

# Wall mounted unit Technical data book FTXM-R



FTXM20R2V1B  
FTXM20R5V1B  
FTXM25R2V1B  
FTXM25R5V1B  
FTXM35R5V1B  
FTXM35R2V1B  
FTXM42R2V1B  
FTXM42R5V1B  
FTXM50R2V1B  
FTXM60R2V1B  
FTXM71R2V1B



# Table of contents

# FTXM-R

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1	<b>Features</b>	4
	FTXM-R	4
2	<b>Specifications</b>	6
3	<b>Options</b>	9
4	<b>Dimensional drawings</b>	10
5	<b>Centre of gravity</b>	12
6	<b>Piping diagrams</b>	14
7	<b>Wiring diagrams</b>	17
	Wiring Diagrams - Single Phase	17
8	<b>Sound data</b>	18
	Sound Power Spectrum	18
	Sound Pressure Spectrum	25

# 1 Features




























## 1 - 1 FTXM-R

### Attractive, wall mounted design with perfect indoor air quality

1

- › Seasonal efficiency values up to A+++ in cooling and heating
- › Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- › Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- › Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- › Daikin Residential controller: control your indoor from any location with an app, via your local network or internet.
- › Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- › Quiet operation: down to 19dBA sound pressure level
- › 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces
- › 2-area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting. (larger capacity area)



 Practically inaudible	 Heat boost	 Daikin Residential Controller	 Econo mode	 2 area motion detection sensor	 Energy saving during standby mode	 Night set mode	 Fan only	 Comfort mode
 Powerful mode	 Auto cooling-heating changeover	 Indoor unit silent operation	 Outdoor unit silent operation	 3-D air flow	 Vertical auto swing	 Horizontal auto swing	 Auto fan speed	 Fan speed steps
 Dry programme	 Silver allergen removal and air purifying filter	 Flash Streamer	 Titanium apatite deodorising filter	 Air filter	 Weekly timer	 24 hour timer	 Infrared remote control	 Wired remote control

# 1 Features

1 - 1 FTXM-R



Centralised control



Auto-restart



Self diagnosis



Multi model application

## 2 Specifications

### 1 - 1 FTXM-R

2

Technical specifications				FTXM20R	FTXM20R	FTXM25R	FTXM25R	FTXM35R	FTXM35R	
Power input	Cooling	Nom.	kW	0.029		0.025		0.030		
	Heating	Nom.	kW	0.023		0.022		0.027		
Casing	Colour	White								
Dimensions	Unit	Height	mm	295						
		Width	mm	778						
		Depth	mm	272						
	Packed unit	Height	mm	350						
		Width	mm	865						
		Depth	mm	375						
Weight	Unit	kg		10.0						
	Packed unit	kg		12.0						
Packing	Weight		kg	2.0						
	Length		mm	610						
Heat exchanger	Rows	Quantity	2							
	Fin pitch		mm	1.4						
	Stages	Quantity	18							
	Passes	Quantity	2.2		3.0					
	Tube type		ø5 Hi-XB							
	Fin Type		ML fin (Multi louver)							
	Heat exchanger 2	Length		mm	600					
		Rows	Quantity	1						
Fin pitch		mm	1.4							
Stages		Quantity	8							
Heat exchanger 3	Length		mm	-		600				
	Rows	Quantity	-							
	Fin pitch		mm	-		1.4				
	Stages	Quantity	-		4					
Fan	Type		Cross flow fan							
	Air flow rate	Cooling	High	m <sup>3</sup> /min	10.5				11.3	
			cfm	370				400		
		Medium	m <sup>3</sup> /min	7.5	7.6				7.8	
		cfm	264	267				274		
	Low	m <sup>3</sup> /min	5.7						6.0	
		cfm	200	202				210		
		Silent operation	m <sup>3</sup> /min	4.3	4.1				4.2	
cfm		151	146				150			
Fan	Air flow rate	Heating	High	m <sup>3</sup> /min	9.3	9.8				
			cfm	329	345					
		Medium	m <sup>3</sup> /min	8.2	8.0		8.5			
		cfm	288	283		299				
	Low	m <sup>3</sup> /min	6.2	6.3				6.5		
		cfm	220	222				230		
		Silent operation	m <sup>3</sup> /min	5.1	4.9					
		cfm	179	174						
Fan motor	Model		MM6K11Y32VA							
	Speed	Steps	5 + silent, + auto							
Sound power level	Cooling	High	rpm	1,060	1,070		1,140			
			rpm	800	820		840			
		Low	rpm	640	660		680			
			Silent operation	rpm	520		530			
	Heating	High	rpm	960	1,010		900			
			rpm	860		730				
		Low	rpm	690	710		730			
			Silent operation	rpm	590		530			
Output	Rated		W		22					
	Cooling		dBA		57		58			
Sound pressure level	Cooling	High	dBA	41		45				
			dBA	33		29				
		Low	dBA	25		19				
			Silent operation	dBA	19		39			
	Heating	High	dBA	34		35				
			dBA	26	27		28			
		Low	dBA	26		20				
			Silent operation	dBA	20					
Refrigerant	Type		R-32							
Piping connections	Liquid	OD	mm	6.35						
		Gas	OD	mm	9.50					
	Drain		18							
	Heat insulation		Both liquid and gas pipes							
Air filter	Type		Removable / washable							
Air direction control		Right, Left, Horizontal, Downward								

## 2 Specifications

### 1 - 1 FTXM-R

Technical specifications					FTXM20R	FTXM20R	FTXM25R	FTXM25R	FTXM35R	FTXM35R
Temperature control					Microcomputer control					
Control systems					Infrared remote control ARC466A67					
					Wired remote control BRC073A1					
Technical specifications					FTXM42R	FTXM42R	FTXM50R	FTXM60R	FTXM71R	
Power input		Cooling	Nom.	kW	0.034		0.030	0.032	0.054	
		Heating	Nom.	kW	0.038		0.032	0.035	0.060	
Casing					Colour White					
Dimensions		Unit	Height	mm	295		299			
			Width	mm	778		998			
			Depth	mm	272		292			
		Packed unit	Height	mm	350		397			
			Width	mm	865		1,115			
			Depth	mm	375		377			
Weight		Unit		kg	10.0		14.5			
		Packed unit		kg	12.0		17			
Packing		Weight		kg	2.0		3			
Heat exchanger		Length		mm	610		820			
		Rows	Quantity				2			
		Fin pitch		mm			1.4			
		Stages	Quantity				18			
		Passes	Quantity		3.0		6		4	
		Tube type			ø5 Hi-XB					
		Fin	Type		ML fin (Multi louver)					
Heat exchanger 2		Length		mm	600		810			
		Rows	Quantity				1			
		Fin pitch		mm			1.4			
		Stages	Quantity				8			
Heat exchanger 3		Length		mm	600		810			
		Rows	Quantity				1			
		Fin pitch		mm			1.4			
		Stages	Quantity				4			
Fan		Type			Cross flow fan					
		Air flow rate	Cooling	High	m <sup>3</sup> /min	11.9	15.8	16.7	16.9	
					cfm	421	557	591	598	
			Medium	m <sup>3</sup> /min	9.0	14		15		
				cfm	316	489	503	516		
			Low	m <sup>3</sup> /min	6.5	11.4	11.8	12.2		
				cfm	230	404	417	430		
			Silent operation	m <sup>3</sup> /min	4.3	8.3	9.1	10.0		
				cfm	150	291	322	353		
Fan		Air flow rate	Heating	High	m <sup>3</sup> /min	12.4	15.8	16.5	17.7	
					cfm	439	557	584	626	
			Medium	m <sup>3</sup> /min	9.7	14.2	15.2	15.8		
				cfm	341	503	536	557		
			Low	m <sup>3</sup> /min	6.5	12.0	12.4	12.7		
				cfm	230	423	436	449		
			Silent operation	m <sup>3</sup> /min	4.9	10.5	11.1	11.6		
				cfm	174	372	391	410		
Fan motor		Model			MM6K11Y32VA			MM9E17Y33VA		
		Speed	Steps		5 + silent, + auto			5 + silent, + auto		
			Cooling	High	rpm	1,190	1,010	1,060	1,080	
				Medium	rpm	940	910	930	950	
				Low	rpm	730	780	800	820	
			Silent operation	rpm	530	600	650	700		
			Heating	High	rpm	1,230	1,010	1,050	1,120	
				Medium	rpm	1,000	930	980	1,010	
				Low	rpm	730	810	830	850	
			Silent operation	rpm	590	730	760	790		
		Output	Nominal	W	-			46		52
			Rated	W	22			-		
Sound power level		Cooling		dB(A)	60		58.0	60.0		
		Heating		dB(A)	60		58.0	59.0	61.0	
Sound pressure level		Cooling	High	dB(A)	45		44.0	46.0	47.0	
			Medium	dB(A)	39		40.0	42.0	43.0	
			Low	dB(A)	30		36.0	37.0	38.0	
			Silent operation	dB(A)	21		27.0	30.0	32.0	
		Heating	High	dB(A)	45		43.0	45.0	46.0	
			Medium	dB(A)	39		39	41.0	42.0	
			Low	dB(A)	29		34.0	36.0	37.0	
			Silent operation	dB(A)	21		31.0	33.0	34.0	
Refrigerant		Type			R-32					

## 2 Specifications

### 1 - 1 FTXM-R

2

Technical specifications				FTXM42R	FTXM42R	FTXM50R	FTXM60R	FTXM71R
Piping connections	Liquid	OD	mm	6,35				
	Gas	OD	mm	9.50		12.7		15.9
	Drain			18				
	Heat insulation			Both liquid and gas pipes				
Air filter	Type		Removable / washable					
Air direction control			Right, Left, Horizontal, Downward					
Temperature control			Microcomputer control					
Control systems	Infrared remote control		ARC466A67					
	Wired remote control		BRC073A1					

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Operation manual; Quantity: 1;

Standard accessories: Wireless remote control; Quantity: 1;

Standard accessories: AAA dry-cell batteries; Quantity: 2;

Standard accessories: Remote control holder; Quantity: 1;

Standard accessories: Mounting plate; Quantity: 1;

Standard accessories: Titanium apatite deodorizing filter; Quantity: 2;

Standard accessories: Indoor unit fixing screws; Quantity: 2;

Standard accessories: WLAN adapter kit; Quantity: 1;

Standard accessories: Silver particle filter; Quantity: 1;

Electrical specifications				FTXM20R	FTXM20R	FTXM25R	FTXM25R	FTXM35R	FTXM35R
Power supply	Name			V1					
	Phase			1~					
	Frequency		Hz	50					
	Voltage		V	220-240					
Current	Nominal running current (RLA) - 50Hz	Heating	A	0.22			0.25		
Wiring connections - 50Hz	For power supply	Quantity		3					
		Remark		3 for power supply, 4 for interunit wiring (Earth wire included)					

Electrical specifications				FTXM42R	FTXM42R	FTXM50R	FTXM60R	FTXM71R
Power supply	Name			V1				
	Phase			1~				
	Frequency		Hz	50				
	Voltage		V	220-240				
Current	Nominal running current (RLA) - 50Hz	Heating	A	0.40		0.2	0.3	0.4
Wiring connections - 50Hz	For power supply	Quantity		3				
		Remark		3 for power supply, 4 for interunit wiring (Earth wire included)				

Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m |

Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m



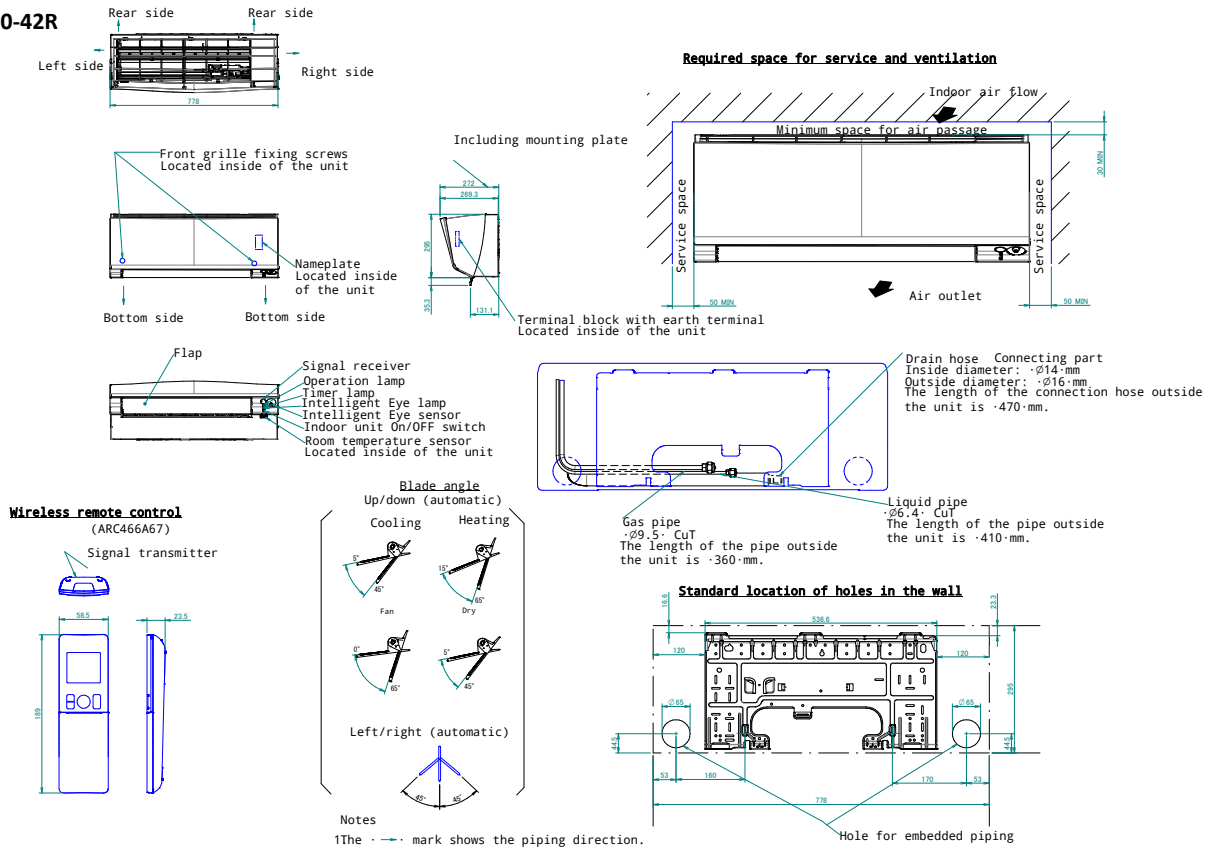


# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings

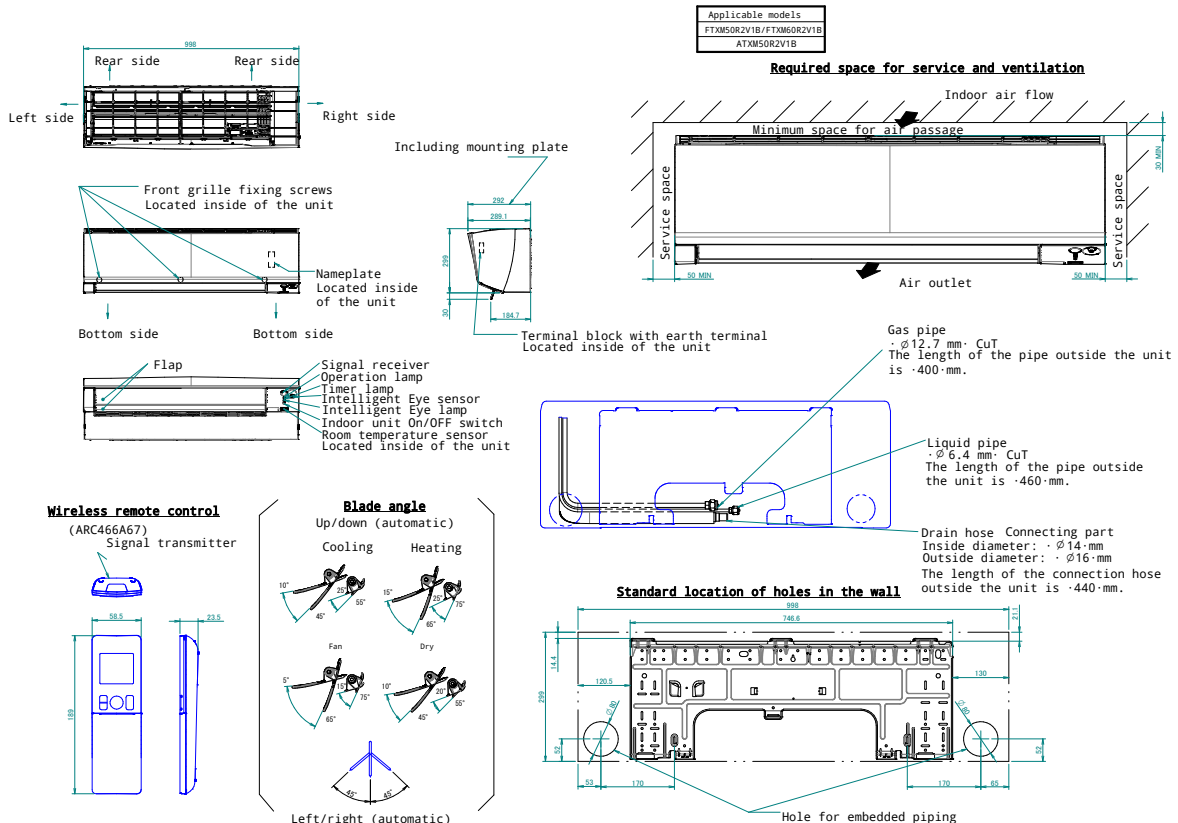
4

### CTXM-R FTXM20-42R



2D130119A

### FTXM50-60R

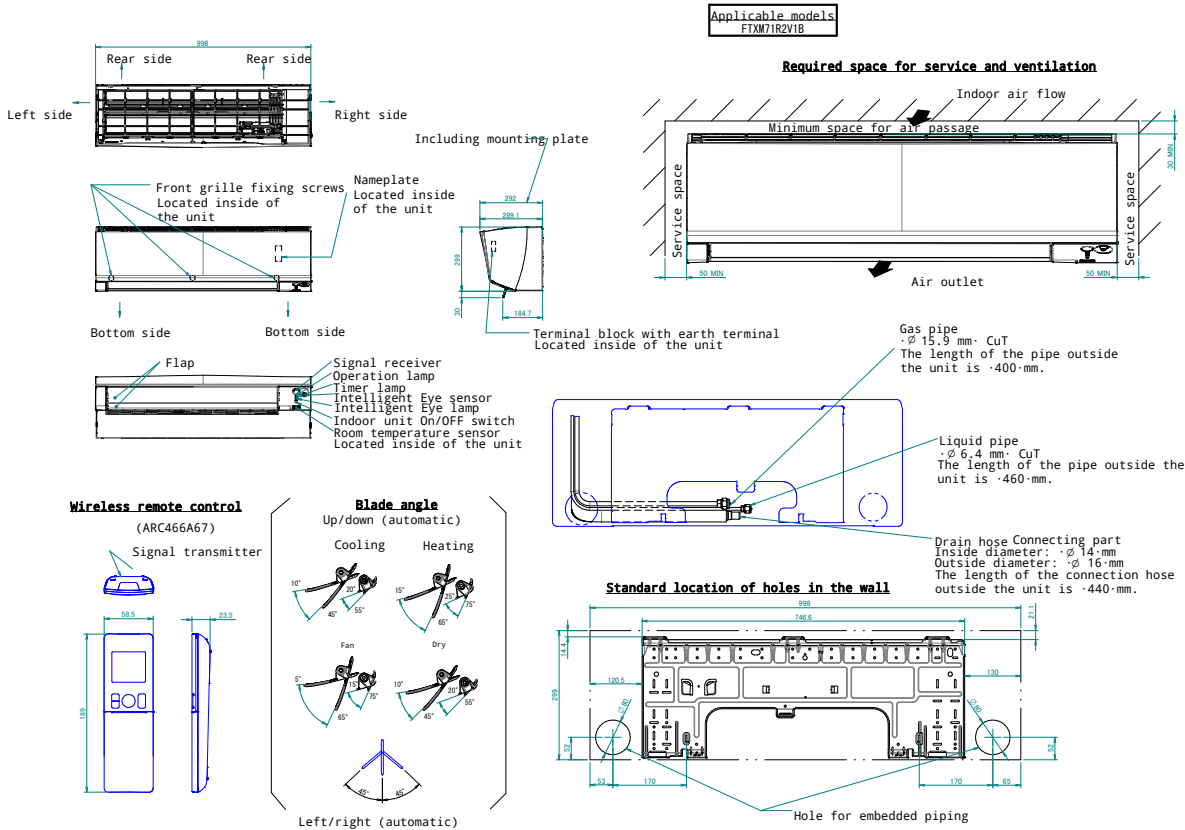


2D130575

# 4 Dimensional drawings

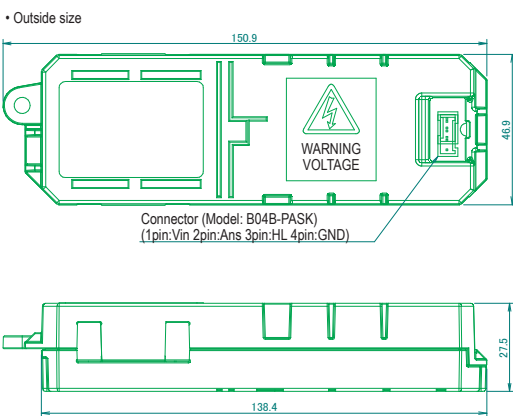
## 4 - 1 Dimensional Drawings

### FTXM71R



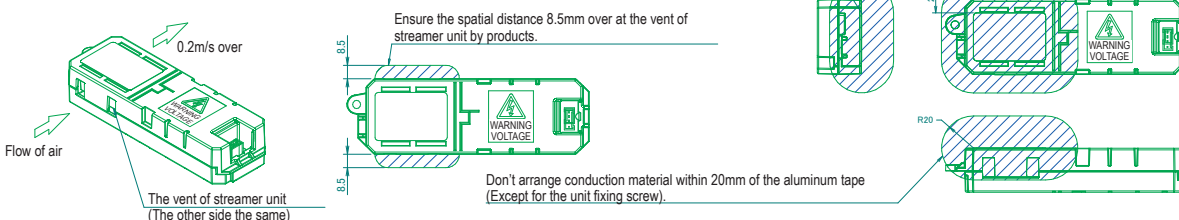
2D130576

### CTXM-R FTXM-R



• Method of mounting

Don't blockage the vent of streamer unit.  
Ensure the exit wind speed 0.2m/sec of the vent.  
Ensure the spatial distance 8.5mm over at the vent of streamer unit.



3D095530G

• Main specifications

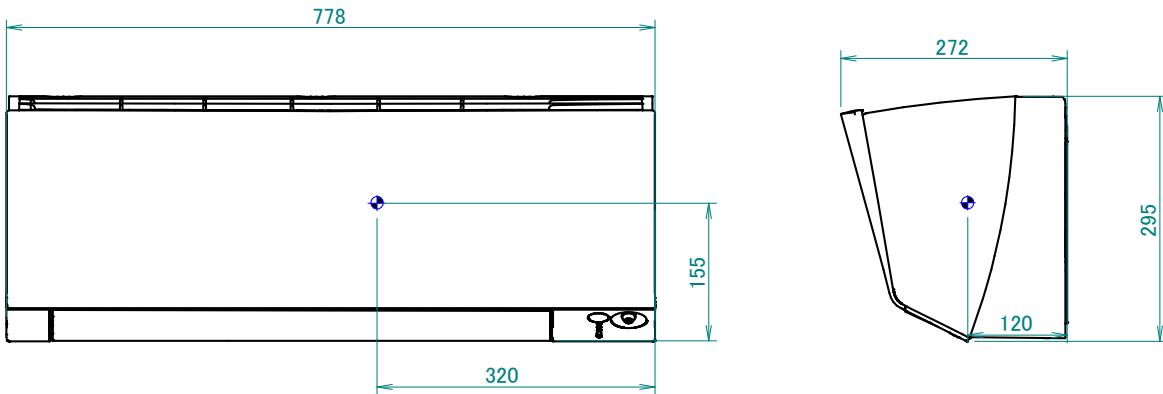
Items	Contents		
Outside	Outside size	150.9×46.9×27.5mm	
	Weight	100g	
Material of resin	Material	ABS	
	Flame retardance	UL94-5VA	
	Tracking index	Over CTI600V	
Applicable laws	Electrical Appliance and Material Safety Act IEC60335-1(4th), IEC60335-2-65(4th)		
Ambient conditions	Storage temperature	-25~70 (Non-Energization)	
	Operating ambient temperature	-10~60 (Energization)	
	Operating ambient humidity	5~95%RH (No dew deposit)	
Basic specifications	Input voltage	14V±5%	
	Maximum output voltage	6.5±0.5kV	
	Rating output voltage	5.0±0.5kV	
	Rating output current	Hi	55.5μA±10%
		Lo	10μA±10%
	ON/OFF	Inputted voltage into Vin (ON/OFF)	
	Hi ↔ Lo Switching	Inputted 5V into HL (Loe tap)	
	Current monitor	Yes	
	Detectable over current	Yes	
	Detectable low voltage	Under 3kV	
Generation amount of Ozone	4.26m/hr (Hi 14±2; 50±10%RH)		
Method of mounting	Fixing by the right and left hook		
	Fixing by the screw section		

# 5 Centre of gravity

## 5 - 1 Centre of Gravity

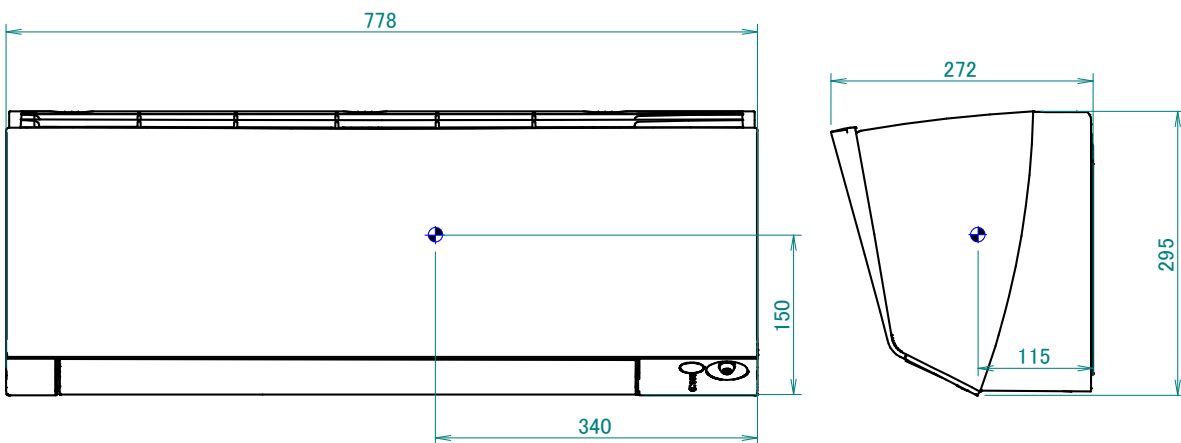
5

CTXM-R  
FTXM20R



4D130122

FTXM25-42R

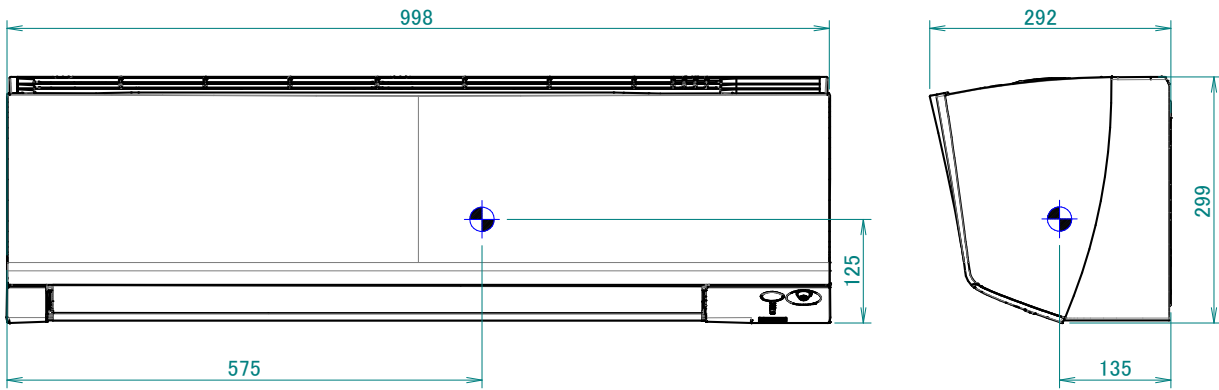


4D130123

# 5 Centre of gravity

## 5 - 1 Centre of Gravity

FTXM50-71R



4D130997

# 6 Piping diagrams

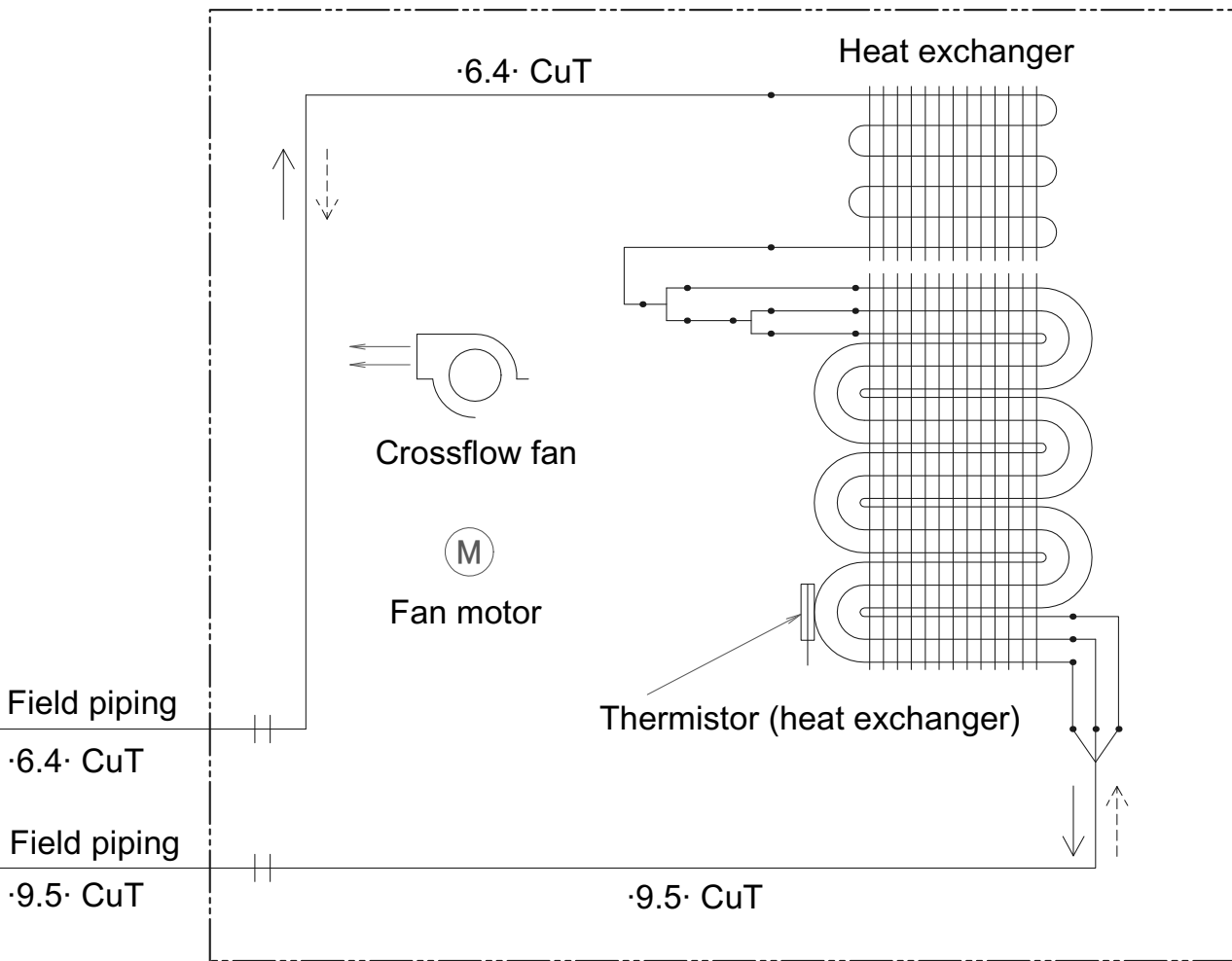
## 6 - 1 Piping Diagrams

6

CTXM-R

FTXM20R

### Indoor unit



Refrigerant flow

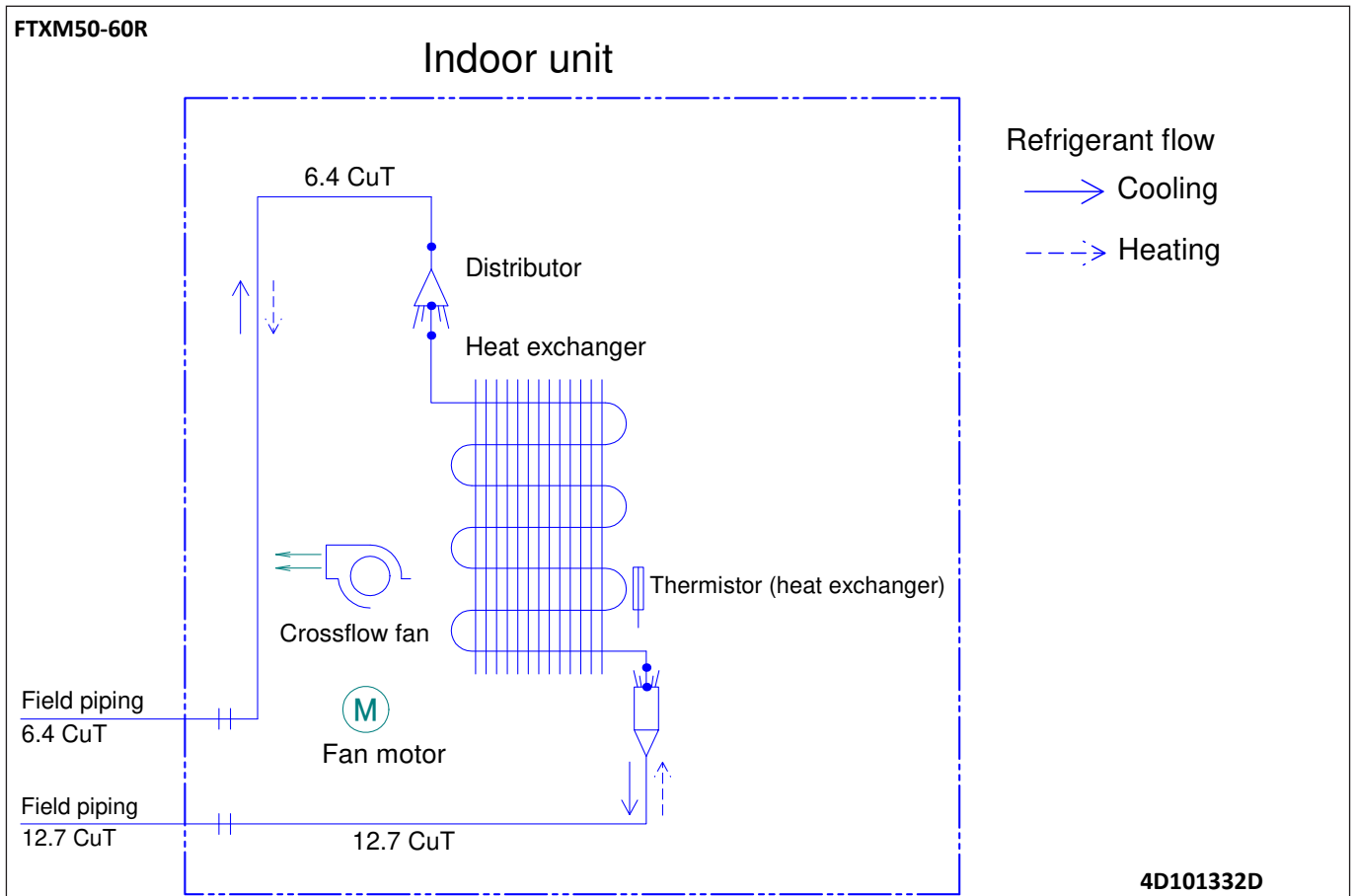
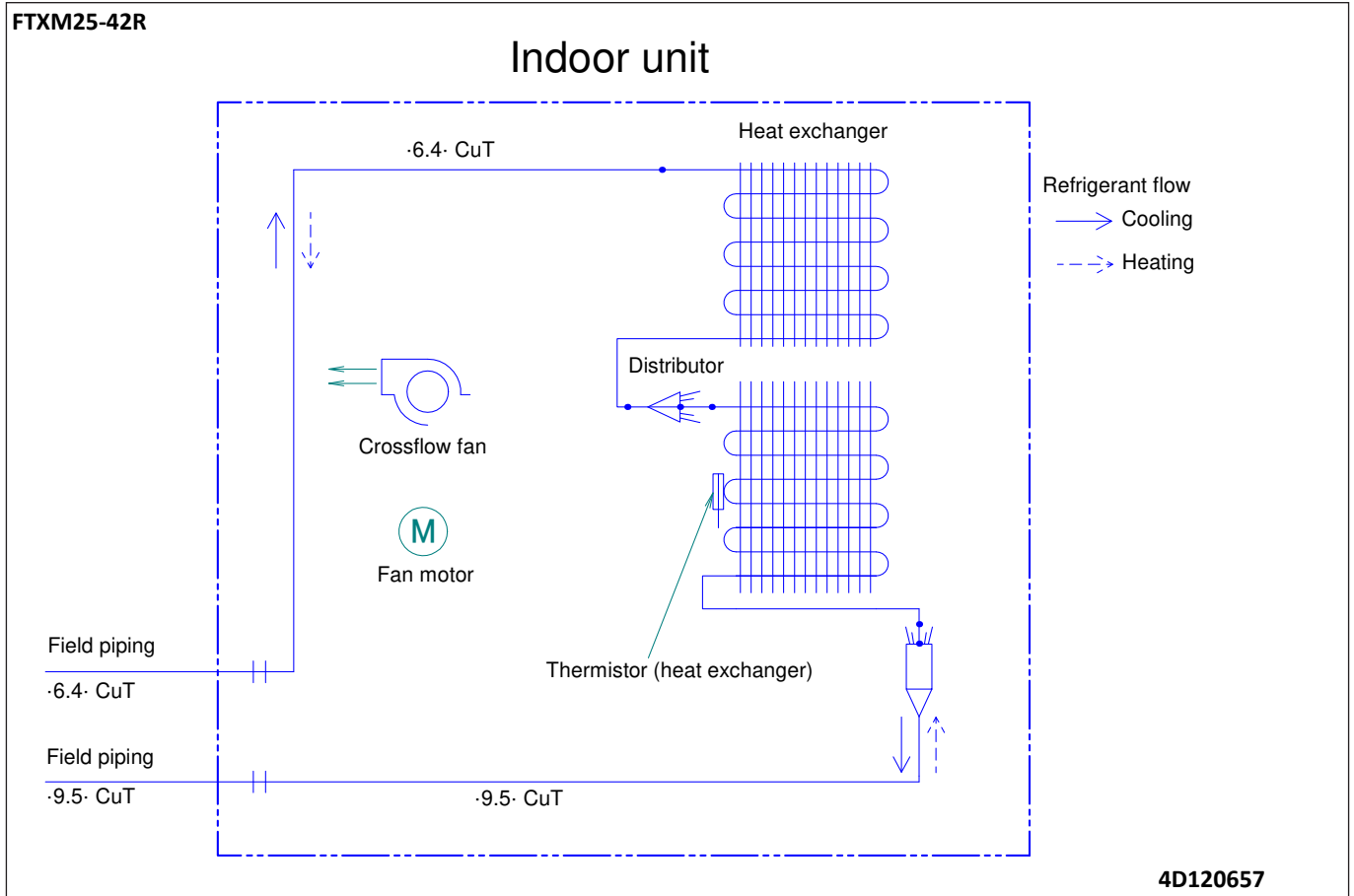
→ Cooling

- - -> Heating

4D098106B

# 6 Piping diagrams

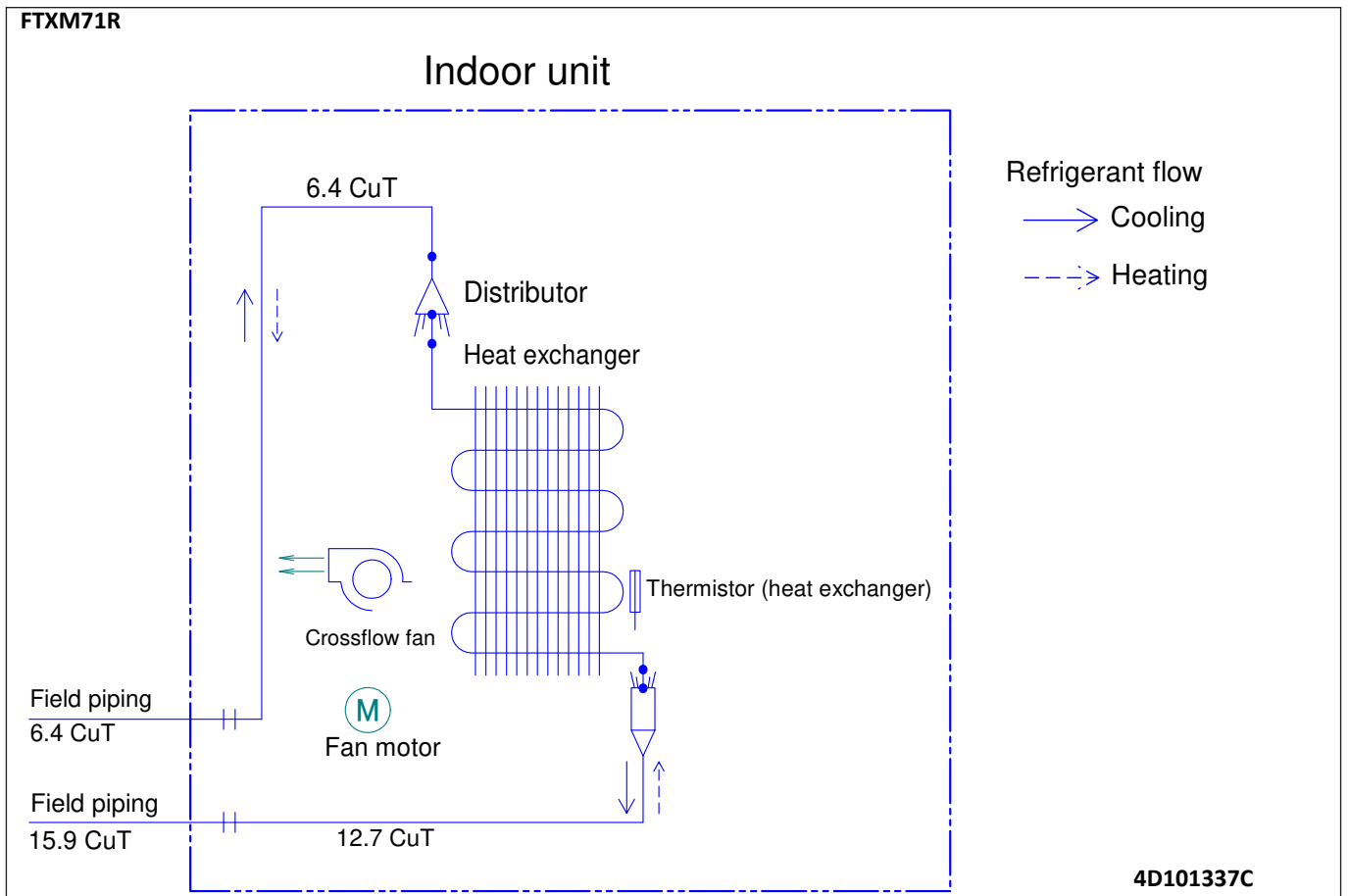
## 6 - 1 Piping Diagrams



# 6 Piping diagrams

## 6 - 1 Piping Diagrams

6

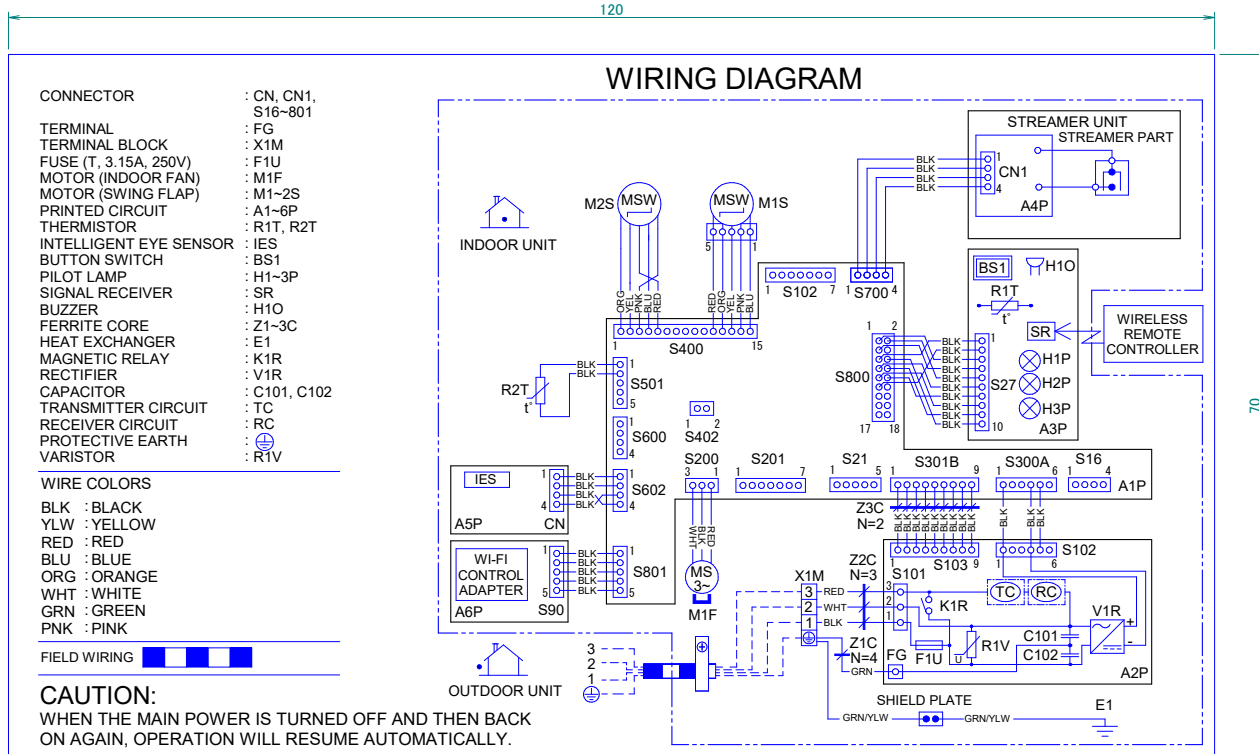




# 7 Wiring diagrams

## 7-1 Wiring Diagrams - Single Phase

### CTXM-R FTXM20-42R

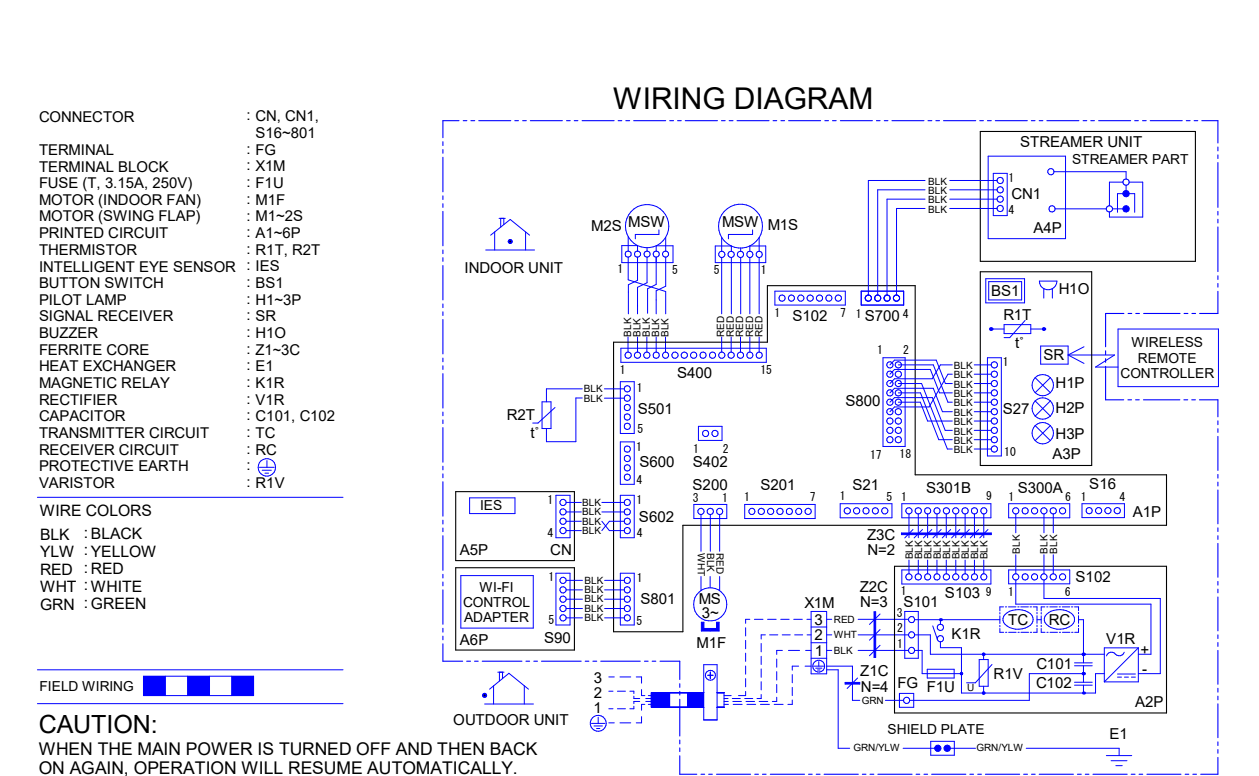


**NOTES:**

1. SIZE: HEIGHT 70 × WIDTH 120.
2. REFER TO PURCHASING SPECIFICATION AS303002 UNLESS OTHERWISE SPECIFIED.

3D128856A

### FTXM50-71R



**NOTES:**

1. SIZE: HEIGHT 70 × WIDTH 120.
2. REFER TO PURCHASING SPECIFICATION AS303002 UNLESS OTHERWISE SPECIFIED.

3D130931

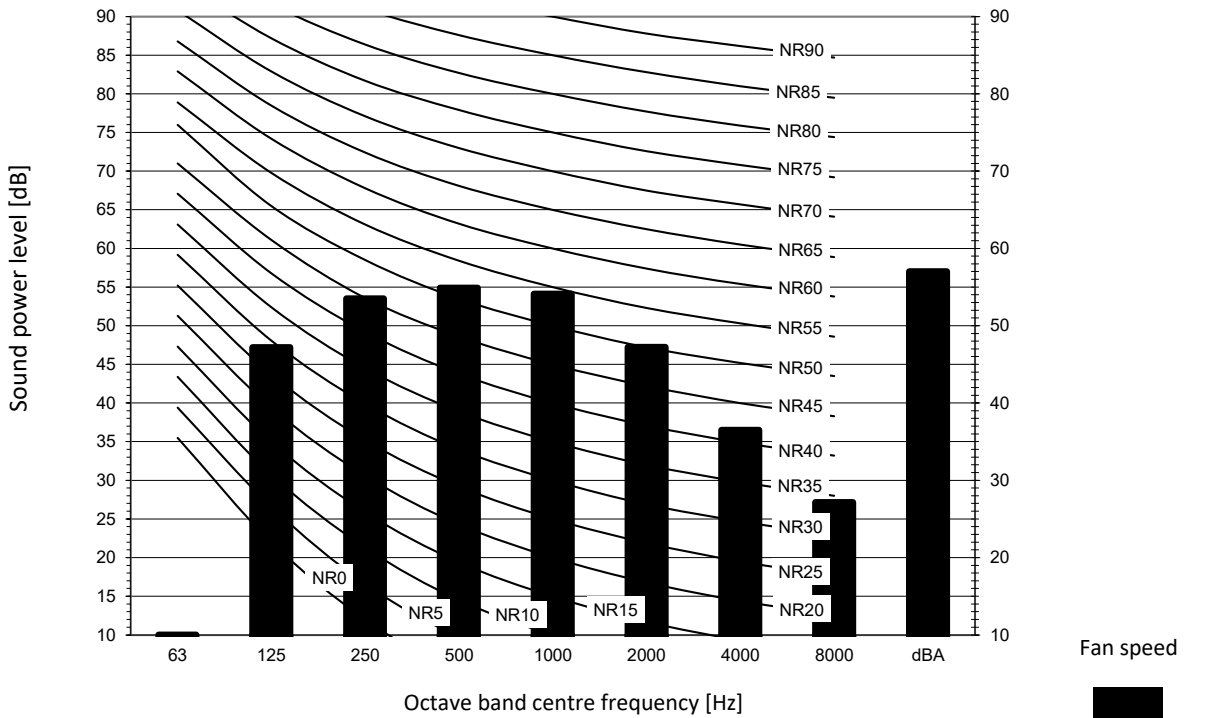
# 8 Sound data

## 8 - 1 Sound Power Spectrum

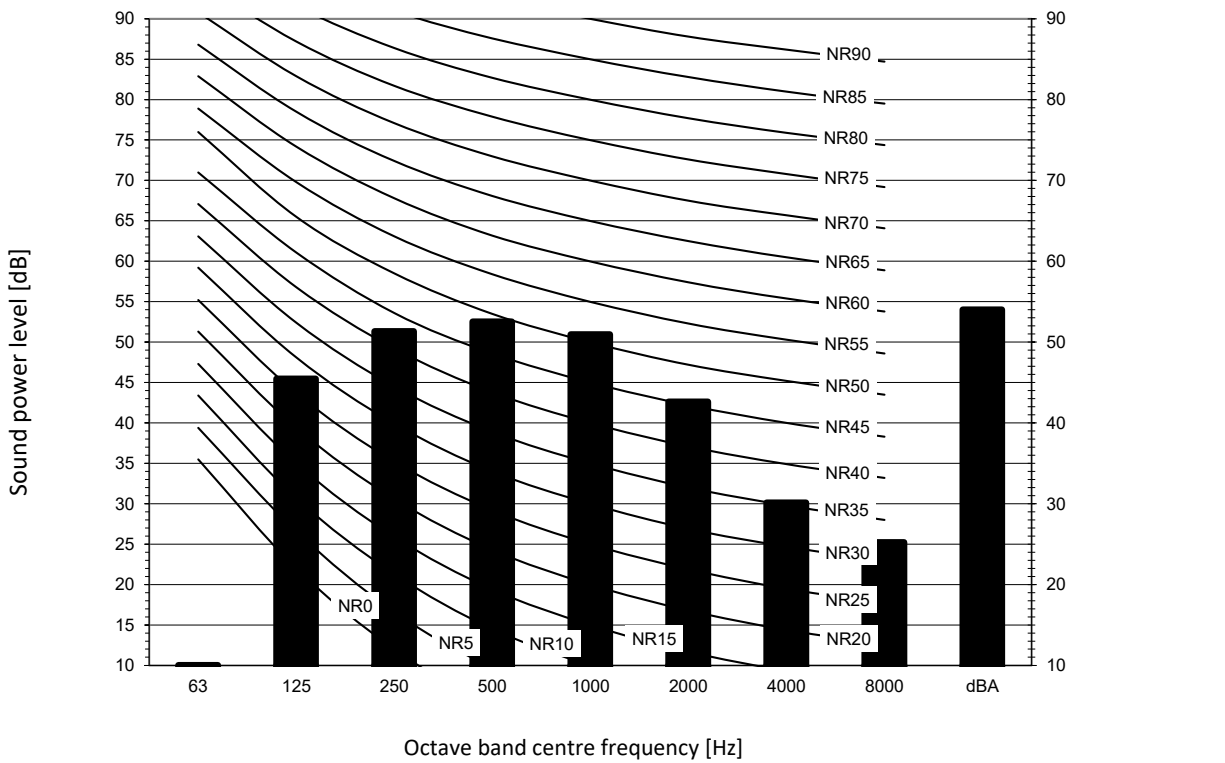
8

FTXM20R

### Cooling mode



### Heating mode



#### Notes

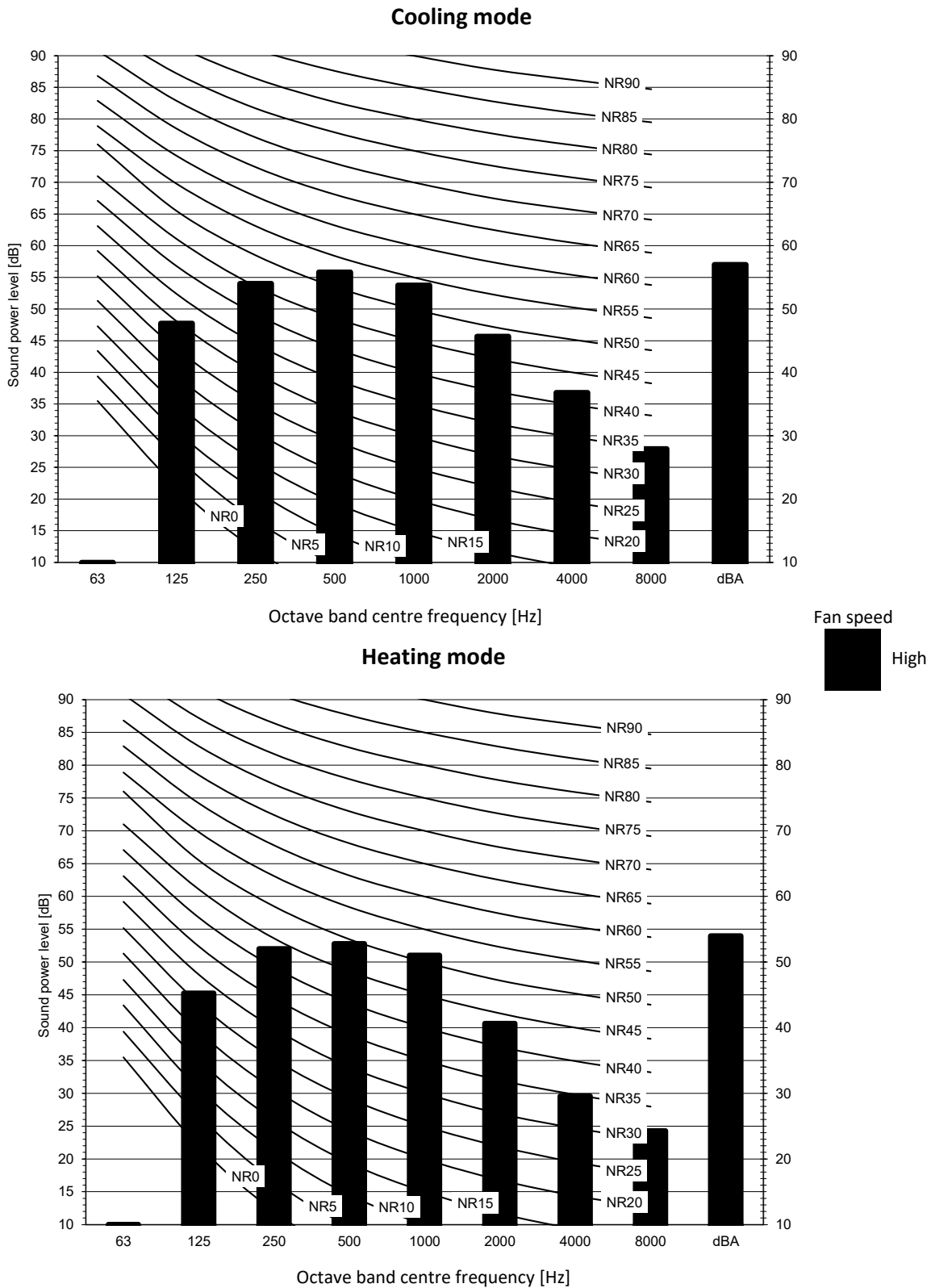
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic pressure 0 dB = 20  $\mu$ Pa
3. Measured according to ISO 3744

4D130533

# 8 Sound data

## 8 - 1 Sound Power Spectrum

FTXM25R



**Notes**

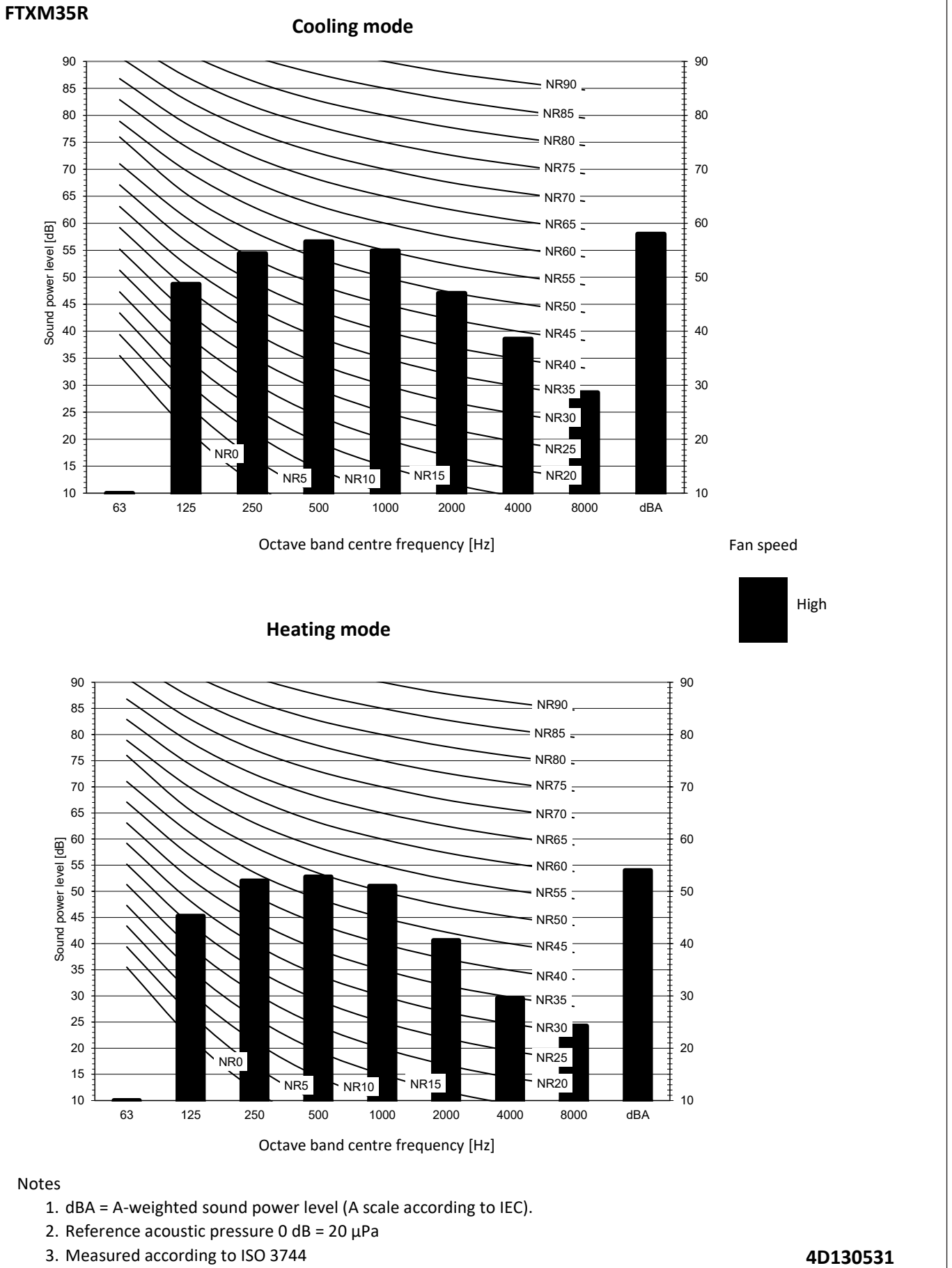
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic pressure 0 dB = 20 μPa
3. Measured according to ISO 3744

4D130532

# 8 Sound data

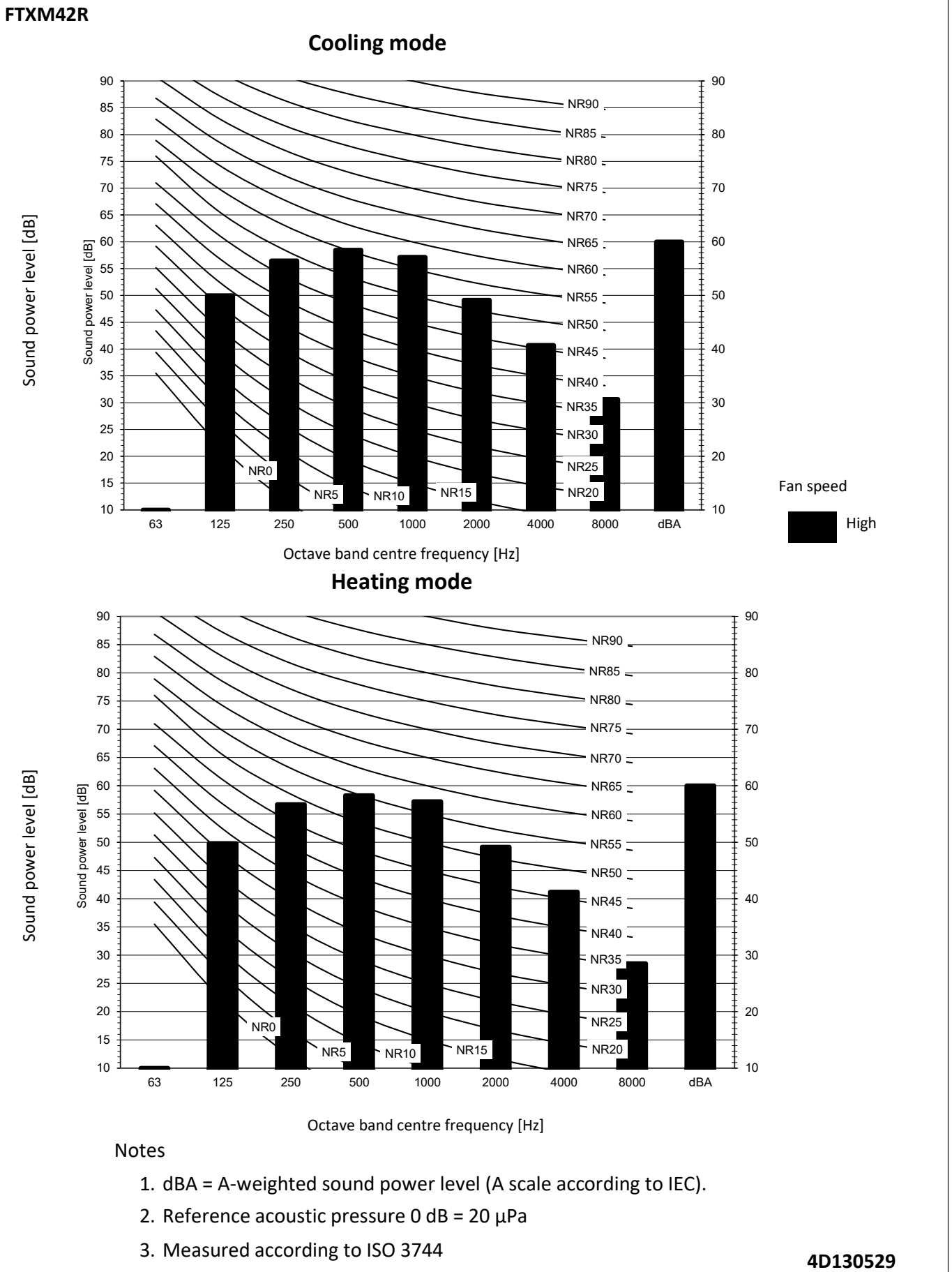
## 8 - 1 Sound Power Spectrum

8



# 8 Sound data

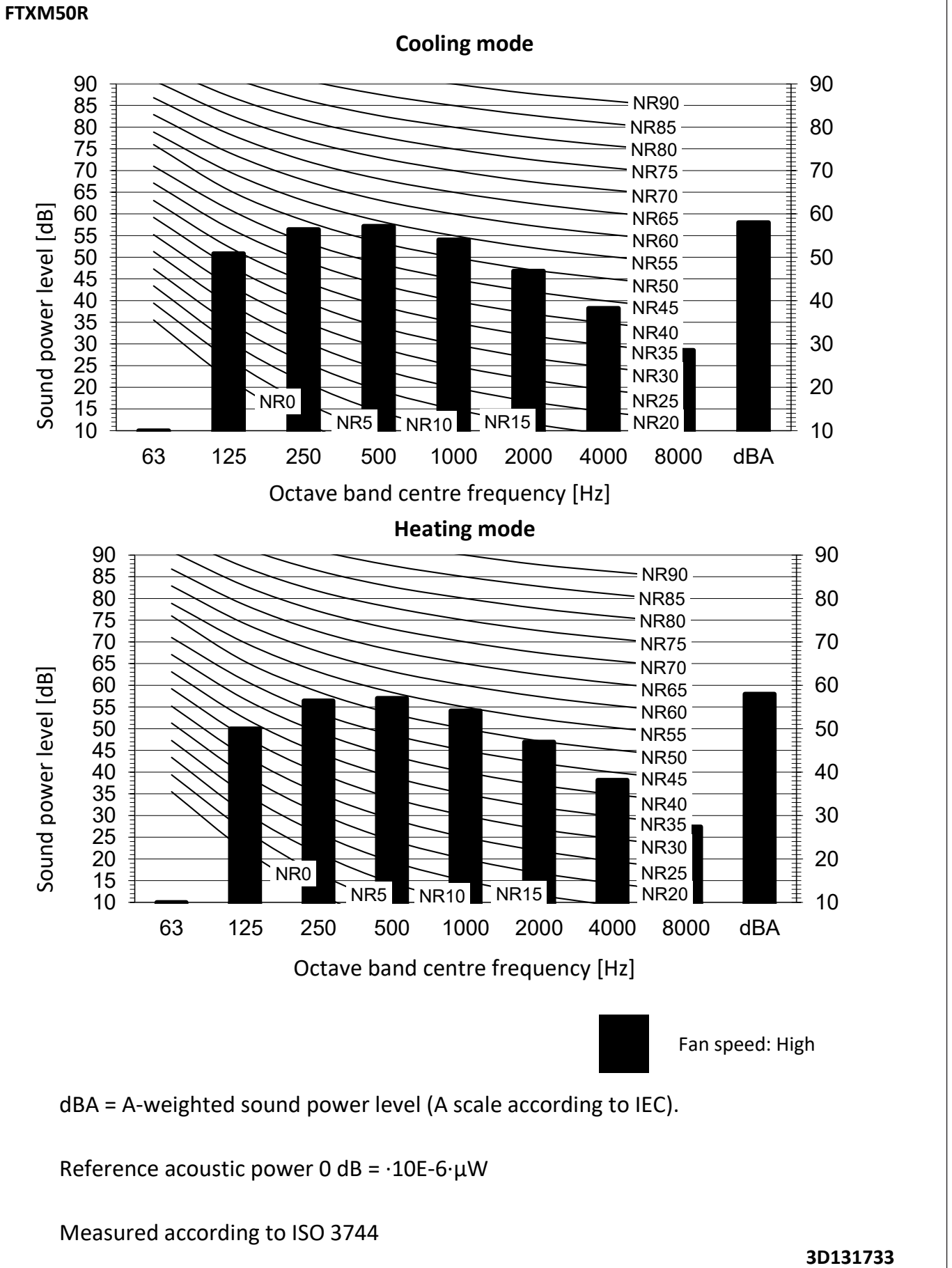
## 8 - 1 Sound Power Spectrum



# 8 Sound data

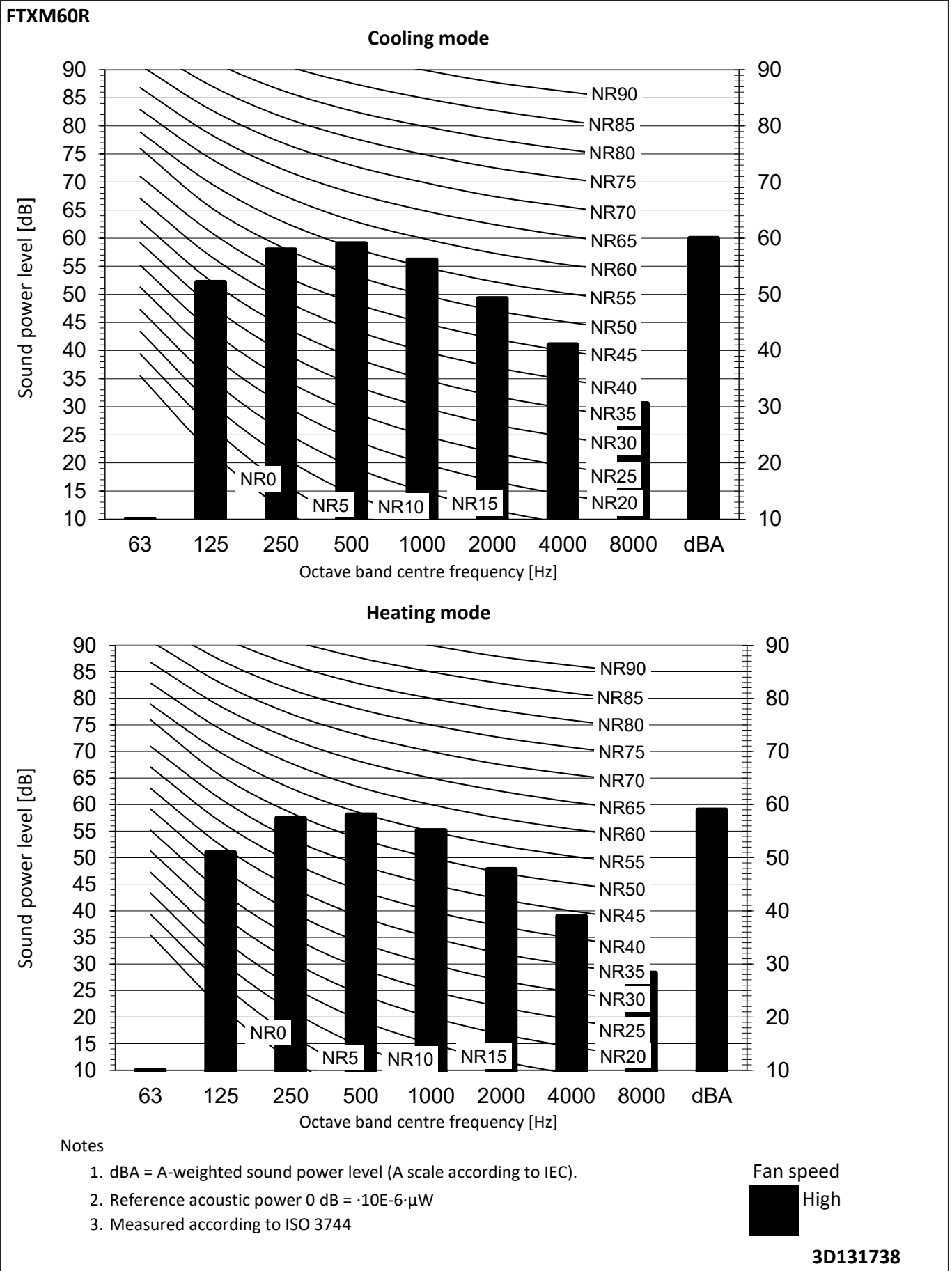
## 8 - 1 Sound Power Spectrum

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# 8 Sound data

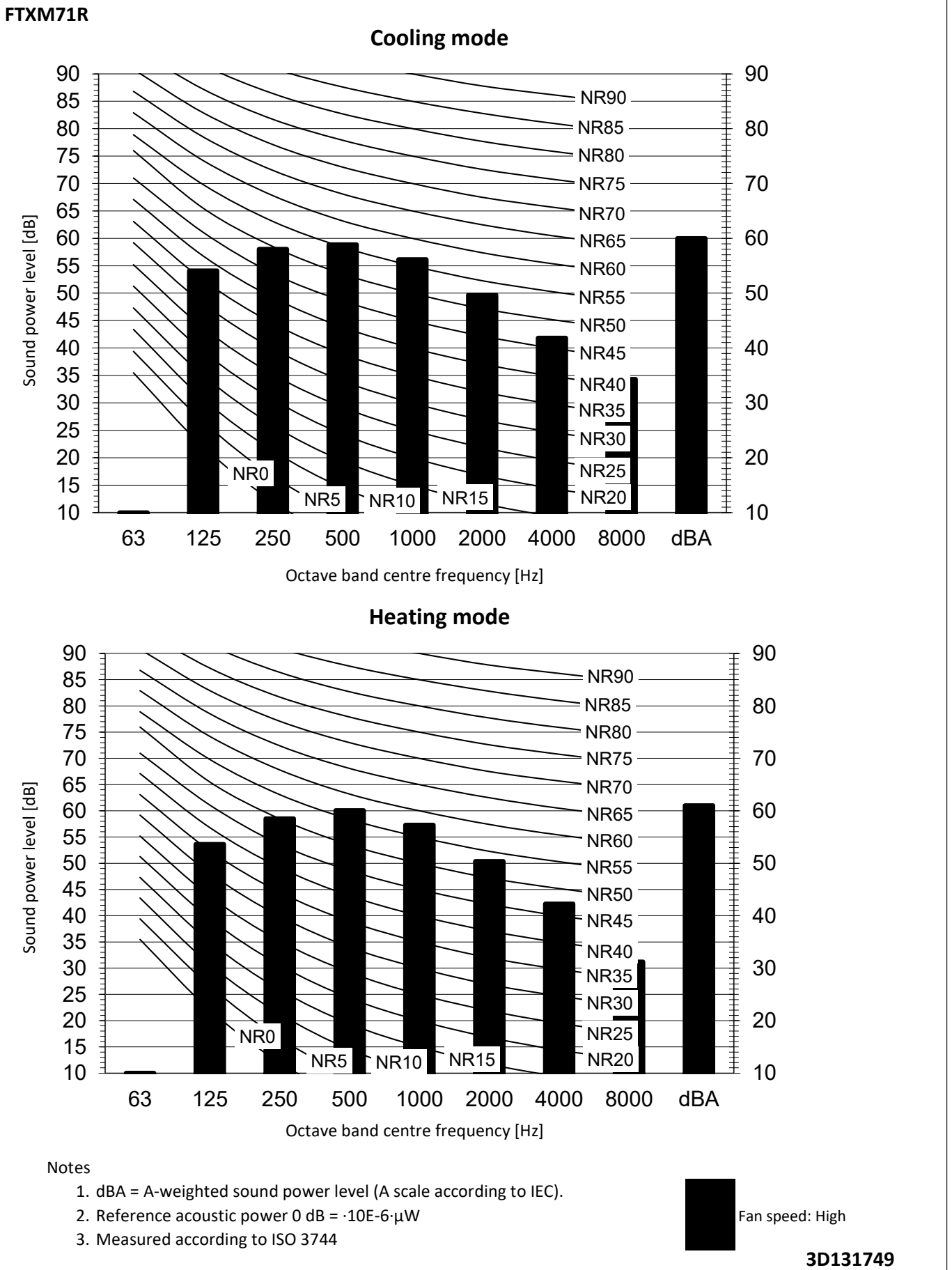
## 8 - 1 Sound Power Spectrum



# 8 Sound data

## 8 - 1 Sound Power Spectrum

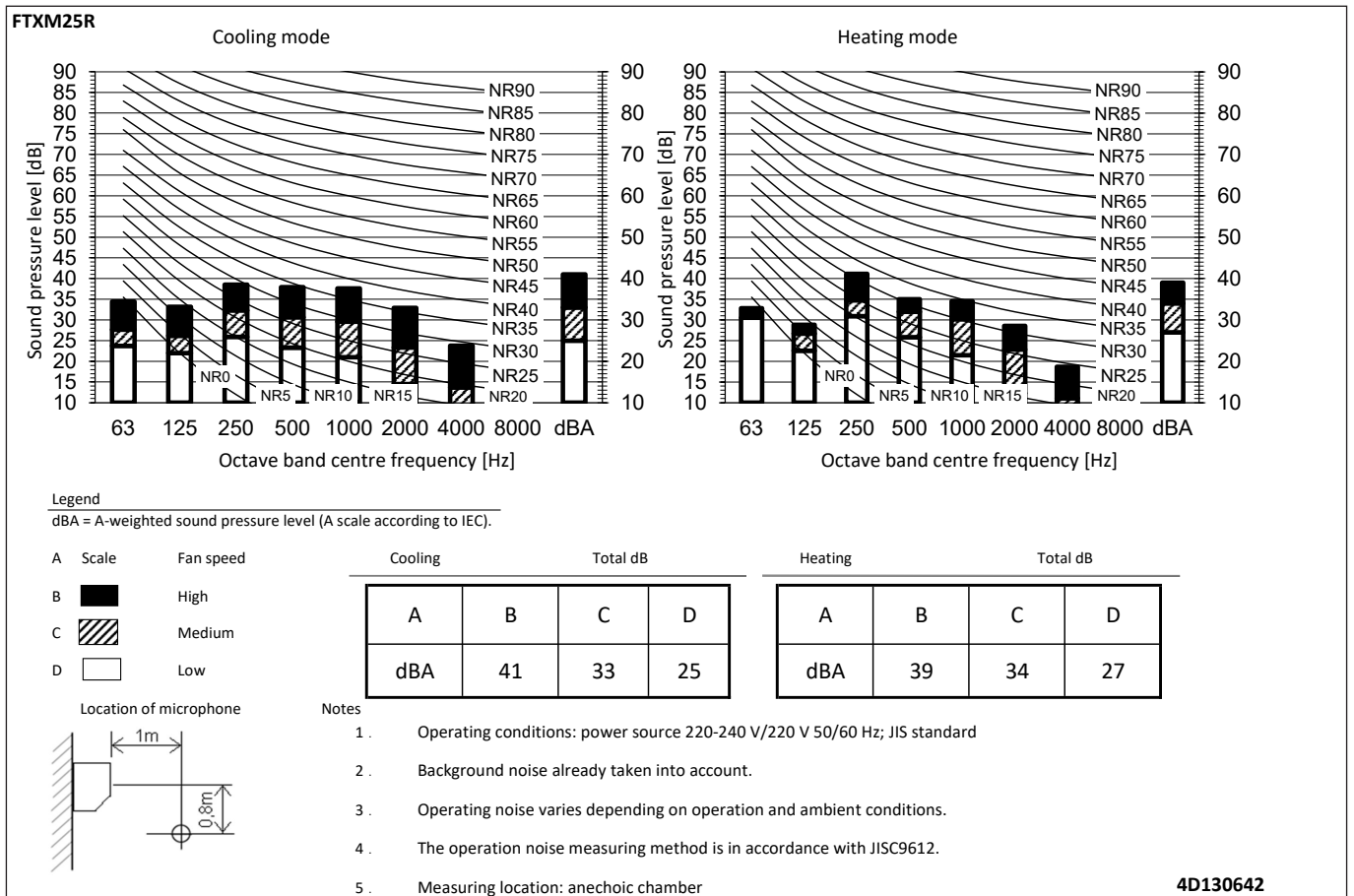
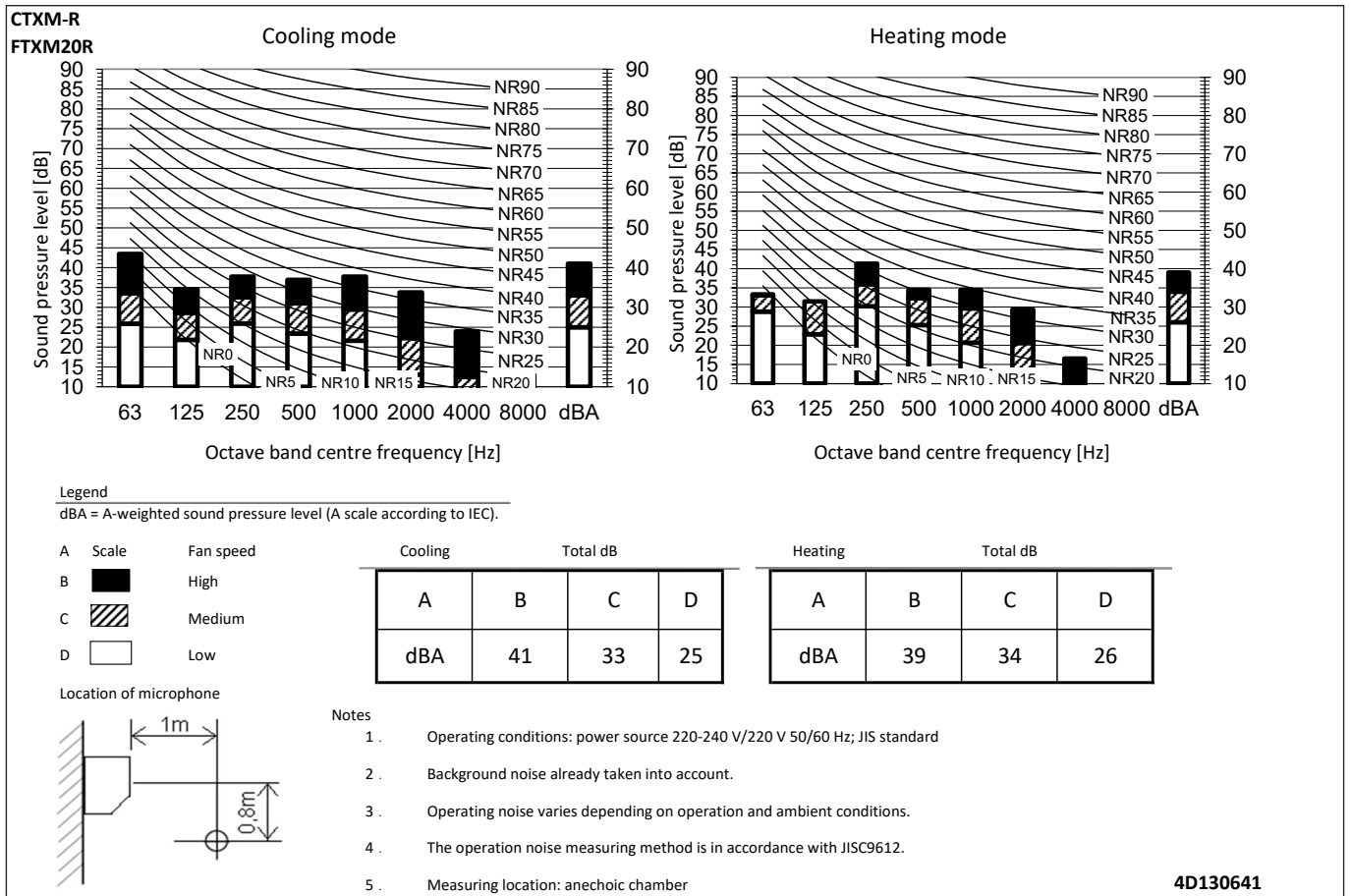
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# 8 Sound data

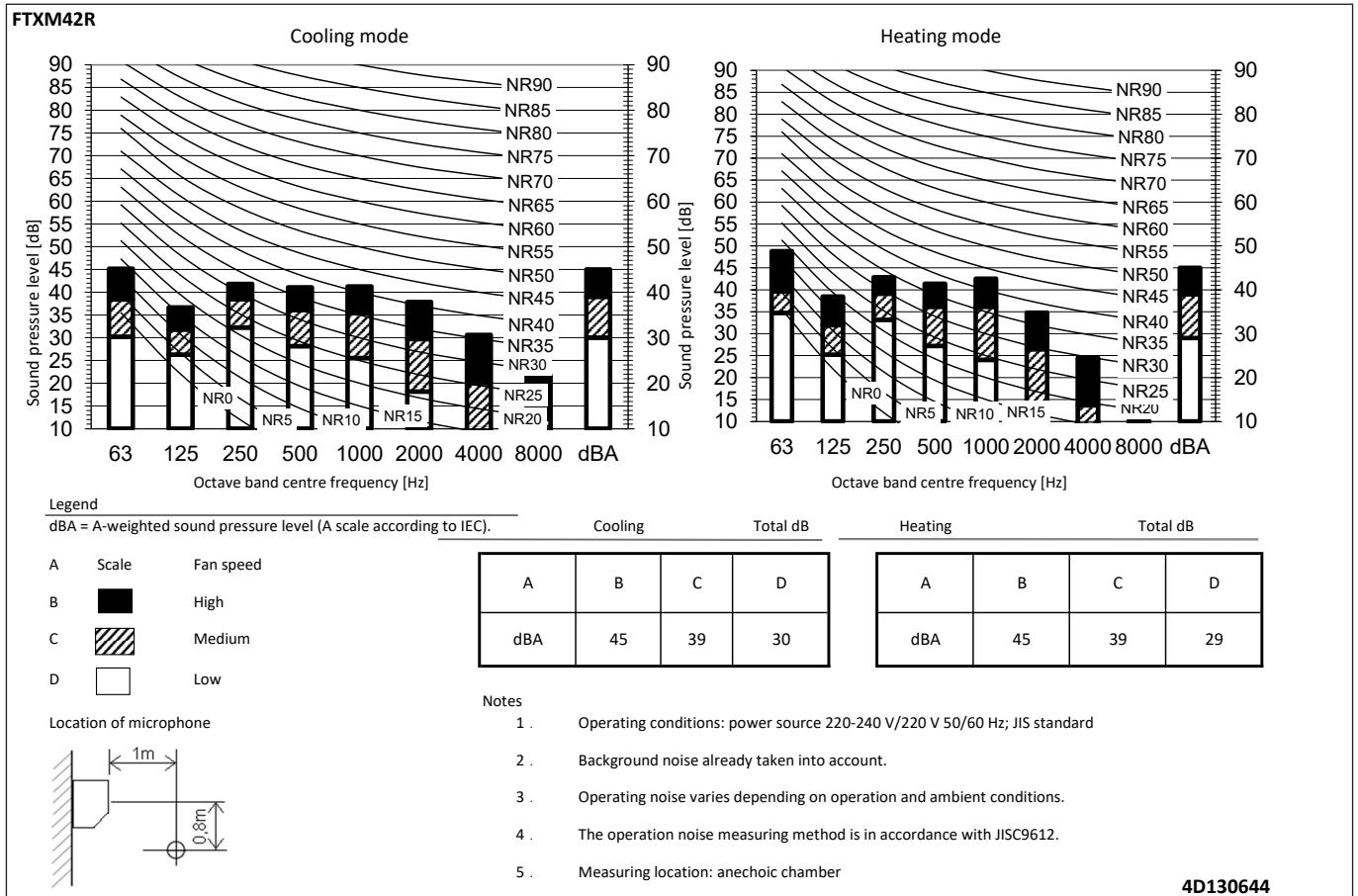
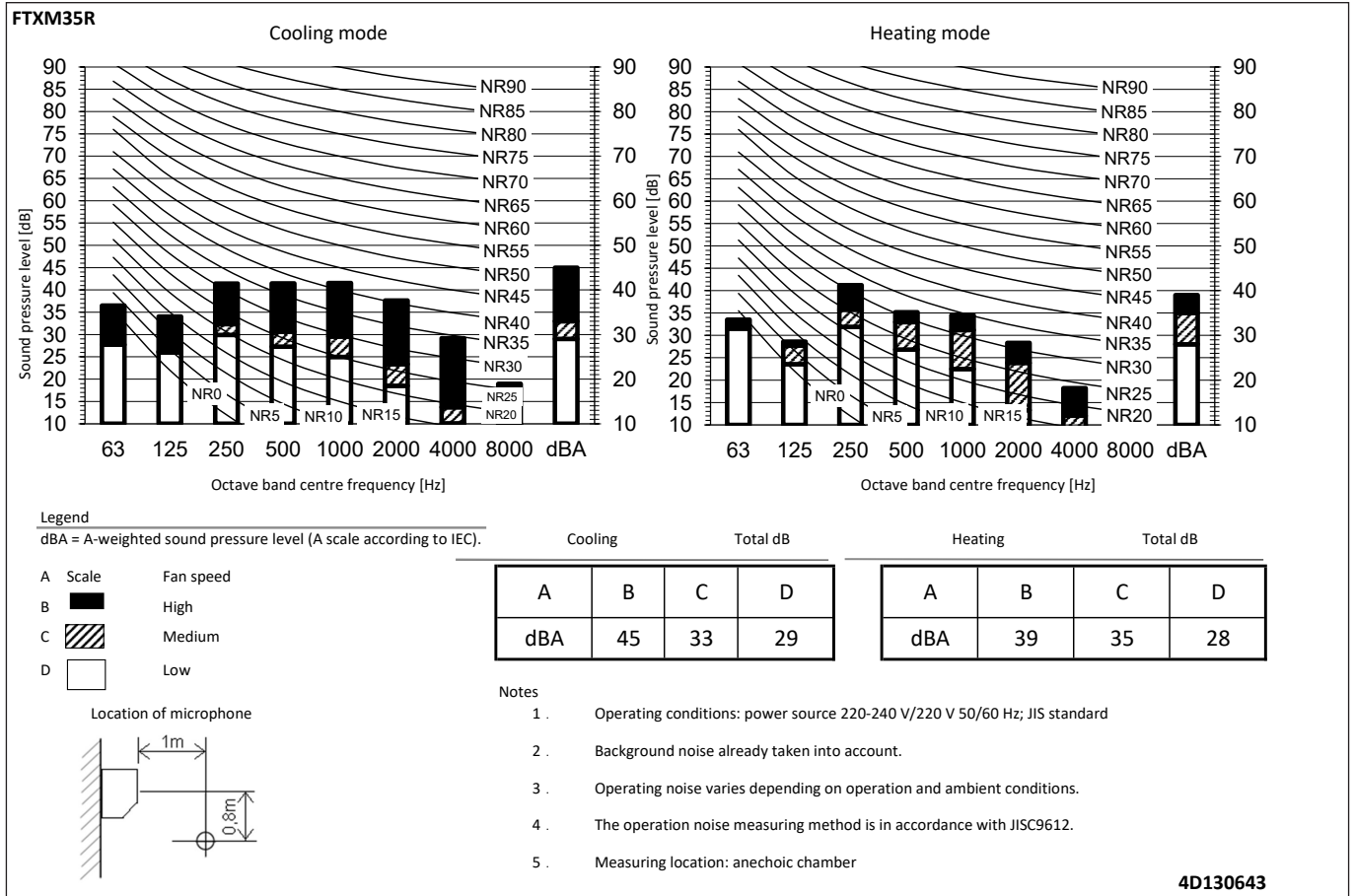
## 8 - 2 Sound Pressure Spectrum



# 8 Sound data

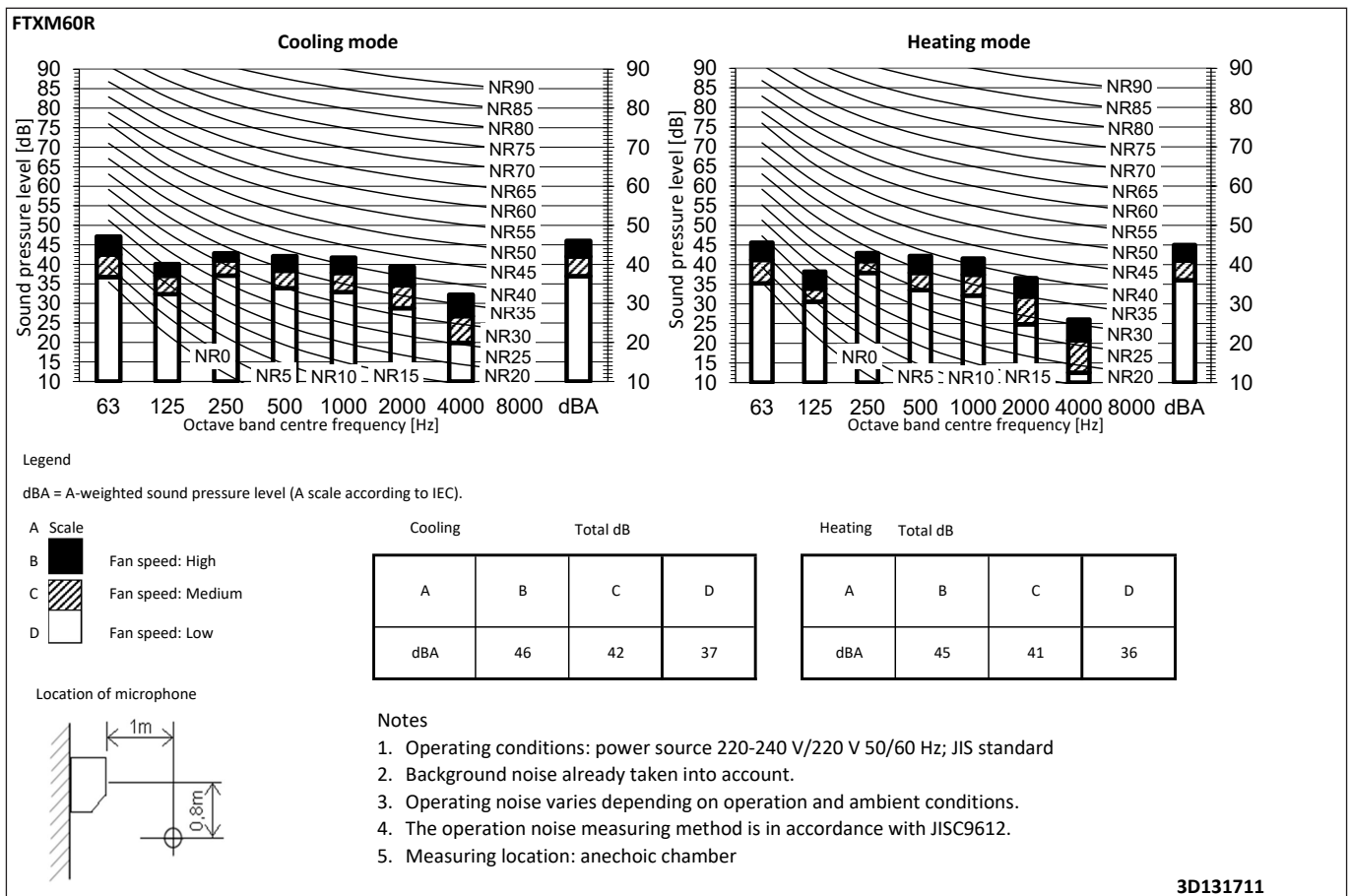
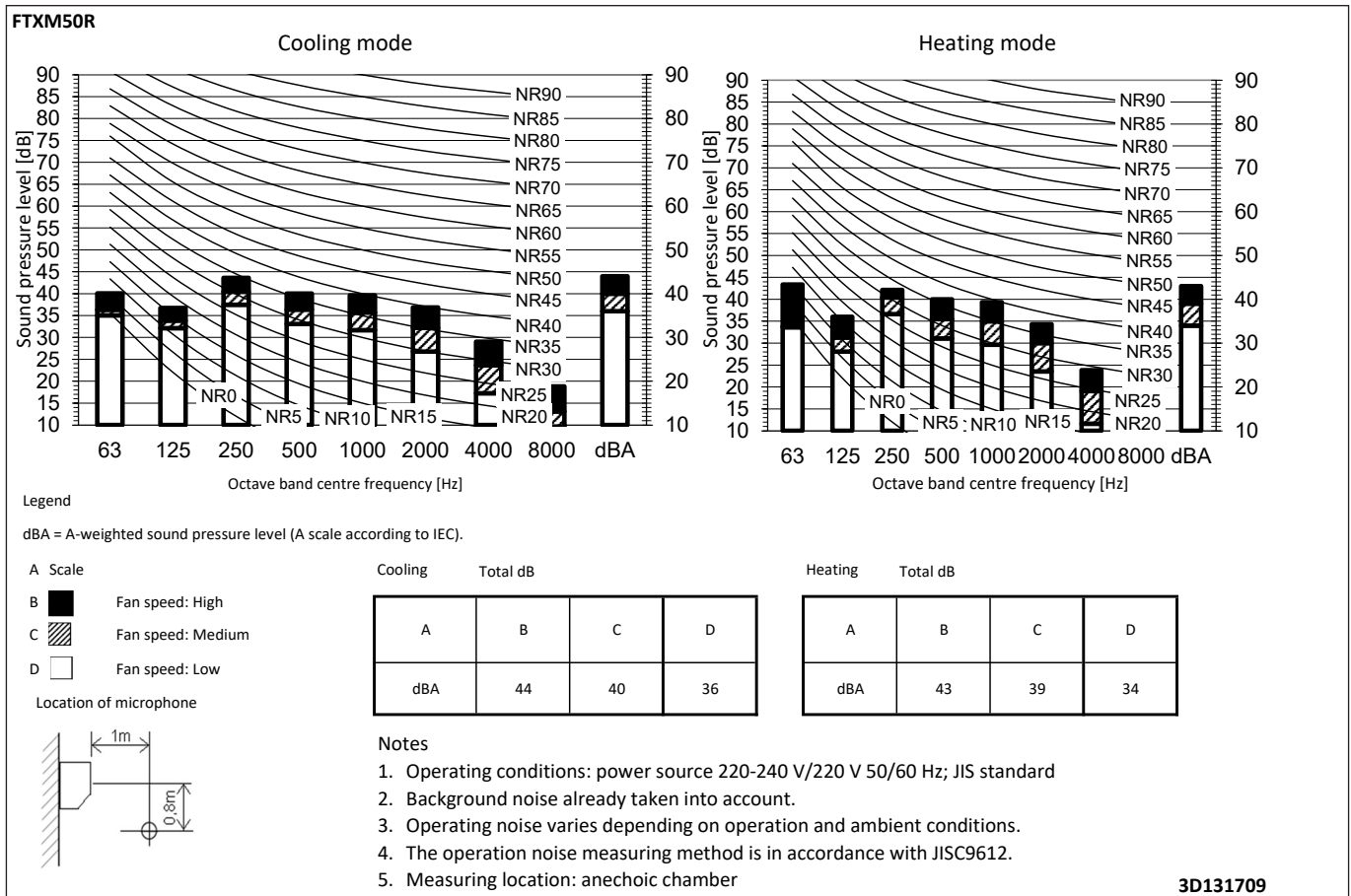
## 8 - 2 Sound Pressure Spectrum

8



# 8 Sound data

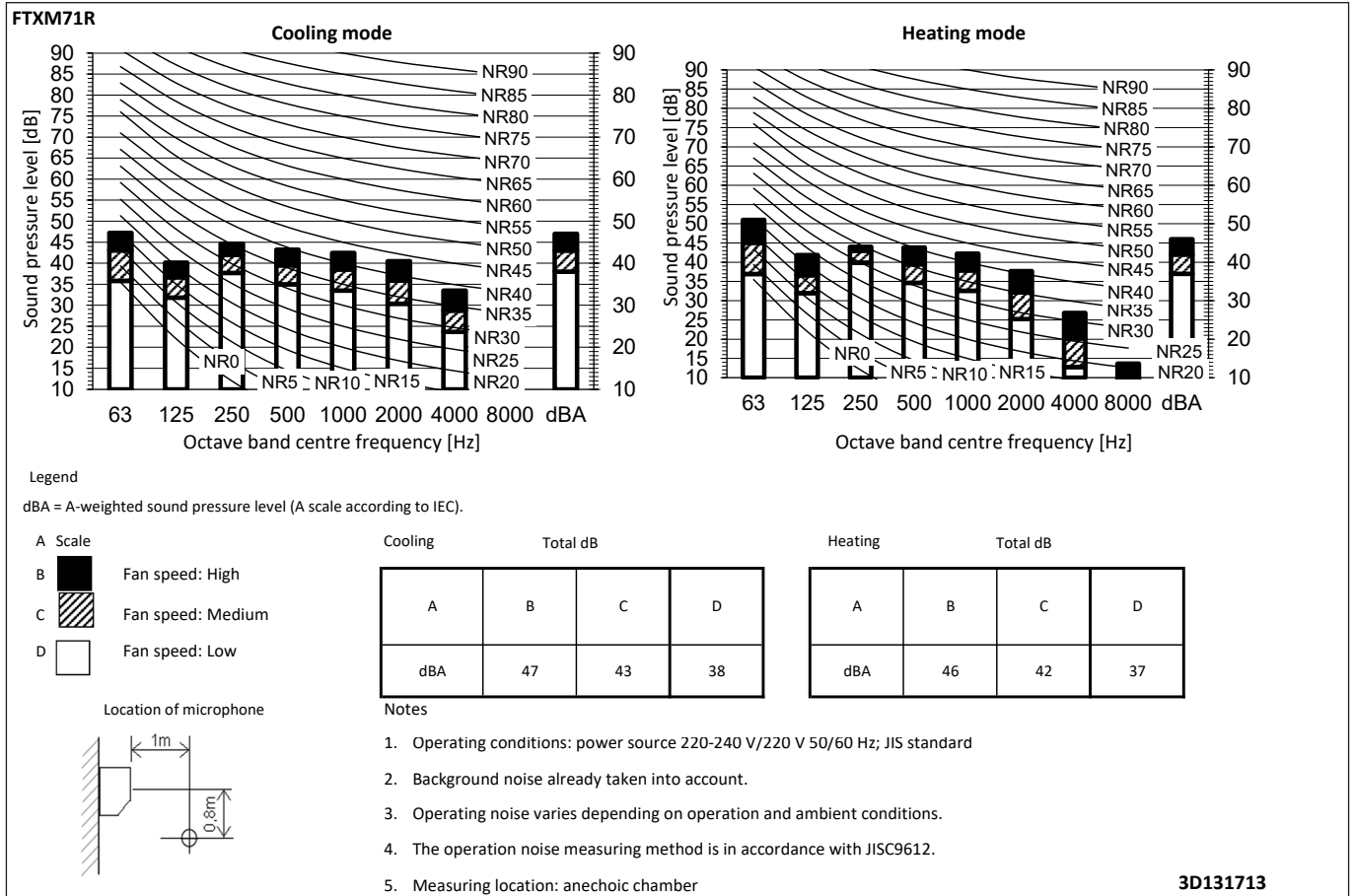
## 8 - 2 Sound Pressure Spectrum



# 8 Sound data

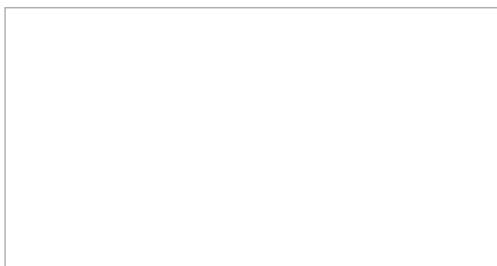
## 8 - 2 Sound Pressure Spectrum

8



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