



# technical data

Round Flow Cassette

FXFQ-P8VEB

air conditioning systems

*VRV<sup>®</sup> III-S*

*VRV<sup>®</sup> III*

*VRV<sup>®</sup> -WII*

**R-410A**





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**R-410A**

**VRV<sup>®</sup> III-S**

**VRV<sup>®</sup> III**

**VRV<sup>®</sup>-WII**



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# 1 Specifications

1-1 TECHNICAL SPECIFICATIONS				FXFQ20P8VEB	FXFQ25P8VEB	FXFQ32P8VEB	FXFQ40P8VEB	FXFQ50P8VEB
Capacity	Cooling	kW		2.2	2.8	3.6	4.5	5.6
	Heating	kW		2.5	3.2	4.0	5.0	6.3
Power Input (50Hz)	Cooling	kW		0.053	0.053	0.053	0.063	0.083
	Heating	kW		0.045	0.045	0.045	0.055	0.067
Power Input (60Hz)	Cooling	kW		0.052	0.052	0.052	0.062	0.082
	Heating	kW		0.045	0.045	0.045	0.055	0.067
Casing	Material			Galvanised steel				
Dimensions	Packing	Height	mm	220	220	220	220	220
		Width	mm	882	882	882	882	882
		Depth	mm	882	882	882	882	882
	Unit	Height	mm	204	204	204	204	204
		Width	mm	840	840	840	840	840
		Depth	mm	840	840	840	840	840
Weight	Unit		kg	20	20	20	20	21
	Packed Unit		kg	24	24	24	24	26
Dimensions	Length	Inside	mm	2,096				
		Outside	mm	2,152				
Heat Exchanger	Dimensions	Nr of Rows		2	2	2	2	2
		Fin Pitch	mm	1.2	1.2	1.2	1.2	1.2
		Nr of Passes		2	2	3	3	7
		Face Area	m <sup>2</sup>	0.267	0.267	0.267	0.267	0.357
		Nr of Stages		6	6	6	6	8
		Empty Tubeplate Hole		4	4			
Fin	Fin type			Cross fin coil (Multi louver fins and Hi-XSS tubes)				
Fan	Type			Turbo fan				
	Quantity			1	1	1	1	1
Air Flow Rate	Cooling	High	m <sup>3</sup> /min	12.5	12.5	12.5	13.5	15.5
		Low	m <sup>3</sup> /min	9.0	9.0	9.0	9.0	10.0
	Heating	High	m <sup>3</sup> /min	12.5	12.5	12.5	13.5	15.0
		Low	m <sup>3</sup> /min	9.0	9.0	9.0	9.0	9.5
Fan	Motor	Model		QTS48D11M				
		Steps		2	2	2	2	2
		Output (high)	W	56	56	56	56	56
Refrigerant	Name			R-410A				
Sound level	Cooling	Sound power (nominal)	dB(A)	49	49	49	50	51
Cooling	Sound Pressure	High	dB(A)	31	31	31	32	33
		Low	dB(A)	28	28	28	28	28
Heating	Sound Pressure	High	dB(A)	31	31	31	32	33
		Low	dB(A)	28	28	28	28	28
Piping connections	Liquid (OD)	Type		Flare connection				
		Diameter	mm	6.4	6.4	6.4	6.4	6.4
	Gas	Type		Flare connection				
		Diameter	mm	12.7	12.7	12.7	12.7	12.7
	Drain	Diameter		VP25 (I.D. 25/O.D. 32)				
	Heat Insulation			Foamed polystyrene/foamed polyethylene				
Sound absorbing insulation			(Foamed Polyurethane)					
Decoration Panel	Model			BYCQ140CW1				
	Colour			RAL9010				
	Dimensions	Height	mm	50	50	50	50	50
		Width	mm	950	950	950	950	950
Depth		mm	950	950	950	950	950	
Weight		kg	5.5	5.5	5.5	5.5	5.5	
Air Filter	Resin net with mold resistance							

# 1 Specifications

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1-1 TECHNICAL SPECIFICATIONS			FXFQ20P8VEB	FXFQ25P8VEB	FXFQ32P8VEB	FXFQ40P8VEB	FXFQ50P8VEB		
Standard Accessories	Standard Accessories		Installation and operation manual						
			Drain hose						
			Washer for hanging bracket						
			Screws						
			Sealing pads						
			Insulation for fitting						
			Clamp for drain hose						
			Installation guide						
			Drain sealing pad						
Notes			The sound pressure values are mentioned for a unit installed with rear suction						
			The sound power level is an absolute value indicating the power which a sound source generates.						
			Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 5m, level difference : 0m.						
			Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 5m, level difference : 0m.						
			Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.						

1-1 TECHNICAL SPECIFICATIONS				FXFQ63P8VEB	FXFQ80P8VEB	FXFQ100P8VEB	FXFQ125P8VEB
Capacity	Cooling	kW		7.1	9.0	11.2	14.0
	Heating	kW		8.0	10.0	12.5	16.0
Power Input (50Hz)	Cooling	kW		0.095	0.120	0.173	0.258
	Heating	kW		0.114	0.108	0.176	0.246
Power Input (60Hz)	Cooling	kW		0.094	0.119	0.172	0.257
	Heating	kW		0.114	0.108	0.176	0.246
Casing	Material			Galvanised steel			
Dimensions	Packing	Height	mm	220	262	262	304
		Width	mm	882	882	882	882
		Depth	mm	882	882	882	882
	Unit	Height	mm	204	246	246	288
		Width	mm	840	840	840	840
		Depth	mm	840	840	840	840
Weight	Unit		kg	21	24	24	26
	Packed Unit		kg	26	28	28	31
Dimensions	Length	Inside	mm	2,096			
		Outside	mm	2,152			
Heat Exchanger	Dimensions	Nr of Rows		2	2	2	2
		Fin Pitch	mm	1.2	1.2	1.2	1.2
		Nr of Passes		7	9	9	11
		Face Area	m <sup>2</sup>	0.357	0.446	0.446	0.535
	Nr of Stages		8	10	10	12	
Fan	Fin	Fin type		Cross fin coil (Multi louver fins and Hi-XSS tubes)			
Fan	Type			Turbo fan			
	Quantity			1	1	1	1
Air Flow Rate	Cooling	High	m <sup>3</sup> /min	16.5	23.5	26.5	33.0
		Low	m <sup>3</sup> /min	11.0	14.5	17.0	20.0
	Heating	High	m <sup>3</sup> /min	17.5	23.5	28.0	33.0
		Low	m <sup>3</sup> /min	12.0	14.5	17.5	20.0
Fan	Motor	Model		QTS48D11M	QTS48C15M	QTS48C15M	QTS48C15M
		Steps		2	2	2	2
		Output (high)	W	56	120	120	120
Refrigerant	Name			R-410A			
Sound level	Cooling	Sound power (nominal)	dBA	52	55	58	61
		Sound Pressure	High	dBA	34	38	41
			Low	dBA	29	32	33



# 1 Specifications

1-1 TECHNICAL SPECIFICATIONS				FXFQ63P8VEB	FXFQ80P8VEB	FXFQ100P8VEB	FXFQ125P8VEB
Heating	Sound Pressure	High	dBA	36	38	42	44
		Low	dBA	30	32	34	34
Piping connections	Liquid (OD)	Type		Flare connection			
		Diameter	mm	9.52	9.52	9.52	9.52
	Gas	Type		Flare connection			
		Diameter	mm	15.9	15.9	15.9	15.9
	Drain	Diameter	mm	VP25 (I.D. 25/O.D. 32)			
Heat Insulation		Foamed polystyrene/foamed polyethylene					
Sound absorbing insulation		(Foamed Polyurethane)					
Decoration Panel	Model			BYCQ140CW1			
	Colour			RAL9010			
	Dimensions	Height	mm	50	50	50	50
		Width	mm	950	950	950	950
		Depth	mm	950	950	950	950
Weight		kg	5.5	5.5	5.5	5.5	
Air Filter				Resin net with mold resistance			
Standard Accessories	Standard Accessories			Installation and operation manual			
				Drain hose			
				Washer for hanging bracket			
				Screws			
				Sealing pads			
				Insulation for fitting			
				Clamp for drain hose			
				Installation guide			
				Drain sealing pad			
				Notes			
				The sound power level is an absolute value indicating the power which a sound source generates.			
				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 5m, level difference : 0m.			
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 5m, level difference : 0m.			
				Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.			

1-2 ELECTRICAL SPECIFICATIONS (50HZ)			FXFQ20P8VEB	FXFQ25P8VEB	FXFQ32P8VEB	FXFQ40P8VEB	FXFQ50P8VEB
Power Supply	Name		VE				
	Frequency	Hz	50				
	Voltage	V	220-240				
Current	Minimum circuit amps (MCA)	A	0.4	0.4	0.4	0.5	0.6
	Maximum fuse amps (MFA)	A	16	16	16	16	16
	Full load amps (FLA)	A	0.3	0.3	0.3	0.4	0.5
Voltage range	Minimum	V	-10%				
	Maximum	V	+10%				
Notes			Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.				
			Maximum allowable voltage range variation between phases is 2%.				
			MCA/MFA : MCA = 1.25 x FLA				
			MFA is smaller than or equal to 4 x FLA				
			Next lower standard fuse rating minimum 16A				
			Select wire size based on the MCA				
			Instead of a fuse, use a circuit breaker				

# 1 Specifications

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1-2 ELECTRICAL SPECIFICATIONS (50HZ)			FXFQ63P8VEB	FXFQ80P8VEB	FXFQ100P8VEB	FXFQ125P8VEB
Power Supply	Name		VE			
	Frequency	Hz	50			
	Voltage	V	220-240			
Current	Minimum circuit amps (MCA)	A	0.9	0.9	1.4	1.9
	Maximum fuse amps (MFA)	A	16	16	16	16
	Full load amps (FLA)	A	0.7	0.7	1.1	1.5
Voltage range	Minimum	V	-10%			
	Maximum	V	+10%			
Notes			Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.			
			Maximum allowable voltage range variation between phases is 2%.			
			MCA/MFA : MCA = 1.25 x FLA			
			MFA is smaller than or equal to 4 x FLA			
			Next lower standard fuse rating minimum 16A			
			Select wire size based on the MCA Instead of a fuse, use a circuit breaker			

1-3 ELECTRICAL SPECIFICATIONS (60HZ)			FXFQ20P8VEB	FXFQ25P8VEB	FXFQ32P8VEB	FXFQ40P8VEB	FXFQ50P8VEB
Power Supply	Name		VE				
	Frequency	Hz	60				
	Voltage	V	220				
Current	Minimum circuit amps (MCA)	A	0.4	0.4	0.4	0.5	0.6
	Maximum fuse amps (MFA)	A	16	16	16	16	16
	Full load amps (FLA)	A	0.3	0.3	0.3	0.4	0.5
Voltage range	Minimum	V	-10%				
	Maximum	V	+10%				
Notes			Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.				
			Maximum allowable voltage range variation between phases is 2%.				
			MCA/MFA : MCA = 1.25 x FLA				
			MFA is smaller than or equal to 4 x FLA				
			Next lower standard fuse rating minimum 16A				
			Select wire size based on the MCA Instead of a fuse, use a circuit breaker				

1-3 ELECTRICAL SPECIFICATIONS (60HZ)			FXFQ63P8VEB	FXFQ80P8VEB	FXFQ100P8VEB	FXFQ125P8VEB
Power Supply	Name		VE			
	Frequency	Hz	60			
	Voltage	V	220			
Current	Minimum circuit amps (MCA)	A	0.9	0.9	1.4	1.9
	Maximum fuse amps (MFA)	A	16	16	16	16
	Full load amps (FLA)	A	0.7	0.7	1.1	1.5
Voltage range	Minimum	V	-10%			
	Maximum	V	+10%			
Notes			Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.			
			Maximum allowable voltage range variation between phases is 2%.			
			MCA/MFA : MCA = 1.25 x FLA			
			MFA is smaller than or equal to 4 x FLA			
			Next lower standard fuse rating minimum 16A			
			Select wire size based on the MCA Instead of a fuse, use a circuit breaker			

## 2 Safety device settings

Safety devices		FXFQ20P8	FXFQ25P8	FXFQ32P8	FXFQ40P8	FXFQ 50P8	FXFQ 63P8	FXFQ80P8	FXFQ100P8	FXFQ125P8
PC board fuse		250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A
Fan motor thermal fuse	°C	---	---	---	---	---	---	---	---	---
Fan motor thermal protector	°C	OFF: 108 <sup>±5</sup> (ON: 96 <sup>±15</sup> )	OFF: 108 <sup>±5</sup> (ON: 96 <sup>±15</sup> )	OFF: 108 <sup>±5</sup> (ON: 96 <sup>±15</sup> )	OFF: 108 <sup>±5</sup> (ON: 96 <sup>±15</sup> )	OFF: 108 <sup>±5</sup> (ON: 96 <sup>±15</sup> )	OFF: 108 <sup>±5</sup> (ON: 96 <sup>±15</sup> )	OFF: 108 <sup>±5</sup> (ON: 96 <sup>±15</sup> )	OFF: 108 <sup>±5</sup> (ON: 96 <sup>±15</sup> )	OFF: 108 <sup>±5</sup> (ON: 96 <sup>±15</sup> )
Drain pump fuse	°C	145	145	145	145	145	145	145	145	145

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# 3 Options

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FXFQ-P8

**OPTIONS**

Item	Model	FXFQ20	FXFQ25	FXFQ32	FXFQ40	FXFQ50	FXFQ63	FXFQ80	FXFQ100	FXFQ125
1	Decoration Panel					BYCQ140CW1				
2	Long life replacement filter		Non-woven type			KAFP551K160				
3	Fresh air intake kit (20% fresh air)		Chamber type			KDDQ55C140				
4	Sealing member of air discharge outlet					KDBHQ55C140				

**CONTROL SYSTEMS**

Item	Model	FXFQ20	FXFQ25	FXFQ32	FXFQ40	FXFQ50	FXFQ63	FXFQ80	FXFQ100	FXFQ125
1	Remote controller	Wireless	H/P			BRC7F532F				
			C/O			BRC7F533F				
	Wired			BRC1D528						
2-1	Wiring adaptor for electrical appendices (1)					KRP2A526 *1				
2-2	Wiring adaptor for electrical appendices (2)					KRP4AA53 *1				
2-3	Wiring adaptor (hour meter)					EKRP1C11*1				
3	Remote sensor					KRCS01-4				
4	Installation box for adaptor PCB					KRP1H98				
5	Central remote controller					DCS302CA51				
6	Unified ON/OFF controller					DCS301BA51				
7	Electrical box with earth terminal (2 blocks)					KJB212AA				
8	Schedule timer					DST301BA51				
9	PCB for multi tenant					DTA114A61				

**NOTE**

- 1\* Installation box is necessary for these adaptors.
- 2\* All options are supplied as kit

3TW31059-1

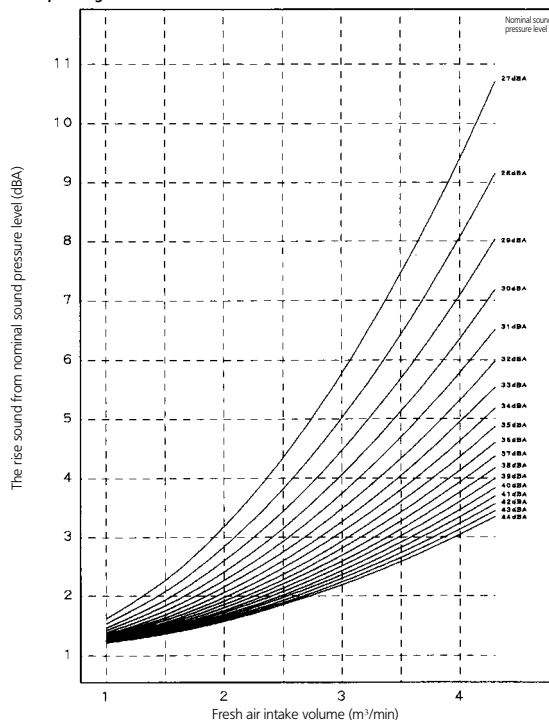
**FXFQ-P8**

**Max fresh air intake volume table**

The maximum intake air flow volume is following table.  
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.

FXFQ-P	20	25	32	40	50	63	80	100	125
Max fresh air intake volume (m <sup>3</sup> /min)	2.5	2.5	2.5	2.7	3.1	3.5	4.3	4.3	4.3

**The rise of operating sound at with fresh air intake kit**



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# 4 Capacity tables

## 4 - 1 Cooling capacity tables

FXFQ-P8		TC: Total capacity/kW - SHC: Sensible capacity/kW															
Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature														
			14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB		
			20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB		
		°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
20	2.2	10.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.9	1.9	
		12.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.9	1.9	
		14.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.8	1.8	
		16.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.8	1.8	
		18.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.7	1.8	
		20.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.7	1.8	
		21.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.7	1.8	
		23.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.6	1.7	
		25.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.6	1.7	
		27.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.7	
		29.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.5	1.7	
		31.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7	
		33.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.7	2.5	1.7	
		35.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.7	2.4	1.7	
37.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.4	1.7			
39.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.7	2.2	1.8	2.3	1.7	2.3	1.7			
25	2.8	10.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.7	2.3	
		12.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.6	2.3	
		14.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.6	2.2	
		16.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.5	2.2	
		18.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.5	2.2	
		20.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.4	2.1	
		21.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.4	2.1	
		23.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.3	2.2	3.4	2.1	
		25.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.3	2.2	3.3	2.1	
		27.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.2	2.1	3.3	2.1	
		29.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.2	2.1	3.2	2.0	
		31.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.1	2.1	3.2	2.1	
		33.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.1	2.1	3.1	2.0	
		35.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.0	2.1	3.1	2.0	
37.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.2	3.0	2.1	3.0	2.0			
39.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.2	2.9	2.0	3.0	2.0			
32	3.6	10.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.7	2.9	
		12.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.7	2.9	
		14.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.6	2.9	
		16.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.6	2.8	
		18.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.5	2.8	
		20.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.4	2.7	
		21.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.4	2.7	
		23.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.2	2.8	4.3	2.7	
		25.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.2	2.8	4.3	2.7	
		27.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.1	2.8	4.2	2.6	
		29.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.1	2.8	4.2	2.6	
		31.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.0	2.7	4.1	2.6	
		33.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	3.9	2.7	4.0	2.6	
		35.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.8	3.9	2.7	4.0	2.6	
37.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.7	2.8	3.8	2.7	3.9	2.6			
39.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.7	2.8	3.8	2.6	3.8	2.6			
40	4.5	10.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.9	3.5	
		12.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.8	3.5	
		14.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.8	3.5	
		16.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.7	3.4	
		18.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.6	3.4	
		20.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.5	3.4	
		21.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.5	3.3	
		23.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.3	3.2	5.4	3.3	
		25.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.2	3.2	5.3	3.3	
		27.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.2	3.1	5.3	3.3	
		29.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.1	3.1	5.2	3.2	
		31.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.0	3.1	5.1	3.2	
		33.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	4.9	3.0	5.0	3.2	
		35.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.7	3.5	4.9	3.0	5.0	3.1	
37.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.7	3.5	4.8	3.0	4.9	3.1			
39.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.6	3.4	4.7	3.0	4.8	3.1			

3TW25592-1



# 4 Capacity tables

## 4 - 2 Heating capacity tables

FXFQ-P8		Outdoor air temp		Indoor air temp.: °CDB					
Unit size	Nominal Capacity			16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	KW	KW	KW	KW	KW	KW
20	2.5	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5	1.5
		-18.8	-19.0	1.5	1.5	1.5	1.5	1.5	1.5
		-16.7	-17.0	1.6	1.6	1.6	1.6	1.6	1.6
		-14.7	-15.0	1.7	1.7	1.7	1.7	1.7	1.7
		-12.6	-13.0	1.8	1.8	1.8	1.8	1.8	1.8
		-10.5	-11.0	1.9	1.9	1.9	1.9	1.9	1.9
		-9.5	-10.0	1.9	1.9	1.9	1.9	1.9	1.9
		-8.5	-9.1	2.0	2.0	1.9	1.9	1.9	1.9
		-7.0	-7.6	2.0	2.0	2.0	2.0	2.0	2.0
		-5.0	-5.6	2.1	2.1	2.1	2.1	2.1	2.1
		-3.0	-3.7	2.2	2.2	2.2	2.2	2.2	2.2
		0.0	-0.7	2.3	2.3	2.3	2.3	2.3	2.3
		3.0	2.2	2.5	2.5	2.4	2.4	2.3	2.2
		5.0	4.1	2.5	2.5	2.5	2.4	2.3	2.2
		7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
		9.0	7.9	2.7	2.7	2.5	2.4	2.3	2.2
		11.0	9.8	2.8	2.7	2.5	2.4	2.3	2.2
13.0	11.8	2.8	2.7	2.5	2.4	2.3	2.2		
15.0	13.7	2.8	2.7	2.5	2.4	2.3	2.2		
25	3.2	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9	1.9
		-18.8	-19.0	1.9	1.9	1.9	1.9	1.9	1.9
		-16.7	-17.0	2.1	2.1	2.0	2.0	2.0	2.0
		-14.7	-15.0	2.2	2.2	2.2	2.2	2.2	2.1
		-12.6	-13.0	2.3	2.3	2.3	2.3	2.3	2.3
		-10.5	-11.0	2.4	2.4	2.4	2.4	2.4	2.4
		-9.5	-10.0	2.5	2.4	2.4	2.4	2.4	2.4
		-8.5	-9.1	2.5	2.5	2.5	2.5	2.5	2.5
		-7.0	-7.6	2.6	2.6	2.6	2.6	2.6	2.6
		-5.0	-5.6	2.7	2.7	2.7	2.7	2.7	2.7
		-3.0	-3.7	2.8	2.8	2.8	2.8	2.8	2.8
		0.0	-0.7	3.0	3.0	3.0	3.0	3.0	2.8
		3.0	2.2	3.1	3.1	3.1	3.1	3.0	2.8
		5.0	4.1	3.3	3.2	3.2	3.1	3.0	2.8
		7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
		9.0	7.9	3.5	3.4	3.2	3.1	3.0	2.8
		11.0	9.8	3.6	3.4	3.2	3.1	3.0	2.8
13.0	11.8	3.6	3.4	3.2	3.1	3.0	2.6		
15.0	13.7	3.6	3.4	3.2	3.1	3.0	2.8		
32	4.0	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3	2.3
		-18.8	-19.0	2.4	2.4	2.4	2.4	2.4	2.4
		-16.7	-17.0	2.6	2.6	2.6	2.6	2.6	2.5
		-14.7	-15.0	2.7	2.7	2.7	2.7	2.7	2.7
		-12.6	-13.0	2.9	2.8	2.8	2.8	2.8	2.8
		-10.5	-11.0	3.0	3.0	3.0	3.0	3.0	3.0
		-9.5	-10.0	3.1	3.1	3.1	3.1	3.0	3.0
		-8.5	-9.1	3.1	3.1	3.1	3.1	3.1	3.1
		-7.0	-7.6	3.2	3.2	3.2	3.2	3.1	3.2
		-5.0	-5.6	3.4	3.4	3.4	3.4	3.4	3.4
		-3.0	-3.7	3.5	3.5	3.5	3.5	3.5	3.5
		0.0	-0.7	3.7	3.7	3.7	3.7	3.7	3.5
		3.0	2.2	3.9	3.9	3.9	3.9	3.7	3.5
		5.0	4.1	4.1	4.1	4.0	3.9	3.7	3.5
		7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
		9.0	7.9	4.3	4.3	4.0	3.9	3.7	3.5
		11.0	9.8	4.5	4.3	4.0	3.9	3.7	3.5
13.0	11.8	4.5	4.3	4.0	3.9	3.7	3.5		
15.0	13.7	4.5	4.3	4.0	3.9	3.7	3.5		
40	5.0	-19.8	-20.0	3.0	2.9	2.9	2.9	2.9	2.9
		-18.8	-19.0	3.0	3.0	3.0	3.0	3.0	3.0
		-16.7	-17.5	3.2	3.2	3.2	3.2	3.2	3.2
		-14.7	-15.0	3.4	3.4	3.4	3.4	3.4	3.4
		-12.6	-13.0	3.6	3.6	3.6	3.5	3.5	3.5
		-10.5	-11.0	3.7	3.7	3.7	3.7	3.7	3.7
		-9.5	-10.0	3.8	3.8	3.8	3.8	3.8	3.8
		-8.5	-9.1	3.9	3.9	3.9	3.9	3.9	3.9
		-7.0	-7.6	4.0	4.0	4.0	4.0	4.0	4.0
		-5.0	-5.6	4.2	4.2	4.2	4.2	4.2	4.2
		-3.0	-3.7	4.4	4.4	4.4	4.4	4.4	4.4
		0.0	-0.7	4.7	4.6	4.6	4.6	4.6	4.4
		3.0	2.2	4.9	4.9	4.9	4.8	4.7	4.4
		5.0	4.1	5.1	5.1	5.0	4.8	4.7	4.4
		7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
		9.0	7.9	5.4	5.3	5.0	4.8	4.7	4.4
		11.0	9.8	5.6	5.3	5.0	4.8	4.7	4.4
13.0	11.8	5.6	5.3	5.0	4.8	4.7	4.4		
15.0	13.7	5.6	5.3	5.0	4.8	4.7	4.4		

3TW25512-2A



# 4 Capacity tables

## 4 - 2 Heating capacity tables

1  
4

FXFQ-P8									
Unit size	Nominal Capacity	Outdoor air temp		Indoor air temp.: °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		(°CDB)	(°CWB)	KW	KW	KW	KW	KW	KW
50	6.3	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
		-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
		-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
		-14.7	-15.0	4.3	4.3	4.3	4.2	4.2	4.2
		-12.6	-13.0	4.5	4.5	4.5	4.5	4.5	4.5
		-10.5	-11.0	4.7	4.7	4.7	4.7	4.7	4.7
		-9.5	-10.0	4.8	4.8	4.8	4.8	4.8	4.8
		-8.5	-9.1	4.9	4.9	4.9	4.9	4.9	4.9
		-7.0	-7.6	5.1	5.1	5.1	5.1	5.1	5.1
		-5.0	-5.6	5.3	5.3	5.3	5.3	5.3	5.3
		-3.0	-3.7	5.5	5.5	5.5	5.5	5.5	5.5
		0.0	-0.7	5.9	5.9	5.8	5.8	5.8	5.5
		3.0	2.2	6.2	6.2	6.2	6.1	5.9	5.5
		5.0	4.1	6.4	6.4	6.3	6.1	5.9	5.5
		7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
		9.0	7.9	6.8	6.7	6.3	6.1	5.9	5.5
		11.0	9.8	7.0	6.7	6.3	6.1	5.9	5.5
13.0	11.8	7.1	6.7	6.3	6.1	5.9	5.5		
15.0	13.7	7.1	6.7	6.3	6.1	5.9	5.5		
63	8.0	-19.8	-20.0	4.7	4.7	4.7	4.7	4.7	4.7
		-18.8	-19.0	4.9	4.9	4.8	4.8	4.8	4.8
		-16.7	-17.0	5.1	5.1	5.1	5.1	5.1	5.1
		-14.7	-15.0	5.4	5.4	5.4	5.4	5.4	5.4
		-12.6	-13.0	5.7	5.7	5.7	5.7	5.7	5.7
		-10.5	-11.0	6.0	6.0	6.0	6.0	6.0	5.9
		-9.5	-10.0	6.1	6.1	6.1	6.1	6.1	6.1
		-8.5	-9.1	6.3	6.3	6.2	6.2	6.2	6.2
		-7.0	-7.6	6.5	6.5	6.4	6.4	6.4	6.4
		-5.0	-5.6	6.8	6.7	6.7	6.7	6.7	6.7
		-3.0	-3.7	7.0	7.0	7.0	7.0	7.0	7.0
		0.0	-0.7	7.5	7.4	7.4	7.4	7.4	7.0
		3.0	2.2	7.9	7.8	7.8	7.7	7.5	7.0
		5.0	4.1	8.1	8.1	8.0	7.7	7.5	7.0
		7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0
		9.0	7.9	8.7	8.5	8.0	7.7	7.5	7.0
		11.0	9.8	8.9	8.5	8.0	7.7	7.5	7.0
13.0	11.8	9.0	8.5	8.0	7.7	7.5	7.0		
15.0	13.7	9.0	8.5	8.0	7.7	7.5	7.0		
80	10.0	-19.8	-20.0	5.9	5.9	5.9	5.9	5.9	5.8
		-18.8	-19.0	6.1	6.1	6.0	6.0	6.0	6.0
		-16.7	-17.0	6.4	6.4	6.4	6.4	6.4	6.4
		-14.7	-15.0	6.8	6.8	6.8	6.7	6.7	6.7
		-12.6	-13.0	7.1	7.1	7.1	7.1	7.1	7.1
		-10.5	-11.0	7.5	7.5	7.5	7.5	7.4	7.4
		-9.5	-10.0	7.7	7.7	7.6	7.6	7.6	7.6
		-8.5	-9.1	7.8	7.8	7.8	7.8	7.8	7.8
		-7.0	-7.6	8.1	8.1	8.1	8.1	8.0	8.0
		-5.0	-5.6	8.4	8.4	8.4	8.4	8.4	8.4
		-3.0	-3.7	8.8	8.8	8.7	8.7	8.7	8.7
		0.0	-0.7	9.3	9.3	9.3	9.3	9.3	8.7
		3.0	2.2	9.8	9.8	9.8	9.7	9.4	8.7
		5.0	4.1	10.2	10.1	10.0	9.7	9.4	8.7
		7.0	6.0	10.5	10.5	10.0	9.7	9.4	8.7
		9.0	7.9	10.8	10.6	10.0	9.7	9.4	8.7
		11.0	9.8	11.2	10.6	10.0	9.7	9.4	8.7
13.0	11.8	11.3	10.6	10.0	9.7	9.4	8.7		
15.0	13.7	11.3	10.6	10.0	9.7	9.4	8.7		
100	12.5	-19.8	-20.0	7.4	7.4	7.3	7.3	7.3	7.3
		-18.8	-19.0	7.6	7.6	7.6	7.5	7.5	7.5
		-16.7	-17.0	8.0	8.0	8.0	8.0	8.0	8.0
		-14.7	-15.0	8.5	8.5	8.4	8.4	8.4	8.4
		-12.6	-13.0	8.9	8.9	8.9	8.9	8.9	8.8
		-10.5	-11.0	9.4	9.3	9.3	9.3	9.3	9.3
		-9.5	-10.0	9.6	9.6	9.5	9.5	9.5	9.5
		-8.5	-9.1	9.8	9.8	9.7	9.7	9.7	9.7
		-7.0	-7.6	10.1	10.1	10.1	10.1	10.1	10.0
		-5.0	-5.6	10.6	10.5	10.5	10.5	10.5	10.5
		-3.0	-3.7	11.0	11.0	10.9	10.9	10.9	10.9
		0.0	-0.7	11.6	11.6	11.6	11.6	11.6	10.9
		3.0	2.2	12.3	12.3	12.2	12.1	11.7	10.9
		5.0	4.1	12.7	12.7	12.5	12.1	11.7	10.9
		7.0	6.0	13.1	13.1	12.5	12.1	11.7	10.9
		9.0	7.9	13.5	13.3	12.5	12.1	11.7	10.9
		11.0	9.8	14.0	13.3	12.5	12.1	11.7	10.9
13.0	11.8	14.1	13.3	12.5	12.1	11.7	10.9		
15.0	13.7	14.1	13.3	12.5	12.1	11.7	10.9		
125	16.0	-19.8	-20.0	9.4	9.4	9.4	9.4	9.4	9.3
		-18.8	-19.0	9.7	9.7	9.7	9.7	9.6	9.6
		-16.7	-17.0	10.3	10.3	10.2	10.2	10.2	10.2
		-14.7	-15.0	10.9	10.8	10.8	10.8	10.8	10.7
		-12.6	-13.0	11.4	11.4	11.4	11.4	11.3	11.3
		-10.5	-11.0	12.0	12.0	11.9	11.9	11.9	11.9
		-9.5	-10.0	12.3	12.2	12.2	12.2	12.2	12.2
		-8.5	-9.1	12.5	12.5	12.5	12.5	12.4	12.4
		-7.0	-7.6	13.0	12.9	12.9	12.9	12.9	12.8
		-5.0	-5.6	13.5	13.5	13.5	13.4	13.4	13.4
		-3.0	-3.7	14.1	14.0	14.0	14.0	14.0	13.9
		0.0	-0.7	14.9	14.9	14.8	14.8	14.8	13.9
		3.0	2.2	15.7	15.7	15.7	15.5	15.0	13.9
		5.0	4.1	16.3	16.2	16.0	15.5	15.0	13.9
		7.0	6.0	16.8	16.8	16.0	15.5	15.0	13.9
		9.0	7.9	17.3	17.0	16.0	15.5	15.0	13.9
		11.0	9.8	17.9	17.0	16.0	15.5	15.0	13.9
13.0	11.8	18.1	17.0	16.0	15.5	15.0	13.9		
15.0	13.7	18.1	17.0	16.0	15.5	15.0	13.9		

3TW25512-2A



# 5 Dimensional drawing & centre of gravity

## 5 - 1 Dimensional drawing

**FXFQ20,25,32,40,50,63P8**

Nr	Name	Description
1	Liquid pipe connection	ø A flare connection
2	Gas pipe connection	ø B flare connection
3	Drain pipe connection	VP25 (O.D. ø 32 / I.D. ø 25)
4	Power supply entry hole	
5	Transmission wiring entry hole	
6	Air discharge opening	
7	Air suction grille	
8	Corner decoration cover	
9	Drain hose	O.D. ø 32 / I.D. ø 26
10	Knock out hole	

MODEL	A	B
FXFQ20-50P8	6.35	12.7
FXFQ63P8	9.52	15.9

**NOTES**

- Location of the nameplates  
- Unit body: on the control box cover.  
- Decoration panel: on the panel frame at the motor side under the corner cover
- When installing an optional accessory, refer to the installation drawings.  
- For the fresh air intake kit an inspection port is necessary
- In case of using an infrared remote control, this position will be a signal receiver. Refer to the drawing of the infrared remote control for more detail.
- Make sure the spacing between the ceiling and the cassette is no more than 35mm. MAX ceiling opening: 910mm.
- When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more).
- Please respect the distances as shown on the figure

3TW28834-1B

**FXFQ80,100P8**

Nr	Name	Description
1	Liquid pipe connection	ø 9.52 flare connection
2	Gas pipe connection	ø 15.90 flare connection
3	Drain pipe connection	VP25 (O.D. ø 32 / I.D. ø 25)
4	Power supply entry hole	
5	Transmission wiring entry hole	
6	Air discharge opening	
7	Air suction grille	
8	Corner decoration cover	
9	Drain hose	O.D. ø 32 / I.D. ø 26
10	Knock out hole	

**NOTES**

- Location of the nameplates  
- Unit body: on the control box cover.  
- Decoration panel: on the panel frame at the motor side under the corner cover
- When installing an optional accessory, refer to the installation drawings.  
- For the fresh air intake kit an inspection port is necessary
- In case of using an infrared remote control, this position will be a signal receiver. Refer to the drawing of the infrared remote control for more detail.
- Make sure the spacing between the ceiling and the cassette is no more than 35mm. MAX ceiling opening: 910mm.
- When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more).
- Please respect the distances as shown on the figure

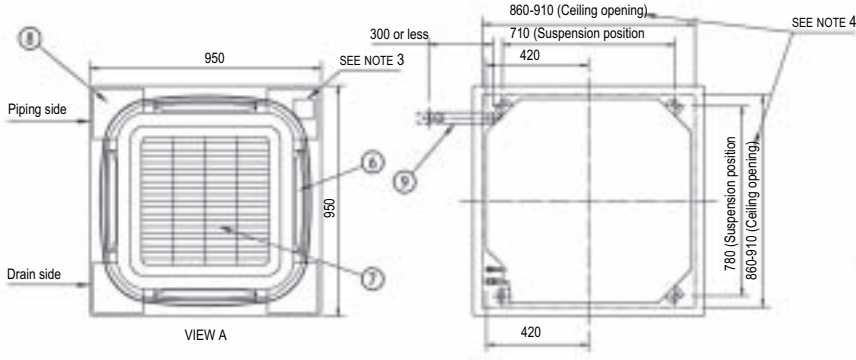
3TW28894-1B

# 5 Dimensional drawing & centre of gravity

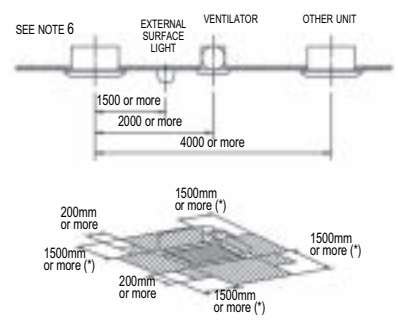
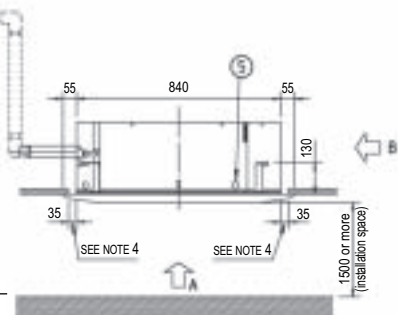
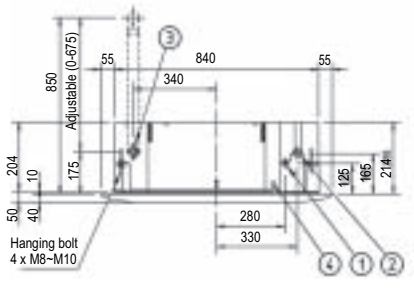
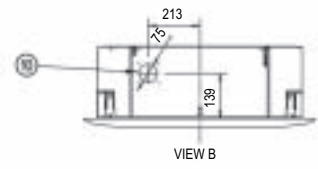
## 5 - 1 Dimensional drawing

1  
5

FXFQ125P8



Nr	Name	Description
1	Liquid pipe connection	ø 9.52 flare connection
2	Gas pipe connection	ø 15.90 flare connection
3	Drain pipe connection	VP25 (O.D. ø 32 / I.D. ø 25)
4	Power supply entry hole	
5	Transmission wiring entry hole	
6	Air discharge opening	
7	Air suction grille	
8	Corner decoration cover	
9	Drain hose	O.D. ø 32 / I.D. ø 26
10	Knock out hole	



**NOTES**

- Location of the nameplates  
- Unit body: on the control box cover.  
- Decoration panel: on the panel frame at the motor side under the corner cover
- When installing an optional accessory, refer to the installation drawings.  
- For the fresh air intake kit an inspection port is necessary
- In case of using an infrared remote control, this position will be a signal receiver. Refer to the drawing of the infrared remote control for more detail.
- Make sure the spacing between the ceiling and the cassette is no more than 35mm. MAX ceiling opening: 910mm.
- When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more).
- Please respect the distances as shown on the figure

(\*) In case a discharge opening is closed with the 'sealing member' option, the distance of 1500mm can be reduced to 500mm on the closed side.

3TW28914-1B

# 5 Dimensional drawing & centre of gravity

## 5 - 3 Dimensional drawing with accessories

**FXFQ20,25,32,40,50,63P8**

Service access panel: 450x450 mm or more (Refer to note: 1)

Installation service access panel

725

840

448

508

328

427

328

427

55

840

55

264

455 (Ceiling opening space)

Connecting chamber mounting space

1

2

3

4

5

148

165

275

Static pressure of chamber (Pa)

Air flow rate (m<sup>3</sup>/min)

Ventilation resistance in chamber (Note: 6)

Nr	Name	Description
1	Indoor unit	
2	Decoration panel	
3	Suction chamber	
4	Connecting chamber (Right)	
5	Connecting chamber (Left)	

Notes:

- When installing this kit, inspection hatch is necessary. (It is necessary when servicing.) Either one of inspection hatches must be installed.
- Field construction.
- The corner air outlet of this part must be shut.
- In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices and link with the indoor unit fan.
- The intake air flow rate is recommended to be 20% or less of the H speed air flow rate. If the intake air flow rate is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.
- It indicates the distance between the T-tube inlet and the indoor unit inlet when the T-tube is connected.

3D057035

**FXFQ80,100P8**

Service access panel: 450x450 mm or more (Refer to note: 1)

Installation service access panel

725

840

448

508

328

427

328

427

55

840

55

306

455 (Ceiling opening space)

Connecting chamber mounting space

1

2

3

4

5

148

165

275

Static pressure of chamber (Pa)

Air flow rate (m<sup>3</sup>/min)

Ventilation resistance in chamber (Note: 6)

Nr	Name	Description
1	Indoor unit	
2	Decoration panel	
3	Suction chamber	
4	Connecting chamber (Right)	
5	Connecting chamber (Left)	

Notes:

- When installing this kit, inspection hatch is necessary. (It is necessary when servicing.) Either one of inspection hatches must be installed.
- Field construction.
- The corner air outlet of this part must be shut.
- In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices and link with the indoor unit fan.
- The intake air flow rate is recommended to be 20% or less of the H speed air flow rate. If the intake air flow rate is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.
- It indicates the distance between the T-tube inlet and the indoor unit inlet when the T-tube is connected.

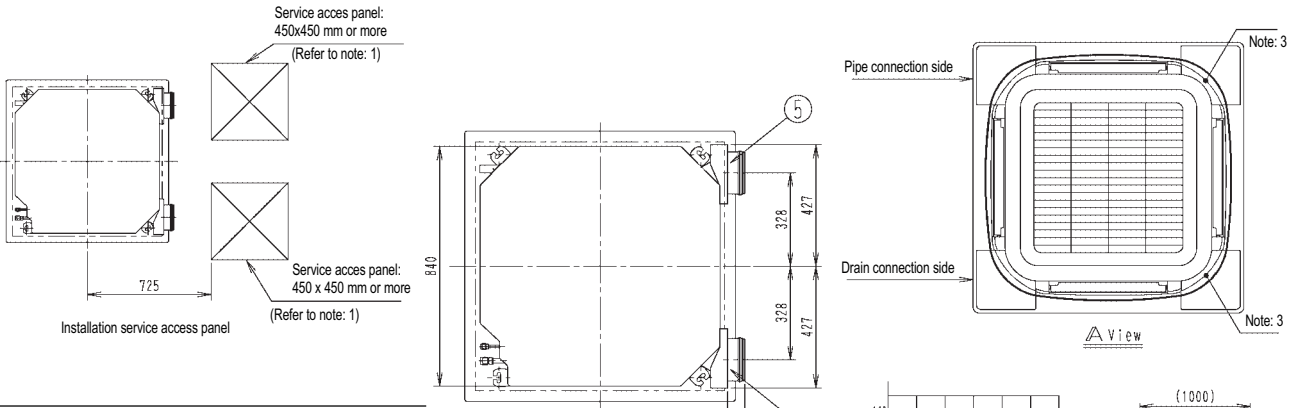
3D057034

# 5 Dimensional drawing & centre of gravity

## 5 - 3 Dimensional drawing with accessories

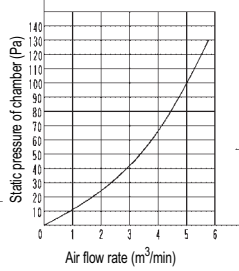
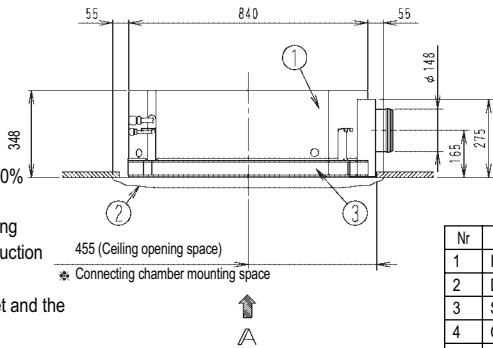
1  
5

FXFQ125P8



**NOTES**

- 1 When installing this kit, inspection hatch is necessary. (It is necessary when servicing.) Either one of inspection hatches must be installed.
- 2 Field construction.
- 3 The corner air outlet of this part must be shut.
- 4 In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices and link with the indoor unit fan.
- 5 The intake air flow rate is recommended to be 20% or less of the H speed air flow rate. If the intake air flow rate is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.
- 6 It indicates the distance between the T-tube inlet and the indoor unit inlet when the T-tube is connected.



Ventilation resistance in chamber (Note: 6)

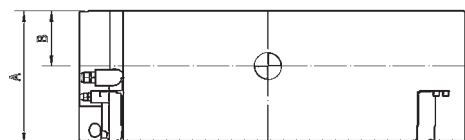
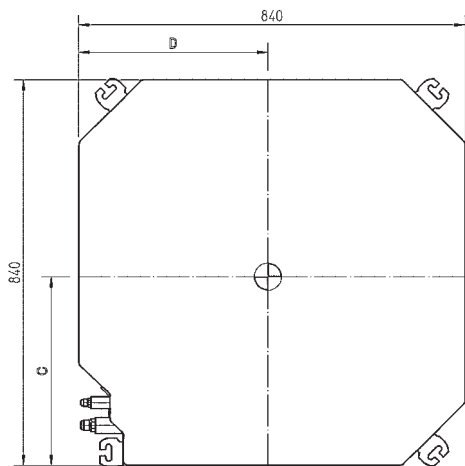
Nr	Name	Description
1	Indoor unit	
2	Decoration panel	
3	Suction chamber	
4	Connecting chamber (Right)	
5	Connecting chamber (Left)	

3D057032

## 5 Dimensional drawing & centre of gravity

### 5 - 4 Centre of gravity

FXFQ-P8



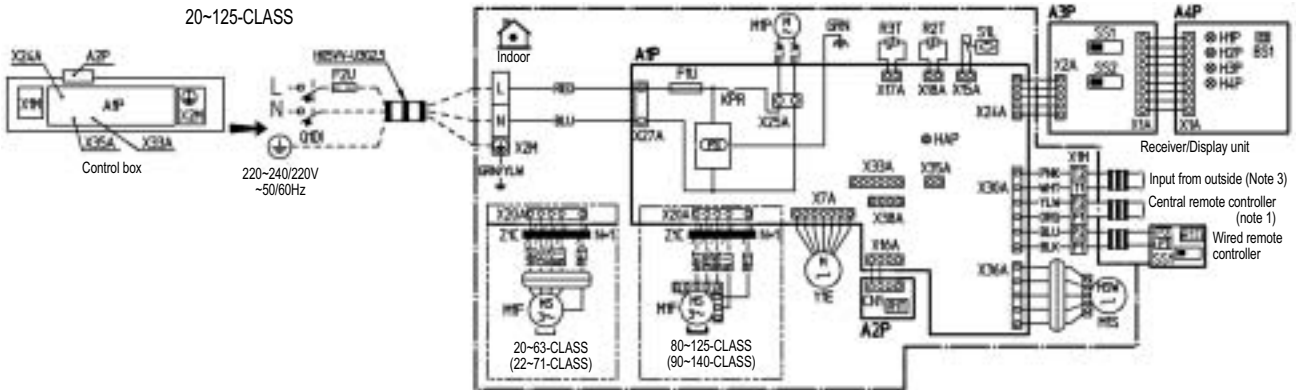
Models	A	B	C	D
FXFQ20~63	202	60	409	358
FXFQ80~100	246	90	411	411
FXFQ125	288	120	420	420

4TW28839-2

# 6 Wiring diagram

## 6 - 1 Wiring diagram

FXFQ-P8



<b>Indoor unit</b>		R2T	Thermistor (coil)	SS1	Selector switch (main/sub)
A1P	Printed circuit board	R3T	Thermistor (header)	SS2	Selector switch (Wireless address set)
A2P	Printed circuit board	S1L	Float Switch	<b>Connector for optional parts</b>	
C1	Capacitor	X1M	Therminal strip	X24A	Connector (Wireless remote control)
F1U	Fuse (T, 5A, 250V)	X2M	Therminal strip	X33A	Connector (Adaptor for wiring)
F2U	Field fuse	Y1E	Electronic expansion valve	X35A	Connector (Group control adaptor)
HAP	Light emitting diode (service motor green)	Z1C	Ferrite core	X38A	Connector (Multi tenant)
KPR	Magnetic relay (M1P)	<b>Receiver/display unit (attached to wireless remote control)</b>		<b>Wired remote control</b>	
L1	Coil	A3P	Printed circuit board	R1T	Thermistor (air)
M1F	Motorfan (indoor fan)	A4P	Printed circuit board	SS1	Selector switch (main/sub)
M1P	Motorfan (drain pump)	BS1	Push button (on/off)		
M1S	Motor (swing flap)	H1P	Light emitting diode (on-red)		
PS	Power supply circuit	H2P	Light emitting diode (timer-green)		
O1DI	Earth leak detector	H3P	Light emitting diode (filter sign-red)		
R1T	Thermistor (air)	H4P	Light emitting diode (defrost-orange)		

□□□□	: Terminal	Colors:	RED: Red	PRP: Purple	ORG: Orange
□○□, D-	: Connector		BLK: Black	GRY: Gray	GRN: Green
□□	: Connector		WHT: White	BLU: Blue	
≡≡≡	: Field wiring		YLW: Yellow	PNK: Pink	

3TW31056-1

### NOTES

- In case of using central remote control, connect it to the unit in accordance with the attached installation manual.
- X24A, X33A, X35A en X38A are connected when the optional accessories are being used.
- When connecting the input wires from outside, forced on/off control operation can be selected by the remote controller. see installation manual for more details.
- Confirm the method of setting the selector switch (SS1, SS2) by installation manual and engineering data, etc.

# 7 Sound data

## 7 - 1 Sound pressure spectrum

**FXFQ20P8**

4D056867

Scale	Mode	
	Hi	Low
A	31.0	28.0
C	37.0	34.0

Over All (dB): (B, G, N is already rectified)  
 Operating conditions:  
 • Power source: 220~240V 50Hz/220V 60Hz  
 • Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB  
 • Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB  
 • 4 direction discharge

Power level (dB): **Hi 49**  
 Measuring place: Anechoic chamber  
 Location of microphone

**Note:** Operation noise differs with operation and ambient conditions.

**FXFQ25P8**

4D056868

Scale	Mode	
	Hi	Low
A	31.0	28.0
C	37.0	34.0

Over All (dB): (B, G, N is already rectified)  
 Operating conditions:  
 • Power source: 220~240V 50Hz/220V 60Hz  
 • Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB  
 • Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB  
 • 4 direction discharge

Power level (dB): **Hi 49**  
 Measuring place: Anechoic chamber  
 Location of microphone

**Note:** Operation noise differs with operation and ambient conditions.

**FXFQ32P8**

4D056869

Scale	Mode	
	Hi	Low
A	31.0	28.0
C	37.0	34.0

Over All (dB): (B, G, N is already rectified)  
 Operating conditions:  
 • Power source: 220~240V 50Hz/220V 60Hz  
 • Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB  
 • Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB  
 • 4 direction discharge

Power level (dB): **Hi 49**  
 Measuring place: Anechoic chamber  
 Location of microphone

**Note:** Operation noise differs with operation and ambient conditions.

**FXFQ40P8**

4D056870

Scale	Mode	
	Hi	Low
A	32.0	28.0
C	38.0	34.0

Over All (dB): (B, G, N is already rectified)  
 Operating conditions:  
 • Power source: 220~240V 50Hz/220V 60Hz  
 • Cooling: return air temperature: 27°C DB, 19°C WB - outdoor temperature: 35°C DB, 24°C WB  
 • Heating: return air temperature: 20°C DB, 15°C WB - outdoor temperature: 7°C DB, 6°C WB  
 • 4 direction discharge

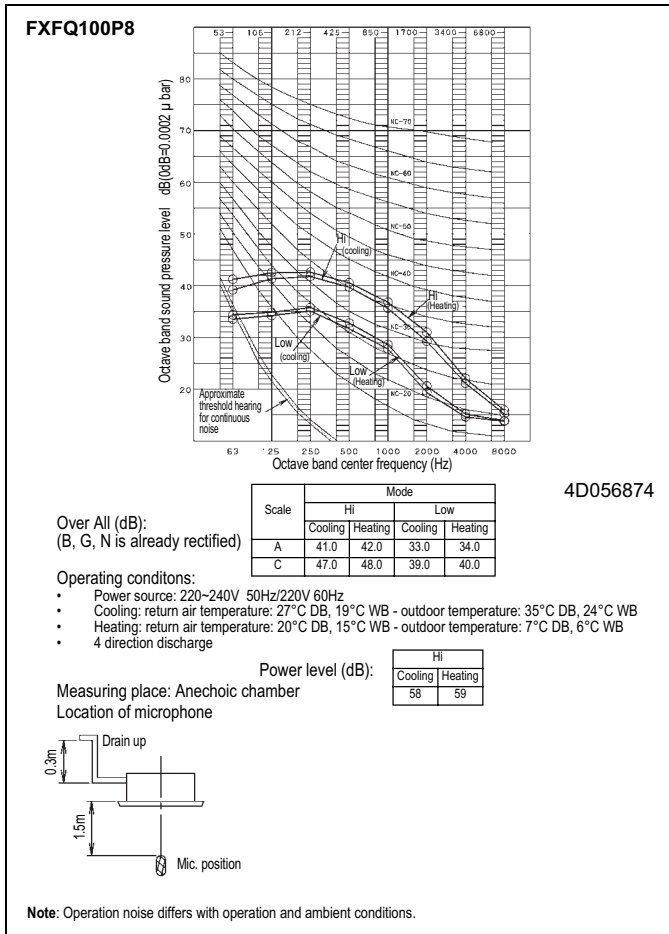
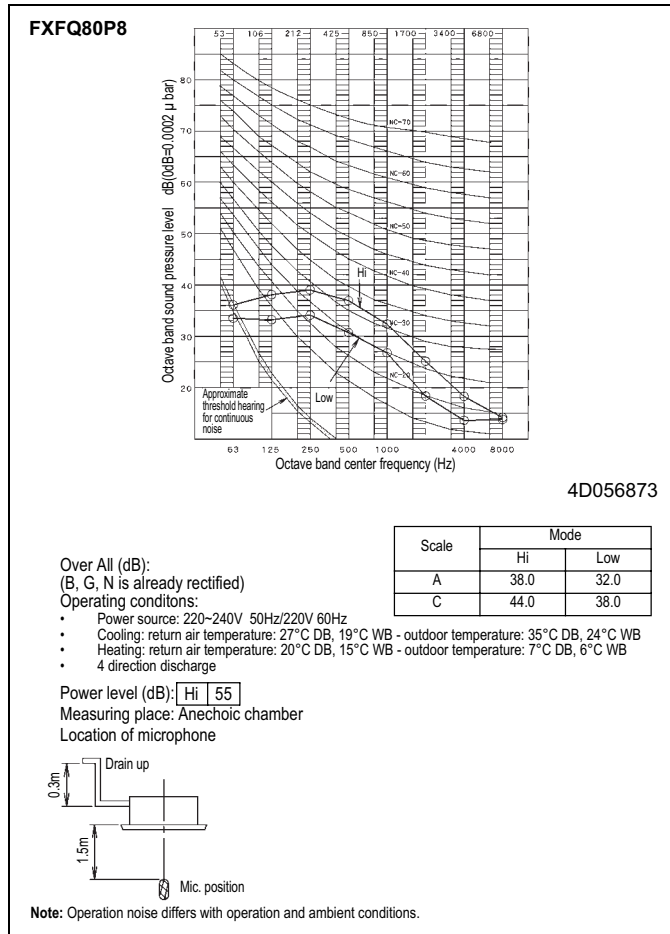
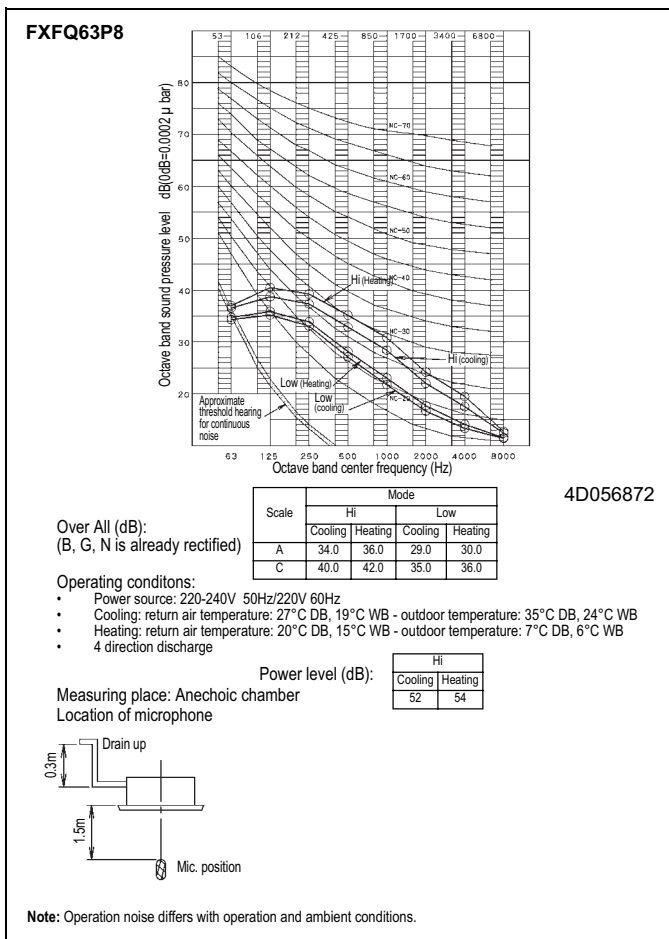
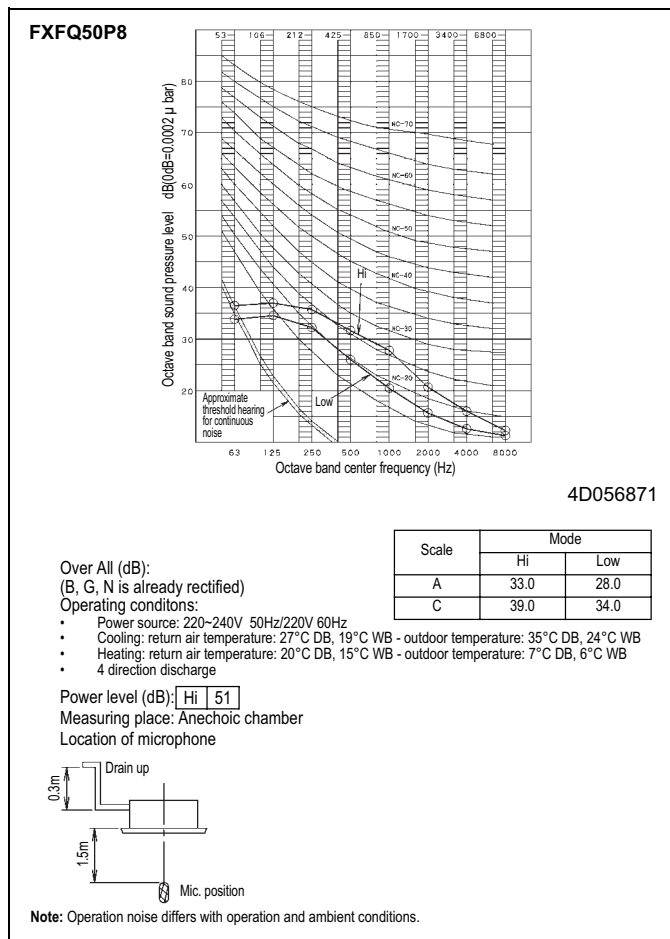
Power level (dB): **Hi 50**  
 Measuring place: Anechoic chamber  
 Location of microphone

**Note:** Operation noise differs with operation and ambient conditions.

# 7 Sound data

## 7 - 1 Sound pressure spectrum

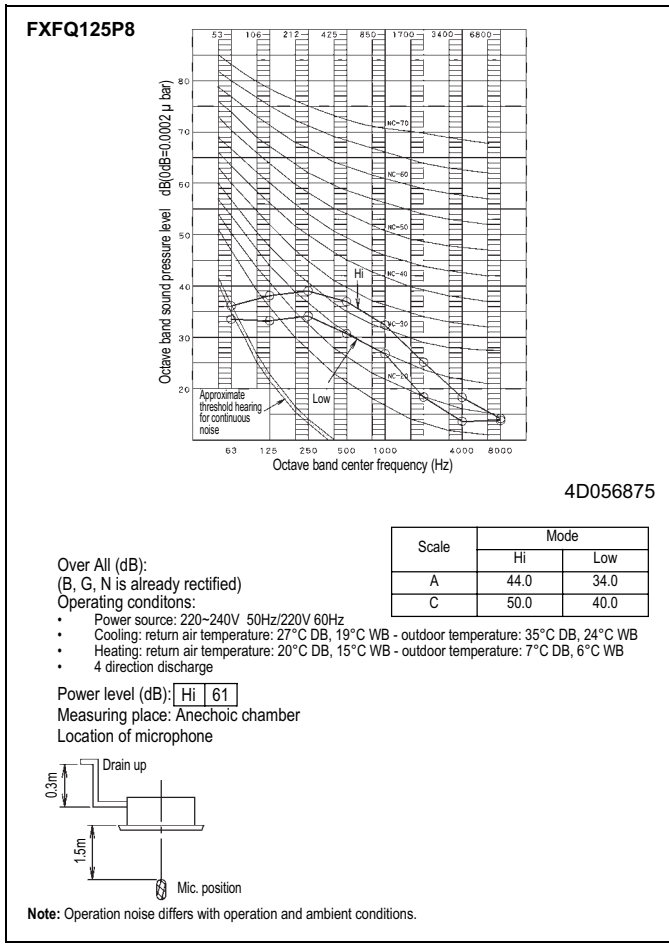
1  
7





# 7 Sound data

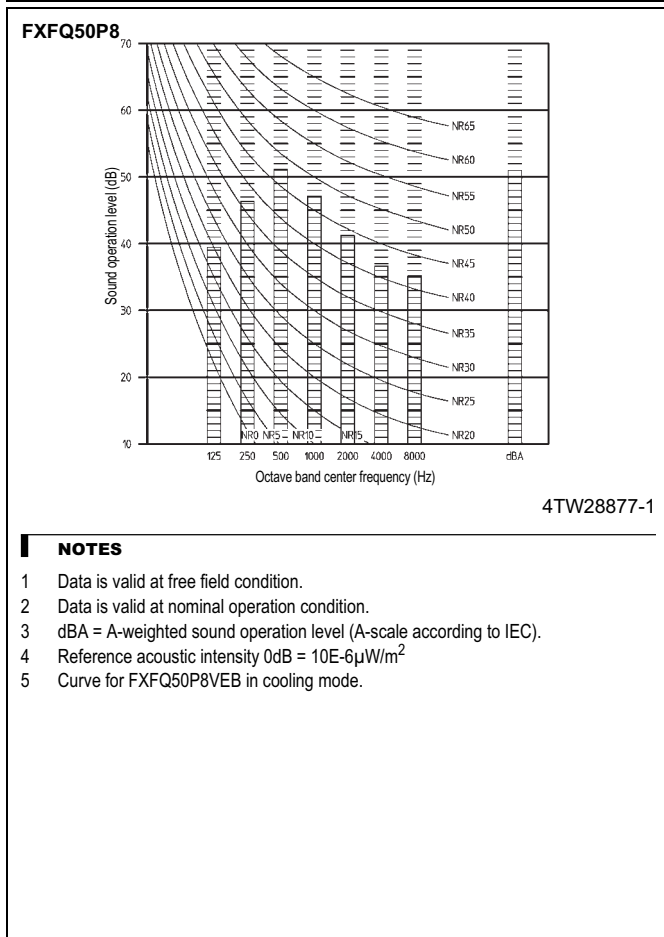
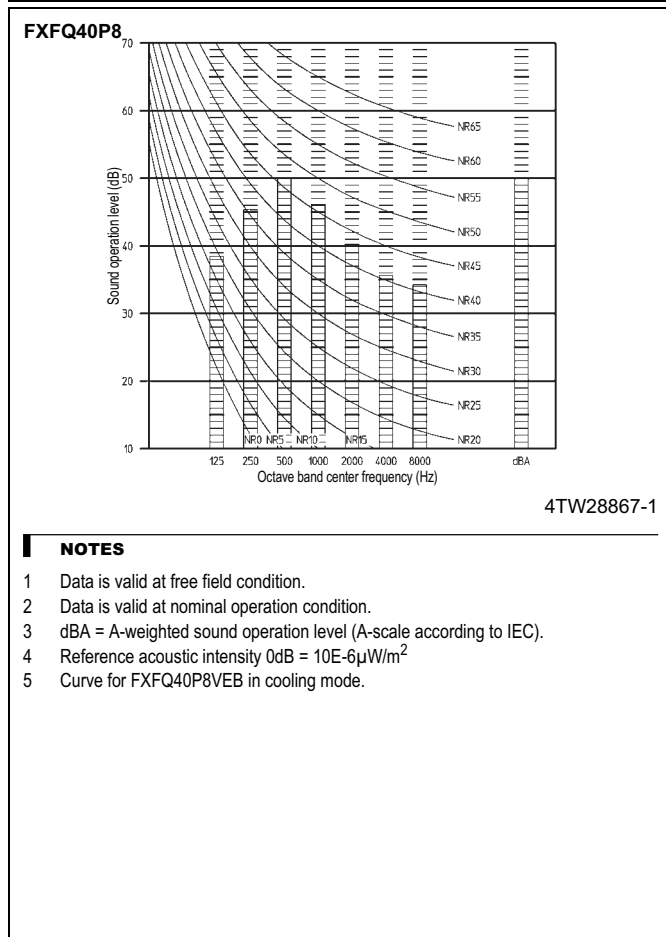
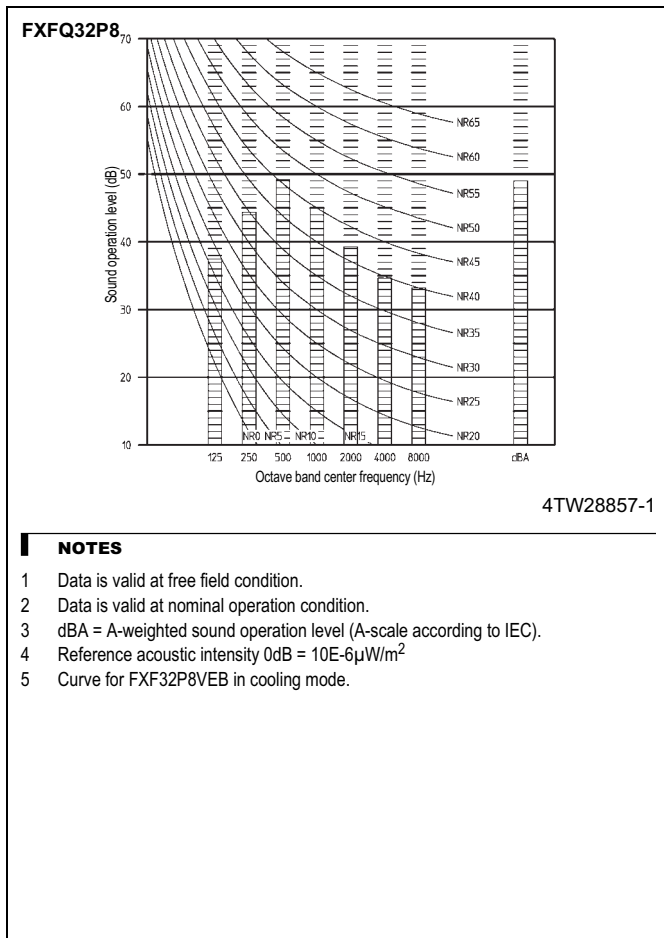
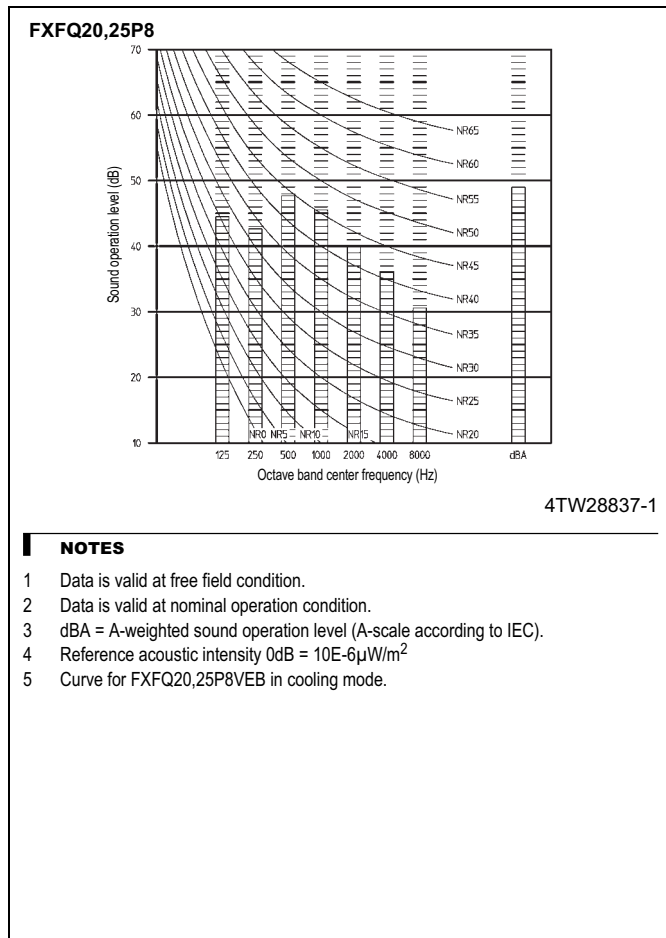
## 7 - 1 Sound pressure spectrum



# 7 Sound data

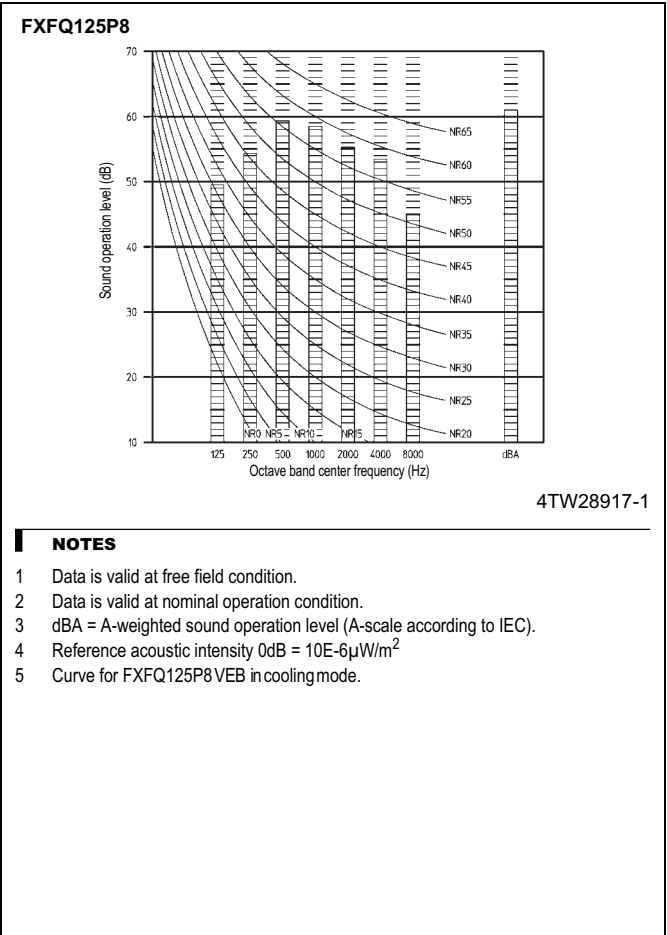
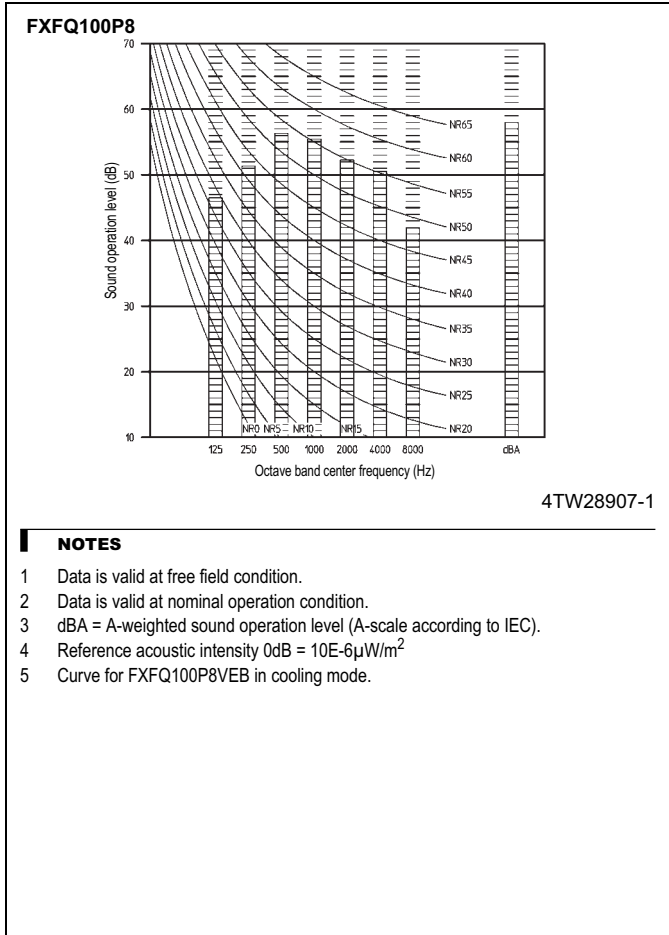
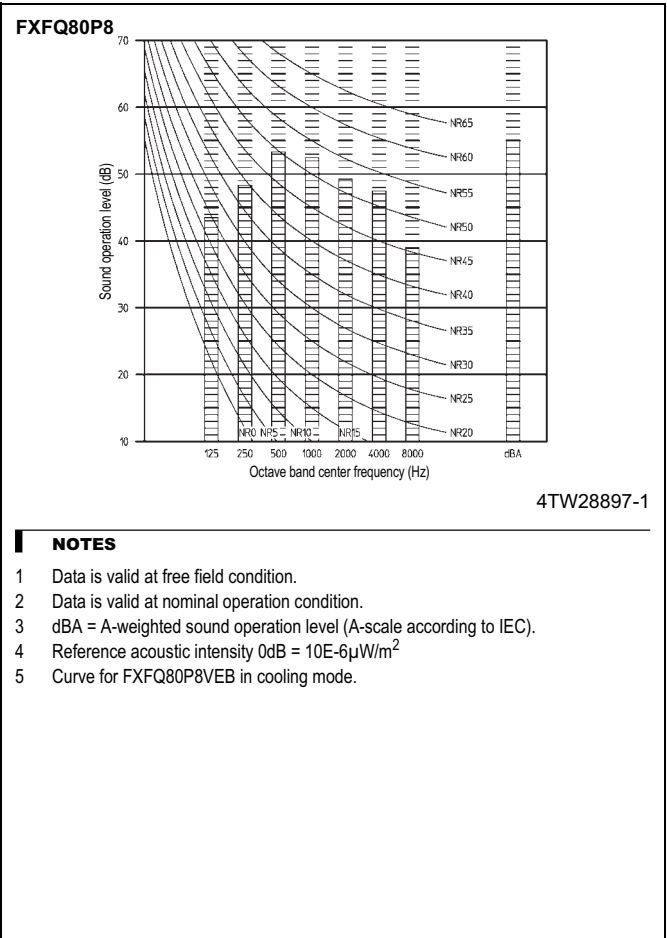
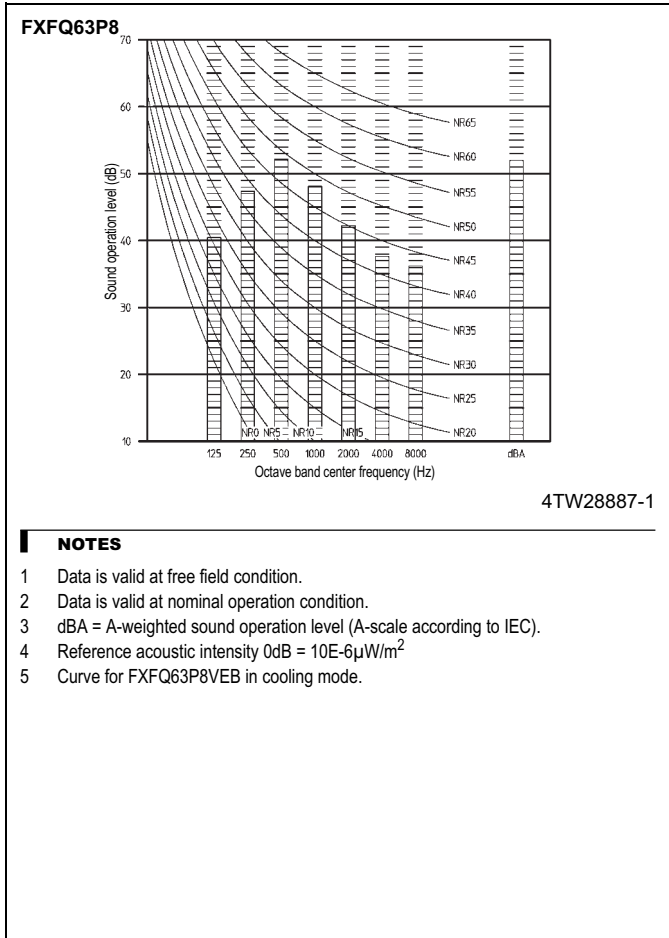
## 7 - 2 Sound power spectrum

1  
7



# 7 Sound data

## 7 - 2 Sound power spectrum



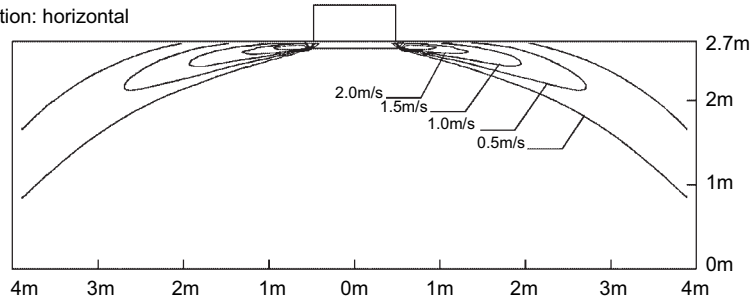
# 8 Air flow pattern

1  
8

## FXFQ20P8

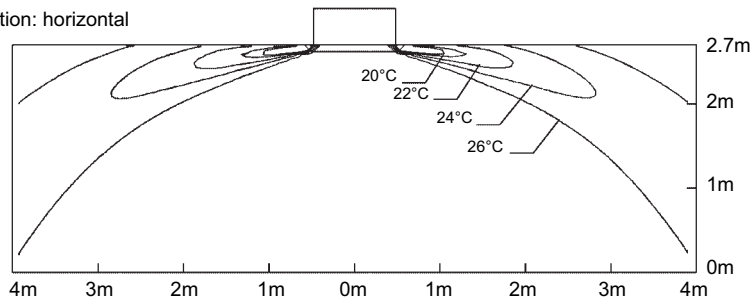
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal

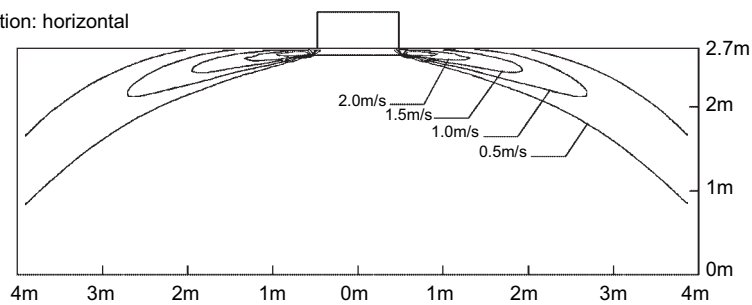


4D057221

## FXFQ25P8

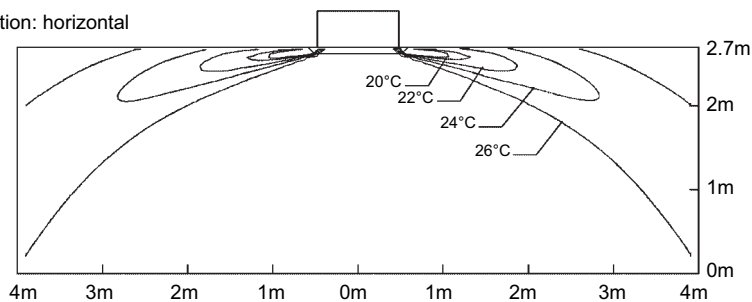
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



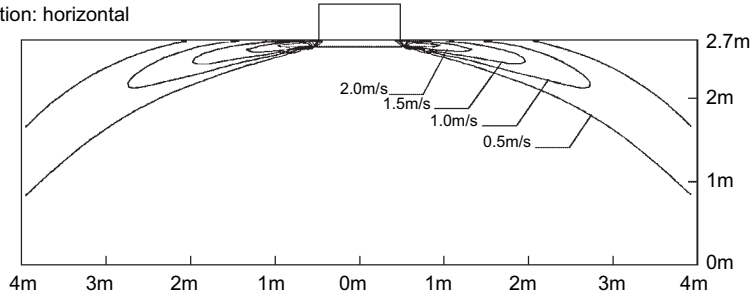
4D057223

# 8 Air flow pattern

## FXFQ32P8

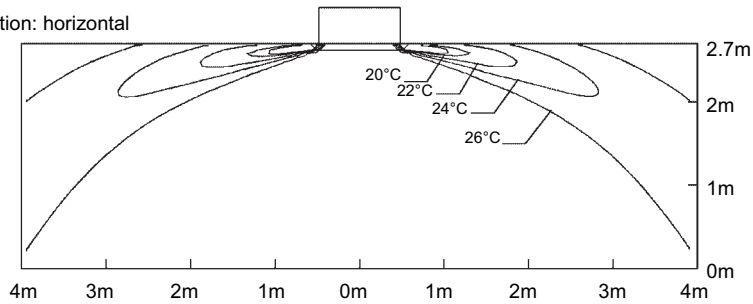
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal

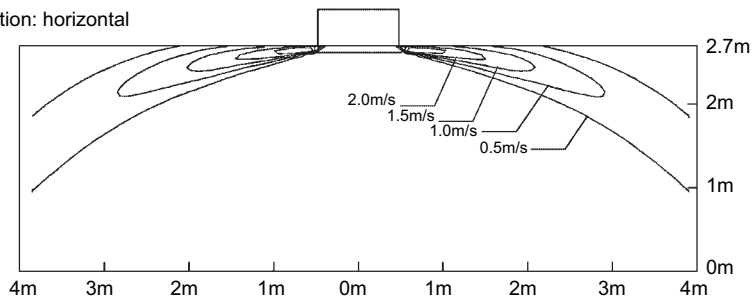


4D057225

## FXFQ40P8

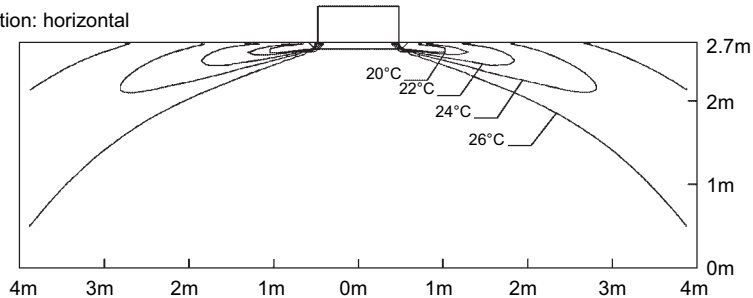
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D057227

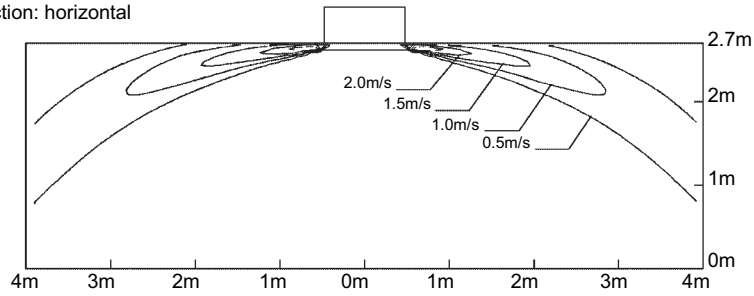
# 8 Air flow pattern

1  
8

## FXFQ50P8

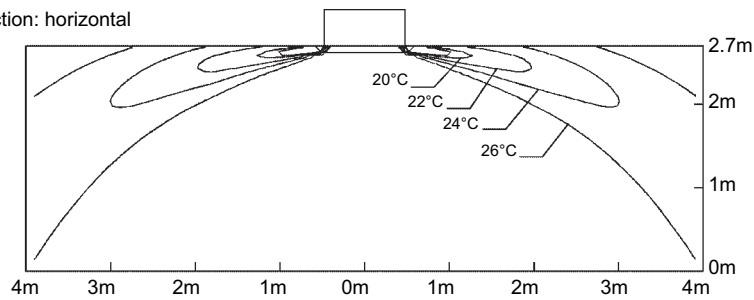
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal

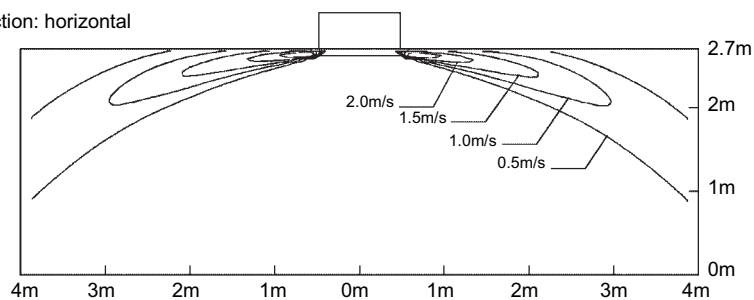


4D057229

## FXFQ63P8

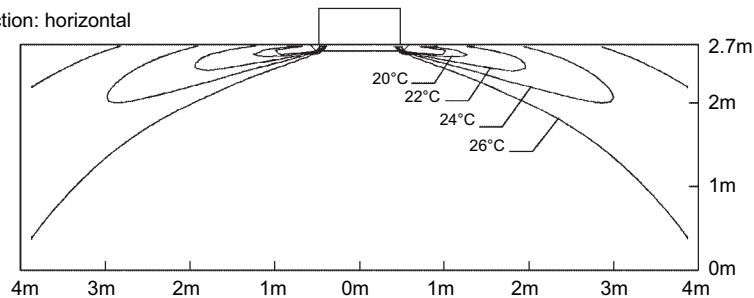
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



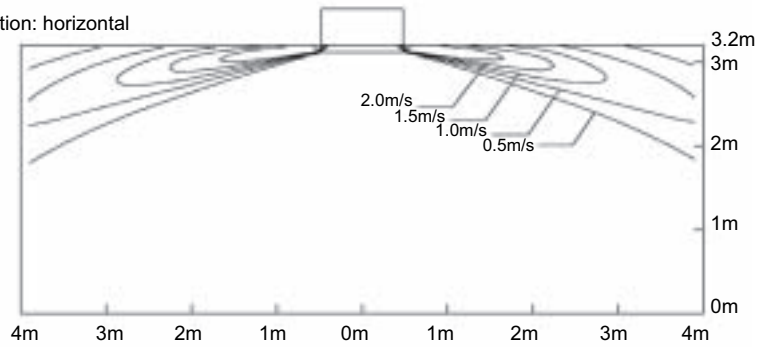
4D057231

# 8 Air flow pattern

**FXFQ80P8**

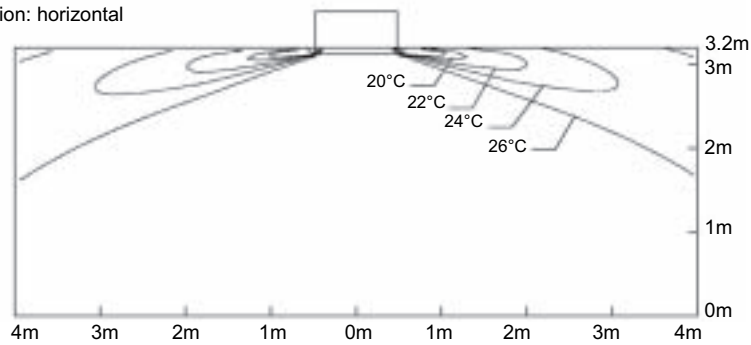
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal

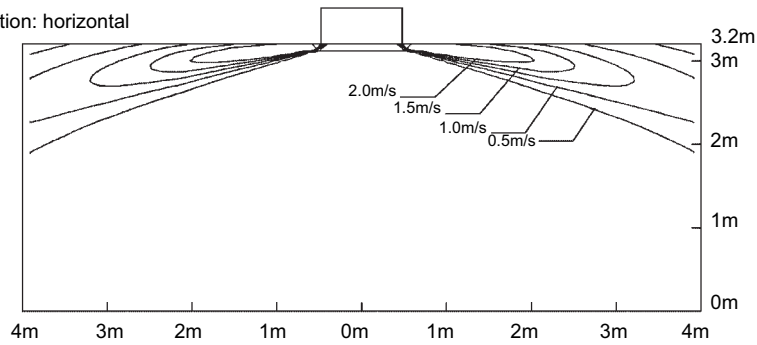


4D057233

**FXFQ100P8**

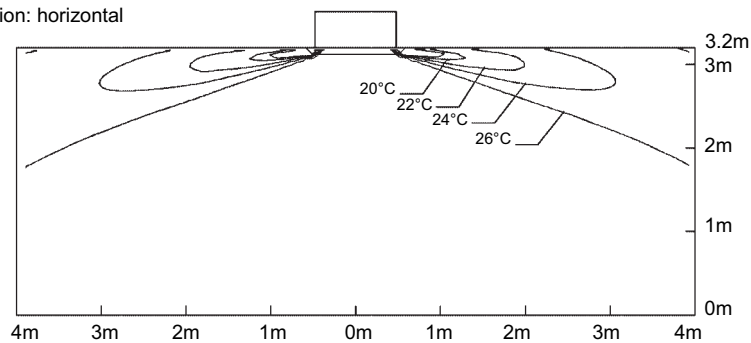
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D057235

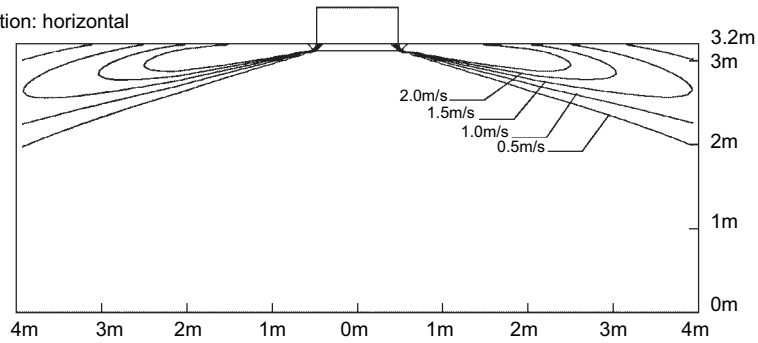
# 8 Air flow pattern

1  
8

## FXFQ125P8

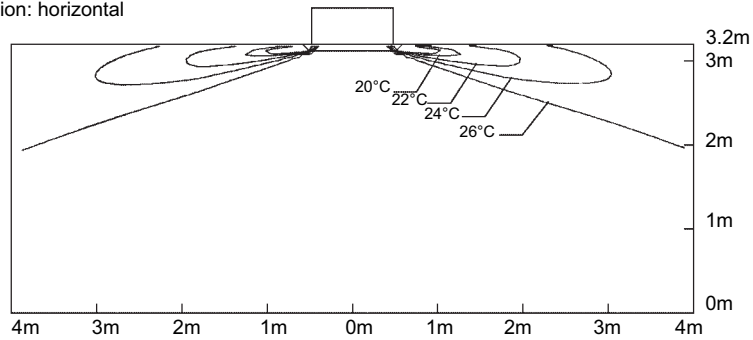
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal

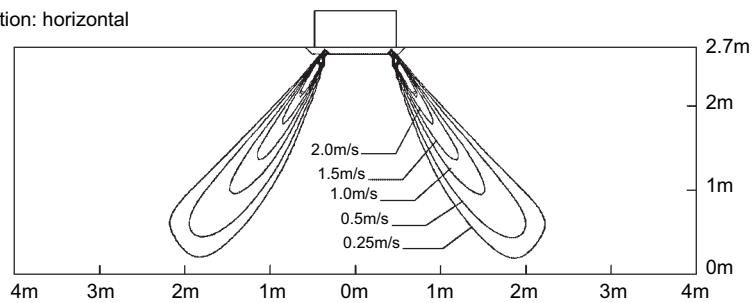


4D057237

## FXFQ20P8

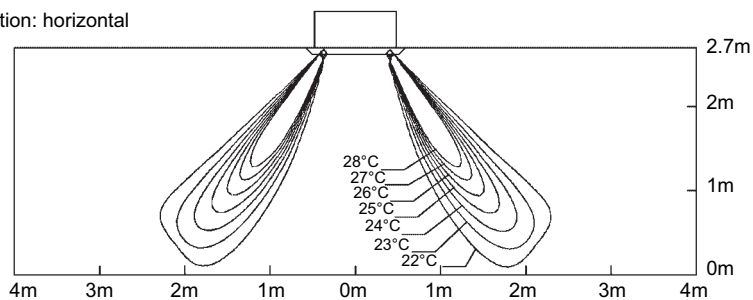
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D057220

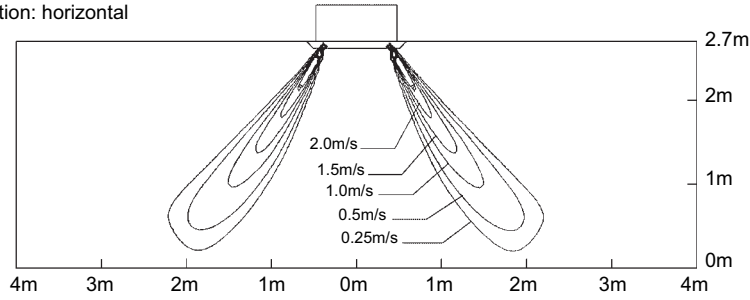


# 8 Air flow pattern

## FXFQ25P8

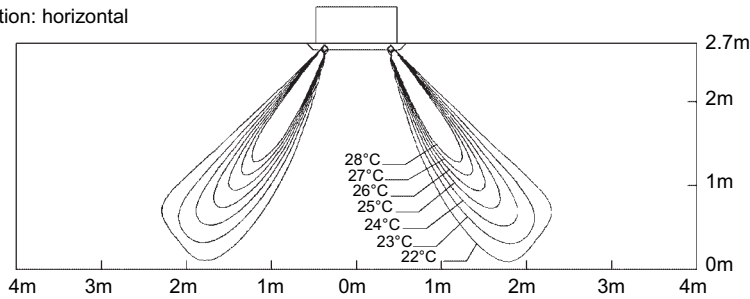
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal

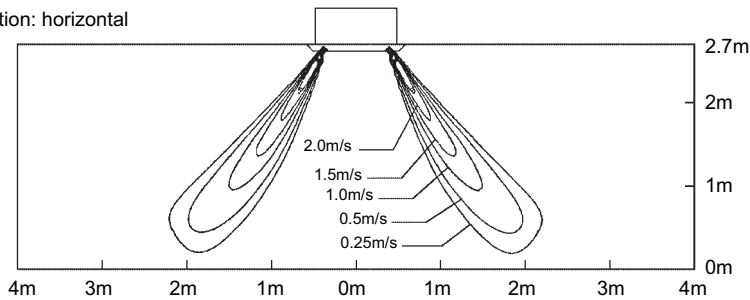


4D057222

## FXFQ32P8

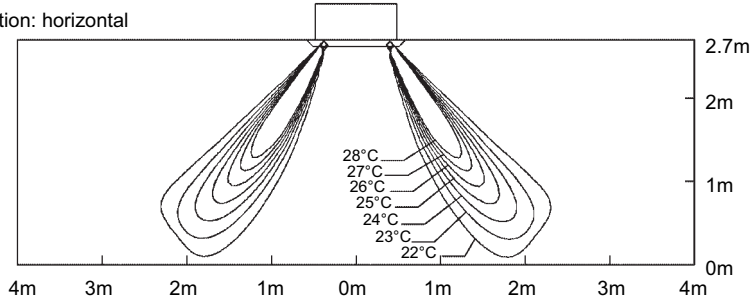
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D057224

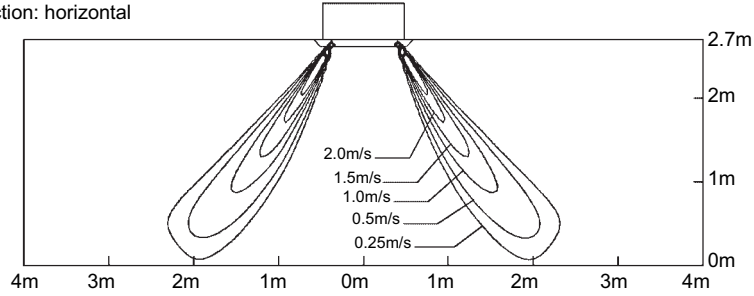
# 8 Air flow pattern

1  
8

## FXFQ40P8

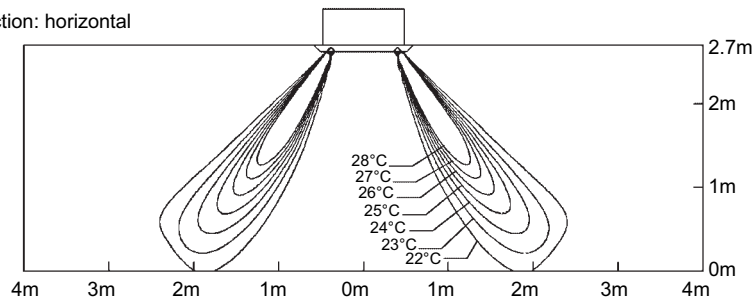
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal

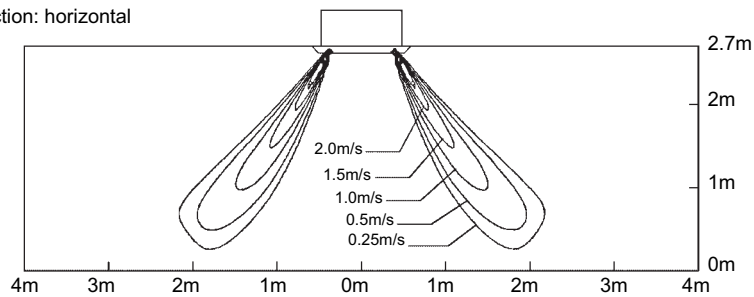


4D057226

## FXFQ50P8

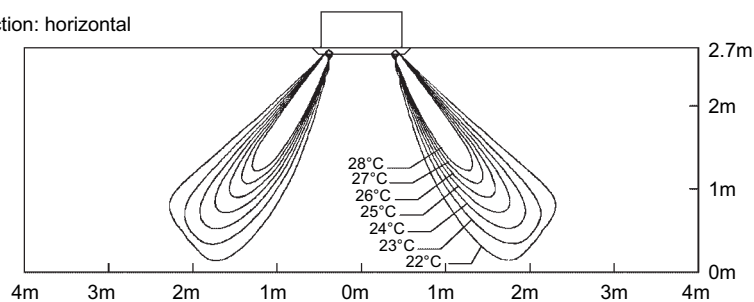
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



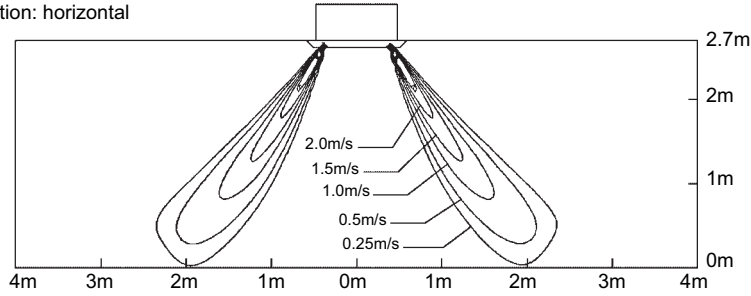
4D057228

# 8 Air flow pattern

**FXFQ63P8**

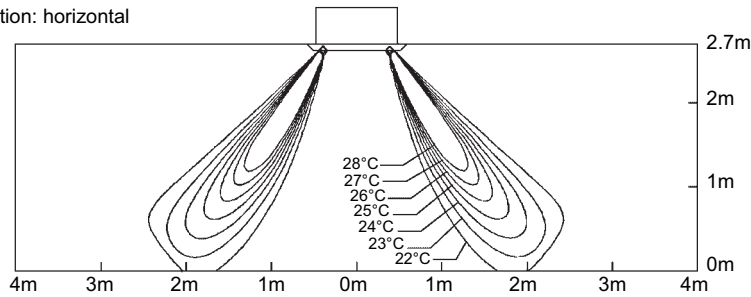
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal

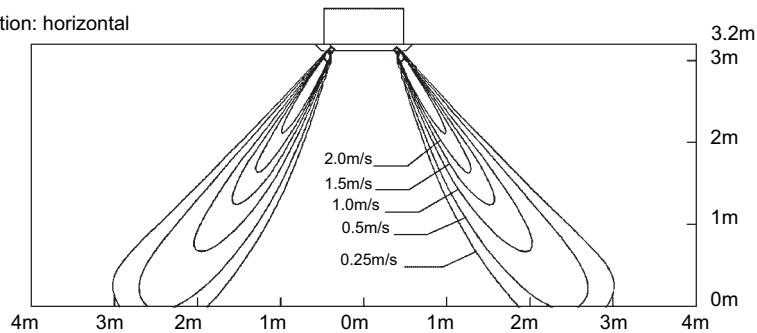


4D057230

**FXFQ80P8**

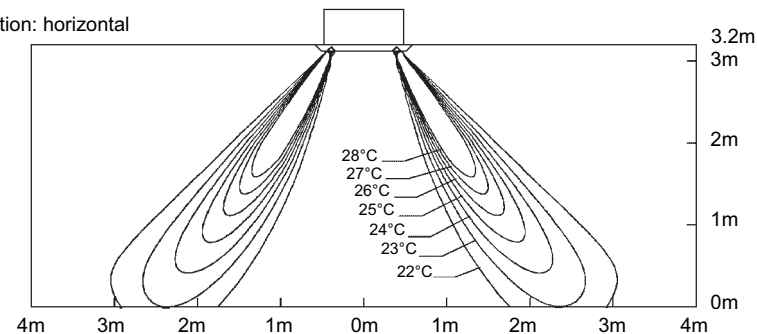
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D057232

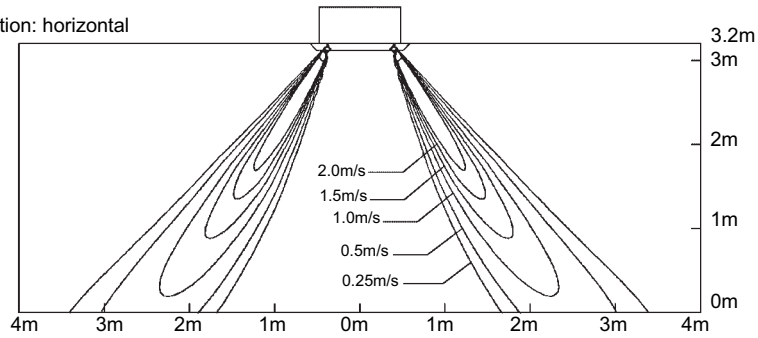
# 8 Air flow pattern

1  
8

## FXFQ100P8

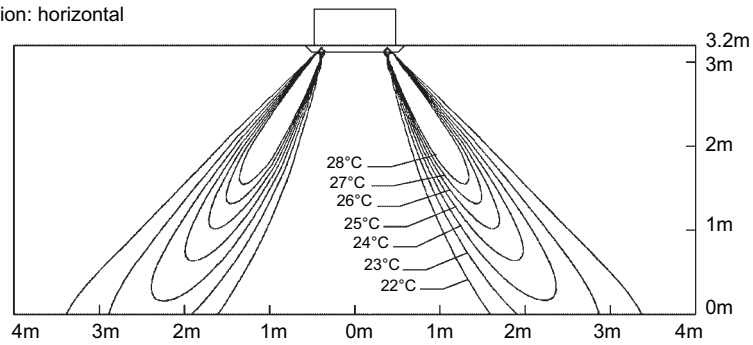
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air velocity distribution

All round air discharge, air flow direction: horizontal

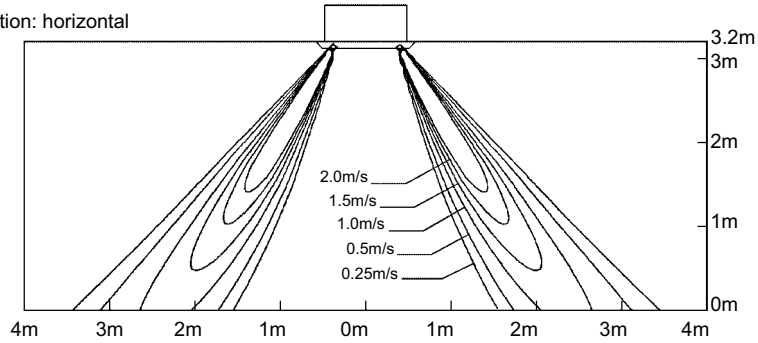


4D057234

## FXFQ125P8

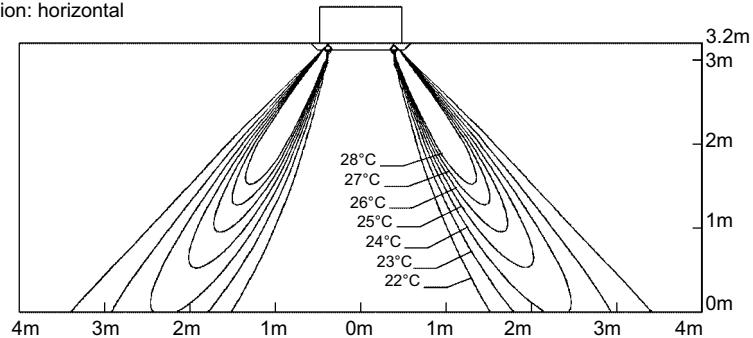
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air velocity distribution

All round air discharge, air flow direction: horizontal



4D057236



**VRV III-S**

**VRV III**

**VRV-WII**

In all of us,  
a green heart



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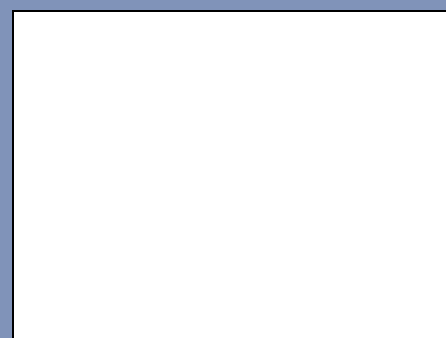


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