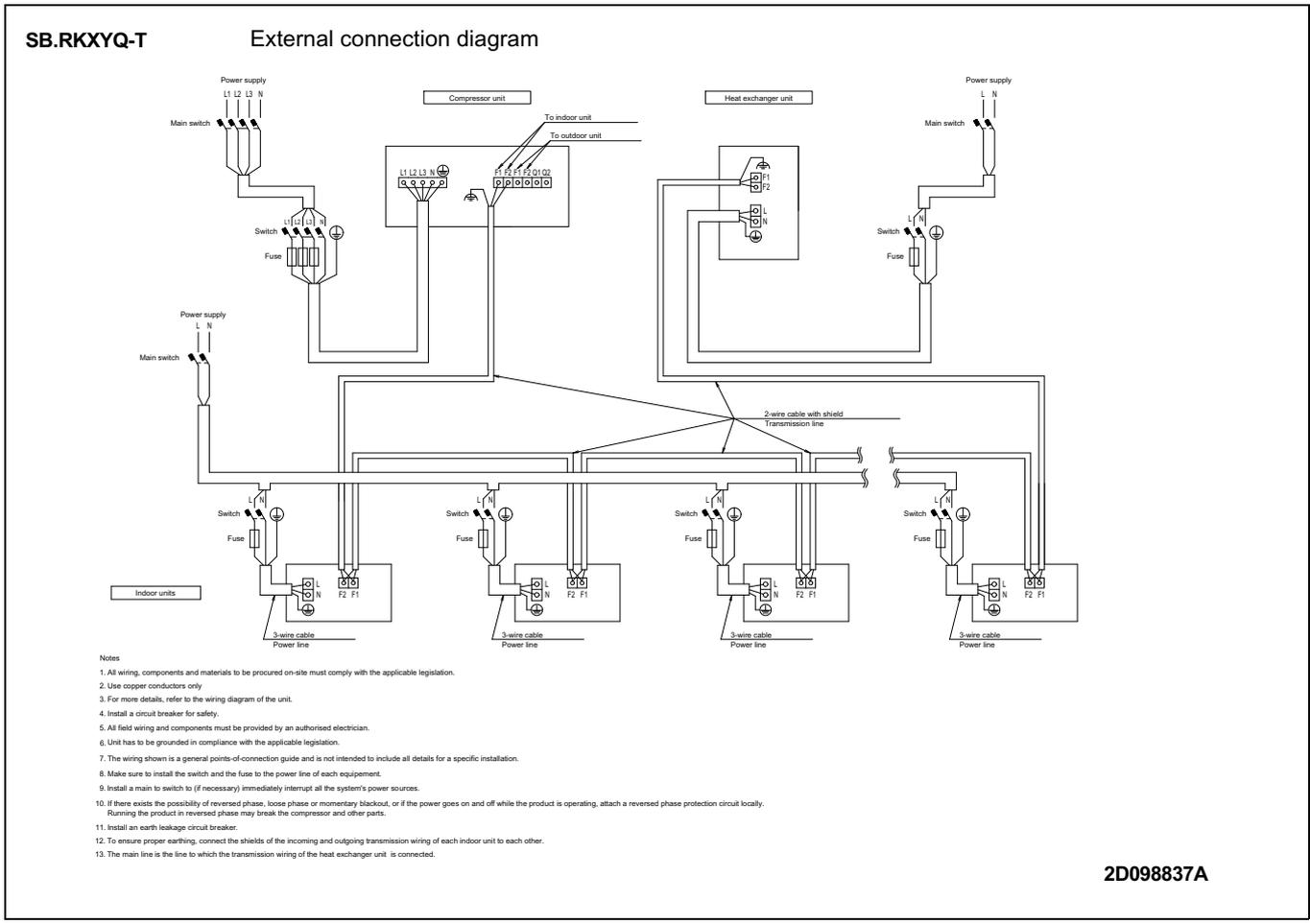
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# 10 External connection diagrams

## 10 - 1 External Connection Diagrams

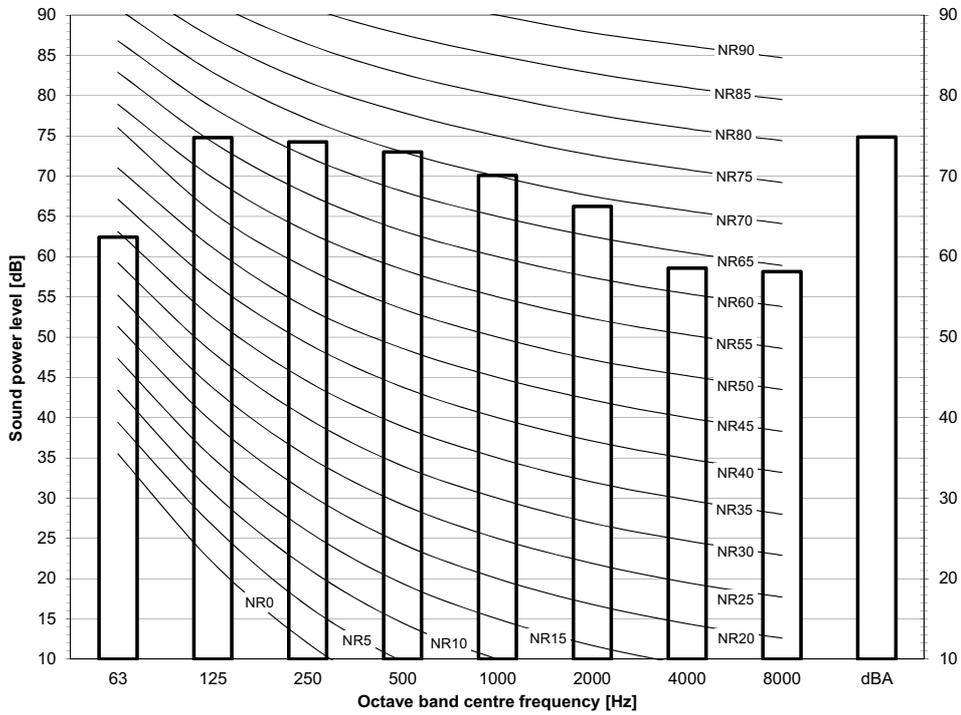


# 11 Sound data

## 11 - 1 Sound Power Spectrum

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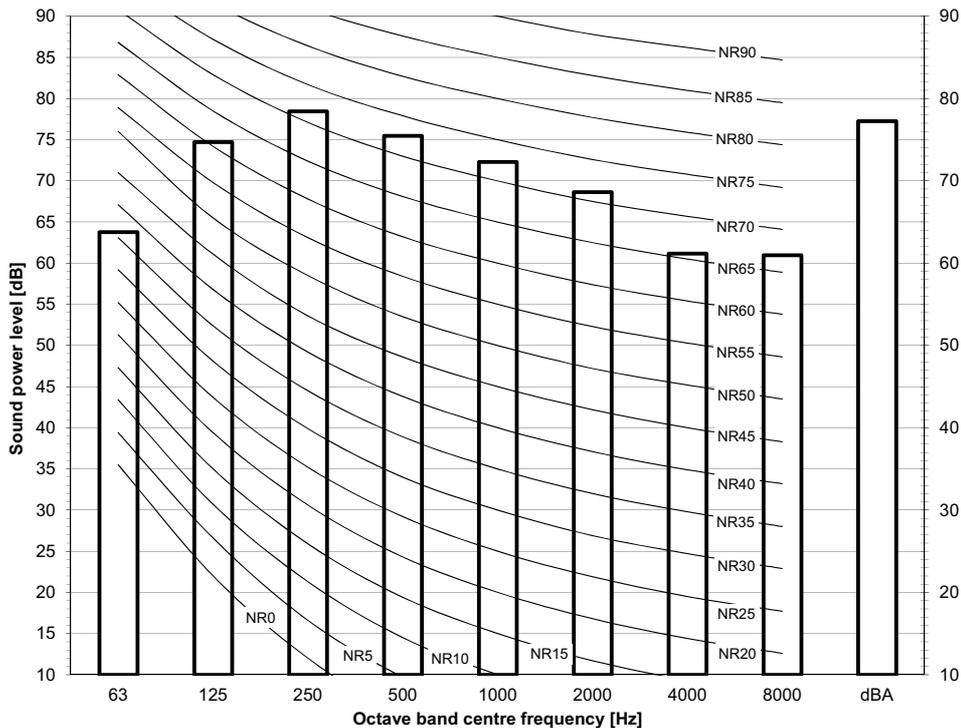
RDXYQ5T



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

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RDXYQ5T



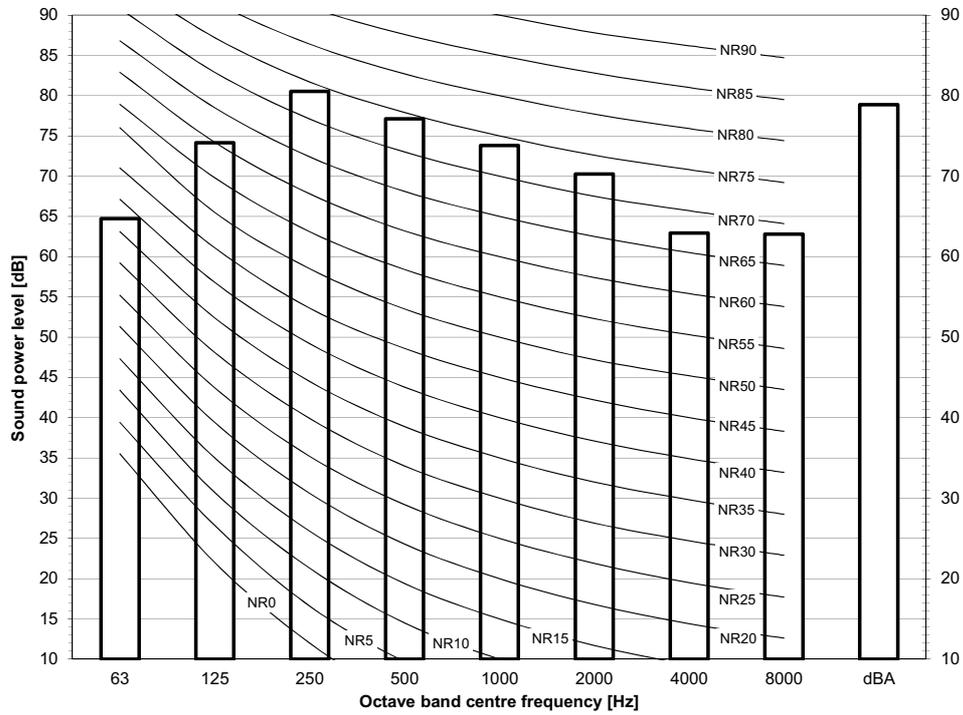
**Notes**  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB =  $10E-6\mu W/m^2$ .  
 - Measured according to ISO 3744

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# 11 Sound data

## 11 - 1 Sound Power Spectrum

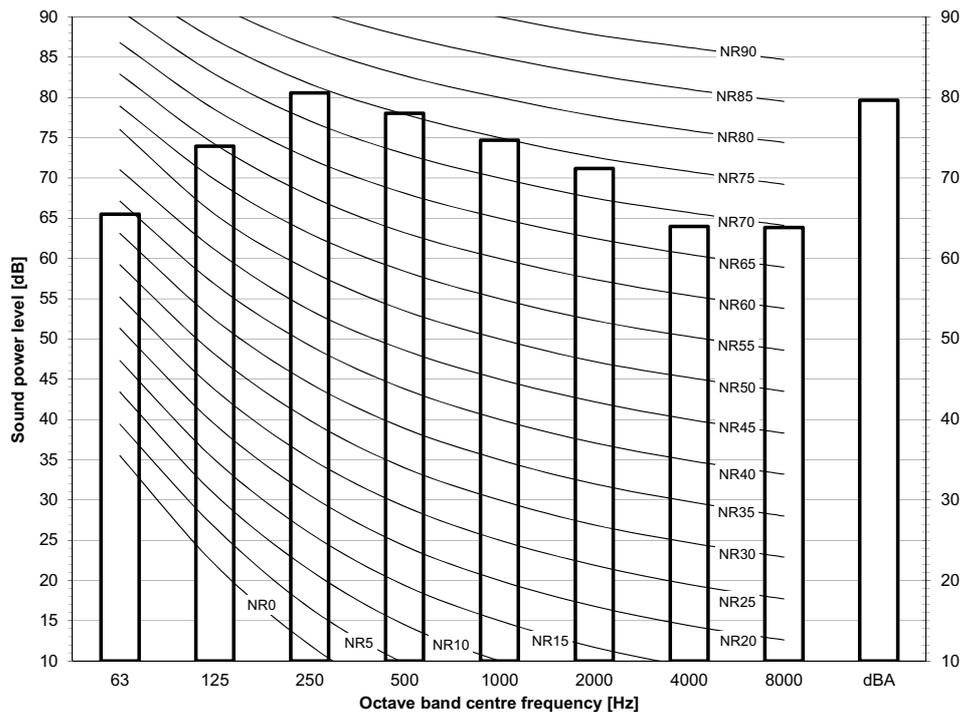
RDXYQ5T



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

3D099604

RDXYQ5T



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

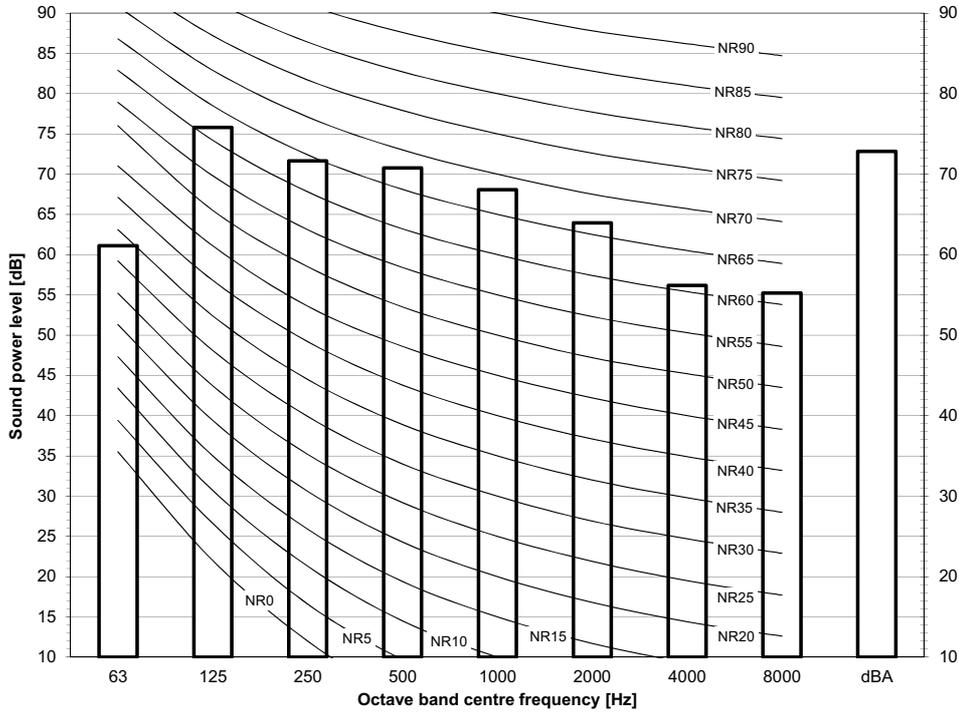
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# 11 Sound data

## 11 - 1 Sound Power Spectrum

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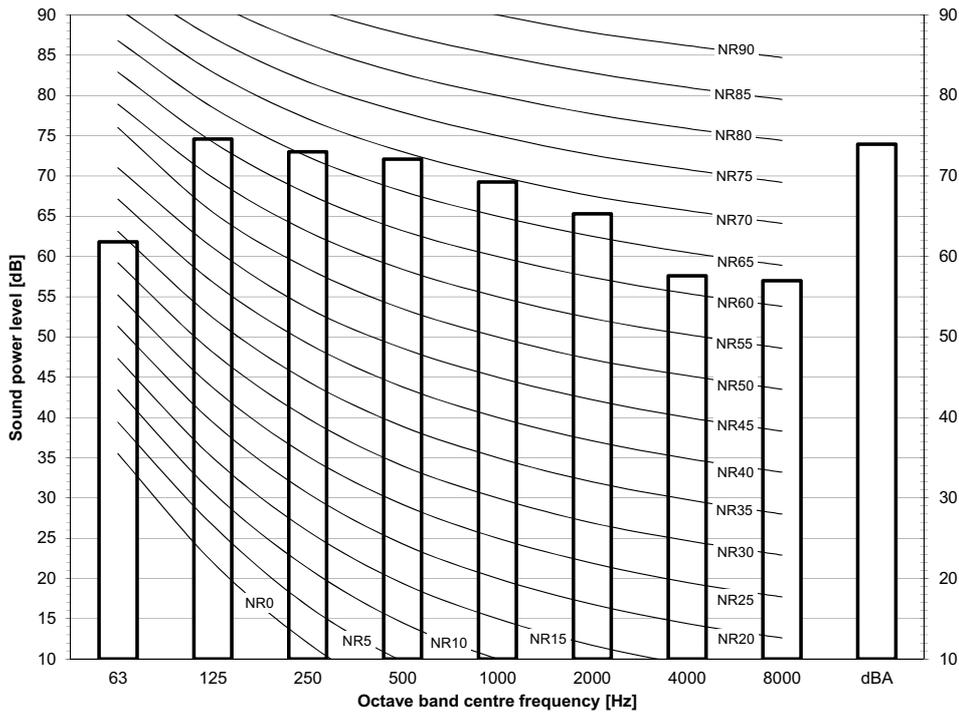
RDXYQ5T



**Notes**  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>  
 - Measured according to ISO 3744

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RDXYQ5T

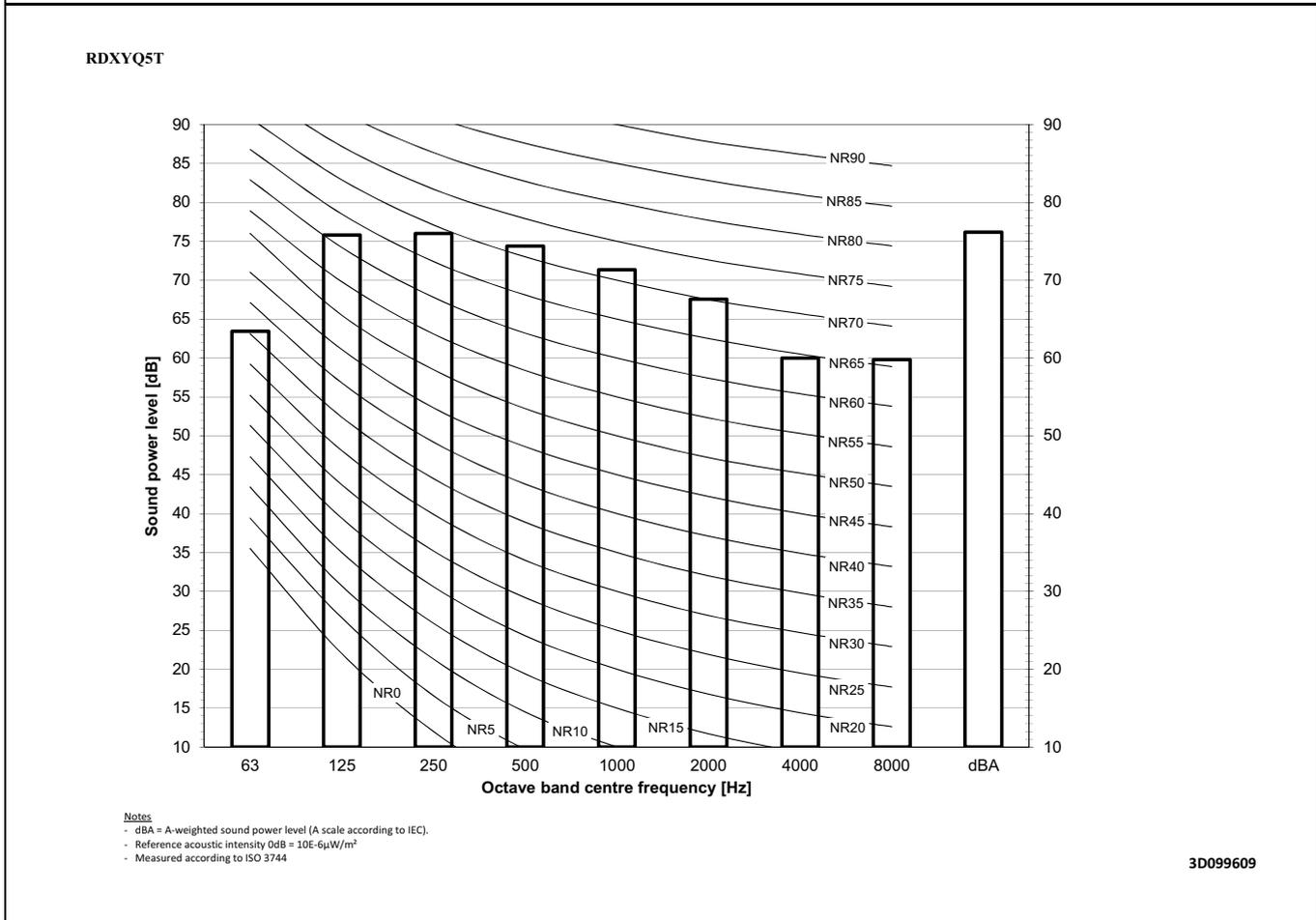
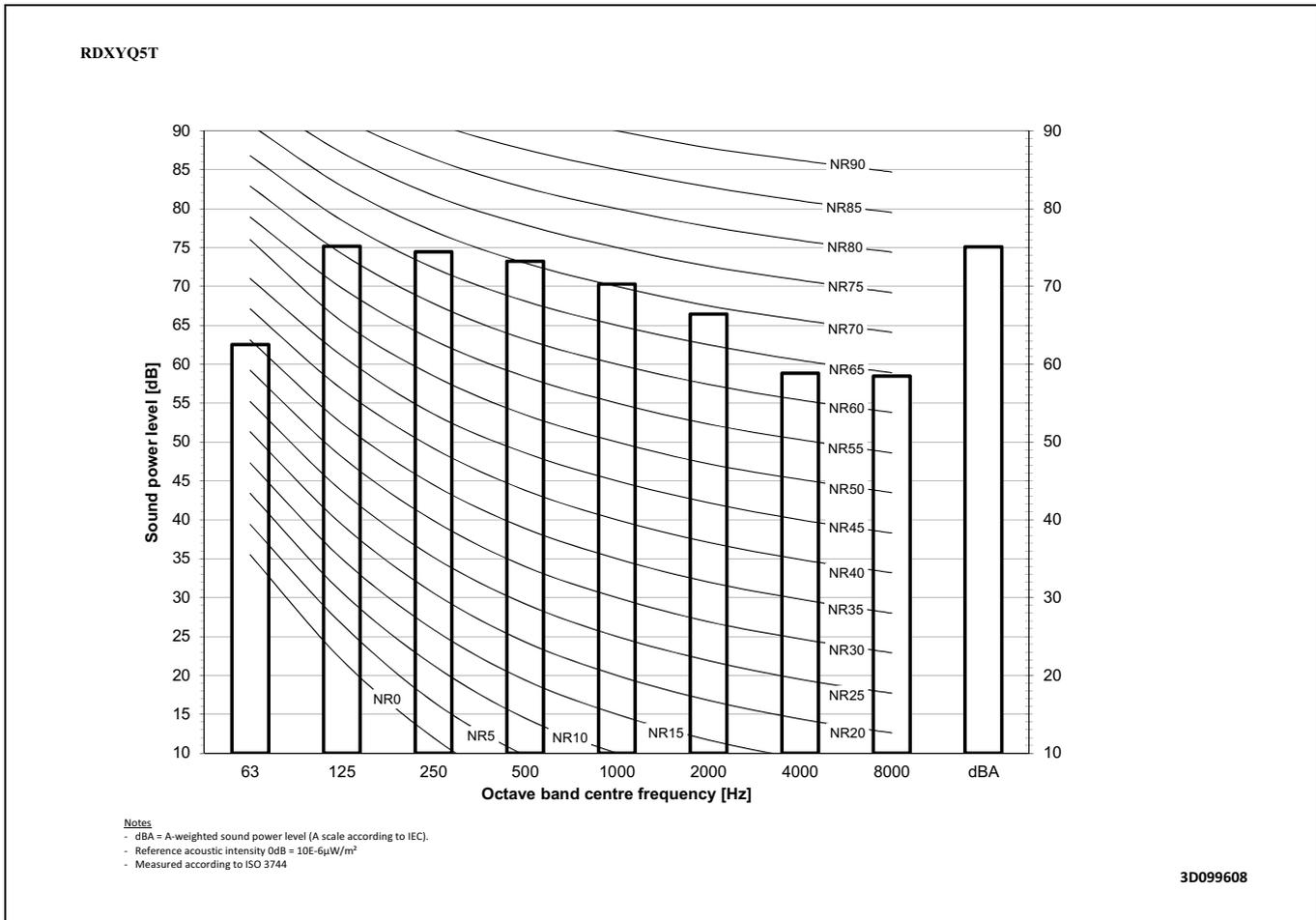


**Notes**  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>  
 - Measured according to ISO 3744

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# 11 Sound data

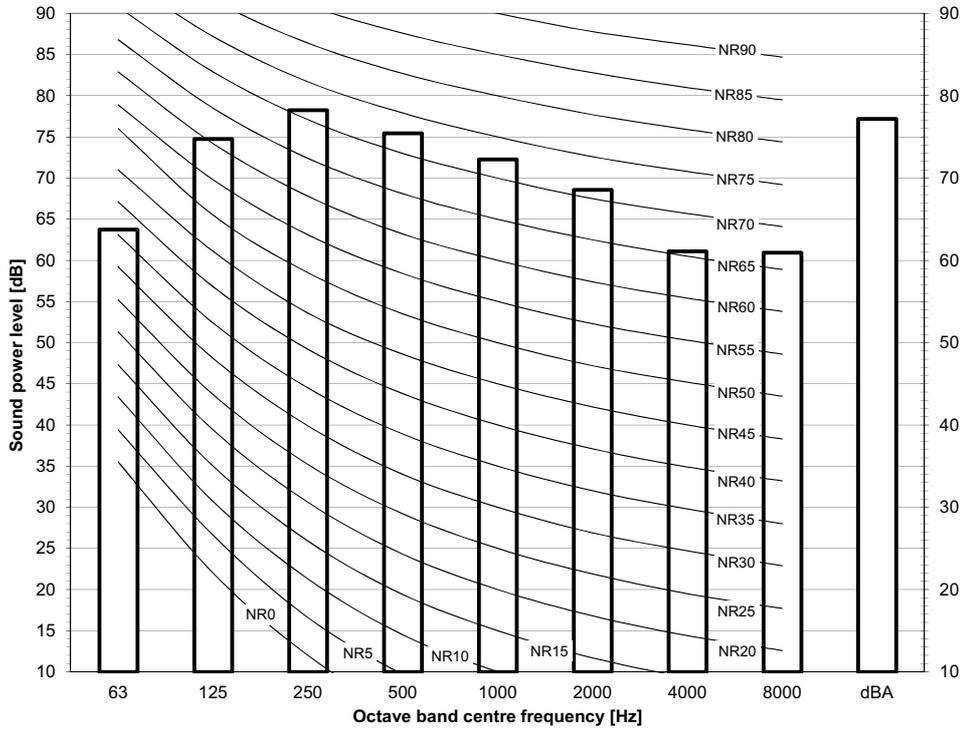
## 11 - 1 Sound Power Spectrum



# 11 Sound data

## 11 - 1 Sound Power Spectrum

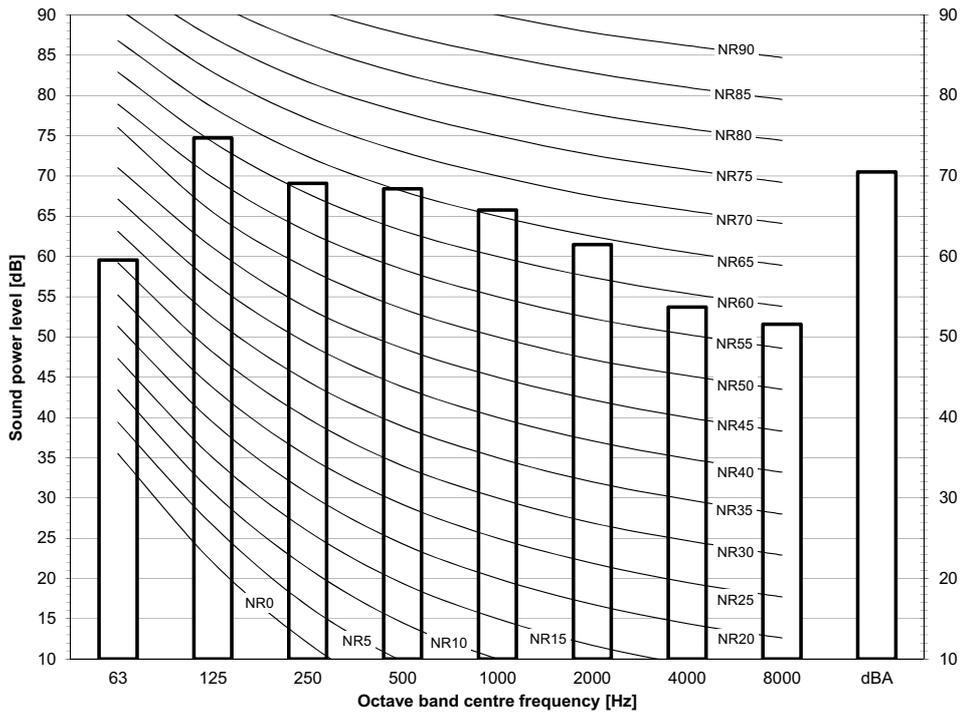
RDXYQ5T



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

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RDXYQ5T



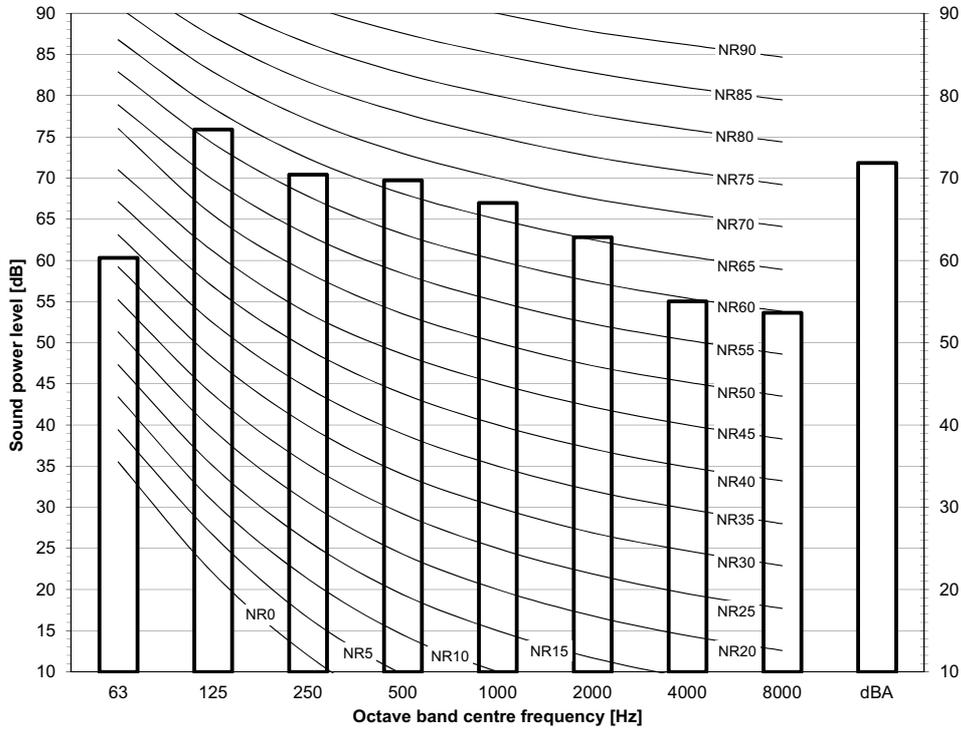
Notes  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity  $0dB = 10E-6\mu W/m^2$   
 - Measured according to ISO 3744

3D099611

# 11 Sound data

## 11 - 1 Sound Power Spectrum

RDXYQ5T

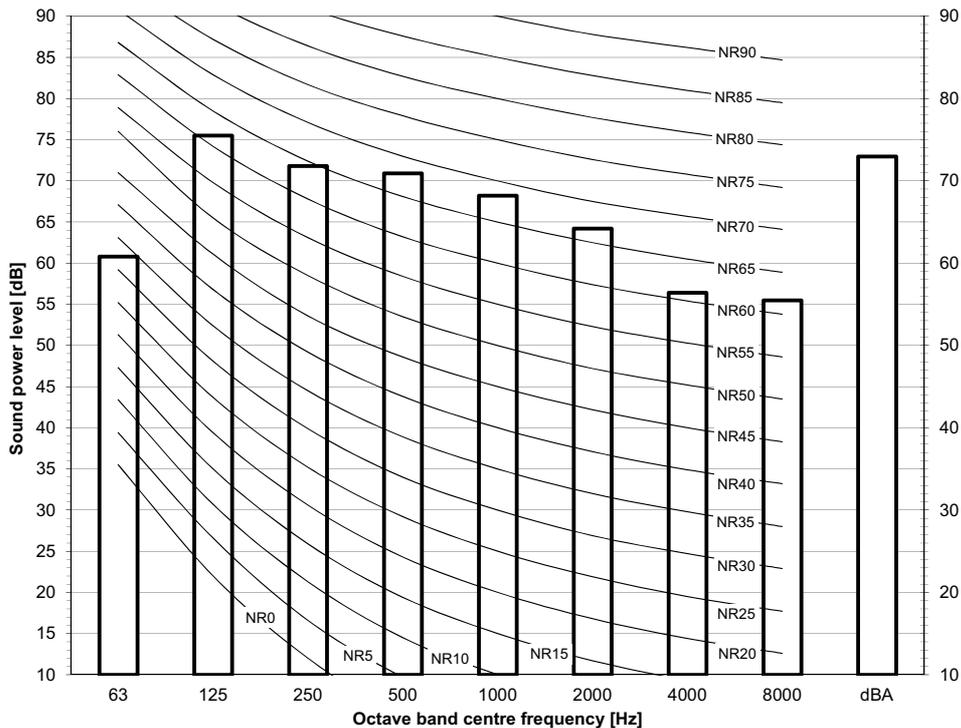


**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>
- Measured according to ISO 3744

3D099612

RDXYQ5T



**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>
- Measured according to ISO 3744

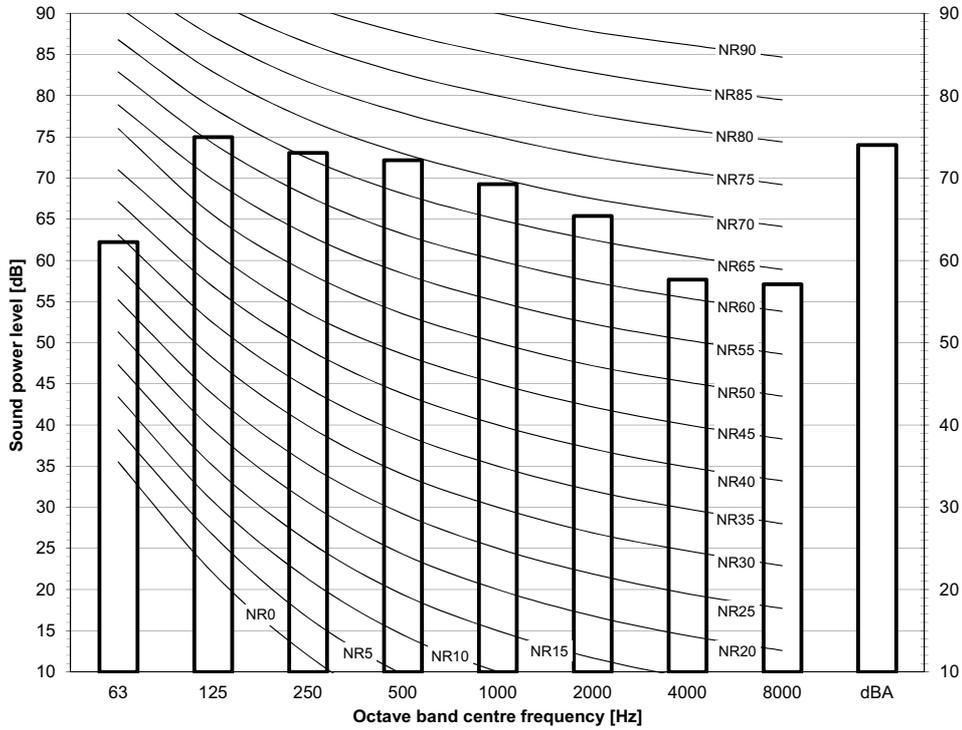
3D099613

# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

RDXYQ5T

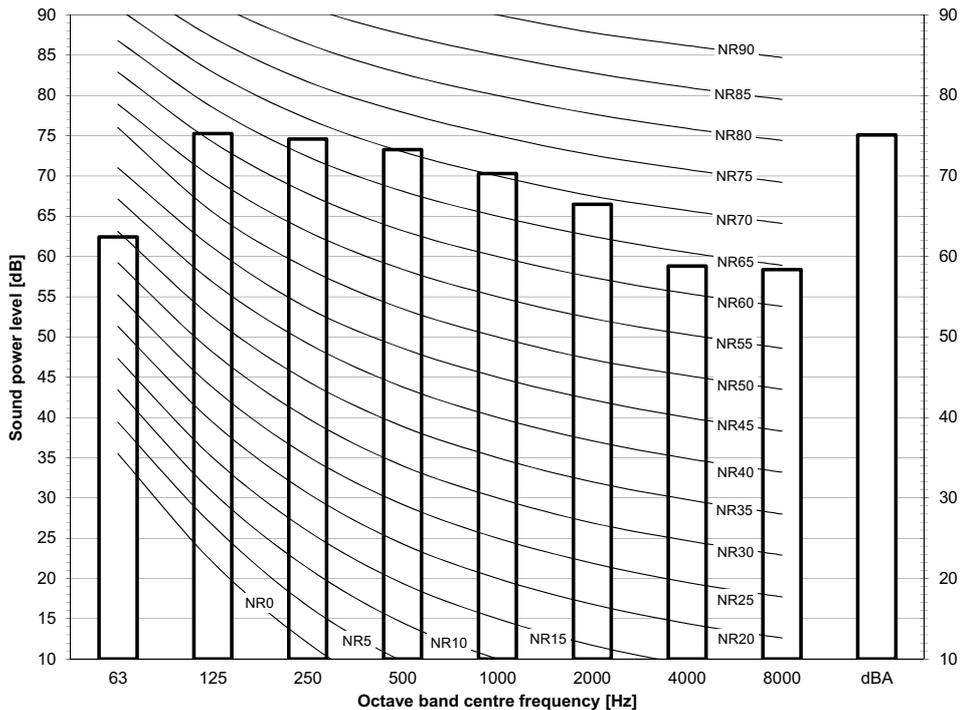


**Notes**

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

3D099614

RDXYQ5T



**Notes**

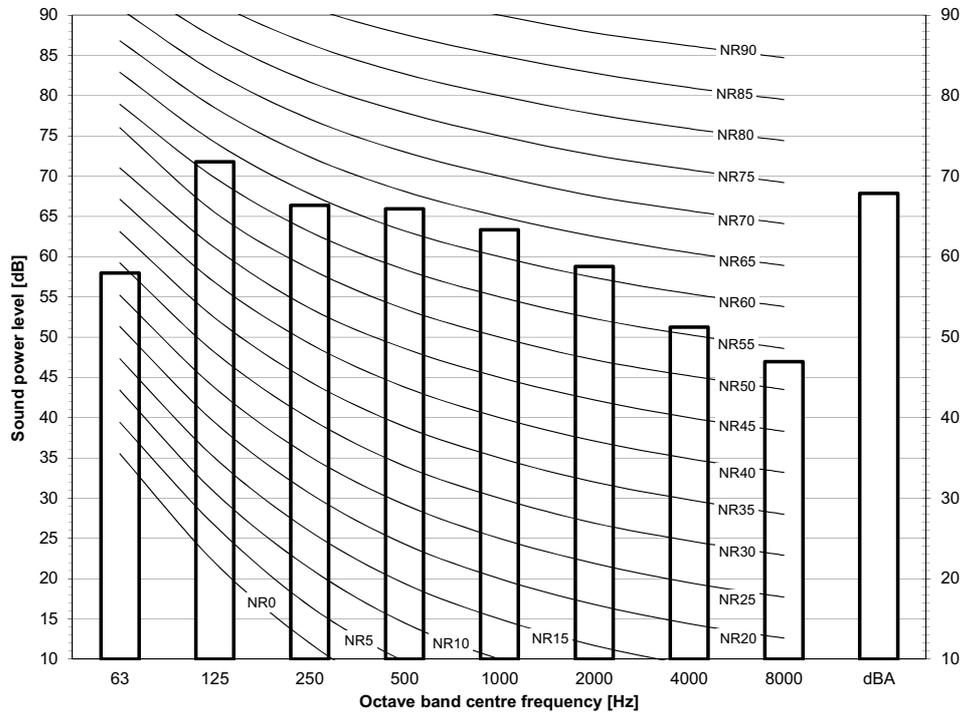
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity  $O_{dB} = 10E-6\mu W/m^2$
- Measured according to ISO 3744

3D099615

# 11 Sound data

## 11 - 1 Sound Power Spectrum

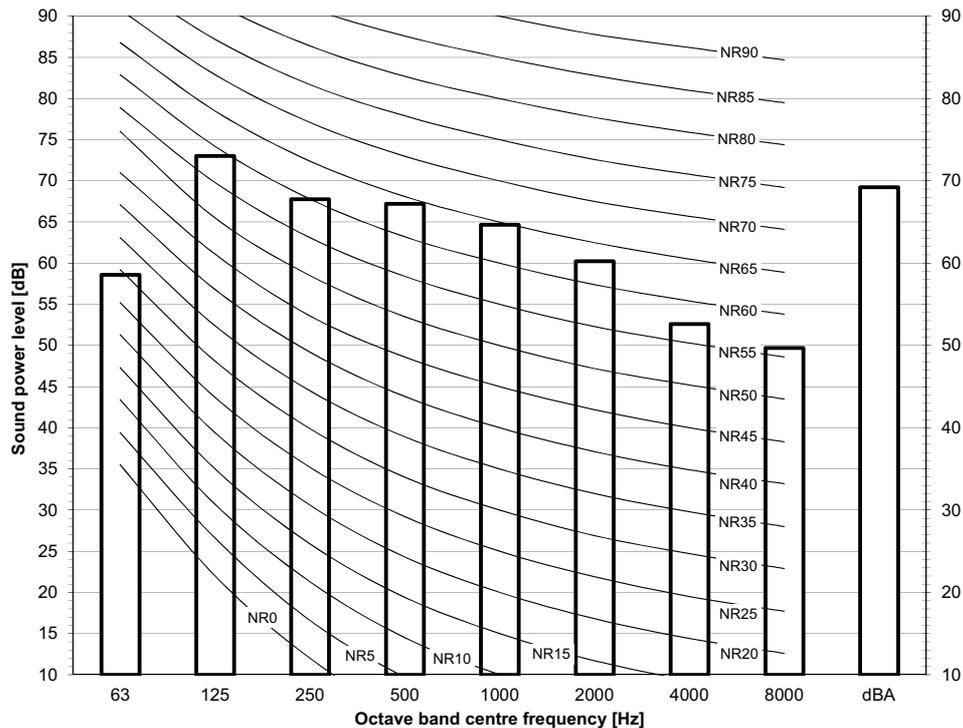
RDXYQ5T



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

3D099616

RDXYQ5T



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

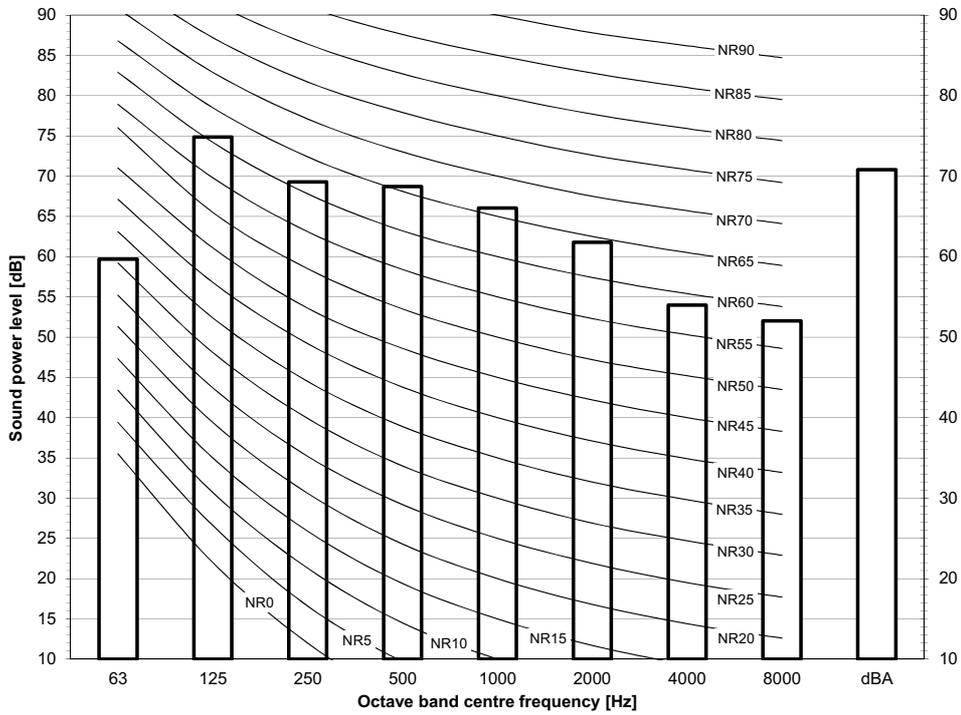
3D099617

# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

RDXYQ5T

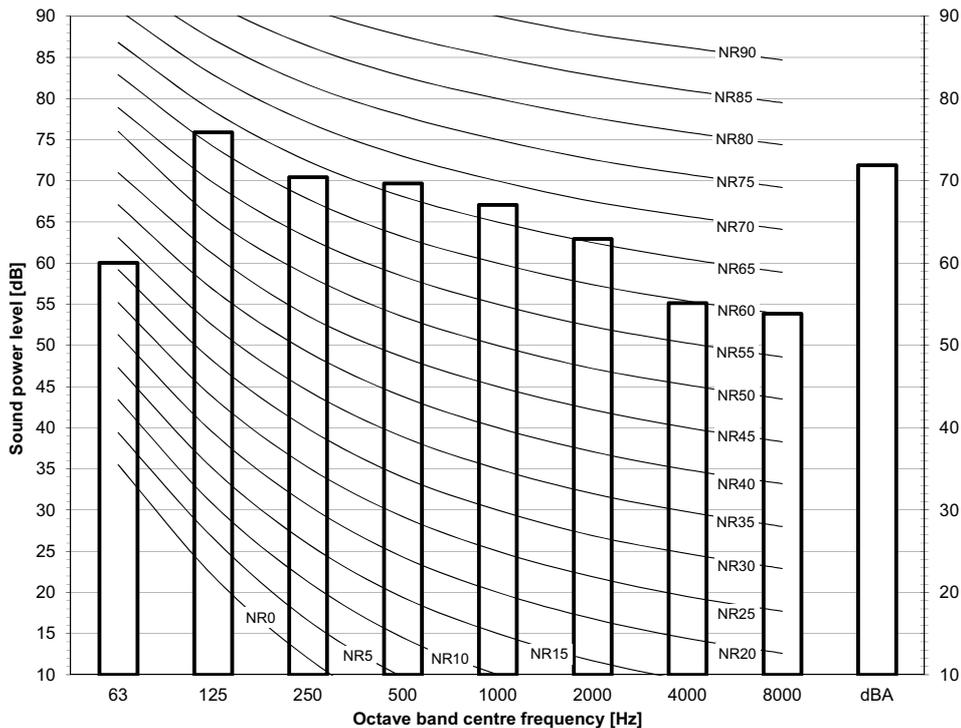


**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>
- Measured according to ISO 3744

3D099618

RDXYQ5T



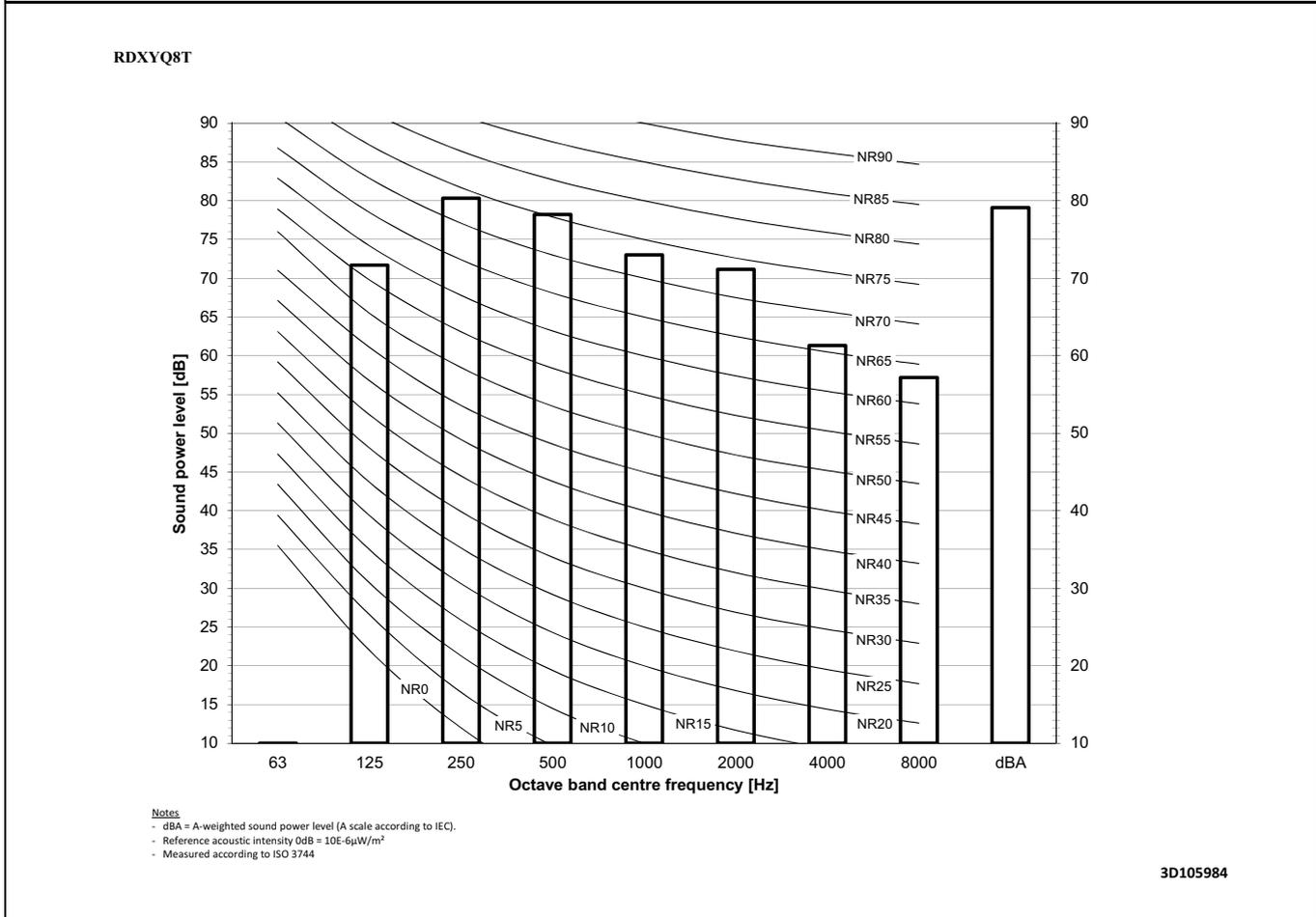
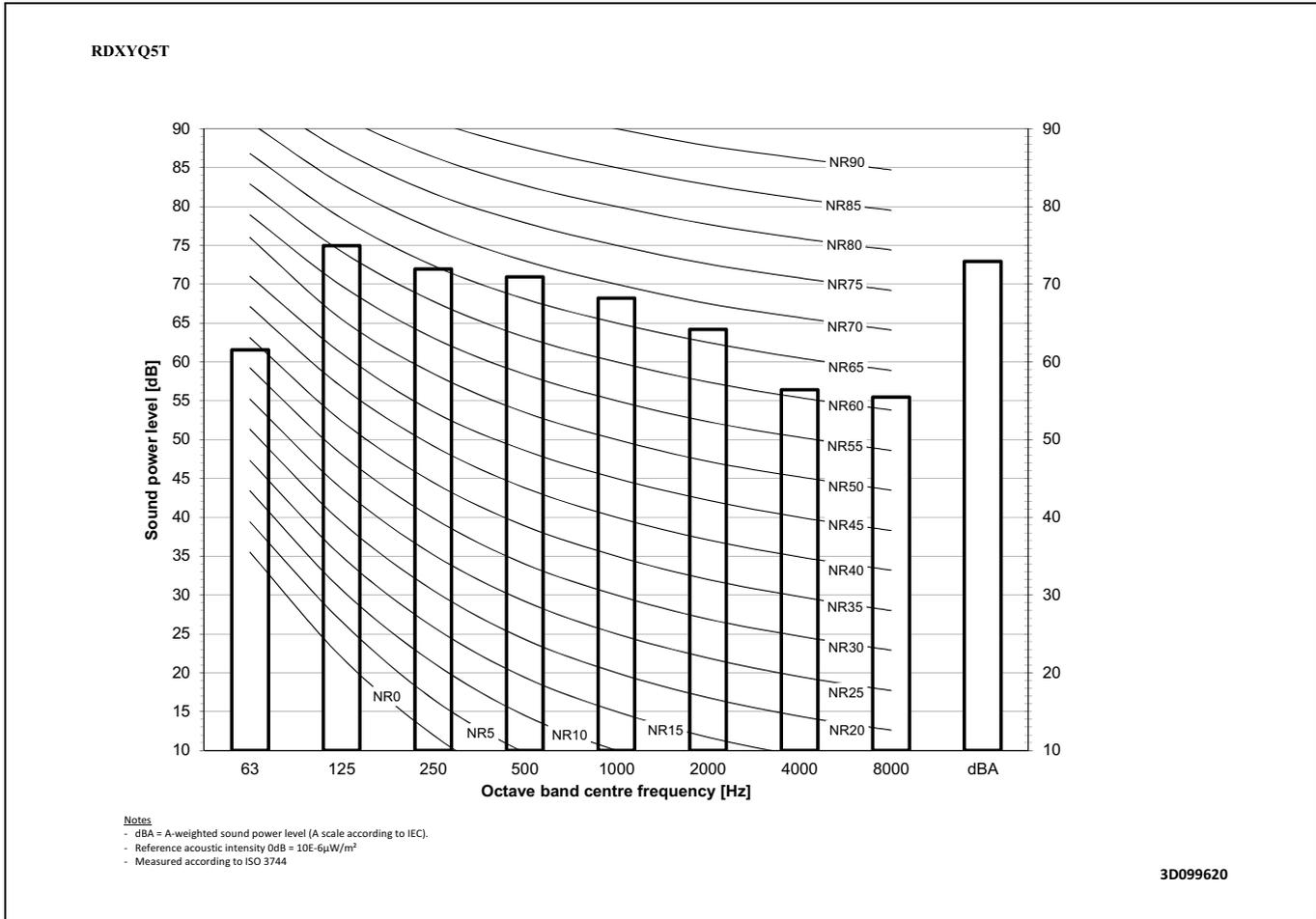
**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>
- Measured according to ISO 3744

3D099619

# 11 Sound data

## 11 - 1 Sound Power Spectrum

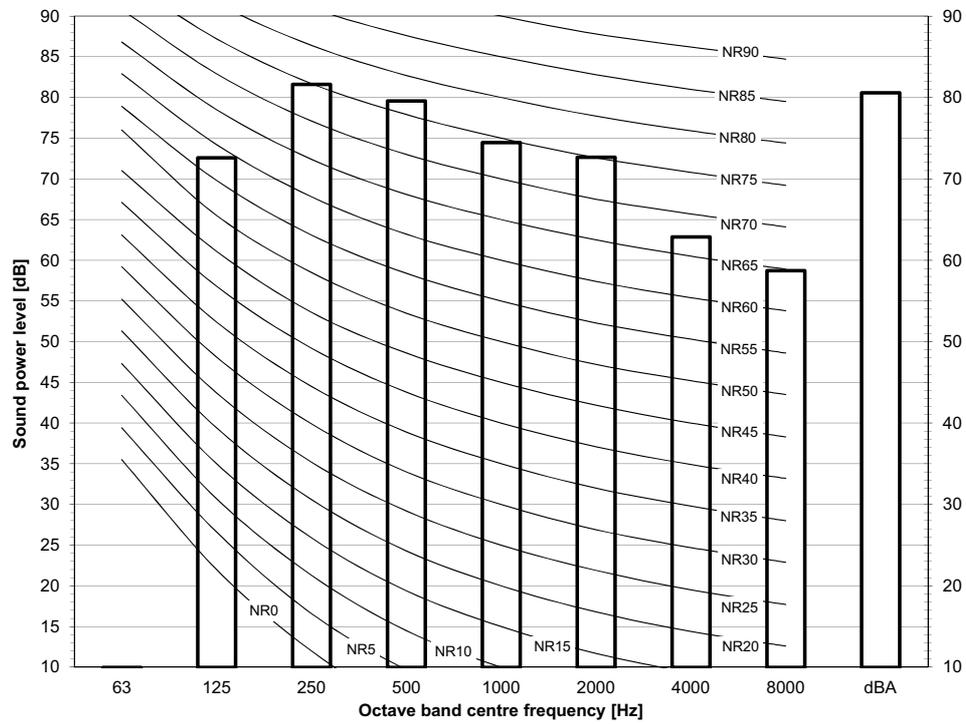


# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

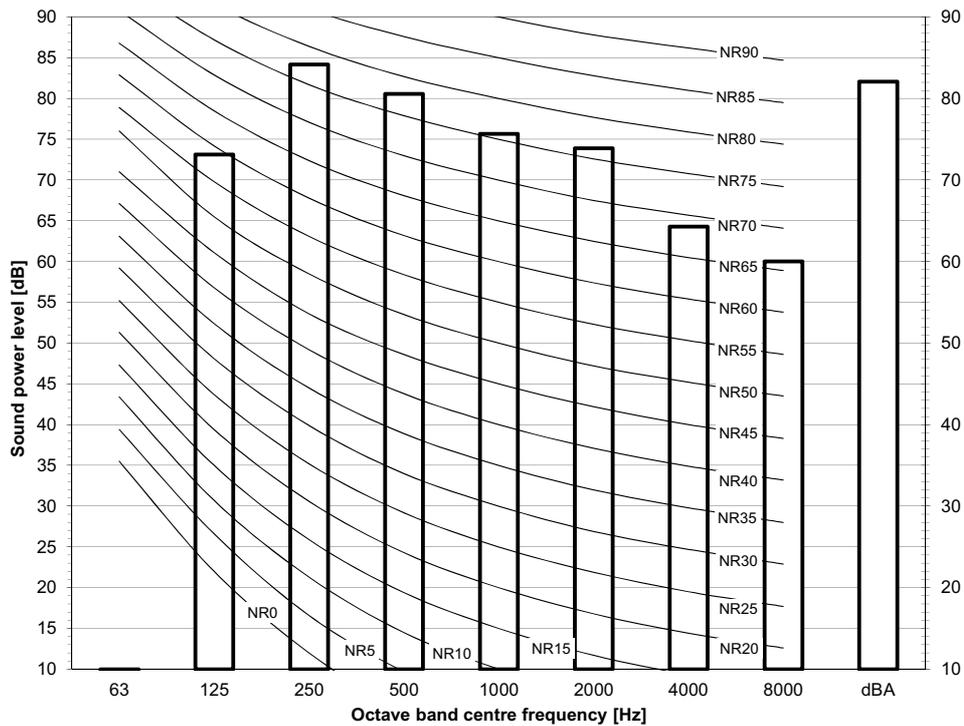
RDXYQ8T



Notes  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>  
 - Measured according to ISO 3744

3D105985

RDXYQ8T



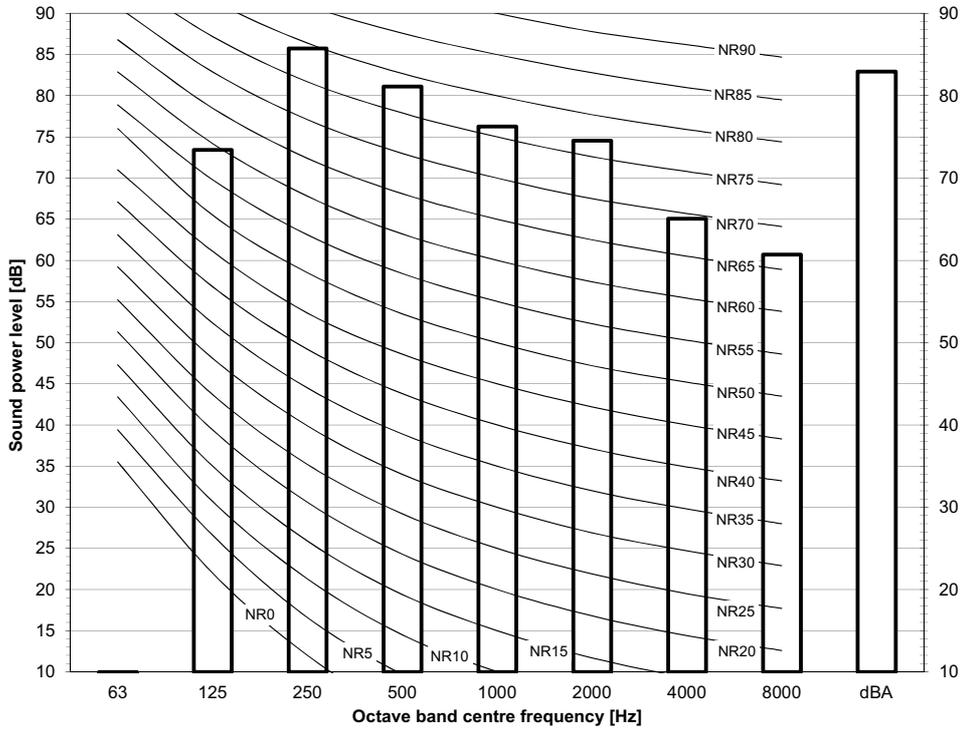
Notes  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>  
 - Measured according to ISO 3744

3D105986

# 11 Sound data

## 11 - 1 Sound Power Spectrum

RDXYQ8T

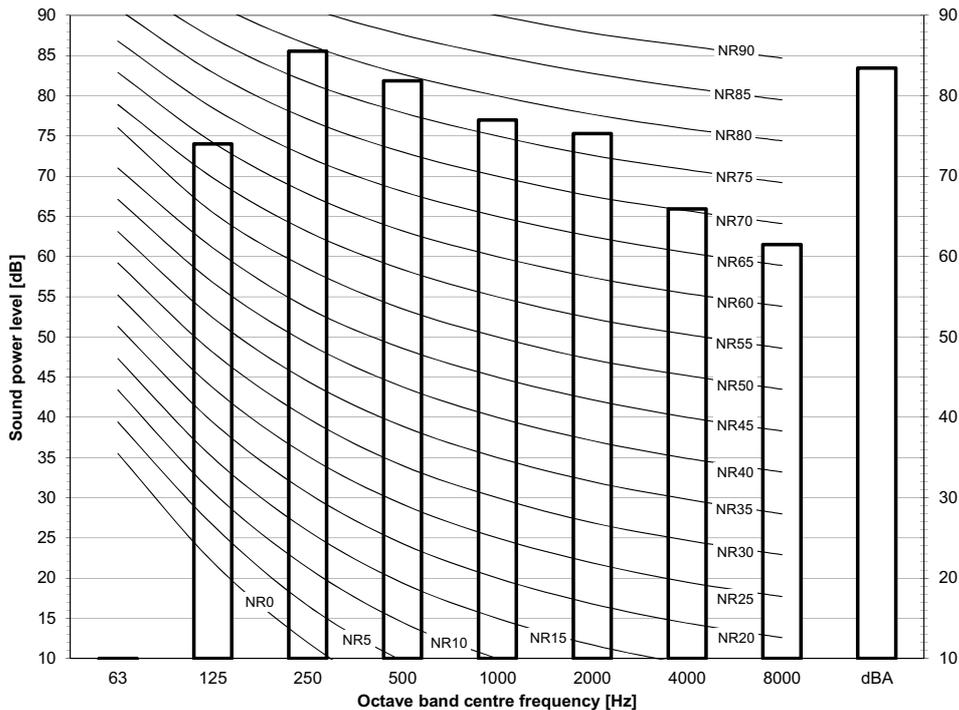


**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>
- Measured according to ISO 3744

3D105987

RDXYQ8T



**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>
- Measured according to ISO 3744

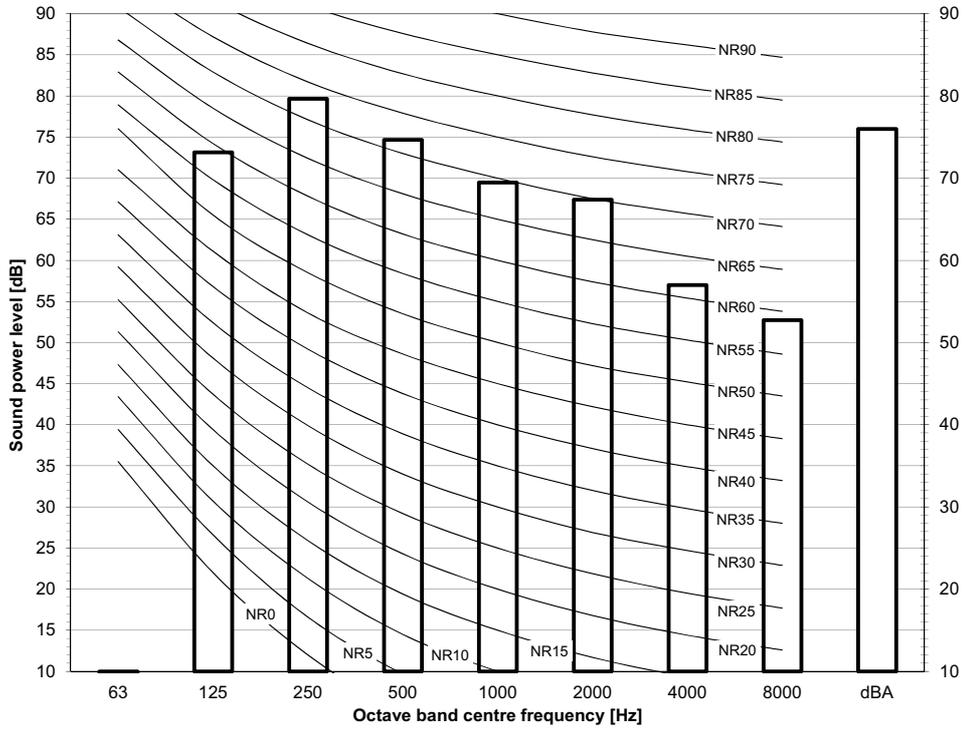
3D105988

# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

RDXYQ8T

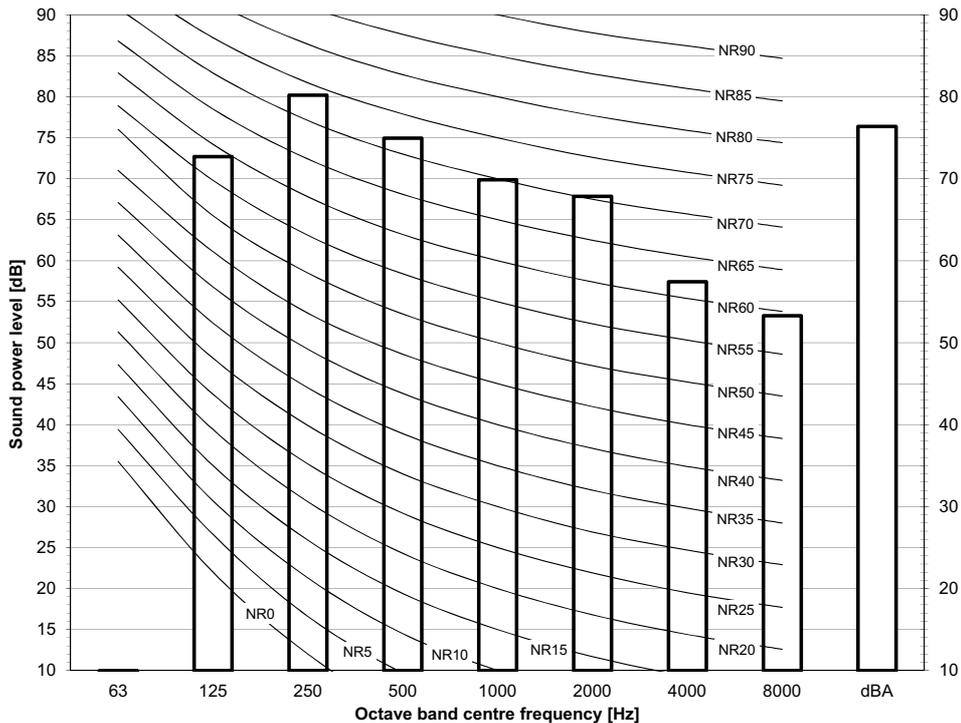


**Notes**

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

3D105989

RDXYQ8T



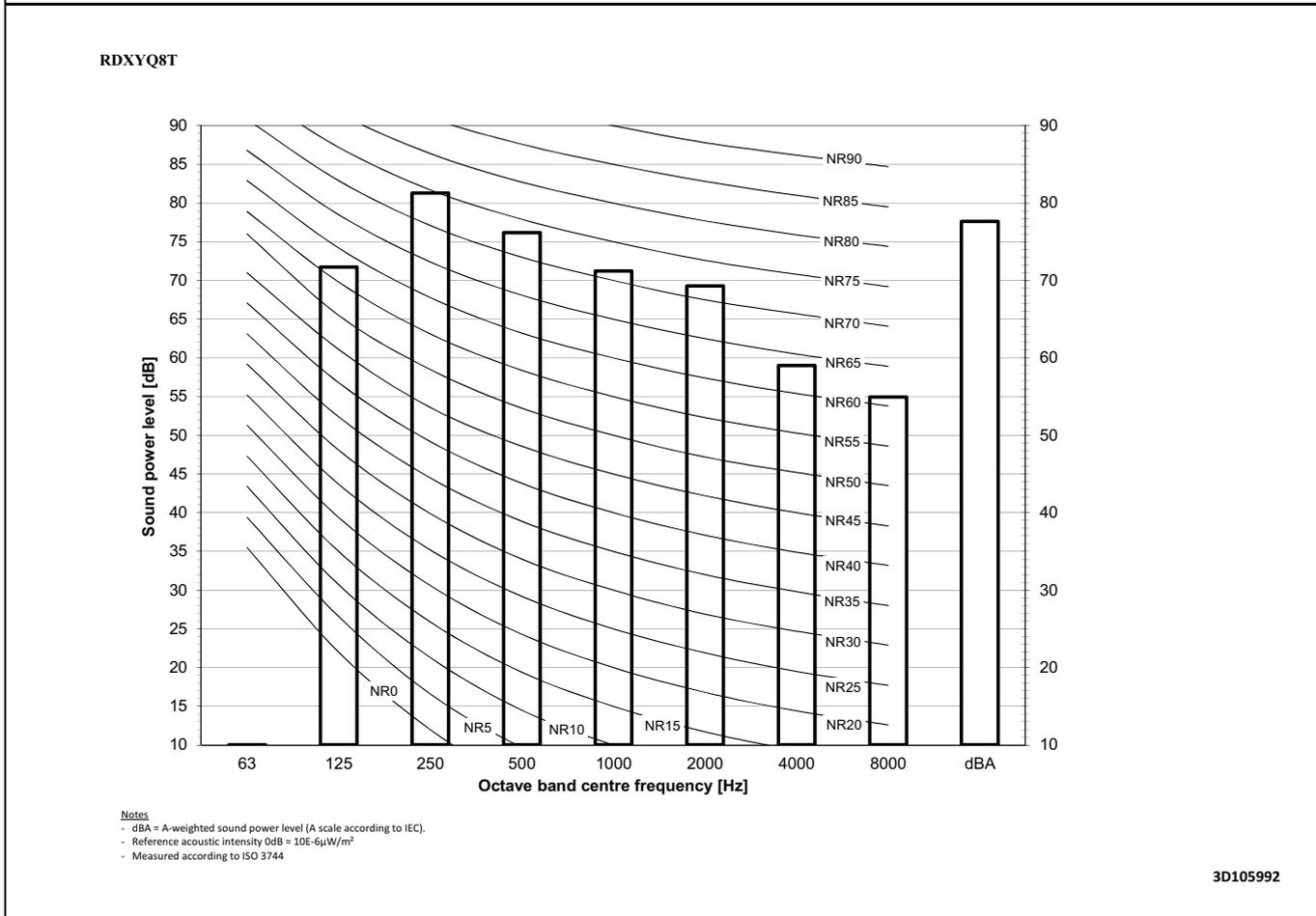
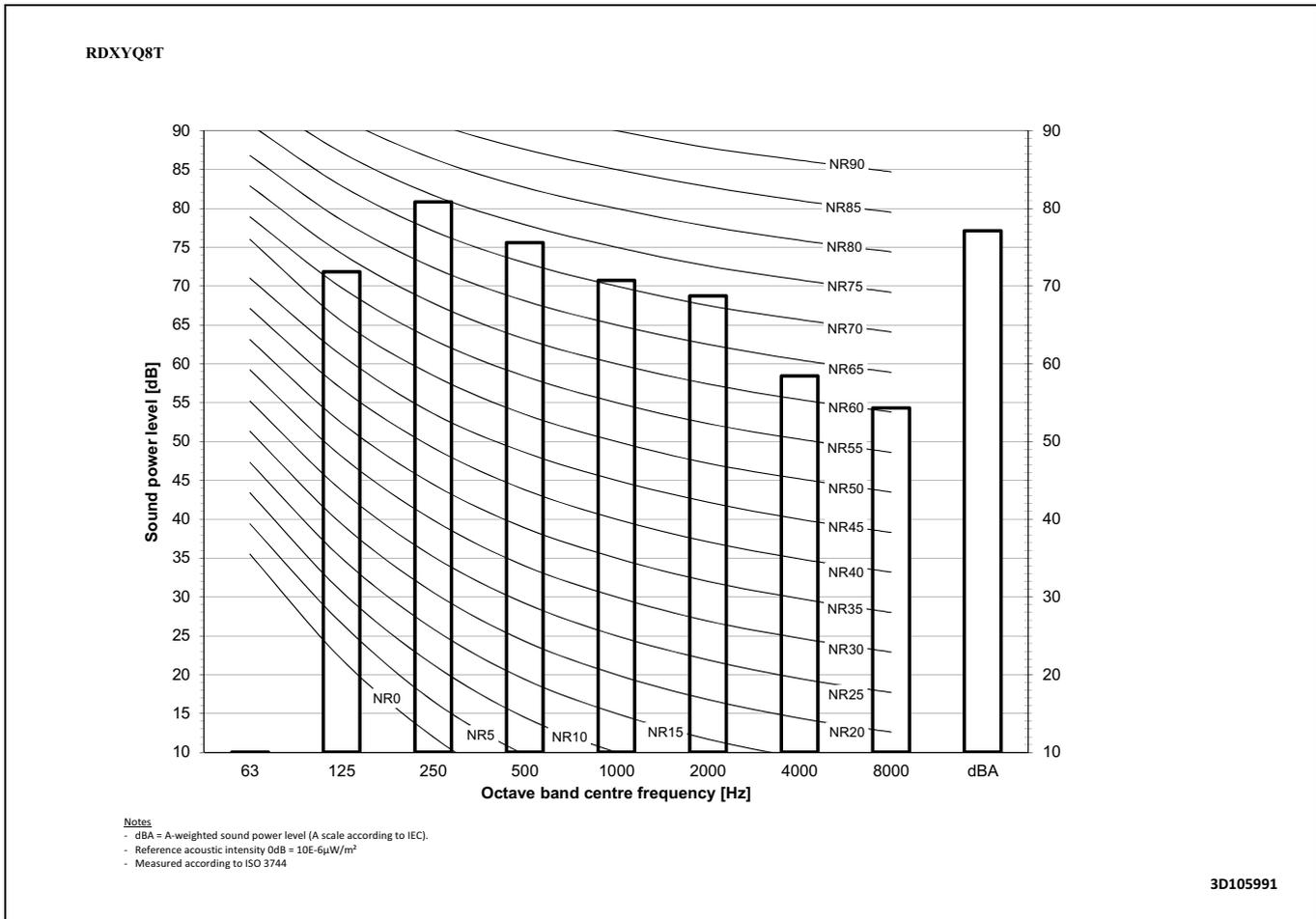
**Notes**

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

3D105990

# 11 Sound data

## 11 - 1 Sound Power Spectrum

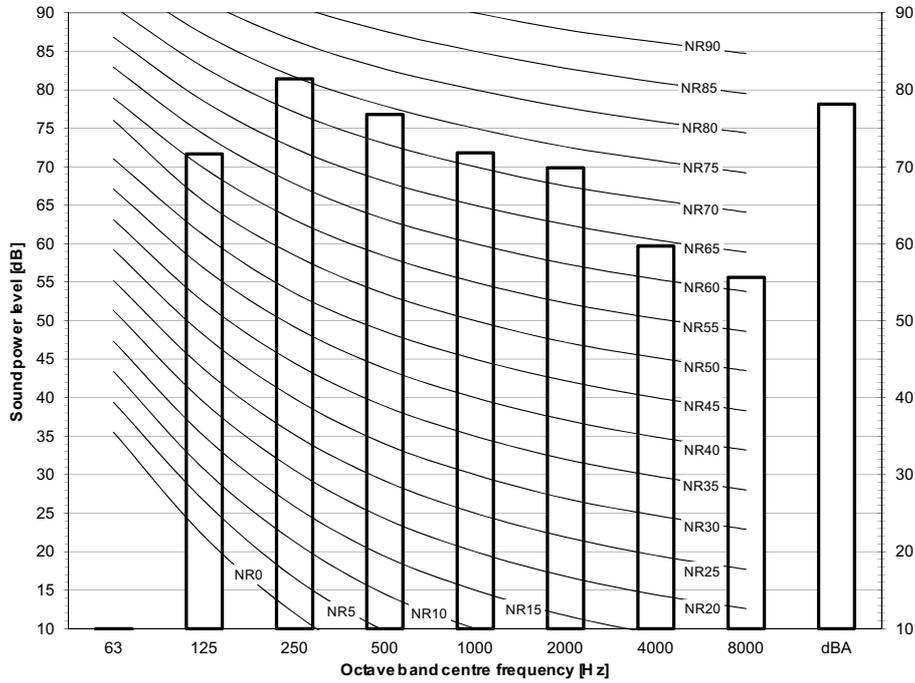


# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

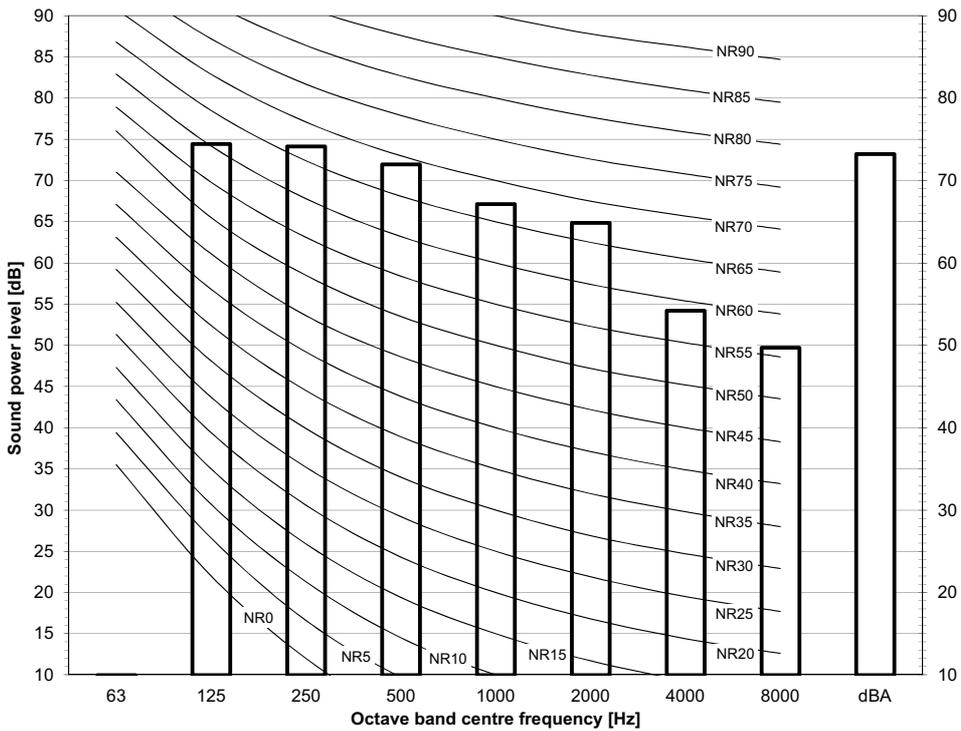
RDXYQ8T



Notes  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>  
 - Measured according to ISO 3744

3D1059B

RDXYQ8T



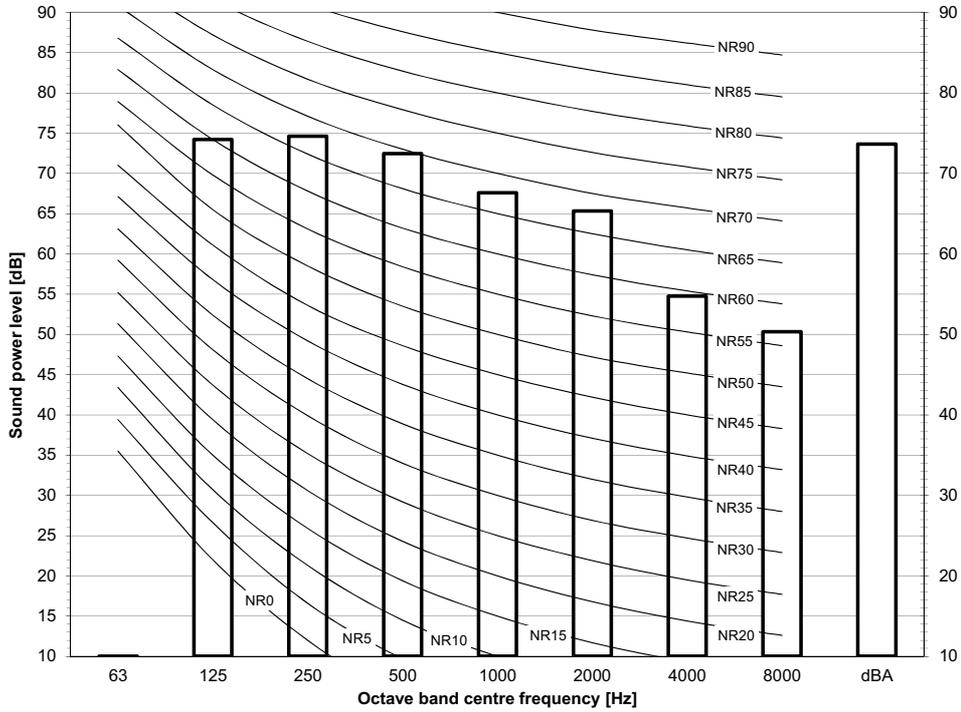
Notes  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>  
 - Measured according to ISO 3744

3D105994

# 11 Sound data

## 11 - 1 Sound Power Spectrum

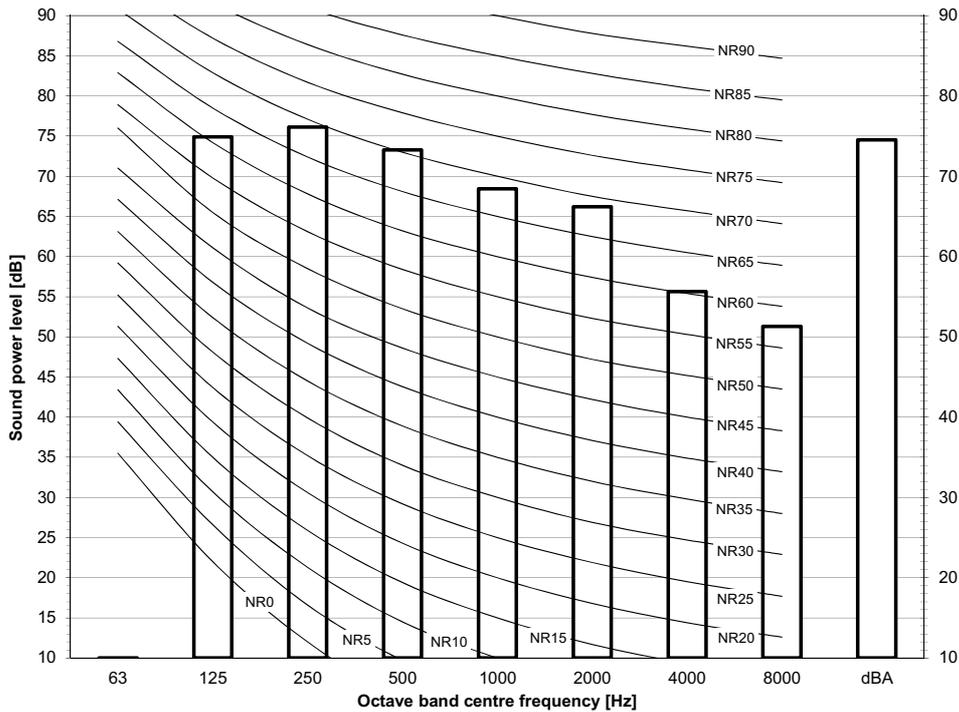
RDXYQ8T



Notes  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>  
 - Measured according to ISO 3744

3D105995

RDXYQ8T



Notes  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>  
 - Measured according to ISO 3744

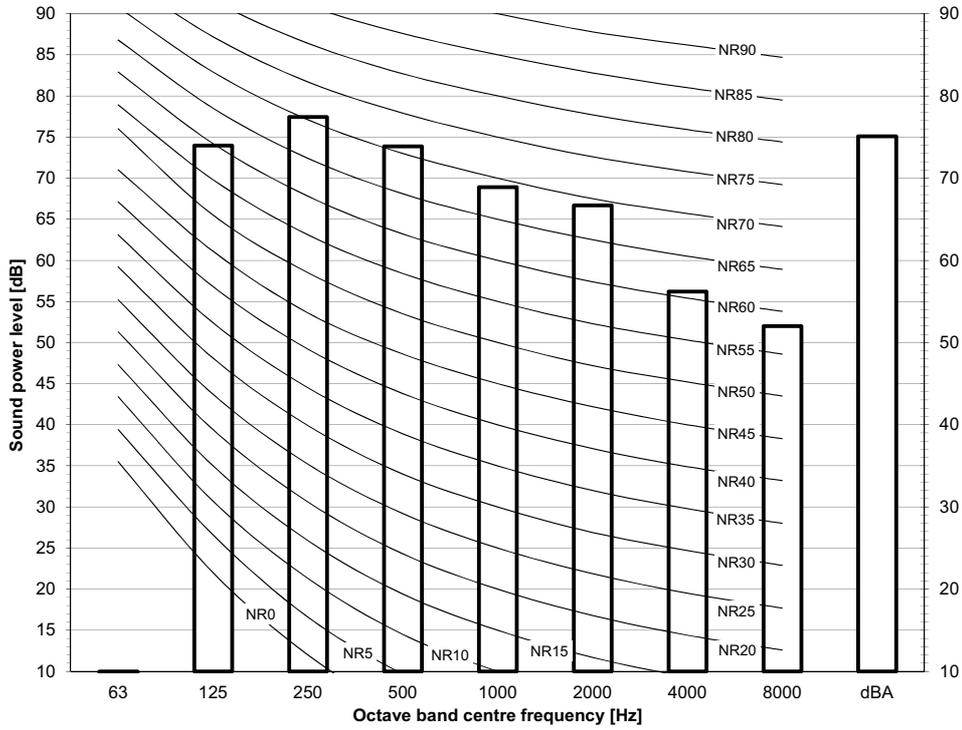
3D105996

# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

RDXYQ8T

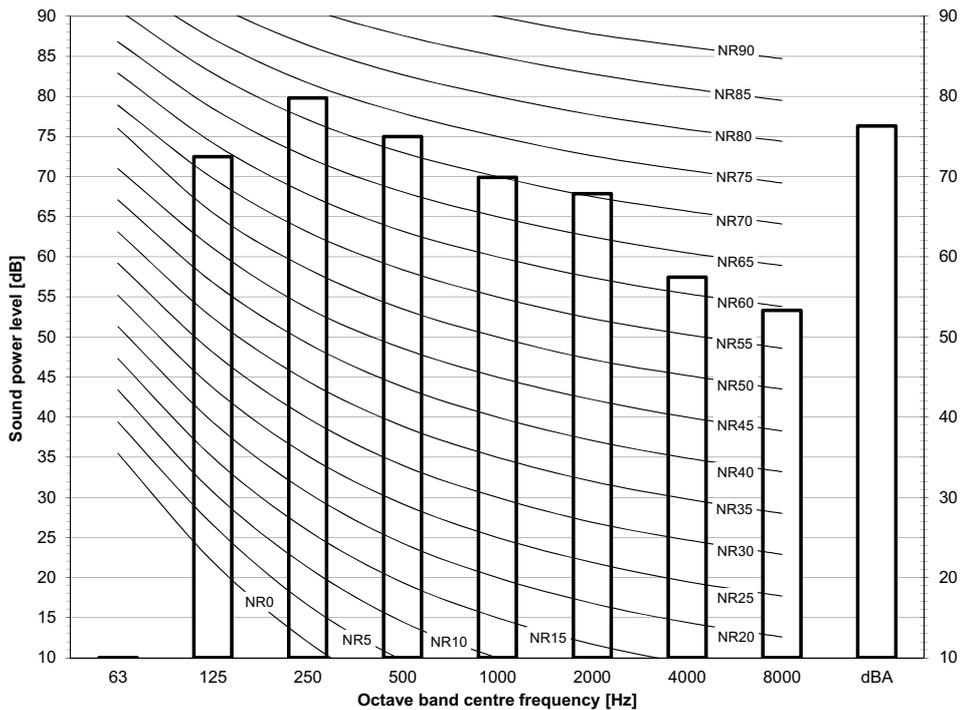


**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>
- Measured according to ISO 3744

3D105997

RDXYQ8T



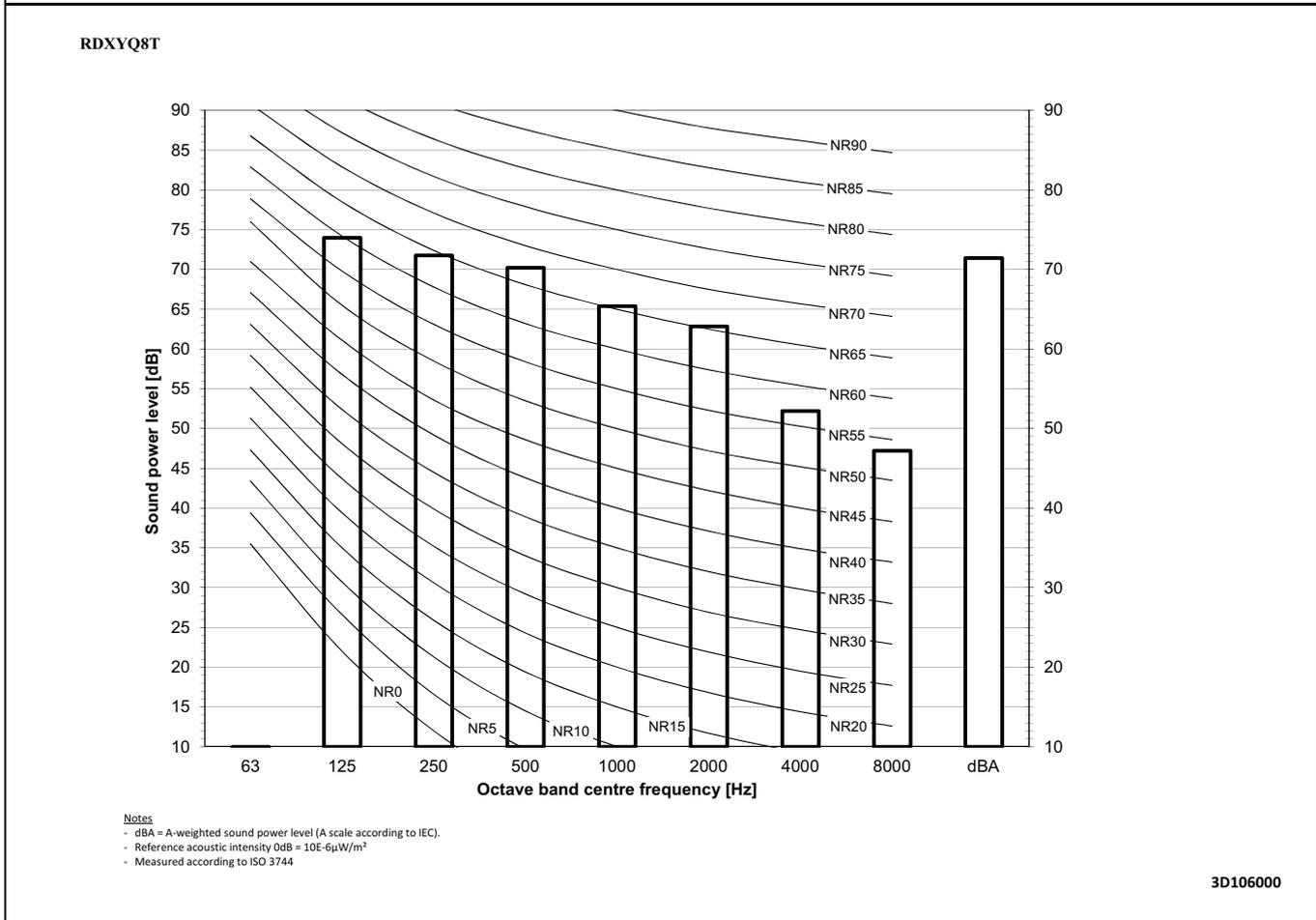
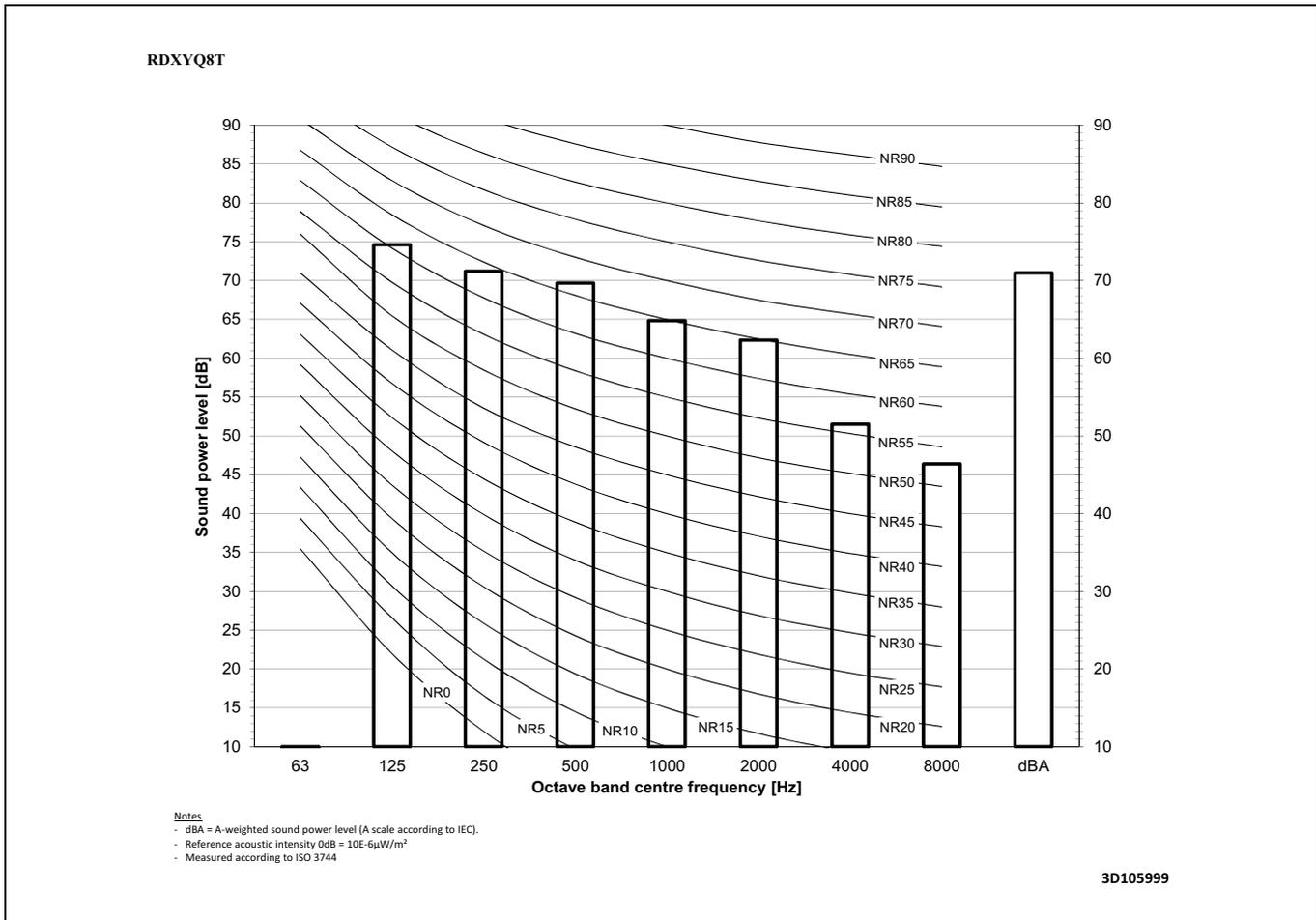
**Notes**

- dBA = A-weighted intensity 0dB = 10E-6μW/m<sup>2</sup>
- Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>
- Measured according to ISO 3744

3D105998

# 11 Sound data

## 11 - 1 Sound Power Spectrum

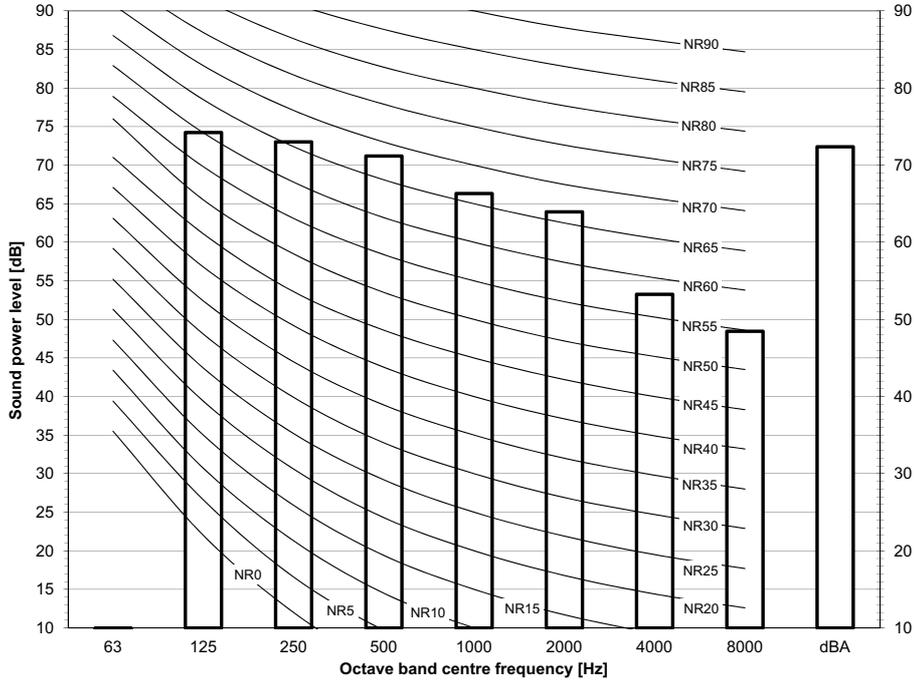


# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

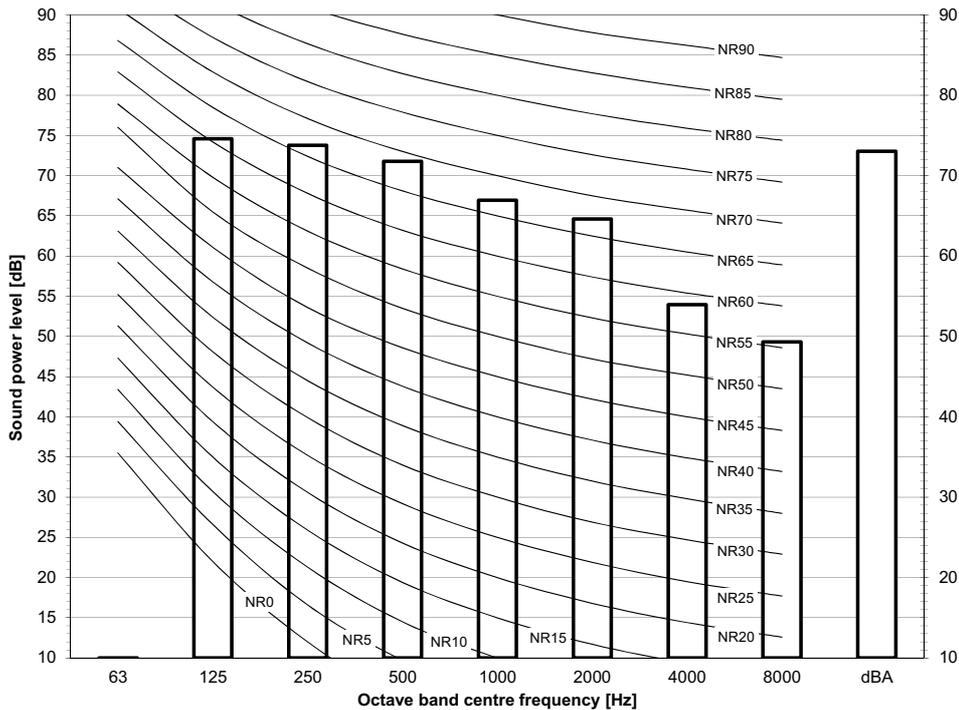
RDXYQ8T



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

3D106001

RDXYQ8T

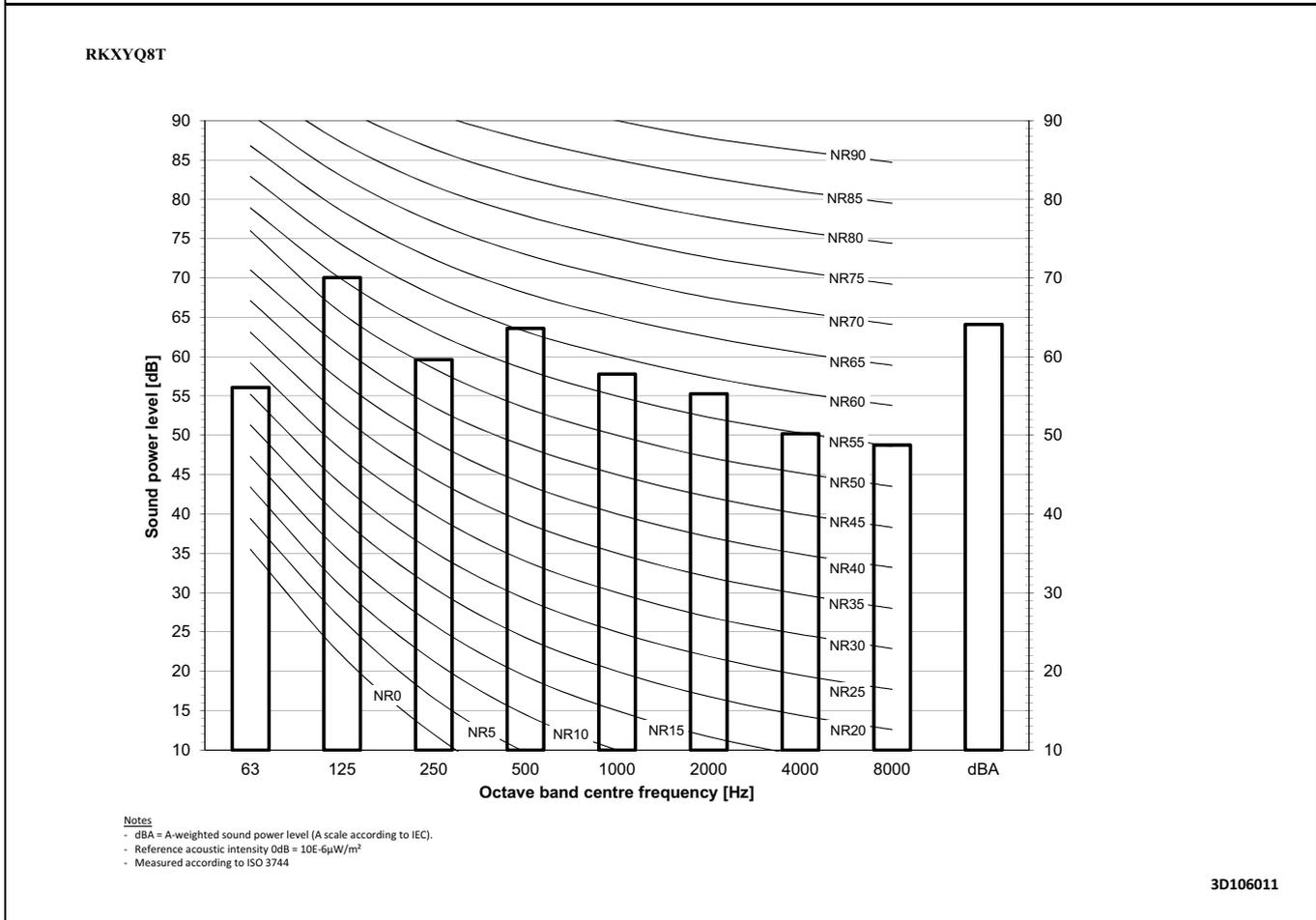
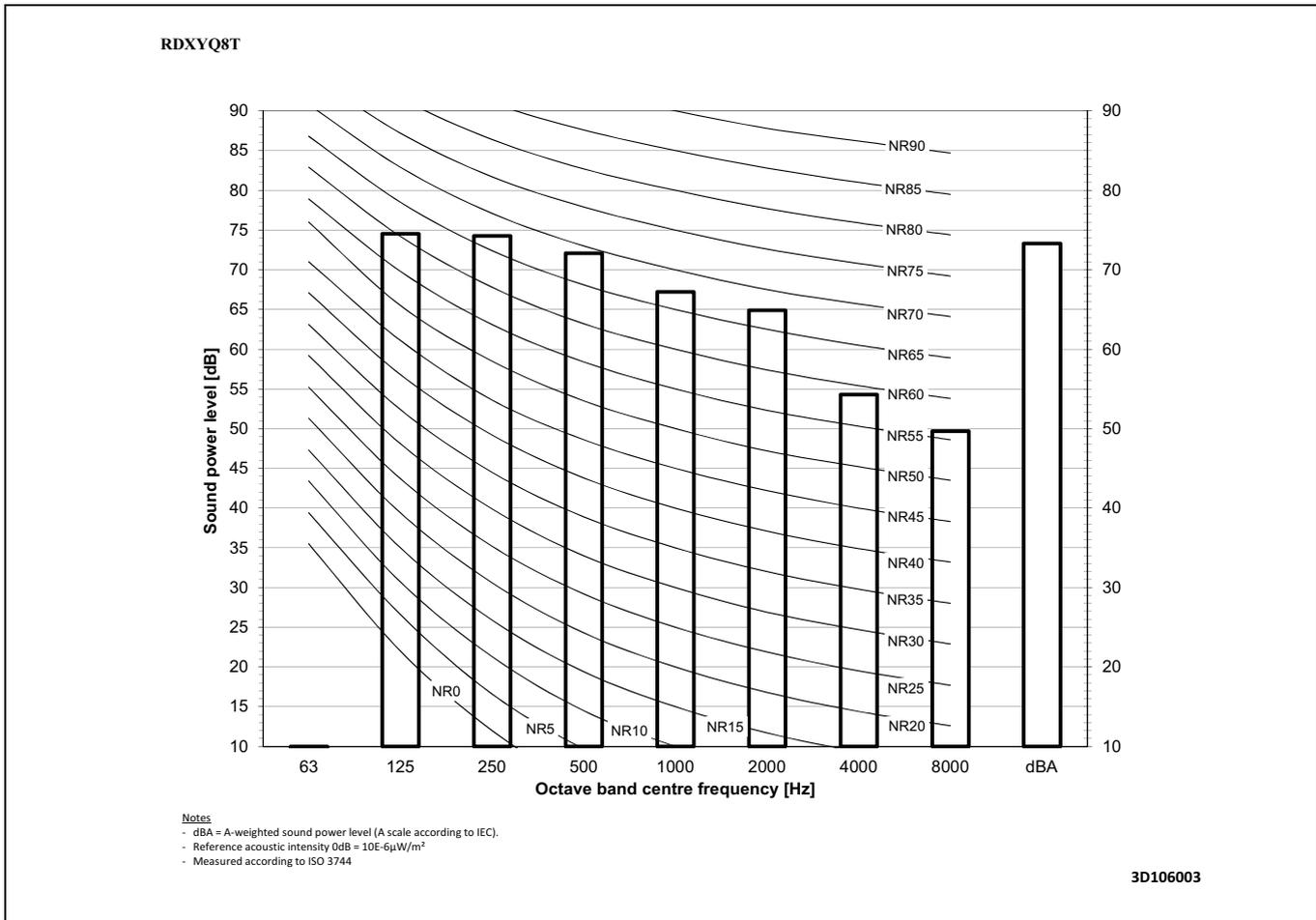


Notes  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity  $0dB = 10E-6\mu W/m^2$   
 - Measured according to ISO 3744

3D106002

# 11 Sound data

## 11 - 1 Sound Power Spectrum

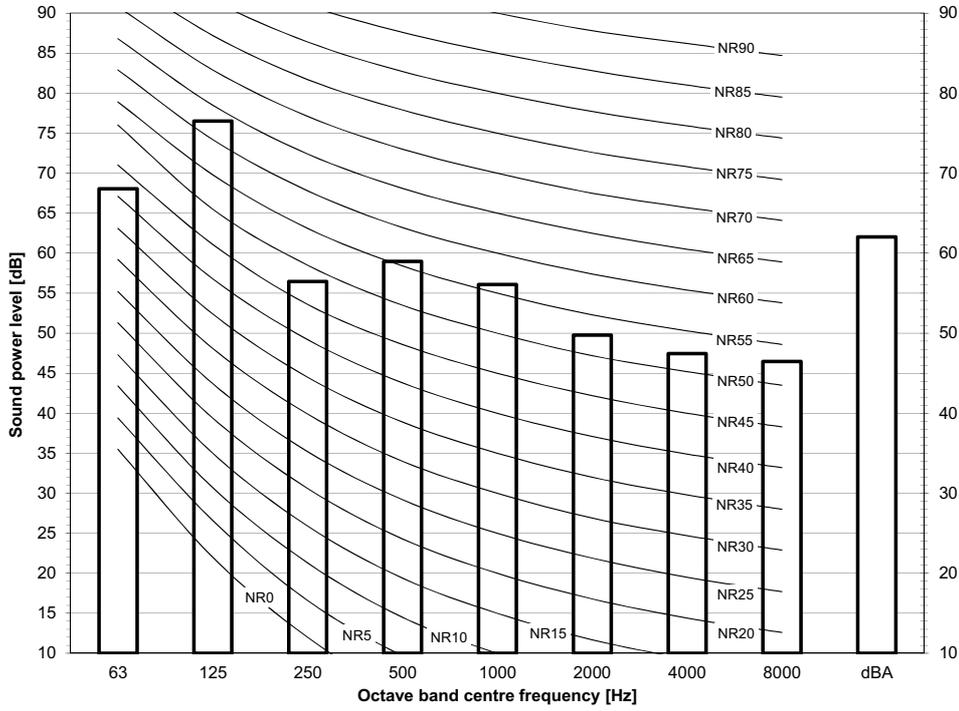


# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

RKXYQ8T

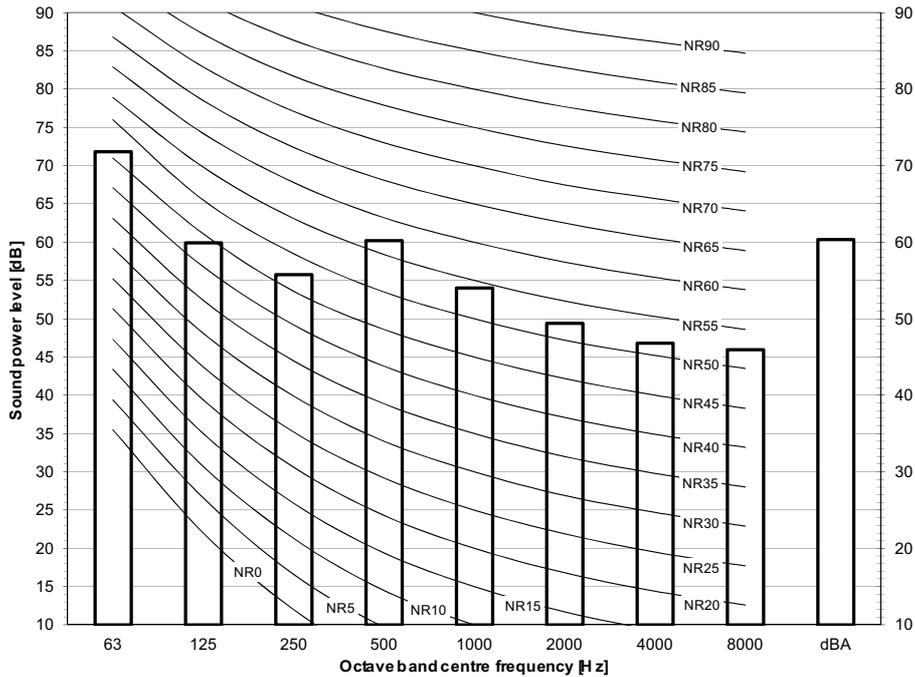


**Notes**

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

3D106012

RKXYQ8T



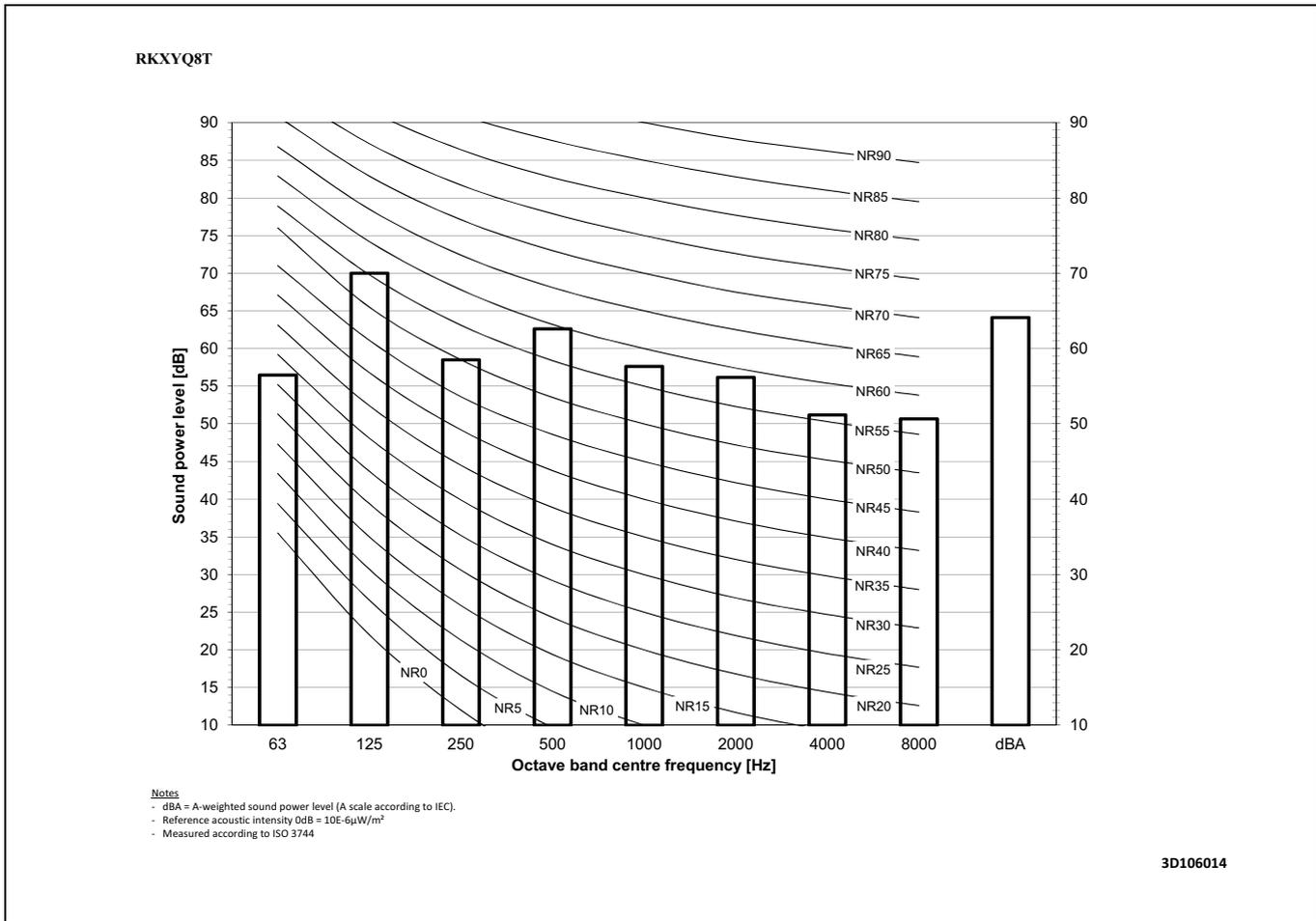
**Notes**

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

3D10013

# 11 Sound data

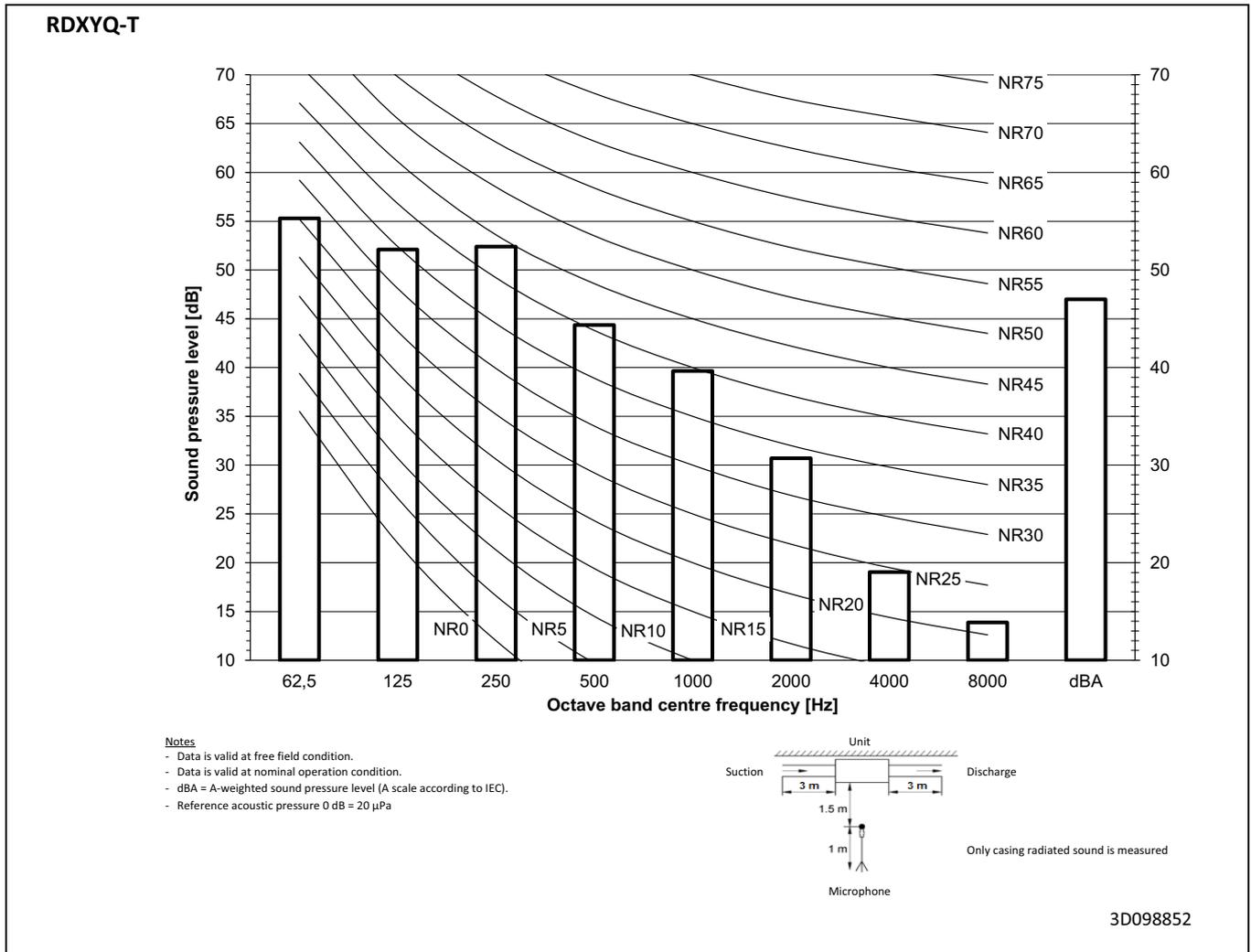
## 11 - 1 Sound Power Spectrum



# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

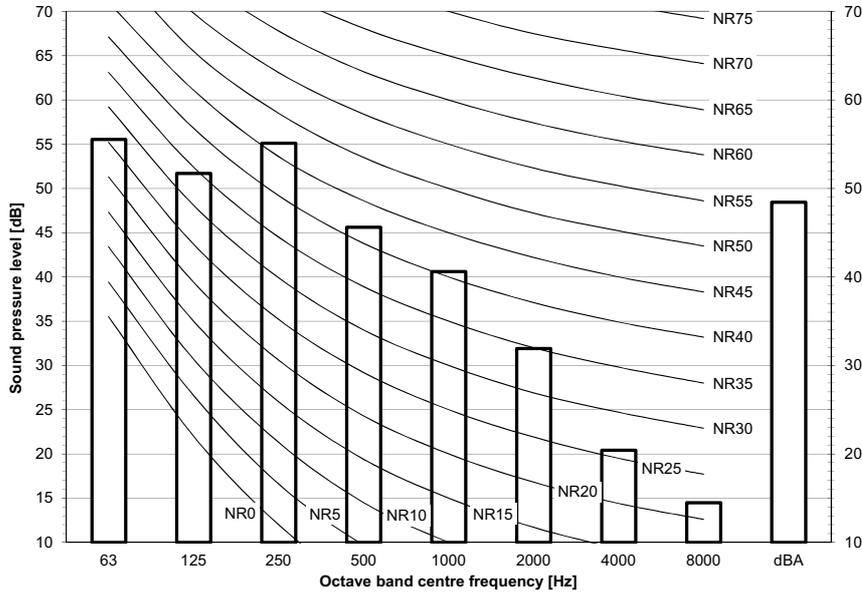
11



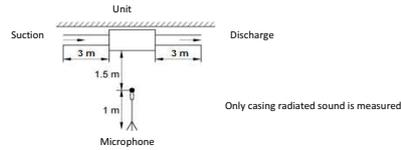
# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ5T

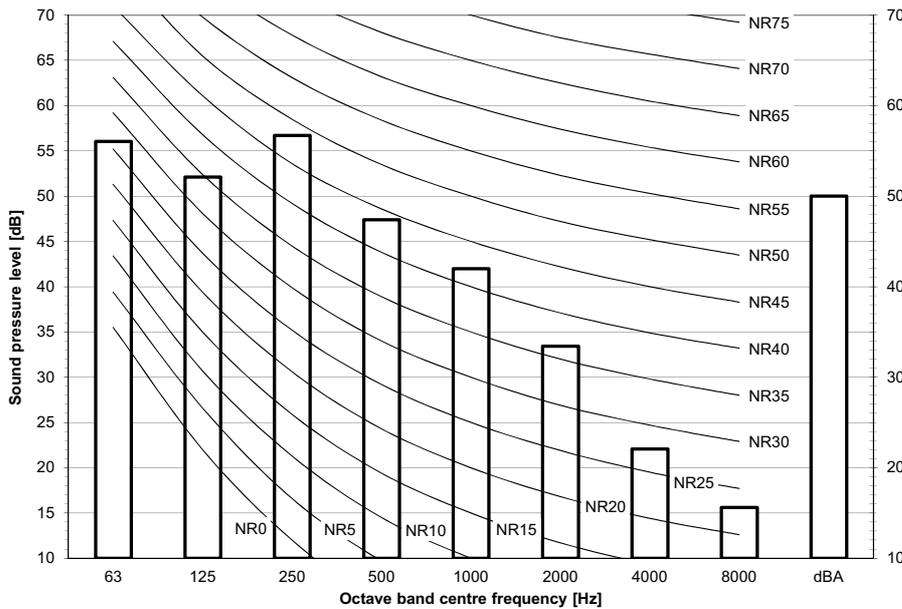


- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 μPa

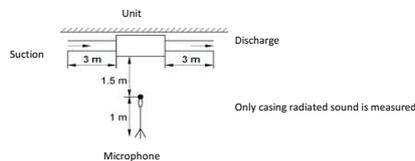


3D098853

RDXYQ5T



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

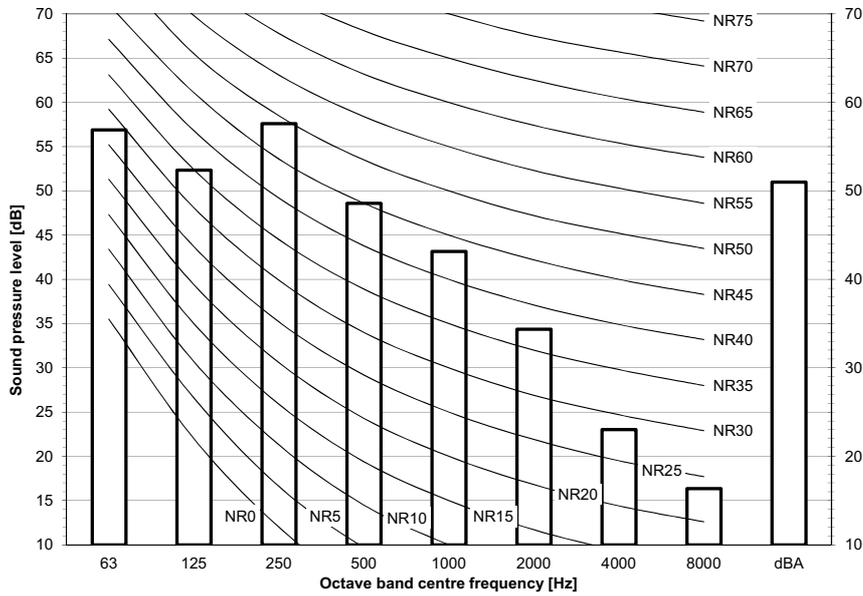


3D098854

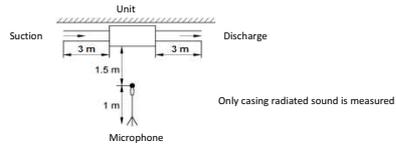
# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ5T

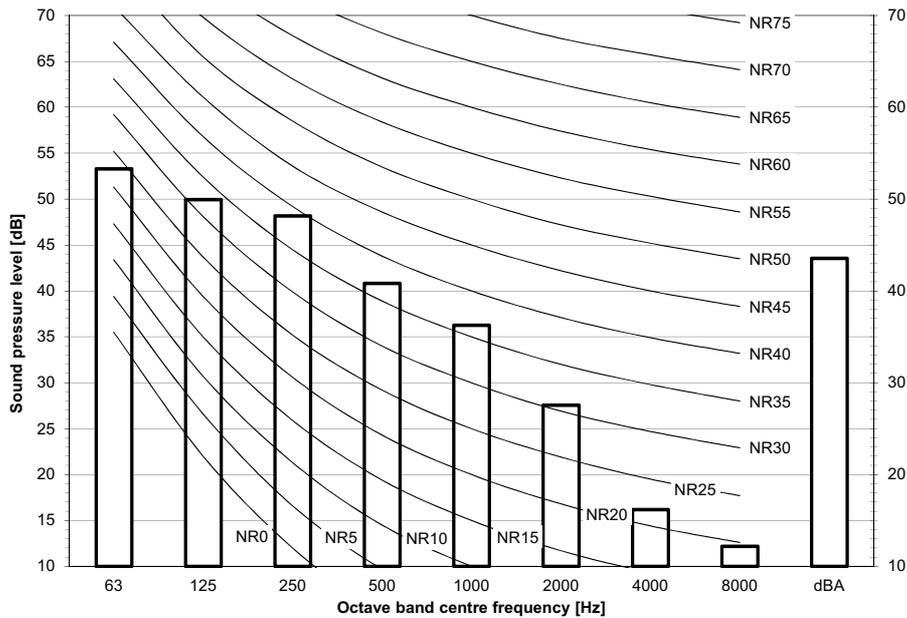


- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 μPa



3D098855

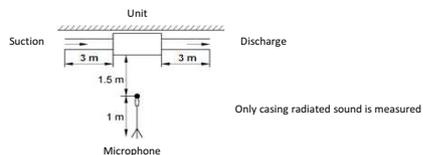
RDXYQ5T



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

**Data is valid under the following conditions**

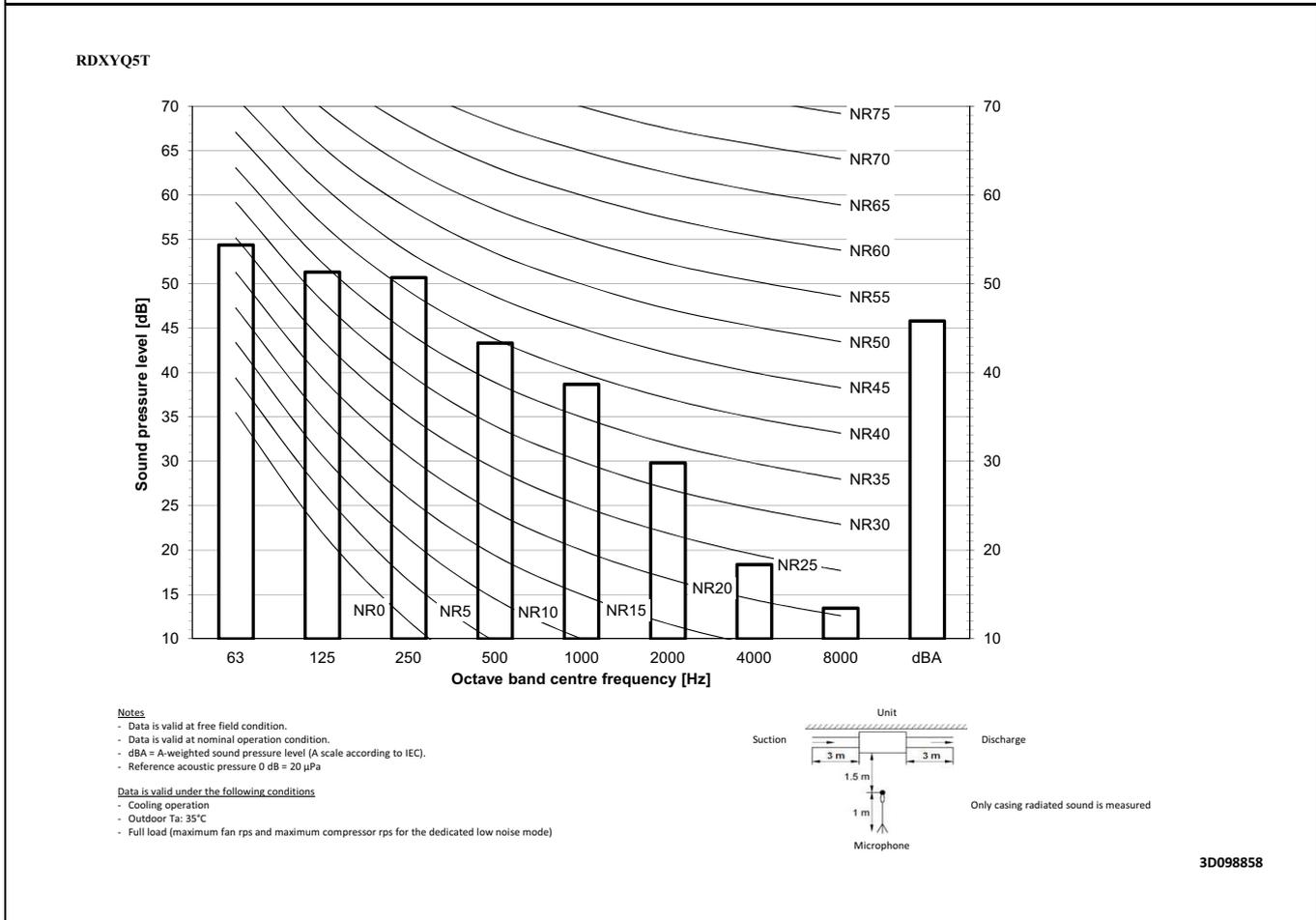
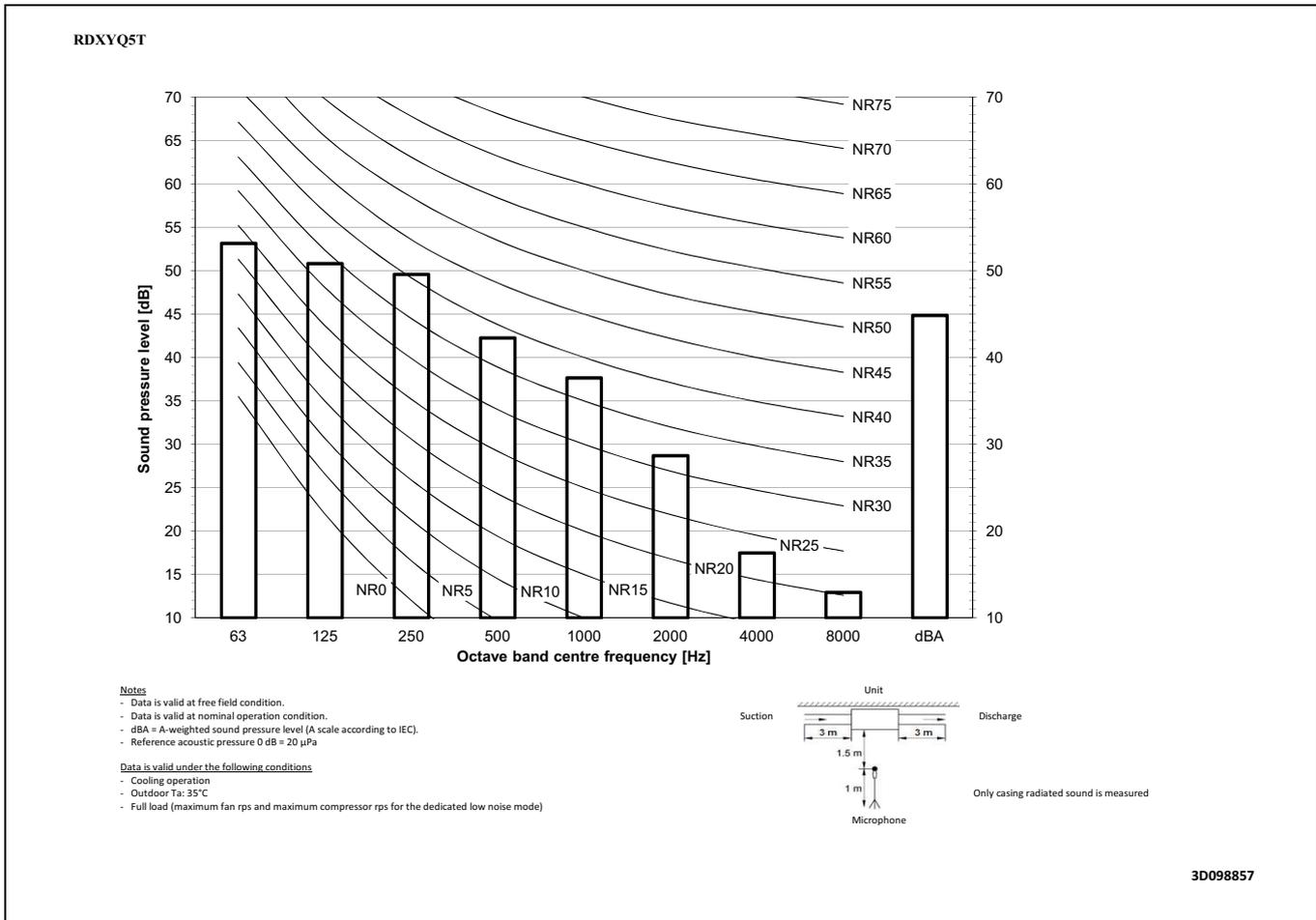
- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D098856

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

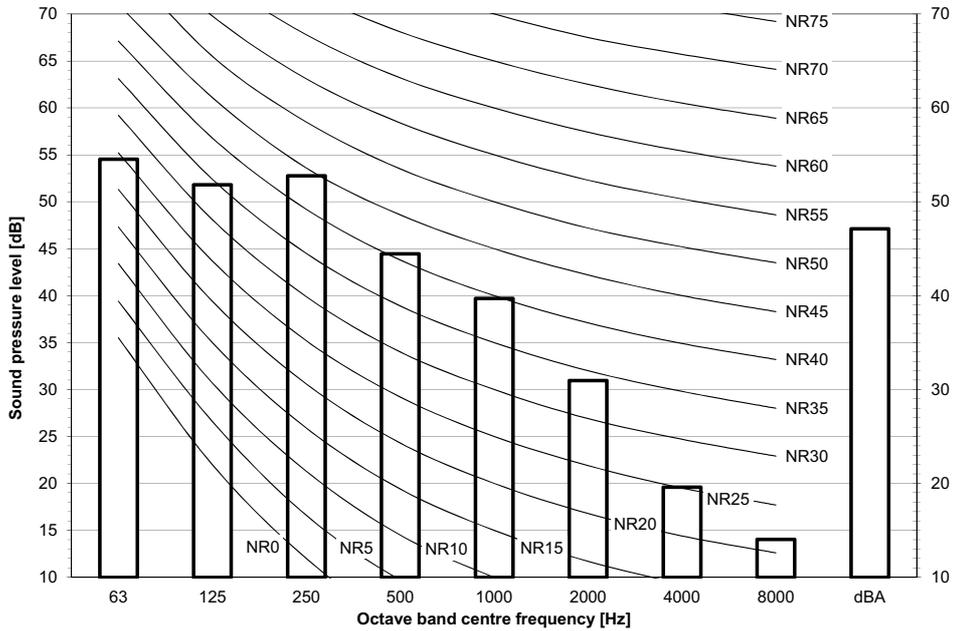


# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

11

RDXYQ5T

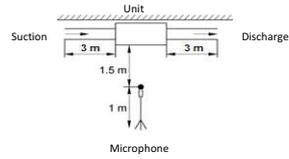


**Notes**

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

**Data is valid under the following conditions**

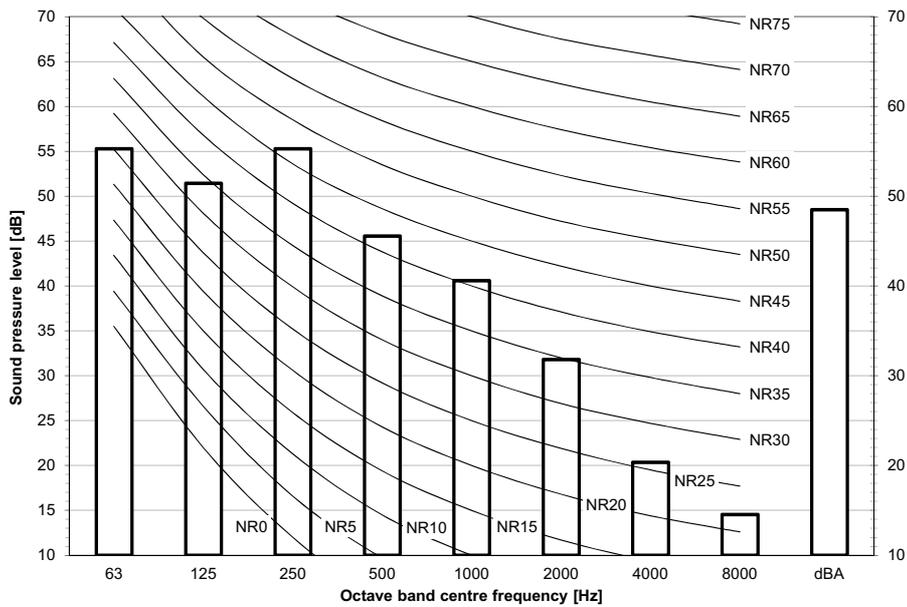
- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



Only casing radiated sound is measured

3D098859

RDXYQ5T

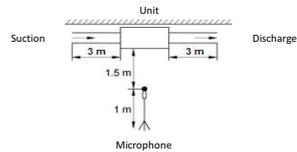


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



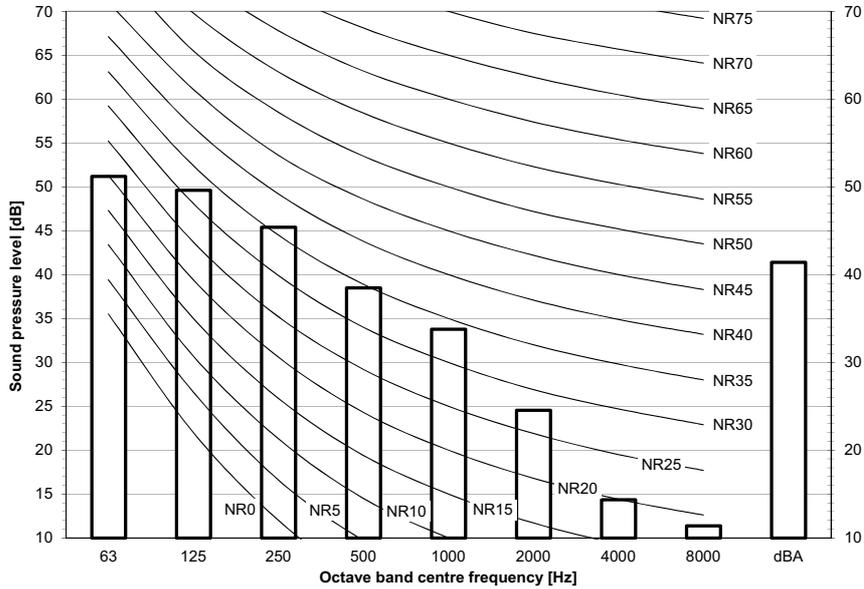
Only casing radiated sound is measured

3D098860

# 11 Sound data

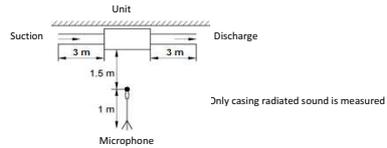
## 11 - 2 Sound Pressure Spectrum

RDXYQ5T



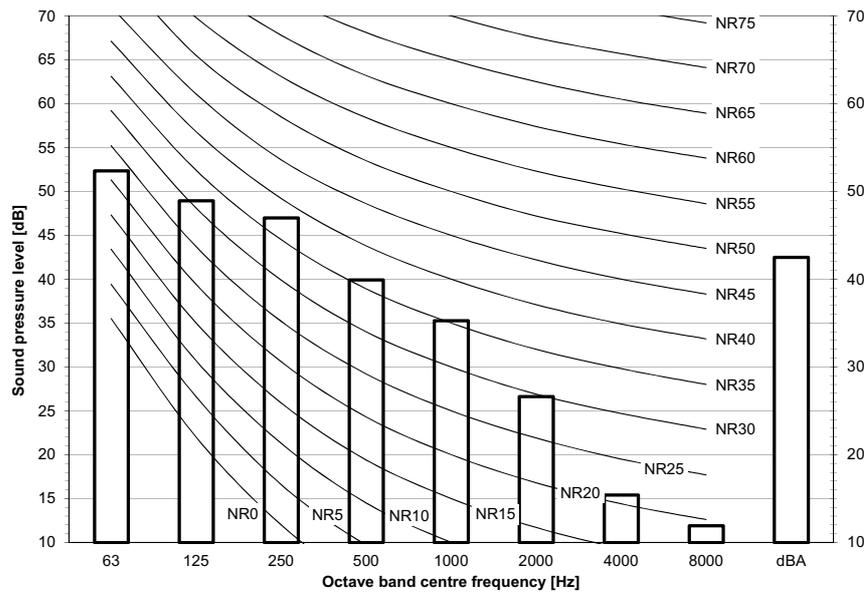
- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 μPa

- Data is valid under the following conditions**
- Cooling operation
  - Outdoor Ta: 35°C
  - Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



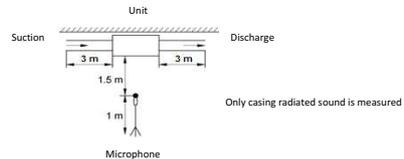
3D098861

RDXYQ5T



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

- Data is valid under the following conditions**
- Cooling operation
  - Outdoor Ta: 35°C
  - Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

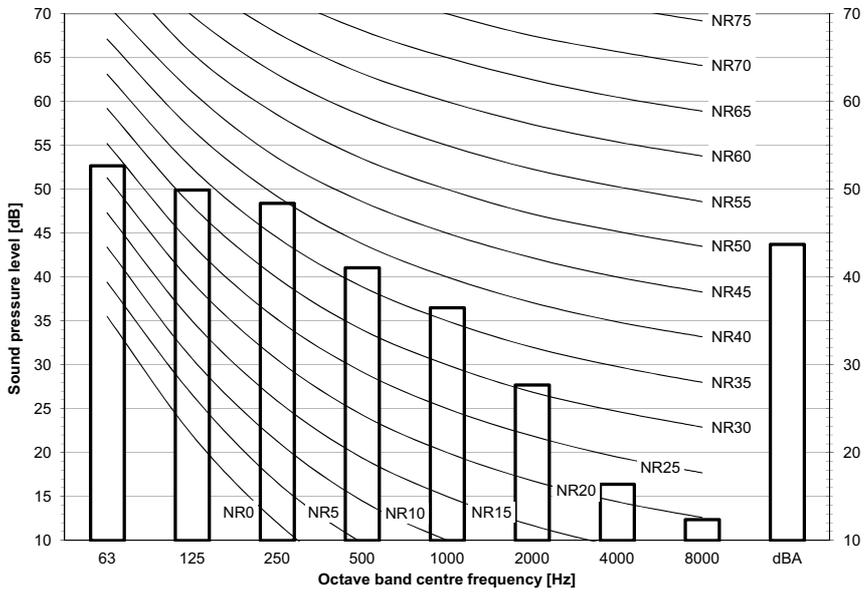


3D098862

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ5T

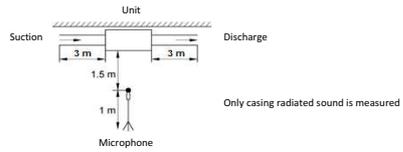


**Notes**

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

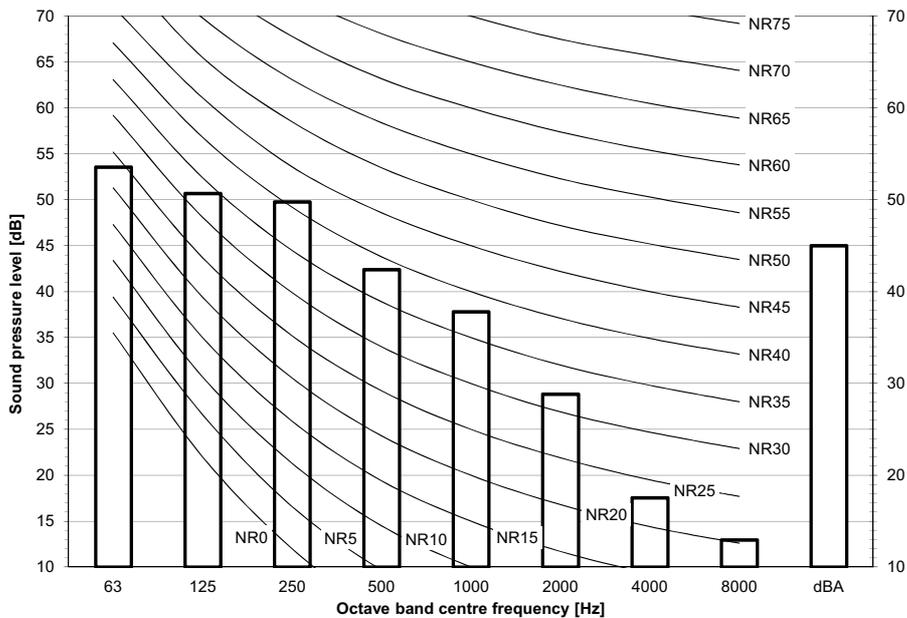
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D098863

RDXYQ5T

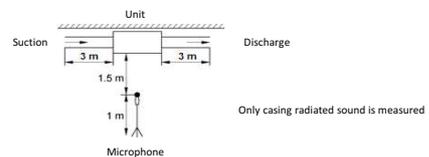


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

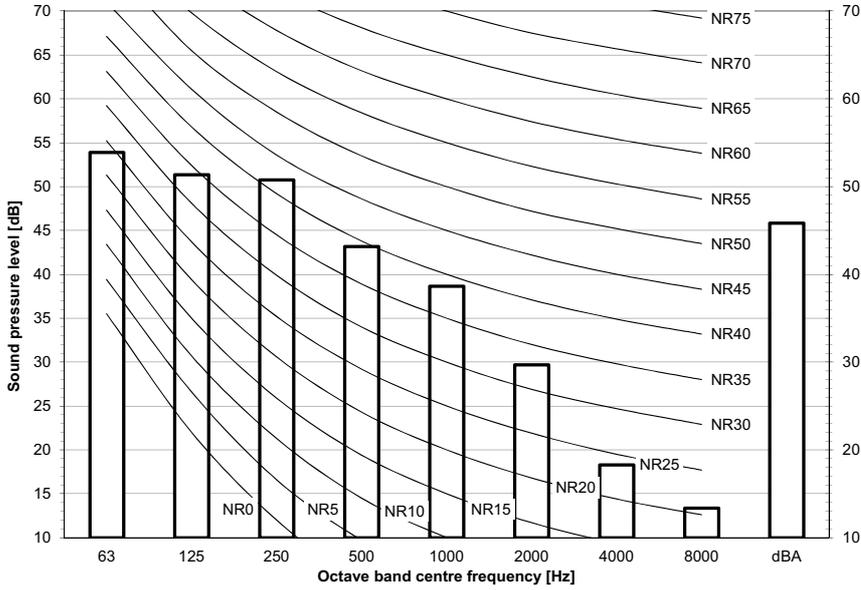


3D098864

# 11 Sound data

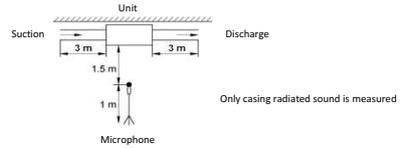
## 11 - 2 Sound Pressure Spectrum

RDXYQ5T



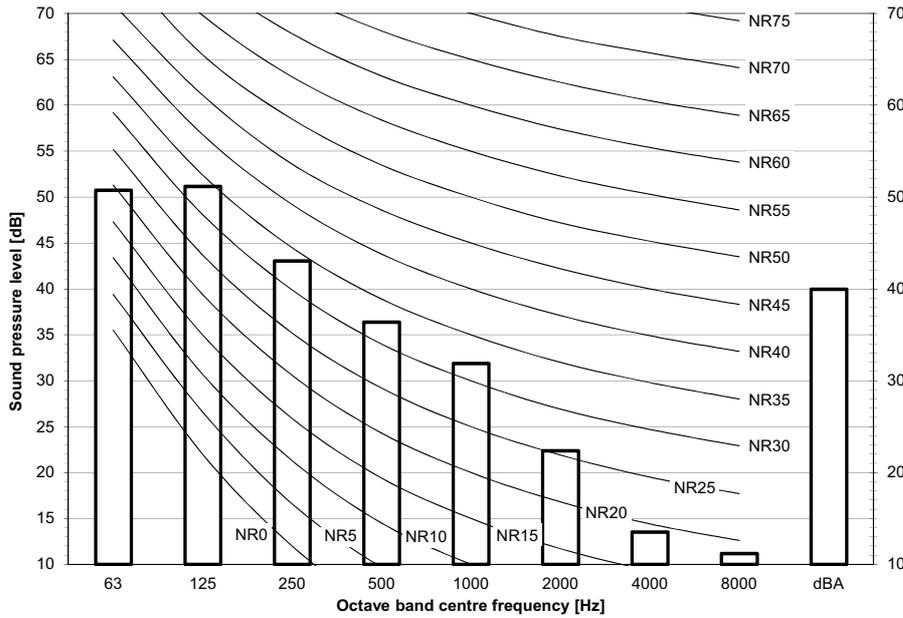
- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 µPa

- Data is valid under the following conditions**
- Cooling operation
  - Outdoor Ta: 35°C
  - Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



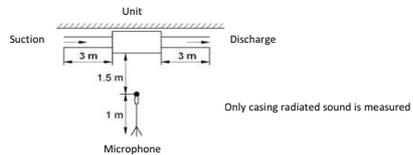
3D098865

RDXYQ5T



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

- Data is valid under the following conditions**
- Cooling operation
  - Outdoor Ta: 35°C
  - Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



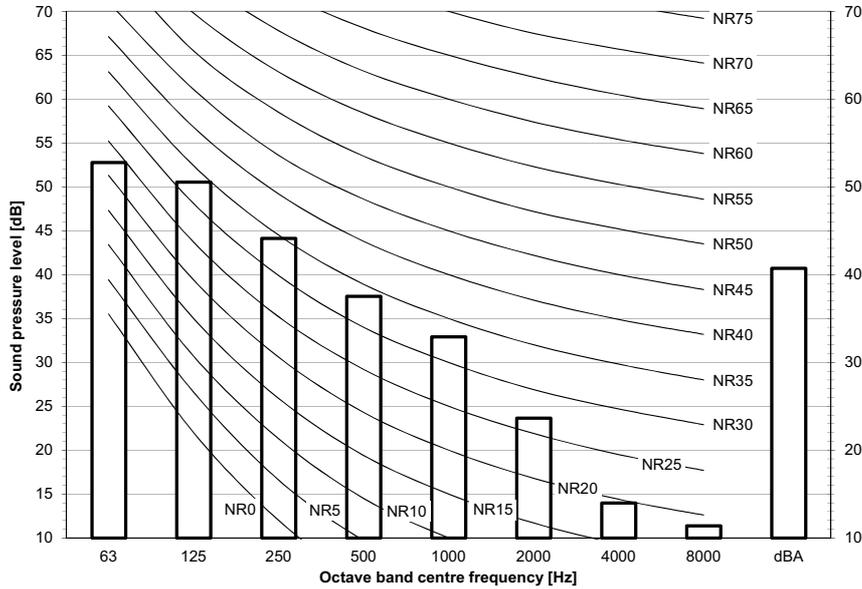
3D098866

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

11

RDXYQ5T

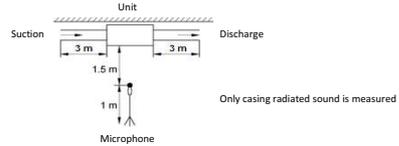


**Notes**

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

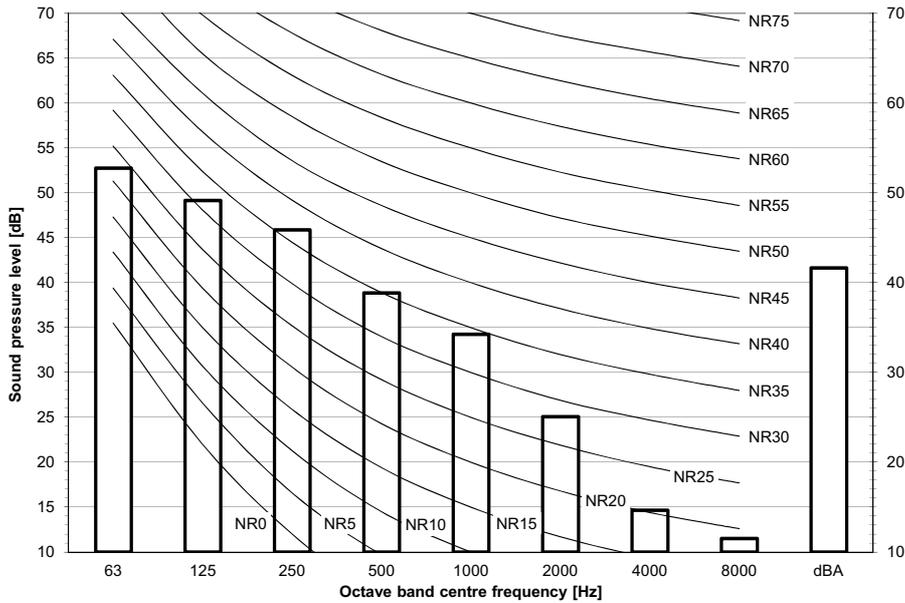
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D098867

RDXYQ5T

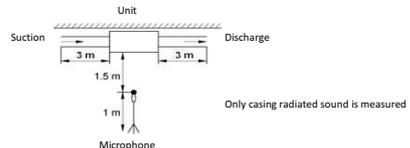


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

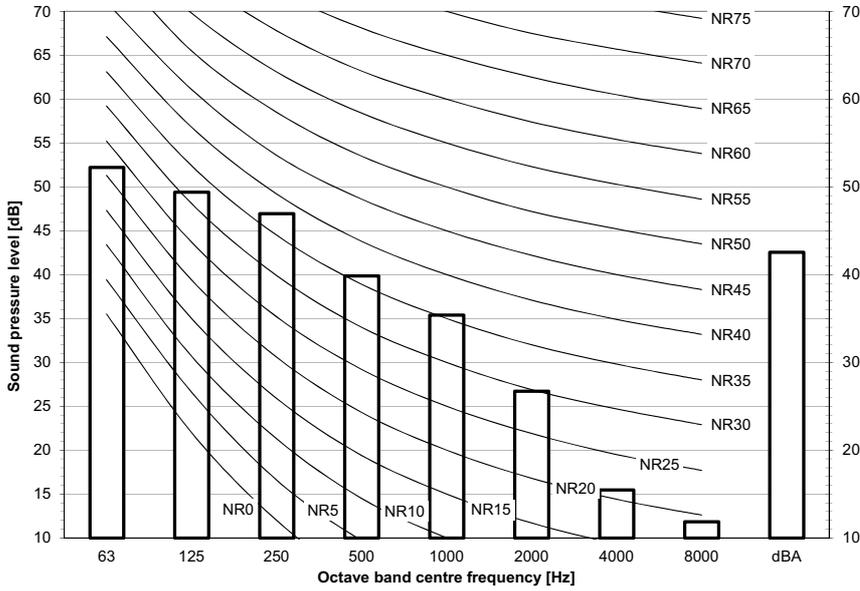


3D098868

# 11 Sound data

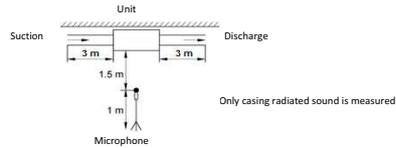
## 11 - 2 Sound Pressure Spectrum

RDXYQ5T



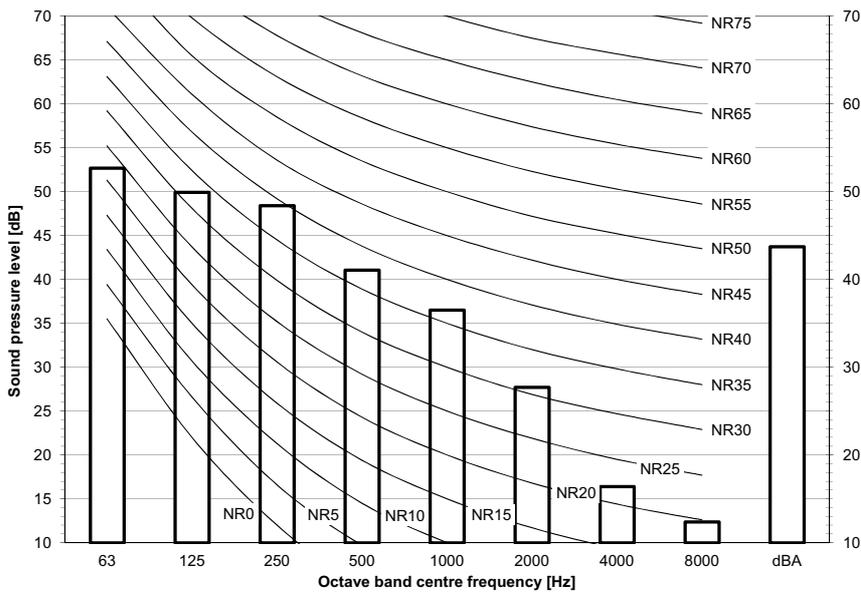
- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 μPa

- Data is valid under the following conditions**
- Cooling operation
  - Outdoor Ta: 35°C
  - Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



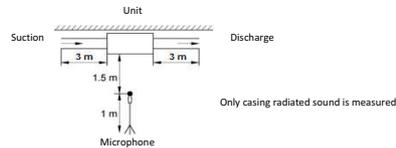
3D098869

RKXYQ5T



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

- Data is valid under the following conditions**
- Cooling operation
  - Outdoor Ta: 35°C
  - Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



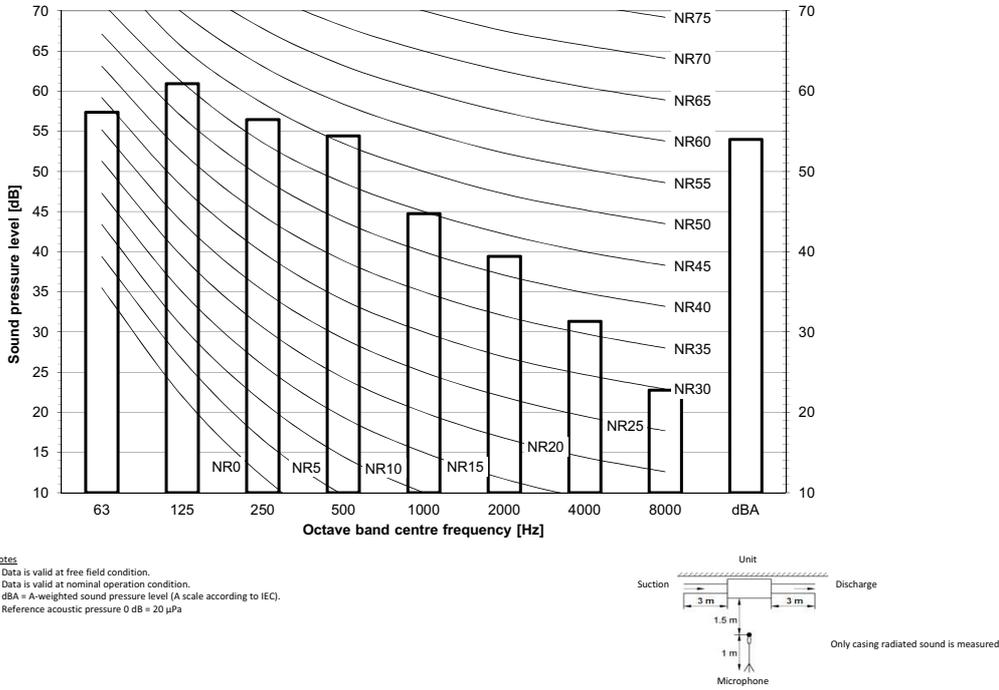
3D098870

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

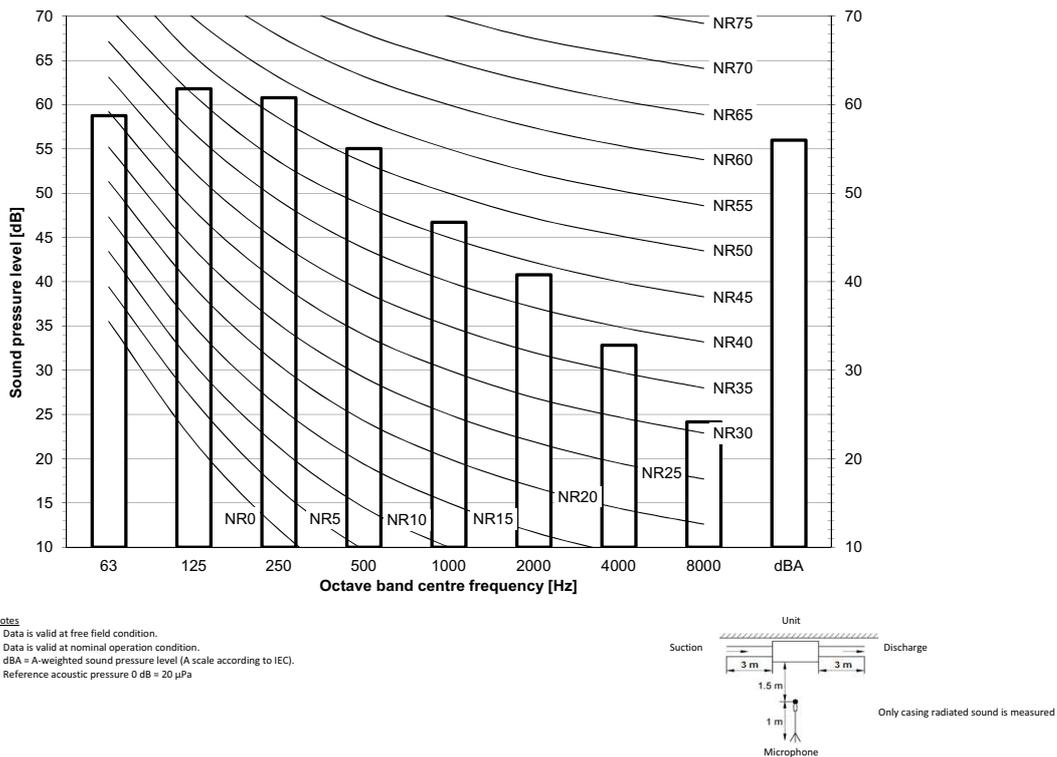
11

RDXYQ8T



3D105965

RDXYQ8T

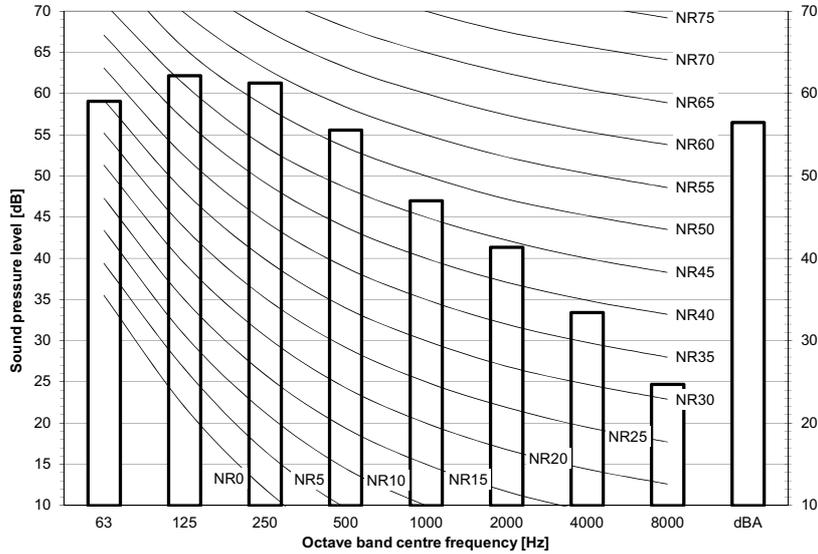


3D105966

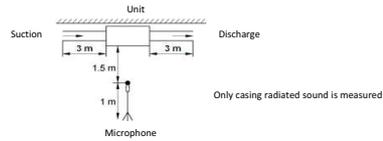
# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ8T

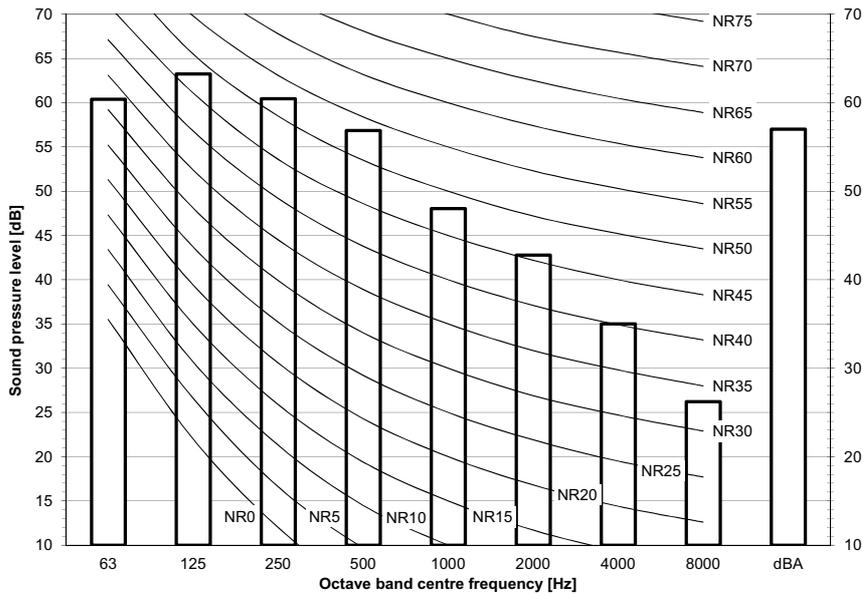


- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 µPa

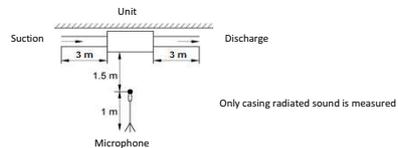


3D105967

RDXYQ8T



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

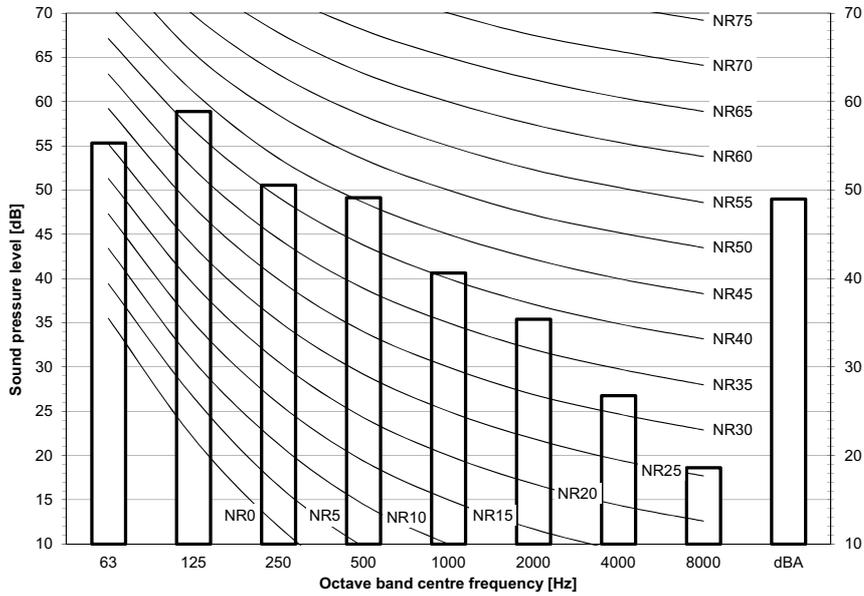


3D105968

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ8T

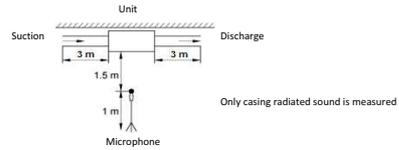


**Notes**

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

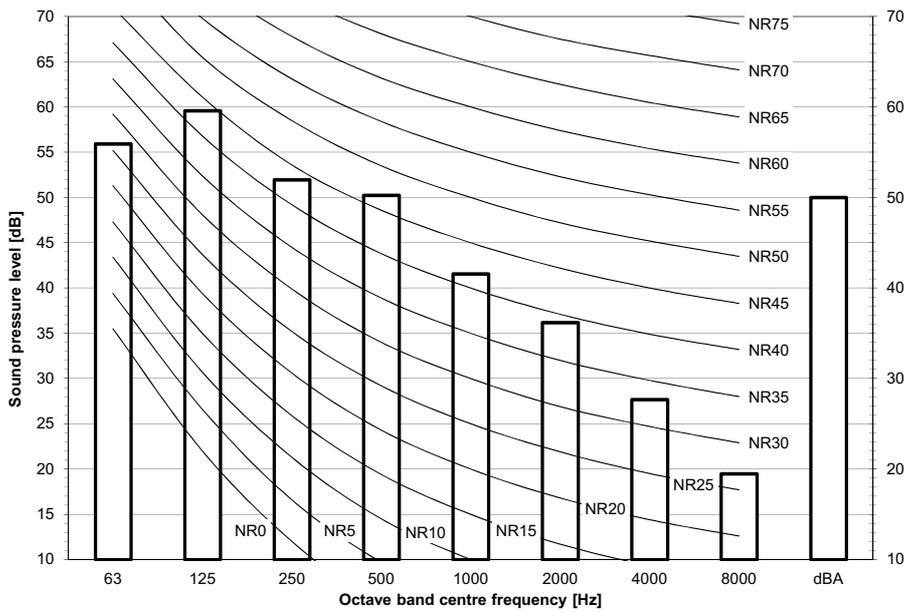
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D105969

RDXYQ8T

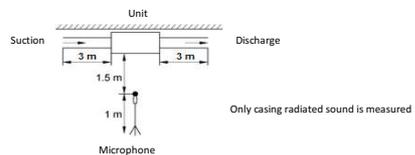


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

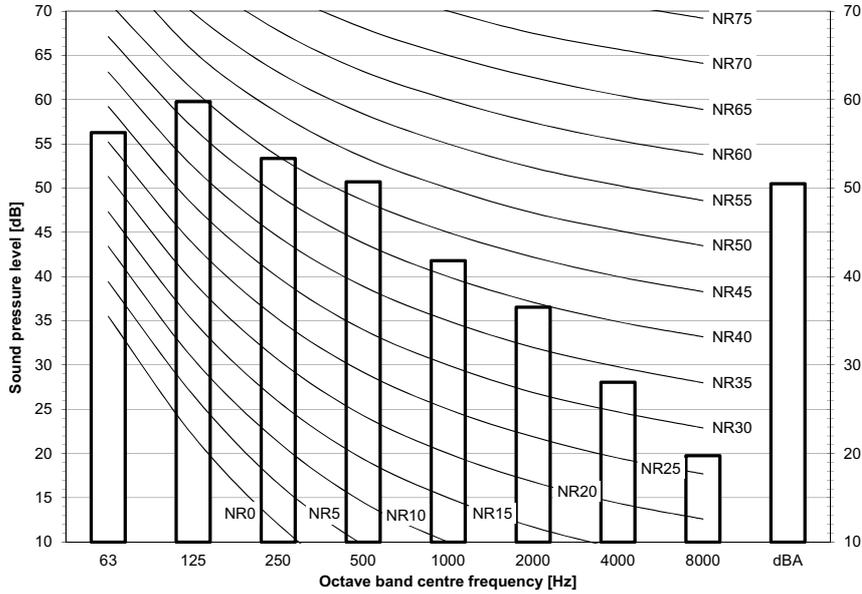


3D105970

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ8T

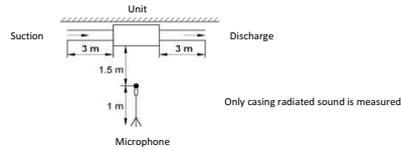


**Notes**

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

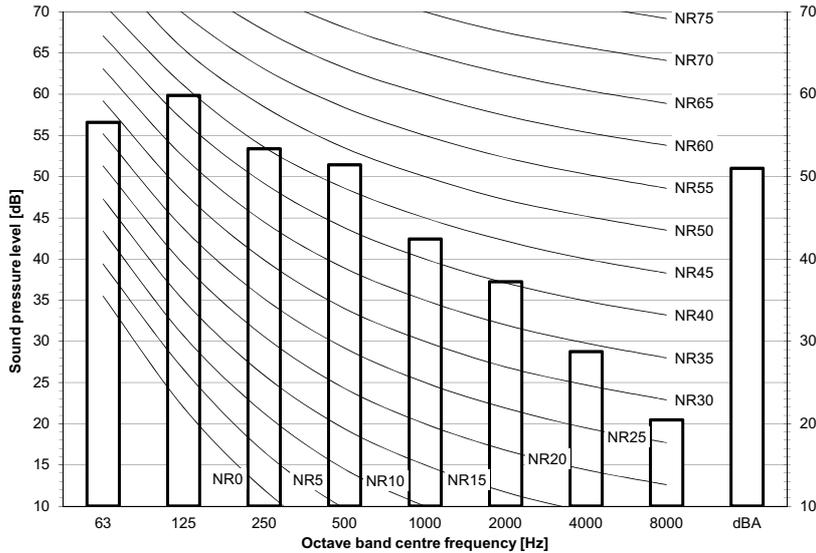
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D105971

RDXYQ8T

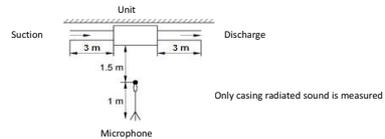


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

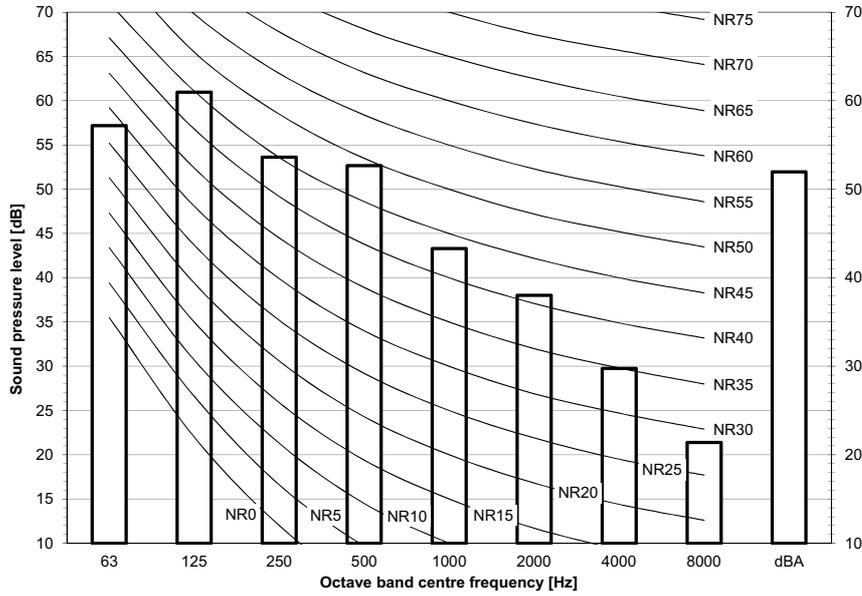


3D105972

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ8T

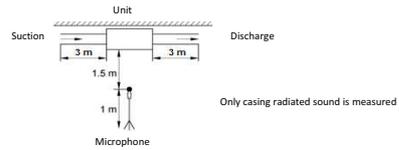


**Notes**

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

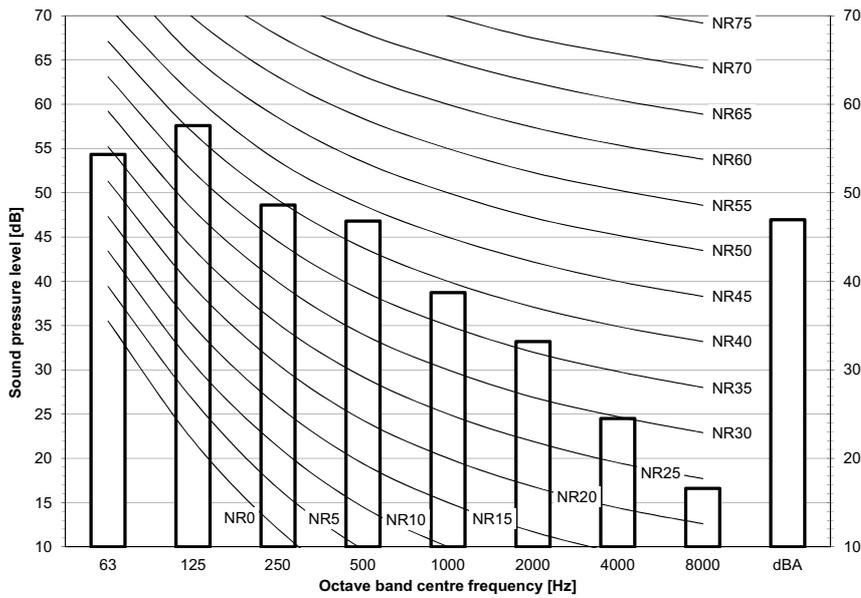
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D105973

RDXYQ8T

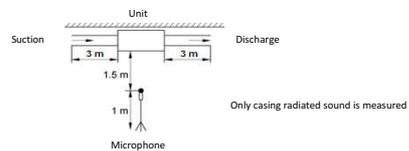


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

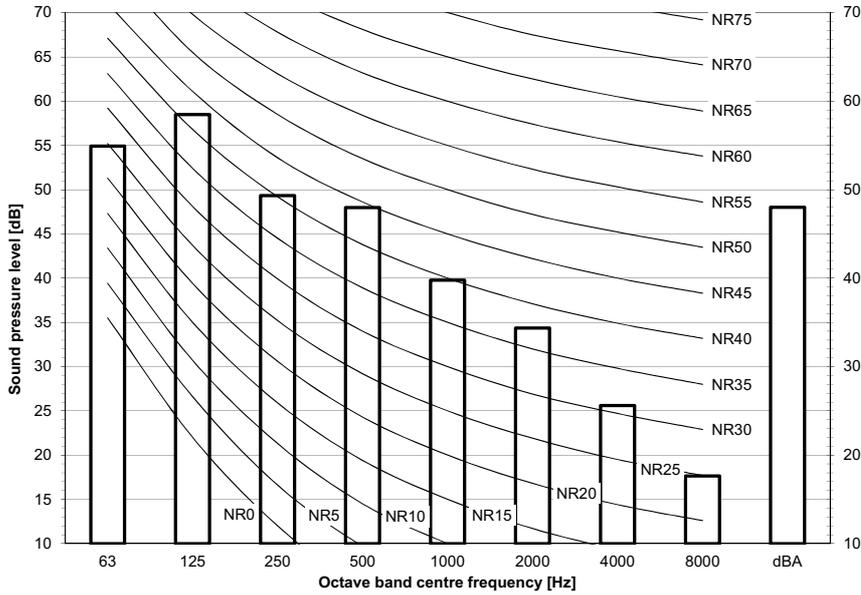


3D105974

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ8T

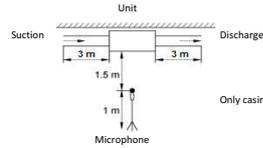


**Notes**

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

**Data is valid under the following conditions**

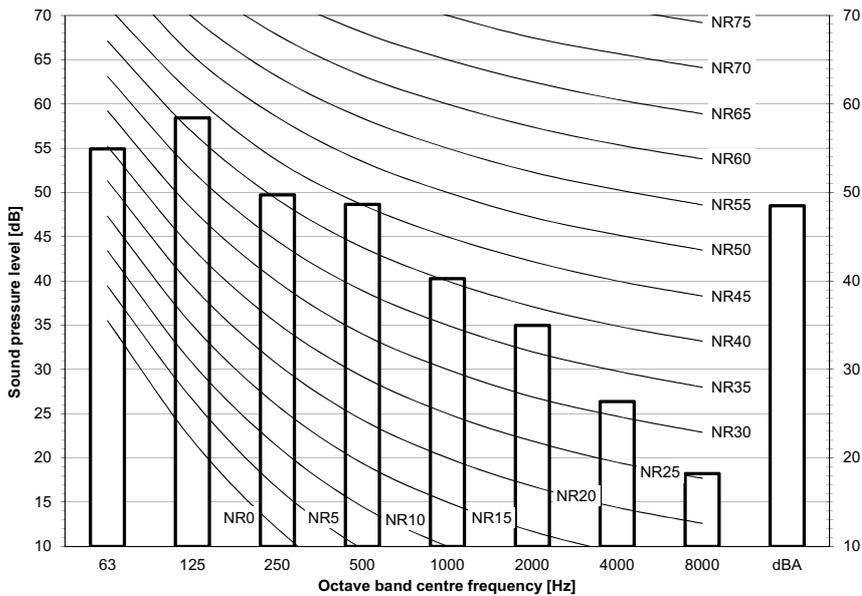
- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



Only casing radiated sound is measured

3D105975

RDXYQ8T

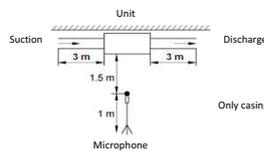


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



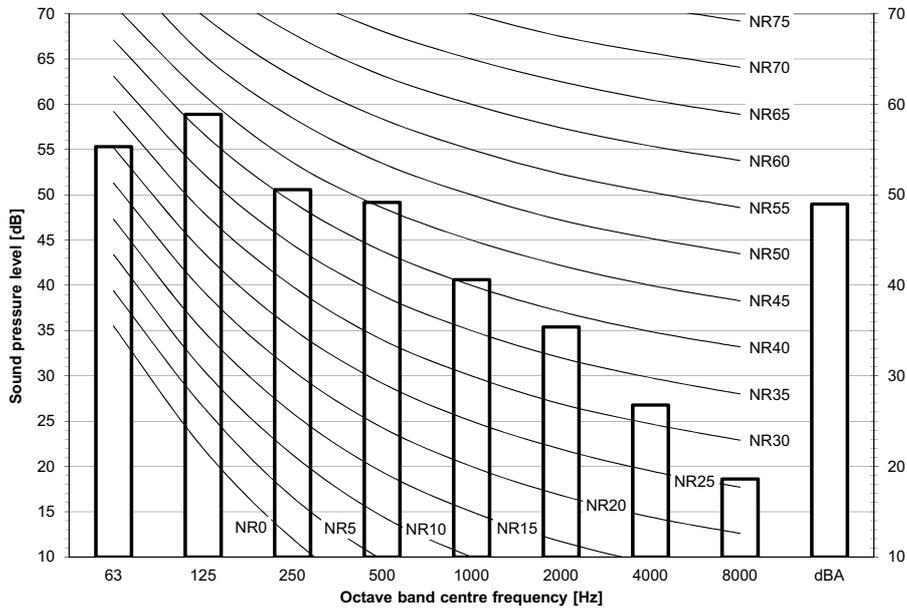
Only casing radiated sound is measured

3D105976

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ8T

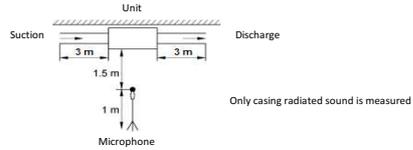


**Notes**

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

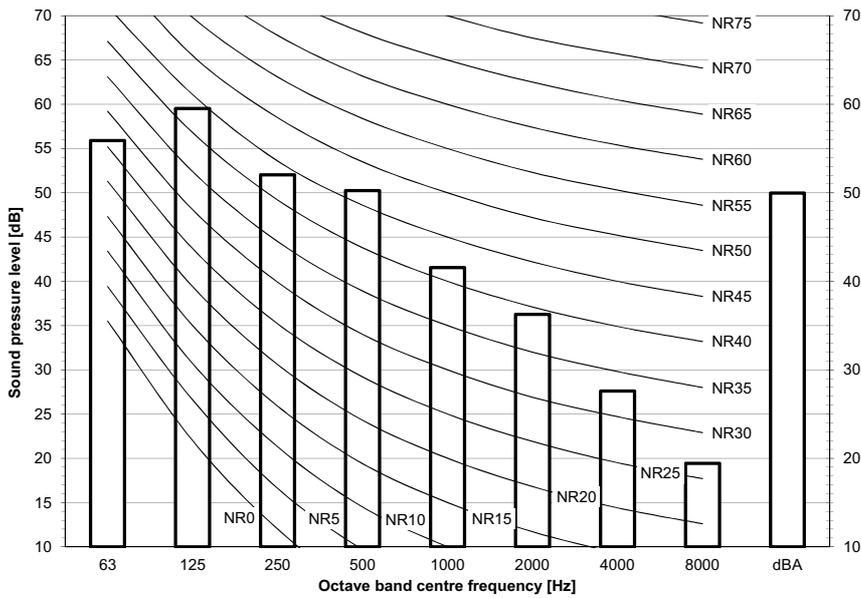
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D105977

RDXYQ8T

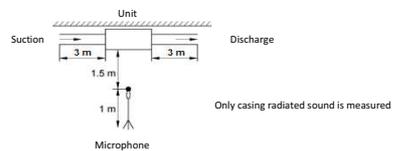


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

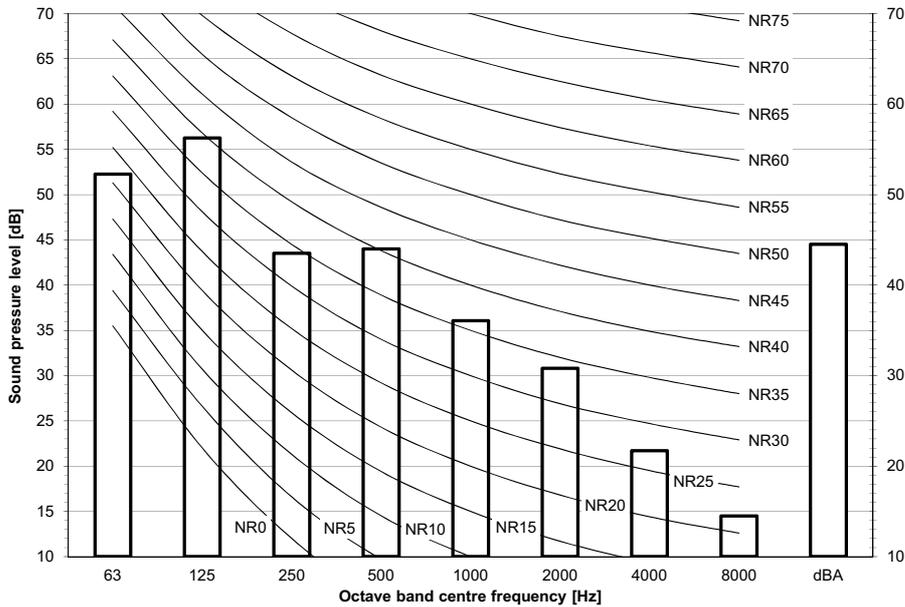


3D105978

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ8T

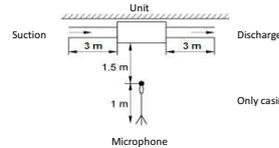


**Notes**

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

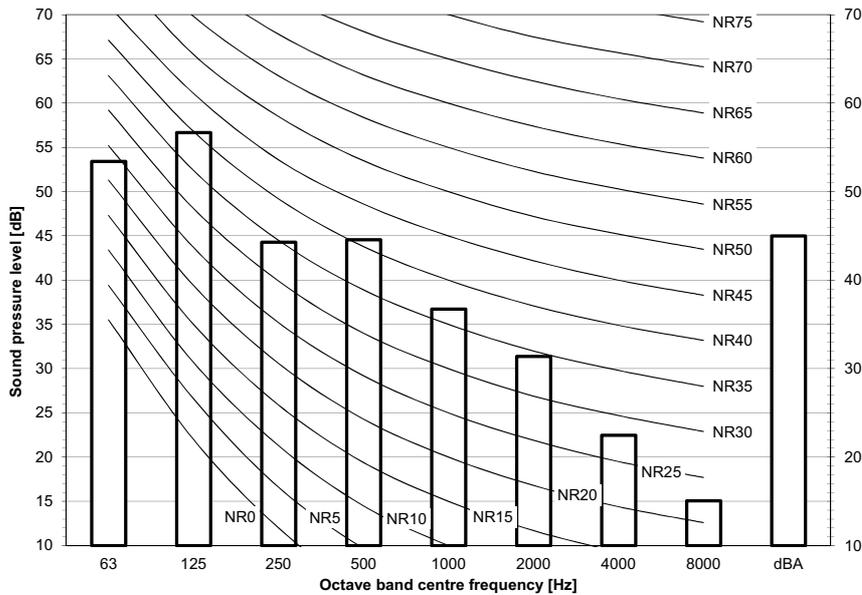
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D105979

RDXYQ8T

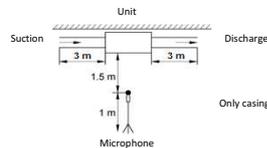


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

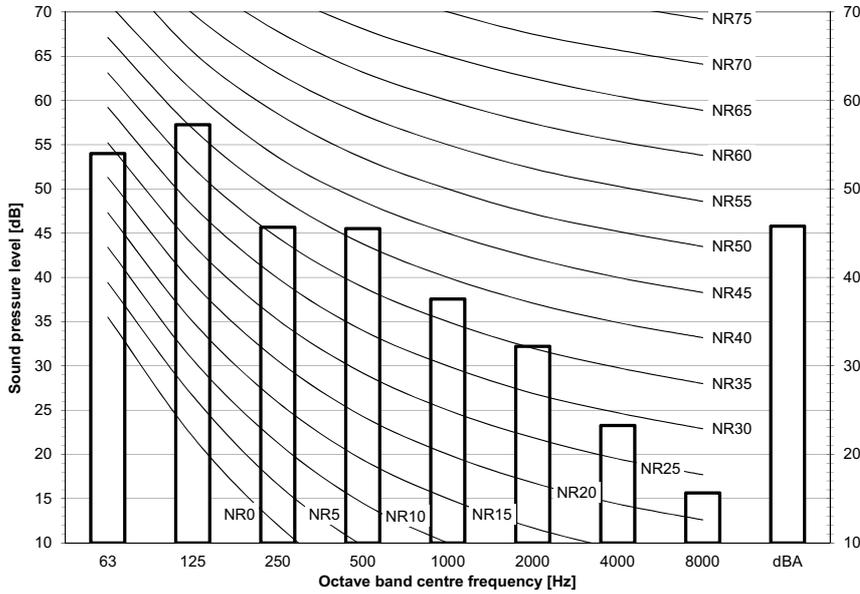


3D105980

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ8T

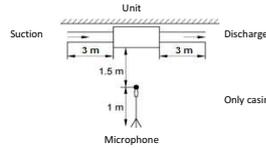


**Notes**

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

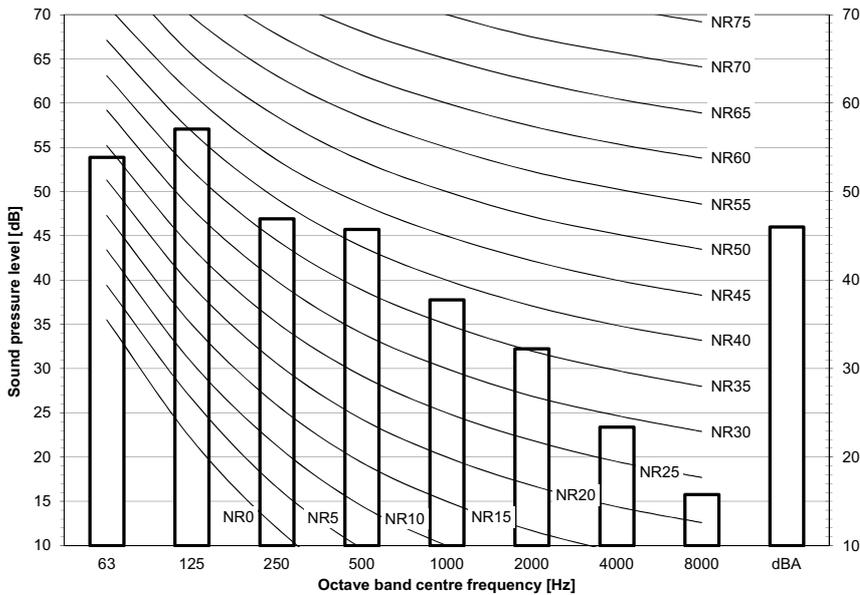
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D105981

RDXYQ8T

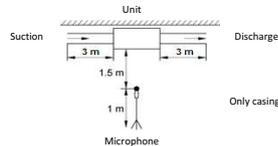


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

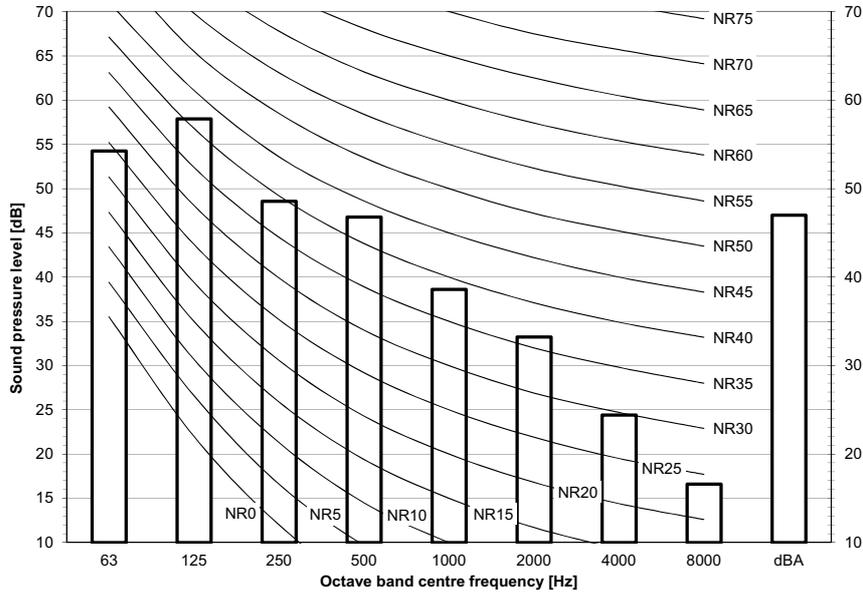


3D105982

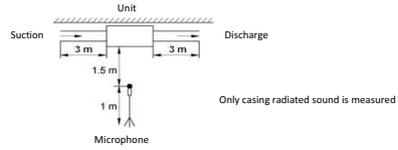
# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RDXYQ8T



- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 µPa
- Data is valid under the following conditions**
- Cooling operation
  - Outdoor Ta: 35°C
  - Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

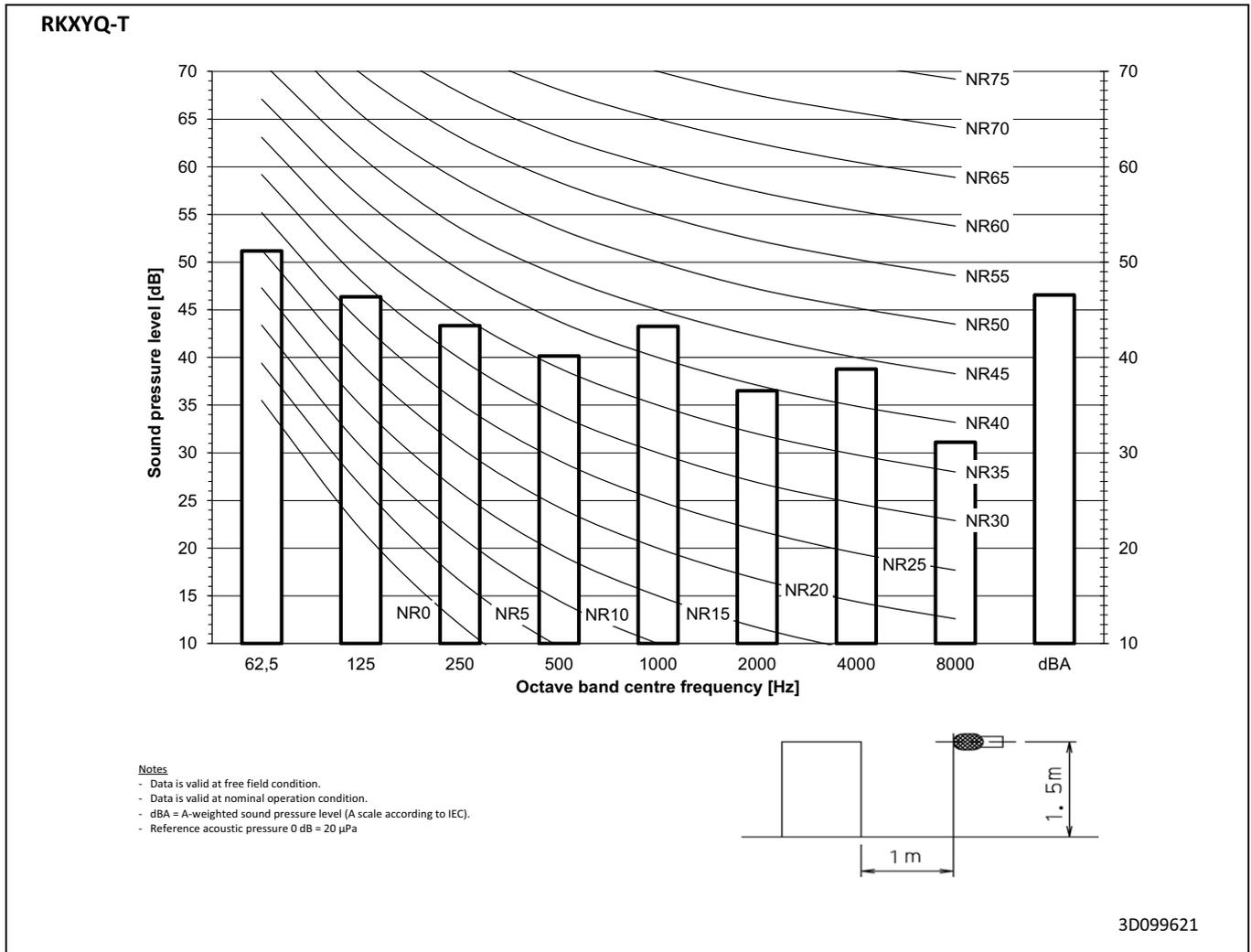


3D105983

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

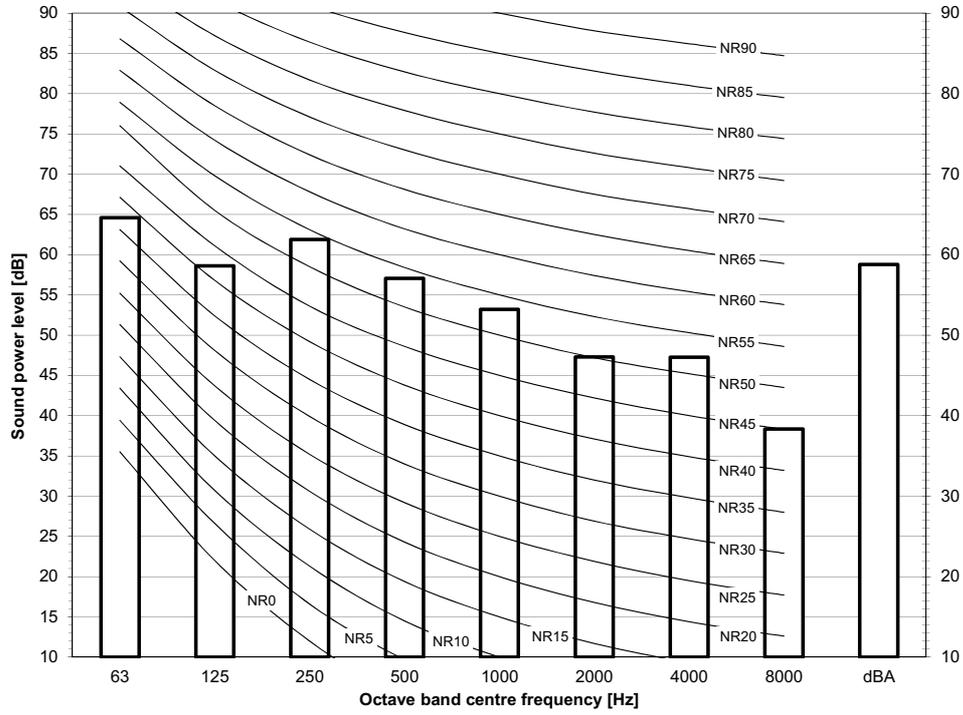
11



# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

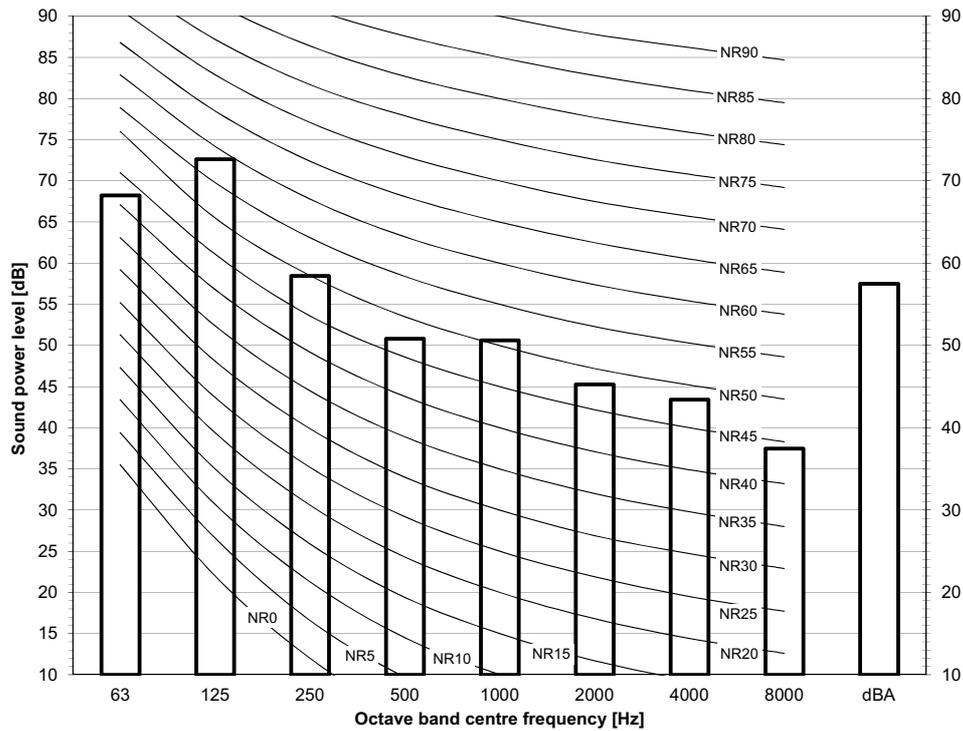
RKXYQ5T



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

3D099626

RKXYQ5T



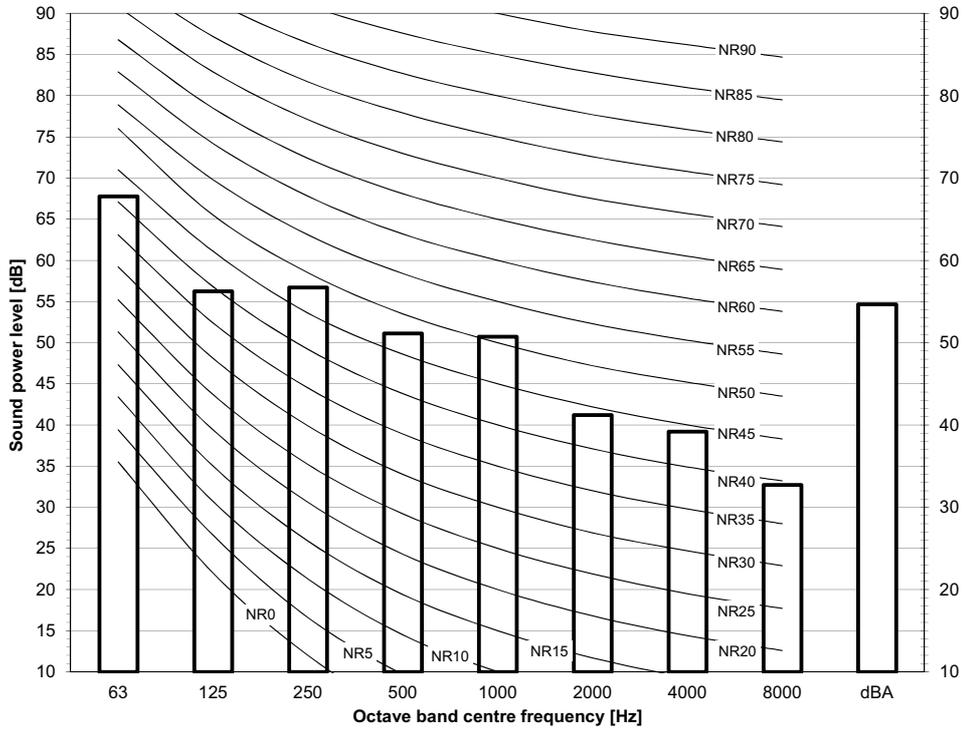
Notes  
 - dBA = A-weighted sound power level (A scale according to IEC).  
 - Reference acoustic intensity 0dB = 10E-6μW/m²  
 - Measured according to ISO 3744

3D099627

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

RKXYQ5T

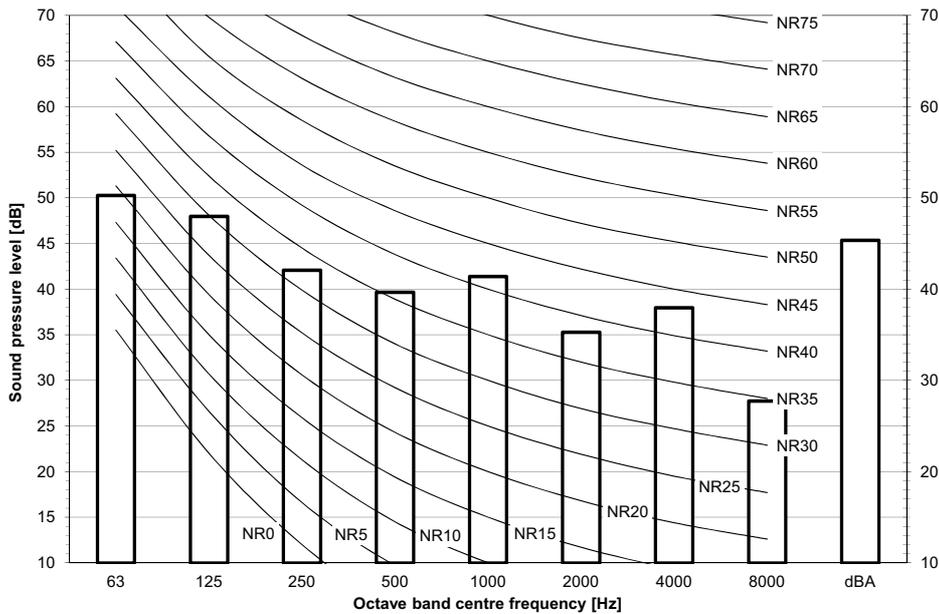


**Notes**

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

3D099628

RKXYQ5T

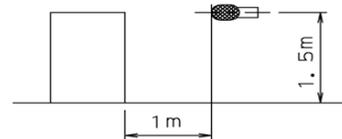


**Notes**

- 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  $0\text{ dB} = 20\mu\text{Pa}$

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

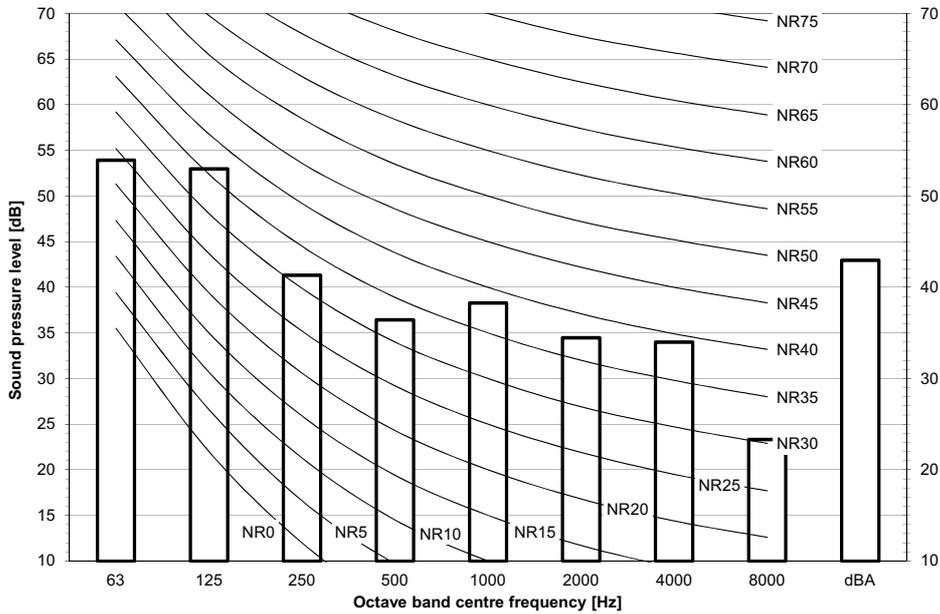


3D099622

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

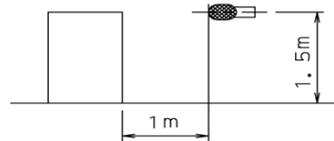
RKXYQ5T



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

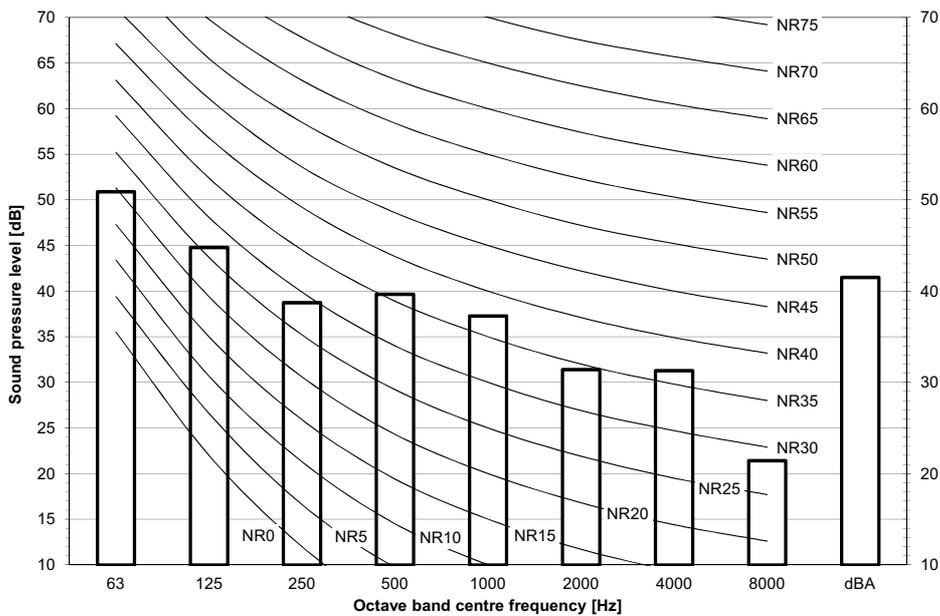
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



3D099623

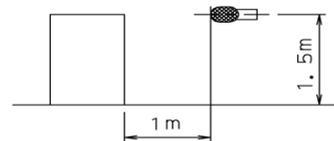
RKXYQ5T



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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C
- Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)



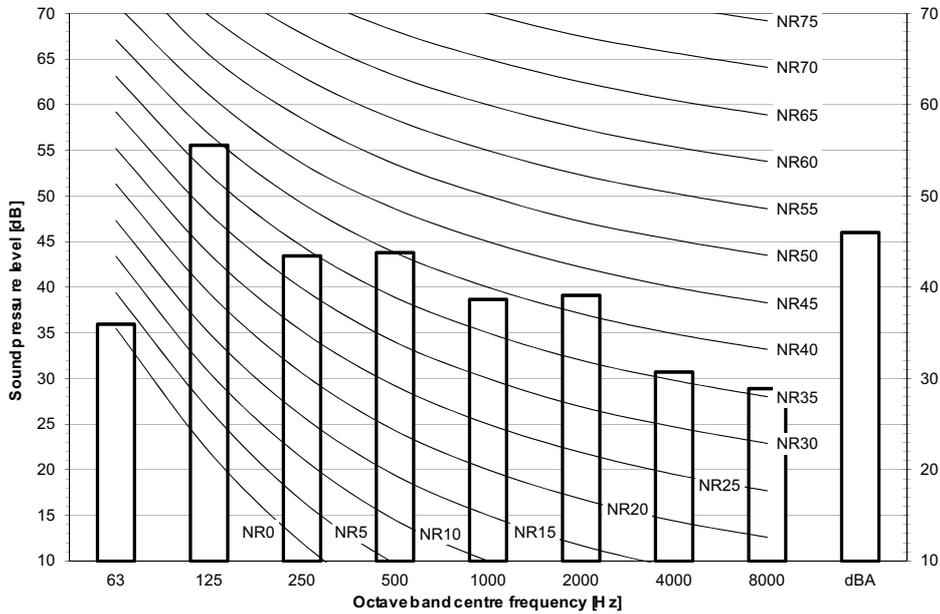
3D099624

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

11

RKXYQ8T

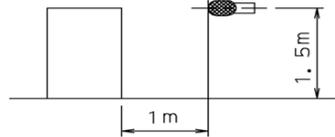


**Notes**

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

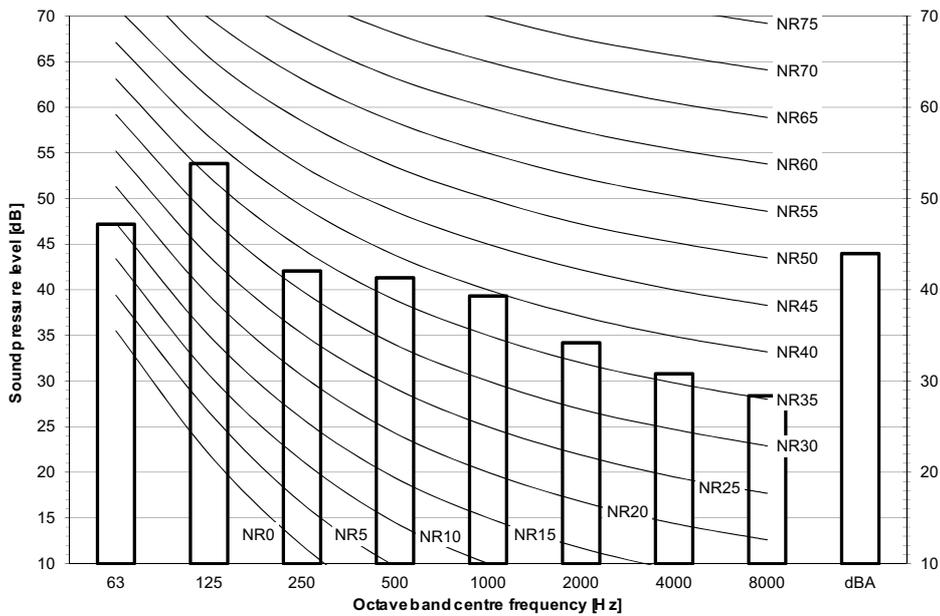
**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C



3D10015

RKXYQ8T

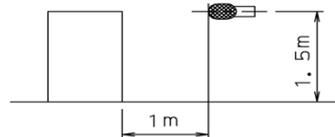


**Notes**

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

**Data is valid under the following conditions**

- Cooling operation
- Outdoor Ta: 35°C

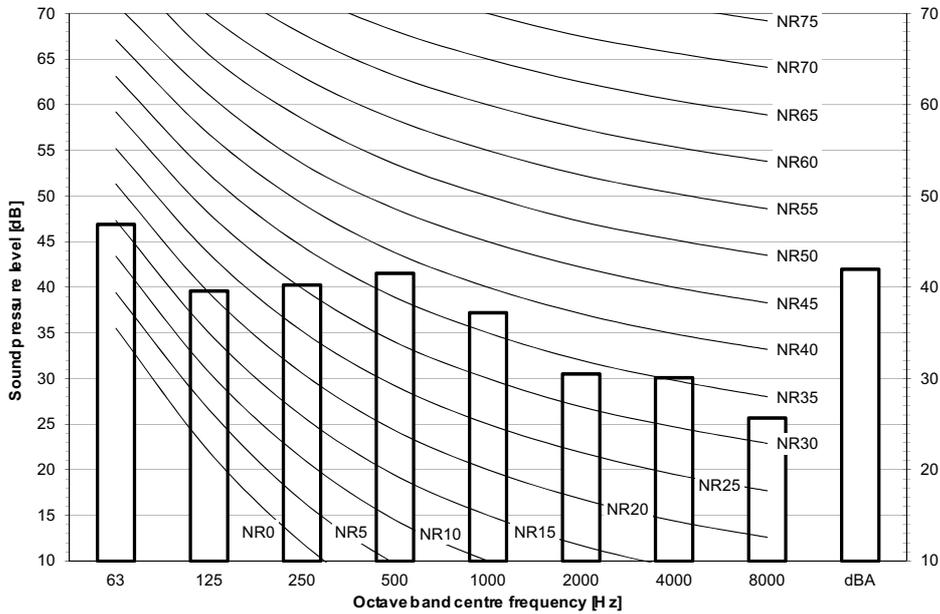


3D10016

# 11 Sound data

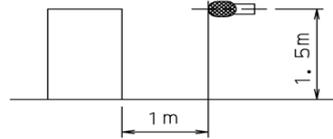
## 11 - 2 Sound Pressure Spectrum

RKXYQ8T



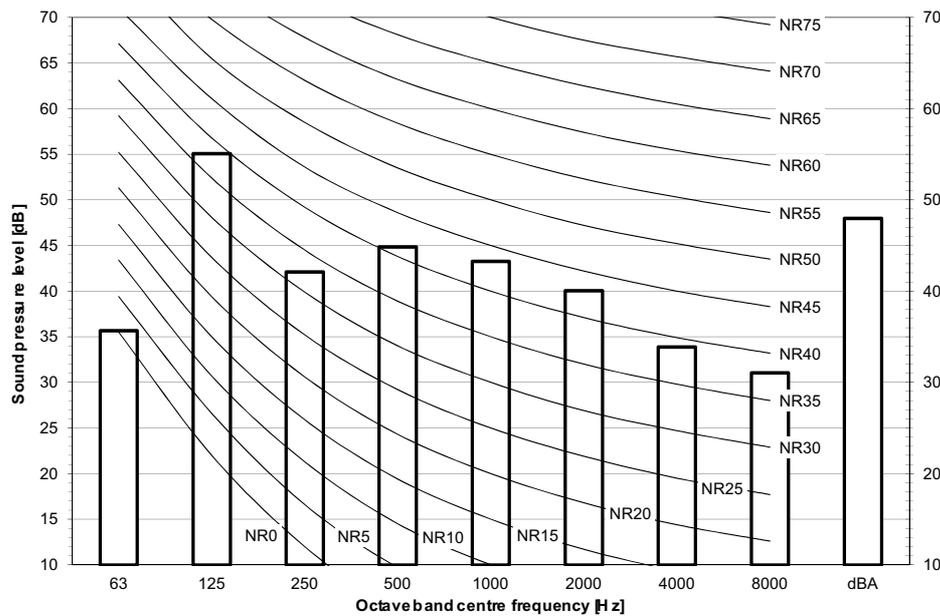
- Notes**
- Data is valid at free field condition.
  - Data is valid at nominal operation condition.
  - dBA = A-weighted sound pressure level (A scale according to IEC).
  - Reference acoustic pressure 0 dB = 20 µPa

- Data is valid under the following conditions**
- Cooling operation
  - Outdoor Ta: 35°C



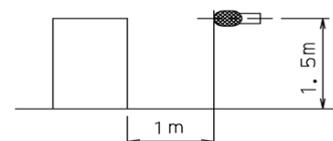
3D10017

RKXYQ8T



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

- Data is valid under the following conditions**
- Cooling operation
  - Outdoor Ta: 35°C



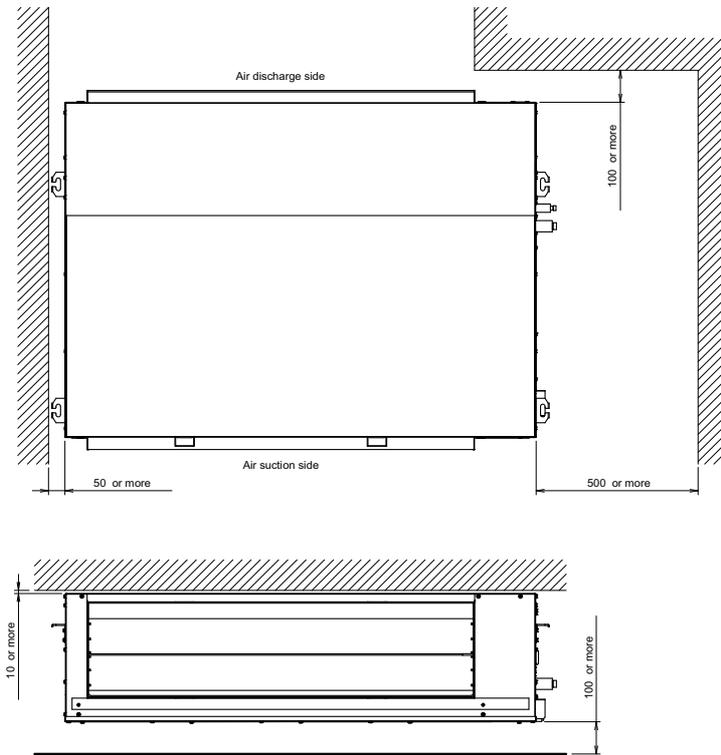
3D106018

# 12 Installation

## 12 - 1 Installation Method

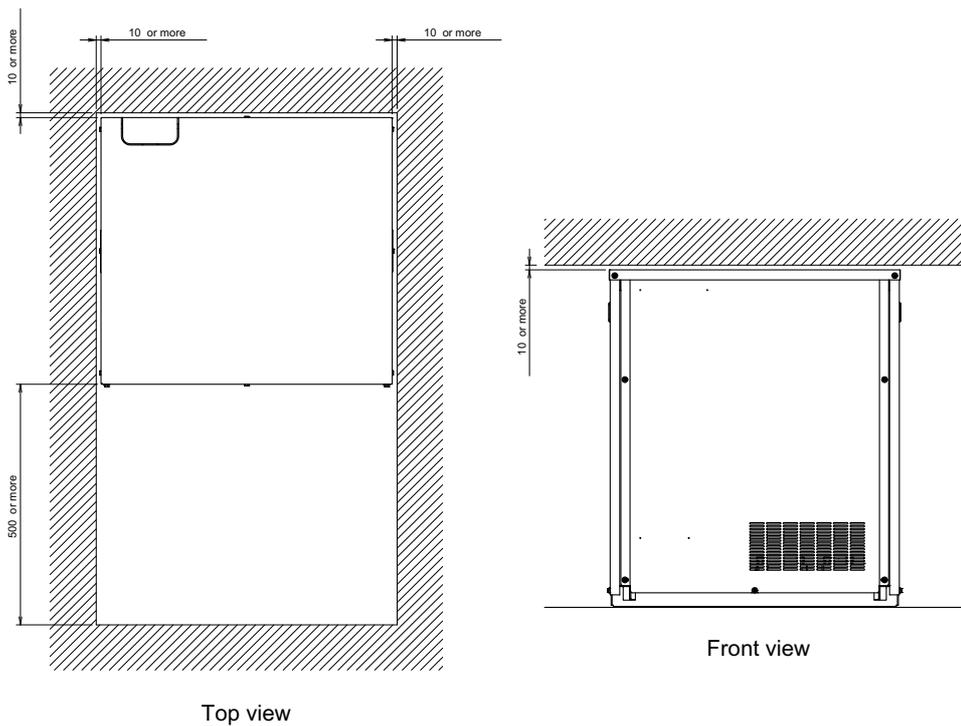
12

RDXYQ5T



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SB.RKXYQ-T



3D098835

# 12 Installation

## 12 - 2 Refrigerant Pipe Selection

SB.RKXYQ-T

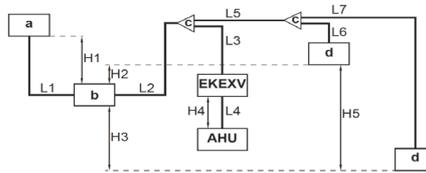
VRV4-i  
Heat pump  
Piping restrictions

Actual a ↔ b		Maximum piping length [m]				EKEV ↔ AHU	
		Longest pipe		After first branch			
		Actual / (Equivalent)	Actual / (Equivalent)	Actual			
		b ↔ d	c ↔ d/AHU				
L1	30	L2+L3+L4	70/(90)	L3+L4	40	L4	5
		L2+L5+L6	70/(90)	L5+L6	40		
		L2+L5+L7	70/(90)	L5+L7	40		

See note 1.

Maximum height difference [m]					
a ↔ b		b ↔ d		d ↔ d	
H1	±10	H2	±30	H5	±15
		H3	±30	H4	±5

Model	Total piping length [m]	
	a ↔ b	a ↔ b + b ↔ d
VRV4-i SHP	L1	L1+L2+L3+L4+L5+L6+L7
	30	115
	25	140
	20	125
	15	130
VRV4-i BHP	10	135
	5	140
	-	300



a: Heat exchanger unit  
b: Compressor unit  
c: Refrigerant branch kit  
d: VRV DX indoor unit  
EKEV: Expansion valve kit  
AHU: Air handling unit (AHU)  
H1-H5: Height difference  
L1-L7: Piping length

Notes

1. VRV4-i SHP:

If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).  
If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

2. VRV4-i BHP:

If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).  
If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90m, you MUST increase the size of the main liquid pipe (between compressor unit and first refrigerant branch kit).

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# 13 Operation range

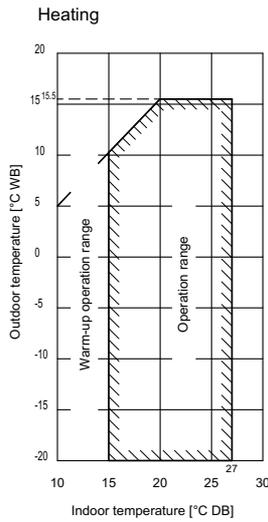
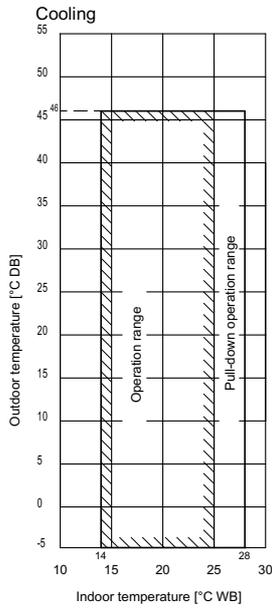
## 13 - 1 Operation Range

13

### SB.RKXYQ-T

Notes

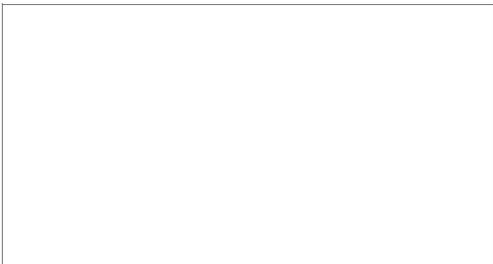
- These figures assume the following operation conditions  
 Equivalent piping length: 10m  
 Level difference: 0m
- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the heat exchanger unit in a location not exposed to wind.
- If the outdoor temperature can drop below  $-7^{\circ}\text{C}$  for more than 24 hours, it is recommended to install drain pan heater kit \_\_\_\_\_ (EKJDPH1RDX)\_\_\_\_\_.



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EEDEN 08/16



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