

Air Conditioning Technical Data

FTX-KV



- > FTX20K2V1B
- > FTX25K2V1B
- > FTX35K2V1B
- > FTX50K2V1B
- > FTX60K2V1B
- > FTX71K2V1B

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FTX-KV

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1 Features

Discreet wall mounted unit providing high efficiency and comfort

- Whisper quiet in operation down to 20 dBA
- Online controller: control your indoor from any location with an app, via your local network or internet
- The unit's compact dimensions makes it ideal for renovation projects, especially for above door installation
- Seasonal efficiency values up to A++ in cooling and heating
- Space saving contemporary wall mounted design

1



Econo mode



Energy saving during standby mode



Night set mode



Fan only



Comfort mode



Powerful mode



Auto cooling-heating changeover



Indoor unit silent operation



Vertical auto swing



Auto fan speed



Fan speed steps



Dry programme



Titanium apatite deodorising filter



Infrared remote control



Wired remote control



Online controller via app



Auto-restart



Self diagnosis



Multi model application

2 Specifications

2-1 Technical Specifications					FTX20KV	FTX25KV	FTX35KV	FTX50KV	FTX60KV	FTX71KV
Power input	Cooling	Nom.	kW		0.018	0.020	0.024	0.035	0.041	
	Heating	Nom.	kW		0.022	0.023	0.029	0.038	0.044	
Casing	Colour				White					
Dimensions	Unit	Height/Width/Depth	mm		286/770/225			295/990/263		
	Packed unit	Height/Width/Depth	mm		305/830/360			368/1,080/383		
Weight	Unit		kg		8.5		9.0	13.5		
	Packed unit		kg		10.5		11.0	16.0		
Packing	Weight		kg		2.0			2.5		
Heat exchanger	Length		mm		610			820		
	Rows	Quantity			2					
	Fin pitch		mm		1.40					
	Stages	Quantity			18					
	Passes	Quantity			2.25		2.20	6		
	Tube type		ø5 Hi-XB							
	Fin	Type		ML fin (Multi louver)						
Heat exchanger 2	Length		mm		-		600	810		
	Rows	Quantity			-		1			
	Fin pitch		mm		-		1.40			
	Stages	Quantity			-		4	8		
Air filter	Type				Removable / washable					
Fan	Type				Cross flow fan					
	Air flow rate	Cooling	High	m³/min	9.9	10.4	11.8	16.0	17.6	
				cfm	350	367	417	565	622	
			Medium	m³/min	7.8 (1)	8.0 (1)	8.2 (1)	13.7 (1)	14.9 (1)	
				cfm	275	283	290	484	526	
			Low	m³/min	5.8	6.1	6.3	11.1	12.2	
				cfm	205	215	222	392	431	
			Silent operation	m³/min	4.8		4.9	10.1	11.2	
				cfm	170		173	357	396	
		Heating	High	m³/min	10.9	11.1	12.8	16.7	18.9	
				cfm	385	392	452	590	667	
			Medium	m³/min	8.5 (1)			14.7 (1)	16.7 (1)	
				cfm	300			519	590	
			Low	m³/min	6.4	6.7	6.9	12.2	13.7	
				cfm	226	237	244	431	484	
			Silent operation	m³/min	5.2			10.9	12.1	
				cfm	184			385	427	
Fan motor	Model				MM6K11S20VA			MM9E17S21VA		
	Speed	Steps			5 + silent, + auto					
		Cooling	High/Medium/Low/Silent operation	rpm	980/800/640/550	1,020/820/660/550	1,140/840/680/560	1,000/890/760/690	1,070/950/820/750	
		Heating	High/Medium/Low/Silent operation	rpm	1,060/860/690/590	1,080/860/710/590	1,220/900/730/590	1,030/910/790/720	1,110/1,010/870/790	
	Output	Rated	W		22			46		
Sound power level	Cooling			dBA	55		58	59	60	62
	Heating			dBA	55		58		59	61

2 Specifications

2-1 Technical Specifications				FTX20KV	FTX25KV	FTX35KV	FTX50KV	FTX60KV	FTX71KV
Sound pressure level	Cooling	High/Medium/ Low/Silent operation	dBA	39/33 (1)/25/20	40/33 (1)/26/20	43/34 (1)/27/20	43/39 (1)/34/31	45/41 (1)/36/33	46/42 (1)/37/34
	Heating	High/Medium/ Low/Silent operation	dBA	39/34/28/23	40/34/28/23	43/35/29/26	42/38/33/30	44/40/35/32	45/41/36/33
Control systems	Infrared remote control			ARC480A11					
	Wired remote control			BRC944B2 / BRC073A1			BRC944B2 / BRC073		
Piping connections	Liquid	OD	6,4						
	Gas	OD	9.50				12.70		
	Drain		18				16		
	Heat insulation			Both liquid and gas pipes					
Temperature control				Microcomputer control					
Air direction control				Right, Left, Horizontal, Downward					

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Infrared 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;

2-2 Electrical Specifications				FTX20KV	FTX25KV	FTX35KV	FTX50KV	FTX60KV	FTX71KV
Power supply	Name			V1			-		
	Phase			1~					
	Frequency		Hz	50					
	Voltage		V	220-240					
Current	Nominal running current (RLA) - 50Hz	Cooling	A	0.18	0.20		0.24	0.28	
		Heating	A	0.21	0.22	0.24	0.26	0.31	

Notes

(1) See separate drawing for electrical data

Options

3 - 1 Options

FTX-KV

Option kit	Product name	Remark	Applicable models	Class	Gauging	Factory
Wired remote control	BRC073A1		FTX20U1VBW	20	DM1A2	DC1
Wired remote control	BRC944B2		FTX20U1VBS	20	DM1A2	DC2
Extension cord for wired remote control (3-m)	BRCW901A03		FTX25U1VBW	25	DM1A2	DC1
Extension cord for wired remote control (5-m)	BRCW901A08		FTX25U1VBS	25	DM1A2	DC2
Interface adaptor for wired remote control	KRP980B1		FTX25U1VBW	25	DM1A2	DC1
Interface adaptor for wired remote control	EKRP067A41		FTX25U1VBS	25	DM1A2	DC2
Interface adaptor for wired remote control	EKRP980B2		FTX25U1VBW	25	DM1A2	DC1
Centralised control board (up to 5-rooms)	KRC72A		FTX25U1VBS	25	DM1A2	DC2
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB15		FTX25U1VBW	25	DM1A2	DC1
Wi-Fi adaptor for smartphones	BRP069B41	(4)(6)	FTX25U1VBS	25	DM1A2	DC2
Wi-Fi adaptor for smartphones	BRP069B42	(6)	FTX25U1VBW	25	DM1A2	DC1
Wi-Fi adaptor for smartphones	BRP069B43	(6)	FTX25U1VBS	25	DM1A2	DC2
Wi-Fi adaptor for smartphones	BRP069A44	(7)	FTX25U1VBW	25	DM1A2	DC1
Wi-Fi adaptor for smartphones	BRP069B45	(6)	FTX25U1VBS	25	DM1A2	DC2
Interface adaptor for DIII-NET	KRP928B825		FTX25U1VBW	25	DM1A2	DC1
Central remote control	DCS302CA51		FTX25U1VBS	25	DM1A2	DC2
Unified ON/OFF controller	DCS301BA51		FTX25U1VBW	25	DM1A2	DC1
Schedule timer	DST301BA51		FTX25U1VBS	25	DM1A2	DC2
Titanium apatite deodorising filter without frame	KAF971A42	(1)	FTX25U1VBW	25	DM1A2	DC1
Titanium apatite deodorising filter without frame	KAF952B42	(3)	FTX25U1VBS	25	DM1A2	DC2
Titanium apatite deodorising filter without frame	KAF970A46	(2)	FTX25U1VBW	25	DM1A2	DC1
Honeycomb deodorising and air-purifying filter without frame	KAF968A42		FTX25U1VBS	25	DM1A2	DC2
Honeycomb deodorising filter with frame	KAZ917B41		FTX25U1VBW	25	DM1A2	DC1
Honeycomb deodorising filter without frame	KAZ917B42		FTX25U1VBS	25	DM1A2	DC2
Air-purifying filter with frame	KAF925B41		FTX25U1VBW	25	DM1A2	DC1
Honeycomb deodorising and air-purifying filter with frame	KAF046A41		FTX25U1VBS	25	DM1A2	DC2
Anti-theft protection for remote control	KKF910AA4		FTX25U1VBW	25	DM1A2	DC1
Anti-theft protection for remote control	KKF917AA4		FTX25U1VBS	25	DM1A2	DC2
Anti-theft protection for remote control	KKF936AA4		FTX25U1VBW	25	DM1A2	DC1
Installation frame for floor-standing units	BKS028A4		FTX25U1VBS	25	DM1A2	DC2

Notes

- R410A models

Legend

- Three-dimensional knitted fabric (-42x275-mm) + activated charcoal net
- Three-dimensional knitted fabric (-42x255-mm) + activated charcoal net
- Corrugated fiberboard (-42x275-mm)
- Without connection cable
- The "Wi-Fi adaptor for smartphones" is not an option for Israel.
- Option -BRP069A**- was replaced by option -BRP069B**.
- This option is no longer produced.

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FTX-KV

Option kit	Product name	Remark	Applicable models	Class	Gauging	Factory
Wired remote control	BRC073A1		PW625K2V1B	25	R-FV	DC1
Wired remote control	BRC944B2		PW65K2V1B	35	R-FV	DC2
Extension cord for wired remote control (3-m)	BRCW901A03		PW65K2V1B	50	R-FV	DC2
Extension cord for wired remote control (5-m)	BRCW901A08		FLS25BAVMB	25	FLEXI	DL(B)
Interface adaptor for wired remote control	KRP980B1		FLS35BAVMB	35	FLEXI	DL(B)
Interface adaptor for wired remote control	EKRP067A41		FLS50BAVMB	50	FLEXI	DL(B)
Interface adaptor for wired remote control	EKRP980B2		PW625FV1B	25	06-FV	DL(B)
Centralised control board (up to 5-rooms)	KRC72A		PW635FV1B	35	06-FV	DL(B)
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB15		PW650FV1B	20	GS1	DC1
Wi-Fi adaptor for smartphones	BRP069B41	(4)(5)	FTX253V1B	25	GS1	DC2
Wi-Fi adaptor for smartphones	BRP069B42	(5)	FTX253V1B	35	GS1	DC2
Wi-Fi adaptor for smartphones	BRP069B43	(5)	ATX253V1B	25	GS1	DC2
Wi-Fi adaptor for smartphones	BRP069A44	(6)	ATX353V1B	35	GS1	DC2
Wi-Fi adaptor for smartphones	BRP069B45	(5)	FTX20V1B	20	BMS	DSZ
Interface adaptor for DIII-NET	KRP928B825		FTX25V1B	25	BMS	DSZ
Central remote control	DCS302CA51		FTX35V1B	35	BMS	DSZ
Unified ON/OFF controller	DCS301BA51		ATX20V1B	20	BMS	DSZ
Schedule timer	DST301BA51		ATX25V1B	25	BMS	DSZ
Titanium apatite deodorising filter without frame	KAF971A42	(1)	ATX35V1B	35	BMS	DSZ
Titanium apatite deodorising filter without frame	KAF952B42	(3)	FTX60V1B	60	BAL	DSZ
Titanium apatite deodorising filter without frame	KAF970A46	(2)	FTX60V1B	60	BAL	DSZ
Titanium apatite deodorising filter with frame	BAF925D41		FTXLS25K2V1B	25	MCW	DC1
Titanium apatite deodorising filter without frame	BAF925D42		FTXLS35K2V1B	35	MCW	DC2
Honeycomb deodorising and air-purifying filter without frame	KAF968A42		FTXLS25K1V1B	25	MCW	DC1
Honeycomb deodorising filter with frame	KAZ917B41		FTXLS35K1V1B	35	MCW	DC2
Honeycomb deodorising filter without frame	KAZ917B42		FTXLS25K2V1B	25	GS1	DC1
Air-purifying filter with frame	KAF925B41		FTXLS35K2V1B	35	GS1	DC2
Honeycomb deodorising and air-purifying filter with frame	KAF046A41		FTXLS25K1V1B	25	GS1	DC1
Anti-theft protection for remote control	KKF910AA4		FTXLS35K1V1B	35	GS1	DC2
Anti-theft protection for remote control	KKF917AA4		FTXLS25K2V1B	25	GS1	DC1
Anti-theft protection for remote control	KKF936AA4		FTXLS35K2V1B	35	GS1	DC2
Installation frame for floor-standing units	BKS028A4		FTXLS25K1V1B	25	GS1	DC1

Notes

- R410A models

Legend

- Three-dimensional knitted fabric (-42x275-mm) + activated charcoal net
- Three-dimensional knitted fabric (-42x255-mm) + activated charcoal net
- Corrugated fiberboard (-42x275-mm)
- Without connection cable
- Option -BRP069A**- was replaced by option -BRP069B**.
- This option is no longer produced.

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3 Options

3 - 1 Options

FTX-KV

3

Option kit	Product name	Remark	Applicable models	Class	Casing	Factory
Wired remote control	BRC073A1		ATXL252V1B	25	GS1	DIQ
Wired remote control	BRC944B2		ATXL352V1B	35	GS1	DIQ
Extension cord for wired remote control (3-m)	BRCW901A03		FTX50KVV1B	50	BML	DSZ
Extension cord for wired remote control (5-m)	BRCW901A08		FTX50KVV1B	50	BML	DSZ
Interface adaptor for wired remote control	KRP980B1		FTX71KVV1B	71	BML	DSZ
Interface adaptor for wired remote control	EKRP067A41		FTX50KVV1B	50	BML	DIQ
Interface adaptor for wired remote control	EKRP067A41		FTX60KVV1B	60	BML	DIQ
Centralised control board (up to 5-rooms)	KRC72A		FTX71KVV1B	71	BML	DIQ
Wiring adaptor (normal open contact - normal open pulse contact)	KRP413AB15		FTX20KVV1B	20	BMS	DIQ
Wi-Fi adaptor for smartphones	BRP069B41	(4) (6)	FTX20KVV1B	20	BMS	DIQ
Wi-Fi adaptor for smartphones	BRP069B42	(6)	FTX25KVV1B	25	BMS	DIQ
Wi-Fi adaptor for smartphones	BRP069B43	(6)	FTX25KVV1B	25	BMS	DIQ
Wi-Fi adaptor for smartphones	BRP069A44	(7)	FTX35KVV1B	35	BMS	DIQ
Wi-Fi adaptor for smartphones	BRP069B45	(6)	FTX35KVV1B	35	BMS	DIQ
Interface adaptor for DII-NET	KRP028B75		FTX35KVV1B	35	BMS	DIQ
Central remote control	DCS302CA51		ATX25KVV1B	25	BMS	DIQ
Unified ON/OFF controller	DCS301BA51		ATX25KVV1B	25	BMS	DIQ
Schedule timer	DST301BA51		ATX25KVV1B	25	BMS	DIQ
Titanium apatite deodorising filter without frame	KAF971A42	(1)	ATX25KVV1B	25	BMS	DIQ
Titanium apatite deodorising filter without frame	KAF952B42	(3)	ATX25KVV1B	25	BMS	DIQ
Titanium apatite deodorising filter without frame	KAF970A46	(2)	ATX25KVV1B	25	BMS	DIQ
Honeycomb deodorising and air-purifying filter without frame	KAF968A42		ATX25KVV1B	25	BMS	DIQ
Honeycomb deodorising filter with frame	KA2917B41		ATX25KVV1B	25	BMS	DIQ
Honeycomb deodorising filter without frame	KA2917B42		ATX25KVV1B	25	BMS	DIQ
Air-purifying filter with frame	KA2925B41		ATX25KVV1B	25	BMS	DIQ
Honeycomb deodorising and air-purifying filter with frame	KAF046A41		ATX25KVV1B	25	BMS	DIQ
Anti-theft protection for remote control	KKF910AA4		ATX25KVV1B	25	BMS	DIQ
Anti-theft protection for remote control	KKF917AA4		ATX25KVV1B	25	BMS	DIQ
Anti-theft protection for remote control	KKF936A4		ATX25KVV1B	25	BMS	DIQ
Installation frame for floor-standing units	BKS028A4		ATX25KVV1B	25	BMS	DIQ

Notes

1. R410A models

Legend

- ① Three-dimensional knitted fabric (-42x275-mm) + activated charcoal net
- ② Three-dimensional knitted fabric (-42x255-mm) + activated charcoal net
- ③ Corrugated fiberboard (-42x275-mm)
- ④ Without connection cable
- ⑤ The "Wi-Fi adaptor for smartphones" is not an option for Israel.
- ⑥ Option - BRP069A**- was replaced by option - BRP069B**-.
- ⑦ This option is no longer produced.

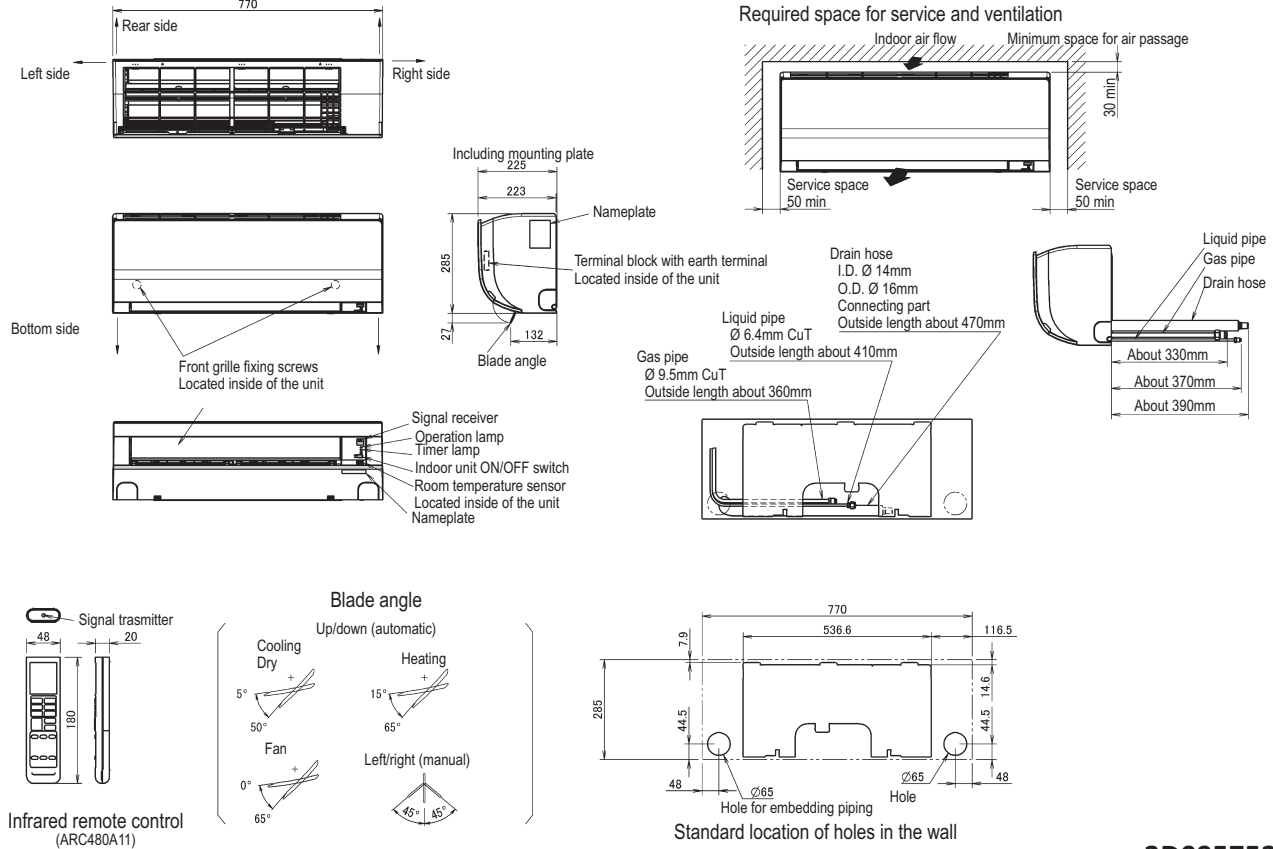
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4 Dimensional drawings

4 - 1 Dimensional Drawings

FTX20-35KV

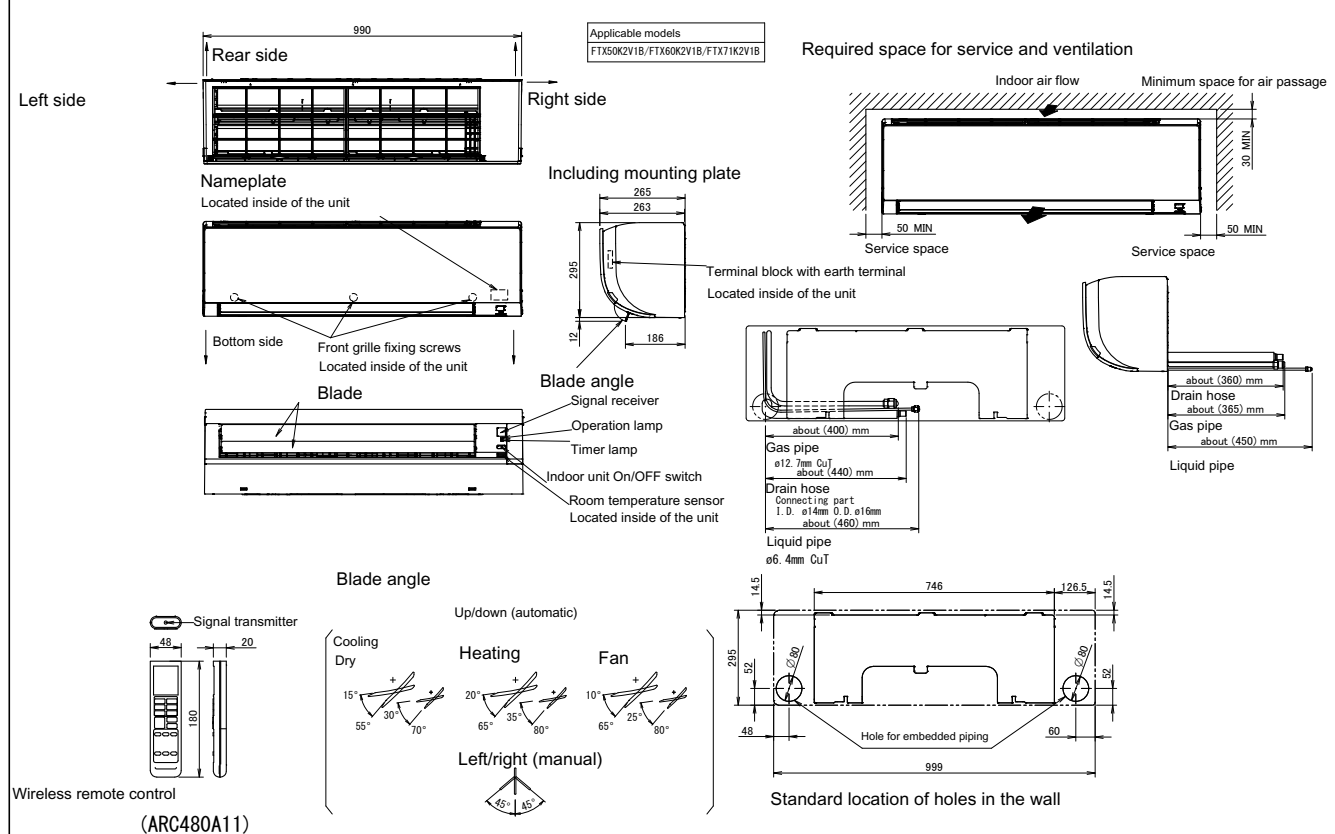
The → mark shows the piping direction.



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FTX50-71KV

The → mark shows the piping direction.

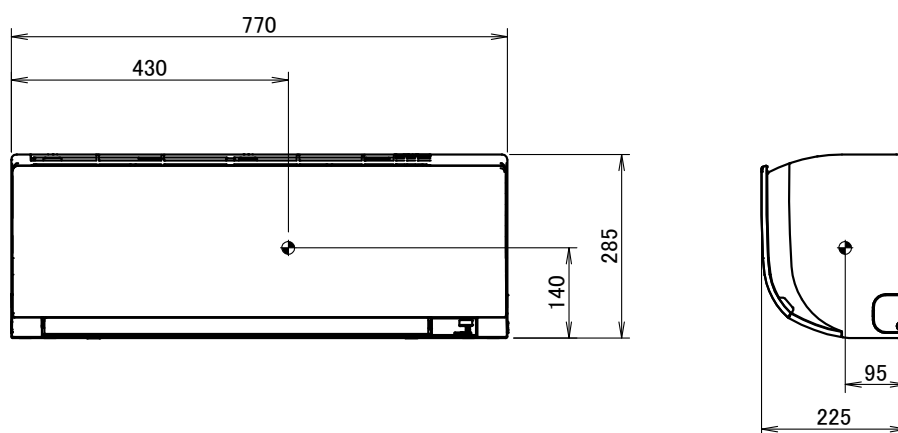


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5 Centre of gravity

5 - 1 Centre of Gravity

FTX20-35KV

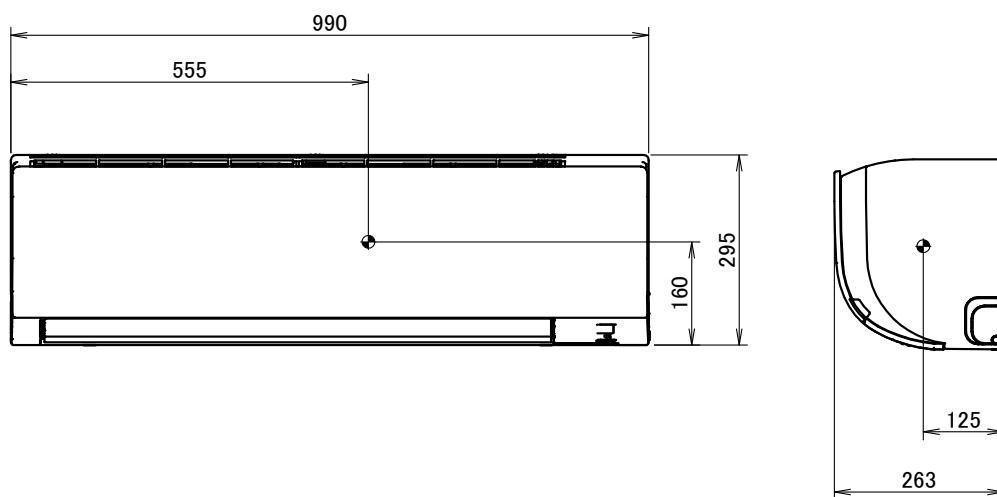


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5 Centre of gravity

5 - 1 Centre of Gravity

FTX50-71KV



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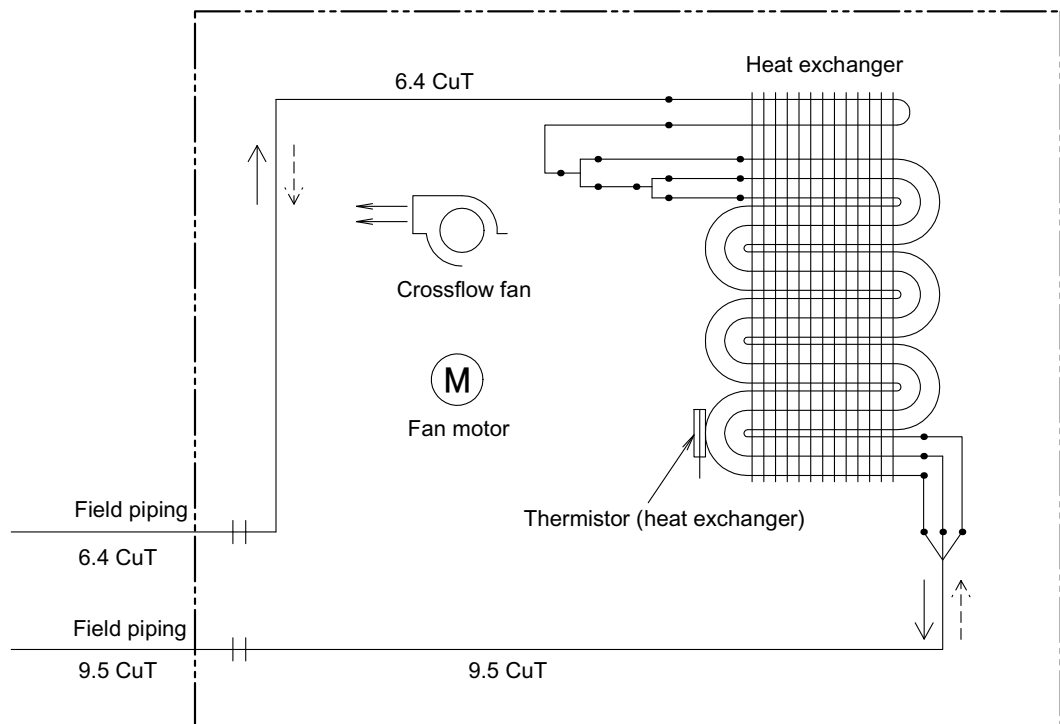
6 Piping diagrams

6 - 1 Piping Diagrams

FTX20-25KV

6

Indoor unit



Refrigerant flow

—> Cooling

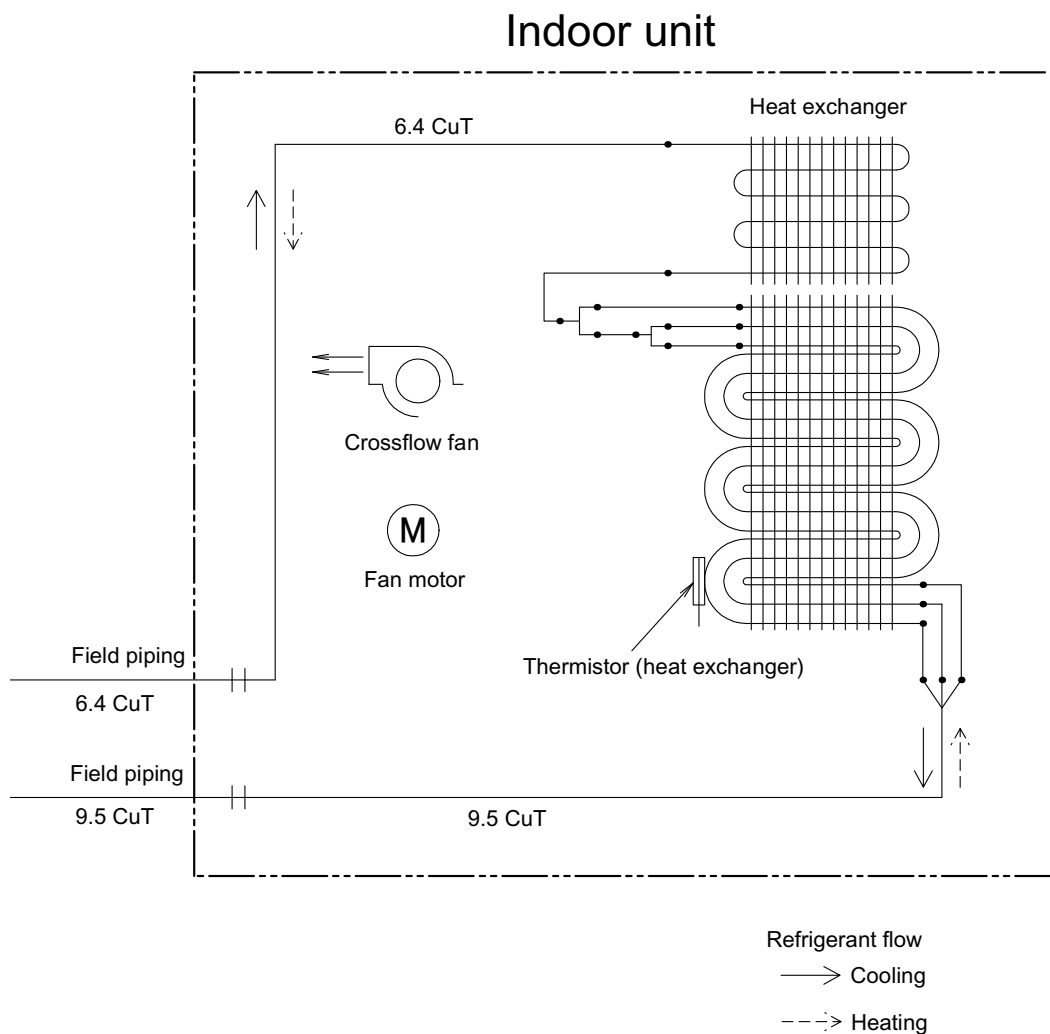
- - -> Heating

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6 Piping diagrams

6 - 1 Piping Diagrams

FTX35KV

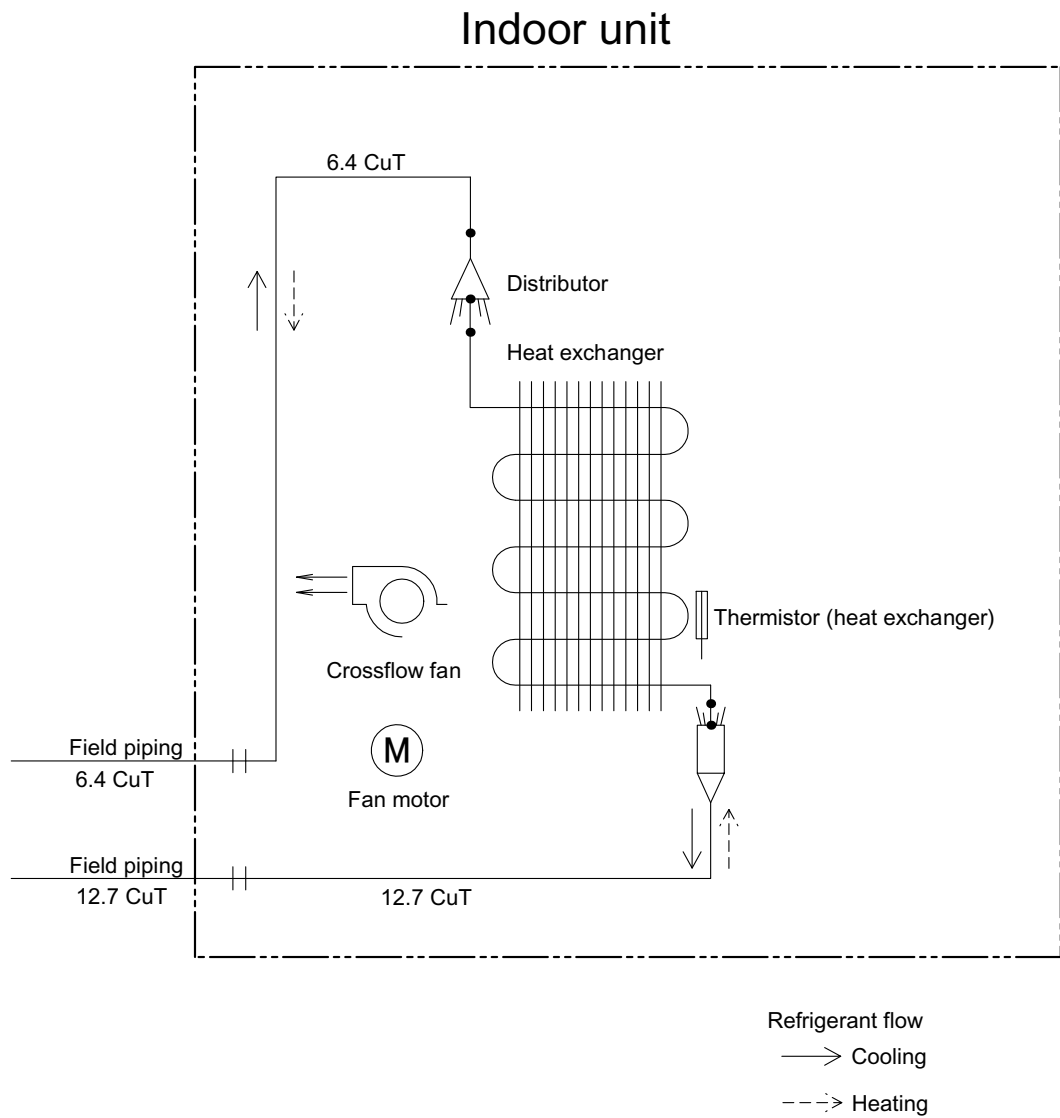


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6 Piping diagrams

6 - 1 Piping Diagrams

FTX50-71KV

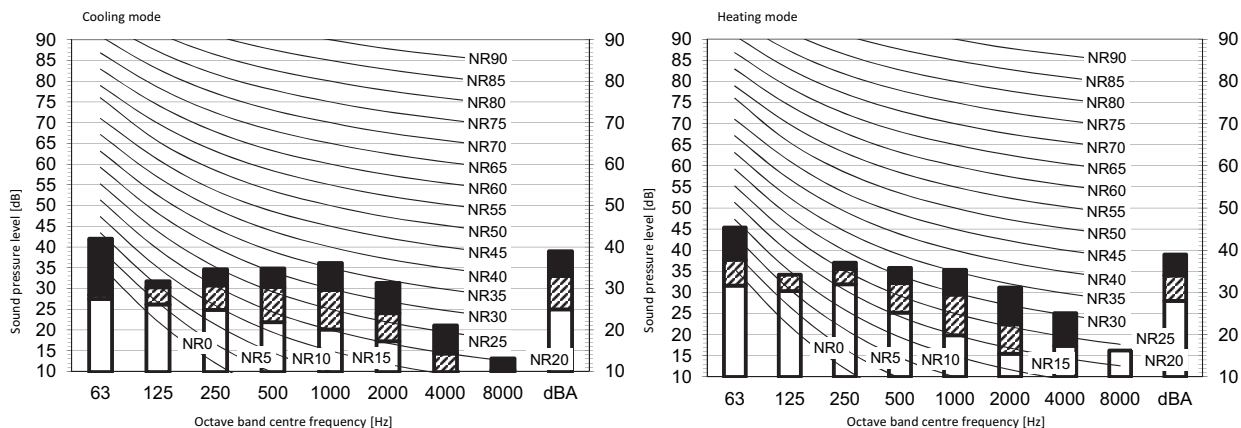


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8 Sound data

8 - 1 Sound Pressure Spectrum

FTX20KV



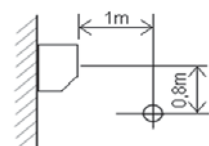
Legend

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

A Scale

- B High-tap
- C Medium-tap
- D Low-tap

Location of microphone



Cooling Total dB				
A	B	C	D	
dBA	39	33	25	

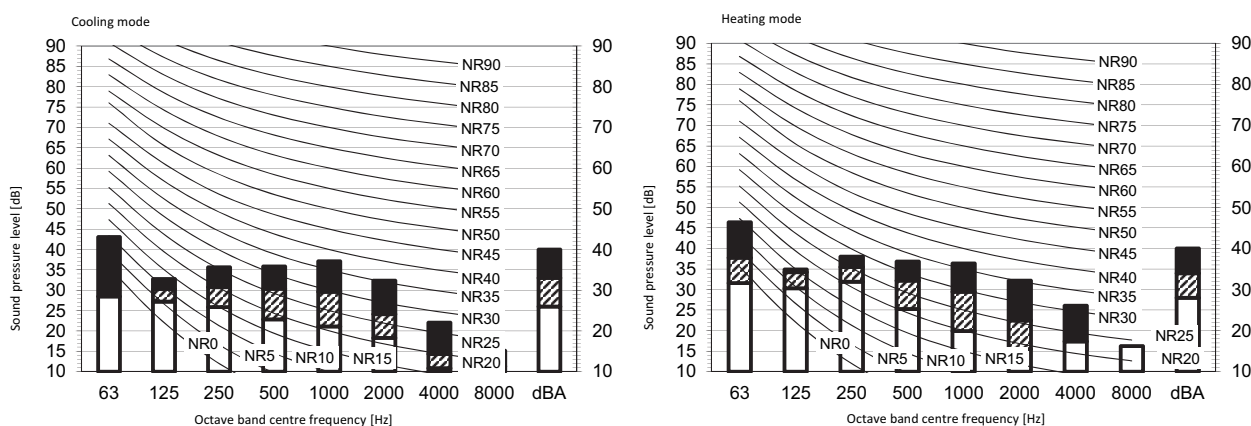
Heating Total dB				
A	B	C	D	
dBA	39	34	28	

Notes

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

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FTX25KV



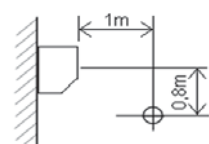
Legend

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

A Scale

- B High-tap
- C Medium-tap
- D Low-tap

Location of microphone



Cooling Total dB				
A	B	C	D	
dBA	40	33	26	

Heating Total dB				
A	B	C	D	
dBA	40	34	28	

Notes

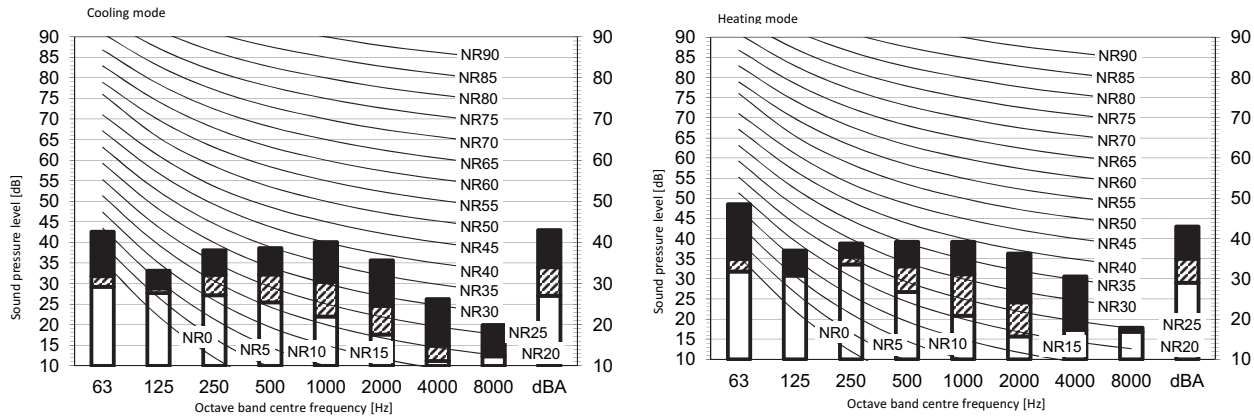
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

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8 Sound data

8 - 1 Sound Pressure Spectrum

FTX35KV



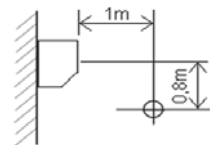
Legend

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

A Scale

- B High-tap
- C Medium-tap
- D Low-tap

Location of microphone



Cooling

Total dB

A	B	C	D
dBA	43	34	27

Heating

Total dB

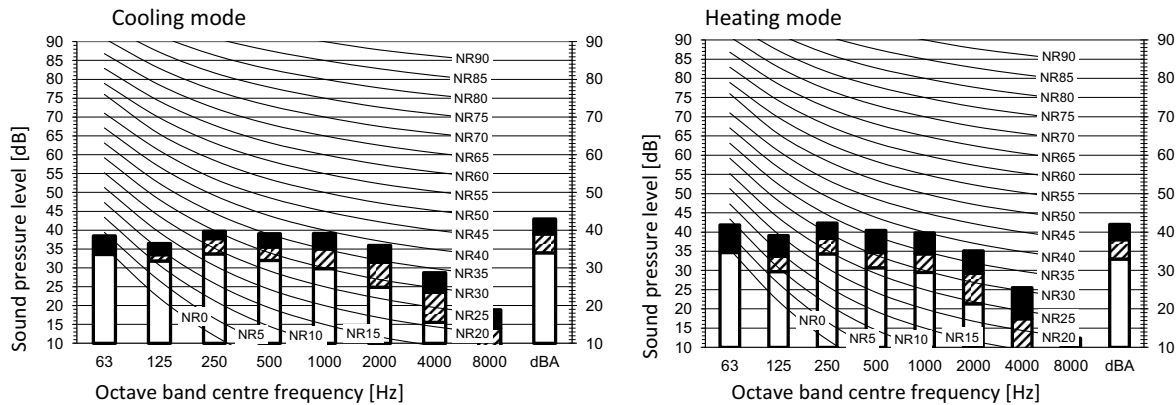
A	B	C	D
dBA	43	35	29

Notes

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

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FTX50KV



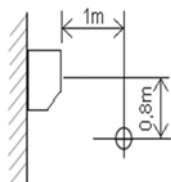
Legend

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

A Scale

- B High-tap
- C Medium-tap
- D Low-tap

Location of microphone



Cooling

Total dB

A	B	C	D
dBA	43	39	34

Heating

Total dB

A	B	C	D
dBA	42	38	33

Notes

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

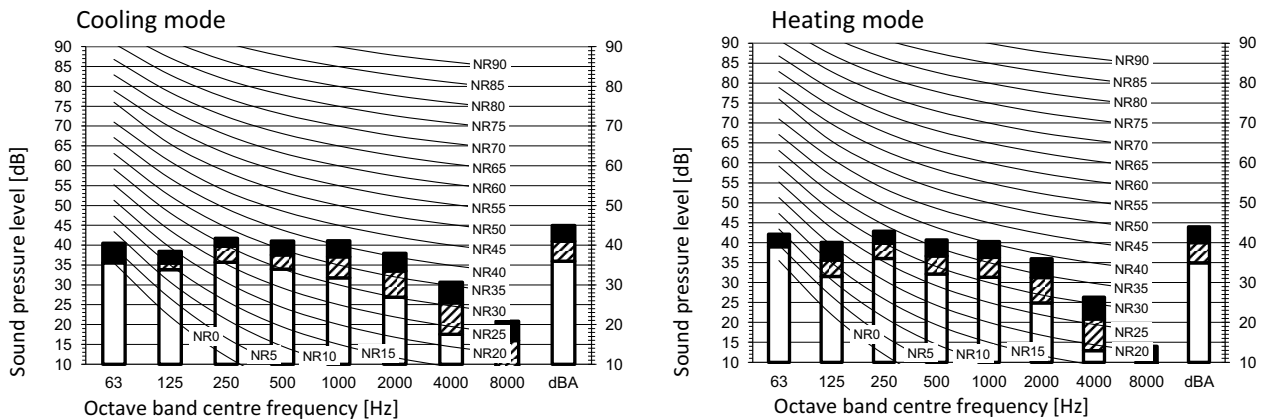
3D095160B

8 Sound data

8 - 1 Sound Pressure Spectrum

8

FTX60KV

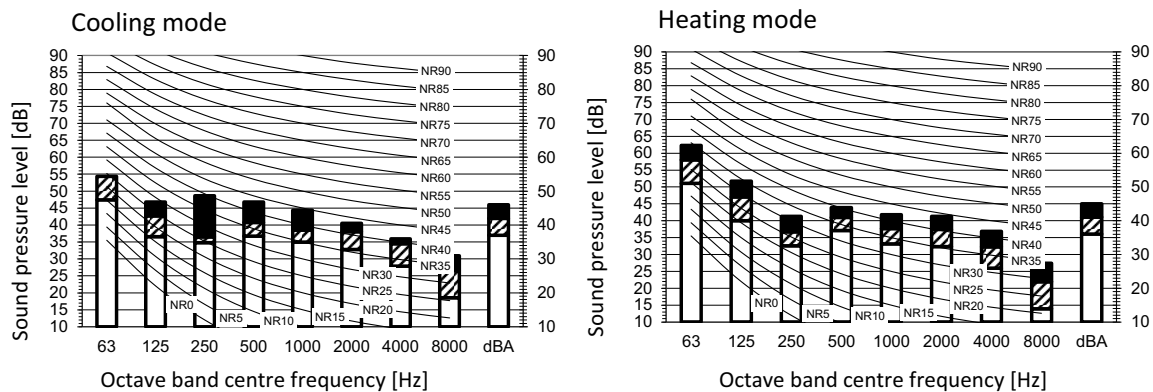


Notes

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

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FTX71KV



Notes

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

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Daikin Europe N.V. Naamloze Vennootschap - Zandvoordestraat 300, B-8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende



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