

technical data

4-Way Blow Ceiling Mounted Cassette
FXFQ-M8V3B

air conditioning systems

VRV[®] III-S

VRV[®] III

VRV[®] II

VRV[®]-WII

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FXFQ-M8V3B

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1 Features

- Compact & stylish
- Quiet operation: down to 28 dBA sound pressure level
- Compact dimensions, can easily be mounted in a ceiling void of only 240mm (298mm for model 80 and above)
- Air flow distribution for ceiling heights up to 4.2m for model 80 and above
- Air can be discharged in any of 4 directions
- Possibility to shut 1 or 2 flaps for easy installation in corners or to use 1 or 2 branches
- Choice of 3 auto-swing positions for maximum comfort: standard, draught prevention, ceiling soiling prevention
- Drain-up pump with 750mm lift fitted as standard
- Easy to install
- Fits flush into each ceiling
- Suction grille can be rotated by 90°
- Easy height adjustment via adjuster slot
- Easy maintenance
- Easy to clean suction grille and filter
- Extended cleaning cycle of the heat exchanger: once every 3 years



2 Specifications

2-1 TECHNICAL SPECIFICATIONS				FXFQ20M8V3B	FXFQ25M8V3B	FXFQ32M8V3B	FXFQ40M8V3B	FXFQ50M8V3B	
Nominal Capacity	Cooling		kW	2.20	2.80	3.60	4.50	5.60	
	Heating		kW	2.50	3.20	4.00	5.00	6.30	
Power input (Nominal)	Cooling		kW	0.090	0.090	0.090	0.097	0.106	
	Heating		kW	0.075	0.075	0.075	0.082	0.090	
Casing	Colour			Non painted					
	Material			Galvanised steel					
Dimensions	Packing	Height	mm	260	260	260	260	260	
		Width	mm	880	880	880	880	880	
		Depth	mm	880	880	880	880	880	
	Unit	Height	mm	230	230	230	230	230	
		Width	mm	840	840	840	840	840	
		Depth	mm	840	840	840	840	840	
Weight	Unit		kg	24	24	24	24	24	
	Packed unit		kg	30	30	30	30	30	
Required Ceiling Void			mm	280	280	280	280	280	
Heat Exchanger	Dimensions	Length	mm	2001	2001	2001	2001	2001	
		Nr of Rows		2	2	2	2	2	
		Fin Pitch	mm	1.50	1.50	1.50	1.50	1.50	
		Nr of Passes		2	4	4	4	4	
		Face Area	m²	0.331	0.331	0.331	0.331	0.331	
		Nr of Stages		8	8	8	8	8	
		Empty Tubeplate Hole		8					
	Tube type		Hi-XSS (7)						
	Fin	Fin type		Symmetric waffle louvre					
		Treatment		Hydrophilic					
Fan	Type			Turbo fan					
	Quantity			1	1	1	1	1	
Air Flow Rate	Cooling	High	m³/min	13.0	13.0	13.0	14.0	16.0	
		Low	m³/min	10.0	10.0	10.0	10.0	11.0	
	Heating	High	m³/min	13.0	13.0	13.0	14.0	16.0	
		Low	m³/min	10.0	10.0	10.0	10.0	11.0	
Fan	Motor	Quantity		1	1	1	1	1	
		Steps		Phase cut control					
		Output (high)	W	45	45	45	45	45	
		Drive		Direct drive					
Refrigerant	Name			R-410A					
Sound Level	Cooling	Sound power (nominal)	dBA	48.0	48.0	48.0	49.0	50.0	
Cooling	Sound Pressure	High	dBA	31.0	31.0	31.0	32.0	33.0	
		Low	dBA	28.0	28.0	28.0	28.0	28.0	
Heating	Sound Pressure	High	dBA	32.0	32.0	32.0	32.0	33.0	
		Low	dBA	28.0	28.0	28.0	28.0	28.0	
Piping connections	Liquid (OD)	Type		Flare connection					
		Diameter	mm	6.35	6.35	6.35	6.35	6.35	
	Gas	Type		Flare connection					
		Diameter	mm	12.7	12.7	12.7	12.7	12.7	
	Drain	Diameter	mm	32	32	32	32	32	
	Heat Insulation			Both liquid and gas pipes					
Decoration Panel	Model			BYC125KJW1					
	Colour			White (10Y9/0,5)					
	Dimensions	Height	mm	40	40	40	40	40	
		Width	mm	950	950	950	950	950	
		Depth	mm	950	950	950	950	950	
	Weight		kg	5	5	5	5	5	
Drain-up Height			mm	550	550	550	550	550	

2 Specifications

2-1 TECHNICAL SPECIFICATIONS		FXFQ20M8V3B	FXFQ25M8V3B	FXFQ32M8V3B	FXFQ40M8V3B	FXFQ50M8V3B
Air Filter		Resin net with mold resistance				
Air direction control		Up and downwards				
Refrigerant control		Electronic expansion valve				
Temperature control		Microprocessor thermostat for cooling and heating				
Safety devices		PC board fuse				
		Fan motor thermal protector				
		Drain pump fuse				
		Clamps				
Standard Accessories	Standard Accessories					
	Quantity	1	1	1	1	1
	Standard Accessories	Paper pattern for installation				
	Quantity	1	1	1	1	1
	Standard Accessories	Drain hose				
	Quantity	1	1	1	1	1
	Standard Accessories	Screws for fixing the paper pattern for installation				
	Quantity	4	4	4	4	4
	Standard Accessories	Washer for hanger bracket				
	Quantity	8	8	8	8	8
	Standard Accessories	Sealing material				
	Quantity	2	2	2	2	2
	Standard Accessories	Insulation for fitting				
	Quantity	2	2	2	2	2
	Standard Accessories	Installation and operation manual				
	Quantity	1	1	1	1	1
Notes		Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 8m, level difference : 0m.				
		Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 8m, level difference : 0m.				
		Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.				
		The sound pressure level is measured in an anechoic room at 1 m distance from the unit. It is a relative value, depending on the distance and acoustic environment.				
		The sound power level is an absolute value indicating the power wich a sound source generates.				

2 Specifications

2-1 TECHNICAL SPECIFICATIONS				FXFQ63M8V3B		FXFQ80M8V3B		FXFQ100M8V3B		FXFQ125M8V3B		
Nominal Capacity	Cooling		kW	7.10		9.00		11.20		14.00		
	Heating		kW	8.00		10.00		12.50		16.00		
Power input (Nominal)	Cooling		kW	0.118		0.173		0.184		0.230		
	Heating		kW	0.101		0.159		0.169		0.215		
Casing	Colour			Non painted								
	Material			Galvanised steel								
Dimensions	Packing	Height	mm	260		318		318		318		
		Width	mm	880		880		880		880		
		Depth	mm	880		880		880		880		
	Unit	Height	mm	230		288		288		288		
		Width	mm	840		840		840		840		
		Depth	mm	840		840		840		840		
Weight	Unit		kg	24		28		28		28		
	Packed unit		kg	30		34		34		34		
Required Ceiling Void			mm	280		338		338		338		
Heat Exchanger	Dimensions	Length	mm	2001		2001		2001		2001		
		Nr of Rows		2		2		2		2		
		Fin Pitch	mm	1.50		1.50		1.50		1.50		
		Nr of Passes		8		11		11		11		
		Face Area	m²	0.331		0.497		0.497		0.497		
		Nr of Stages		8		12		12		12		
	Tube type		Hi-XSS (7)									
	Fin	Fin type		Symmetric waffle louvre								
		Treatment		Hydrophilic								
Fan	Type			Turbo fan								
	Quantity			1		1		1		1		
Air Flow Rate	Cooling	High	m³/min	18.0		28.0		28.0		31.0		
		Low	m³/min	14.0		20.0		21.0		24.0		
	Heating	High	m³/min	18.0		28.0		28.0		31.0		
		Low	m³/min	14.0		20.0		21.0		24.0		
Fan	Motor	Quantity		1		1		1		1		
		Steps		Phase cut control								
		Output (high)	W	45		90		90		90		
		Drive		Direct drive								
Refrigerant	Name			R-410A								
Sound Level	Cooling	Sound power (nominal)	dBA	51.0		54.0		56.0		61.0		
Cooling	Sound Pressure	High	dBA	34.0		38.0		40.0		45.0		
		Low	dBA	29.0		32.0		33.0		36.0		
Heating	Sound Pressure	High	dBA	34.0		38.0		40.0		45.0		
		Low	dBA	29.0		32.0		33.0		36.0		
Piping connections	Liquid (OD)	Type		Flare connection								
		Diameter	mm	9.5		9.5		9.5		9.5		
	Gas	Type		Flare connection								
		Diameter	mm	15.9		15.9		15.9		15.9		
	Drain	Diameter	mm	32		32		32		32		
Heat Insulation			Both liquid and gas pipes									
Decoration Panel	Model			BYC125KJW1								
	Colour			White (10Y9/0,5)								
	Dimensions	Height	mm	40		40		40		40		
		Width	mm	950		950		950		950		
		Depth	mm	950		950		950		950		
	Weight		kg	5		5		5		5		
Drain-up Height			mm	550		550		550		550		
Air Filter				Resin net with mold resistance								
Air direction control				Up and downwards								

2 Specifications

2-1 TECHNICAL SPECIFICATIONS		FXFQ63M8V3B	FXFQ80M8V3B	FXFQ100M8V3B	FXFQ125M8V3B
Refrigerant control		Electronic expansion valve			
Temperature control		Microprocessor thermostat for cooling and heating			
Safety devices		PC board fuse			
		Fan motor thermal protector			
		Drain pump fuse			
Standard Accessories	Standard Accessories	Clamps			
	Quantity	1	1	1	1
	Standard Accessories	Paper pattern for installation			
	Quantity	1	1	1	1
	Standard Accessories	Drain hose			
	Quantity	1	1	1	1
	Standard Accessories	Screws for fixing the paper pattern for installation			
	Quantity	4	4	4	4
	Standard Accessories	Washer for hanger bracket			
	Quantity	8	8	8	8
	Standard Accessories	Sealing material			
	Quantity	2	2	2	2
	Standard Accessories	Insulation for fitting			
	Quantity	2	2	2	2
	Standard Accessories	Installation and operation manual			
	Quantity	1	1	1	1
Notes		Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 8m, level difference : 0m.			
		Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 8m, level difference : 0m.			
		Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.			
		The sound pressure level is measured in an anechoic room at 1 m distance from the unit. It is a relative value, depending on the distance and acoustic environment.			
		The sound power level is an absolute value indicating the power which a sound source generates.			

2 Specifications

2-2 ELECTRICAL SPECIFICATIONS			FXFQ20M8V3B	FXFQ25M8V3B	FXFQ32M8V3B	FXFQ40M8V3B	FXFQ50M8V3B
Power Supply	Name		V3				
	Phase		1	1	1	1	1
	Frequency	Hz	50	50	50	50	50
	Voltage	V	230	230	230	230	230
Current	Minimum circuit amps (MCA)	A	0.50	0.50	0.50	0.50	0.60
	Maximum fuse amps (MFA)	A	16.00	16.00	16.00	16.00	16.00
	Full load amps (FLA)	A	0.40	0.40	0.40	0.40	0.40
Voltage range	Minimum	V	-10%				
	Maximum	V	+10%				
Power Supply Intake			Both indoor and outdoor unit				
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 ≤ 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				
			For more details concerning conditional connections, see http://www.daikineurope.com/extranet , select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button. Finally click on the document title of your choice.				

2-2 ELECTRICAL SPECIFICATIONS			FXFQ63M8V3B	FXFQ80M8V3B	FXFQ100M8V3B	FXFQ125M8V3B
Power Supply	Name		V3			
	Phase		1	1	1	1
	Frequency	Hz	50	50	50	50
	Voltage	V	230	230	230	230
Current	Minimum circuit amps (MCA)	A	0.60	1.00	1.10	1.40
	Maximum fuse amps (MFA)	A	16.00	16.00	16.00	16.00
	Full load amps (FLA)	A	0.50	0.80	0.90	1.10
Voltage range	Minimum	V	-10%			
	Maximum	V	+10%			
Power Supply Intake			Both indoor and outdoor unit			
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 ≤ 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			
			For more details concerning conditional connections, see http://www.daikineurope.com/extranet , select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button. Finally click on the document title of your choice.			

3 Safety device settings

		FXFQ20M8	FXFQ25M8	FXFQ32M8	FXFQ40M8	FXFQ50M8	FXFQ63M8	FXFQ80M8	FXFQ100M8	FXFQ125M8
PC BOARD FUSE		250V 5A								
FAN MOTOR THERMAL PROTECTOR	°C	OFF: 130 $\pm$ 5 / ON: 80 $\pm$ 20								
DRAIN PUMP FUSE	°C	145								

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3

4 Options

			FXFQ20M8	FXFQ25M8	FXFQ32M8	FXFQ40M8	FXFQ50M8	FXFQ63M8	FXFQ80M8	FXFQ100M8	FXFQ125M8
DECORATION PANEL			BYC125K7W1B								
HIGH EFFICIENCY FILTER 65%	Colorimetric method		KAFJ556K80						KAFJ556K160		
HIGH EFFICIENCY FILTER 90%	Colorimetric method		KAFJ557K80						KAFJ557K160		
REPLACEMENT HIGH EFFICIENCY FILTER 65%	Colorimetric method		KAFP552H80						KAFP552H160		
REPLACEMENT HIGH EFFICIENCY FILTER 90%	Colorimetric method		KAFP553H80						KAFP553H160		
FILTER CHAMBER FOR ABOVE			KDDFJ55K160								
REPLACEMENT LONG LIFE FILTER (NON WOVEN TYPE)			KAFJ55K160								
REPLACEMENT ULTRA LONG LIFE FILTER			KAFJ551K160H								
FRESH AIR INTAKE KIT	Chamber type	without T-shape and fan	KDDJ55B160								
		with T-shape and fan	KDDJ55B160F								
		with T-shape without fan	KDDJ55B160K								
	Direct installation type		KDDJ55X160								
AIR DISCHARGE OUTLET SEALING MEMBER			KDBHJ55K160								
PANEL SPACER			KDBP55H160WA								
BRANCH DUCT CHAMBER			KDJ55B80						KDJ55B160		
CHAMBER CONNECTION KIT			KKSJ55K160								

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3TW25599-1E

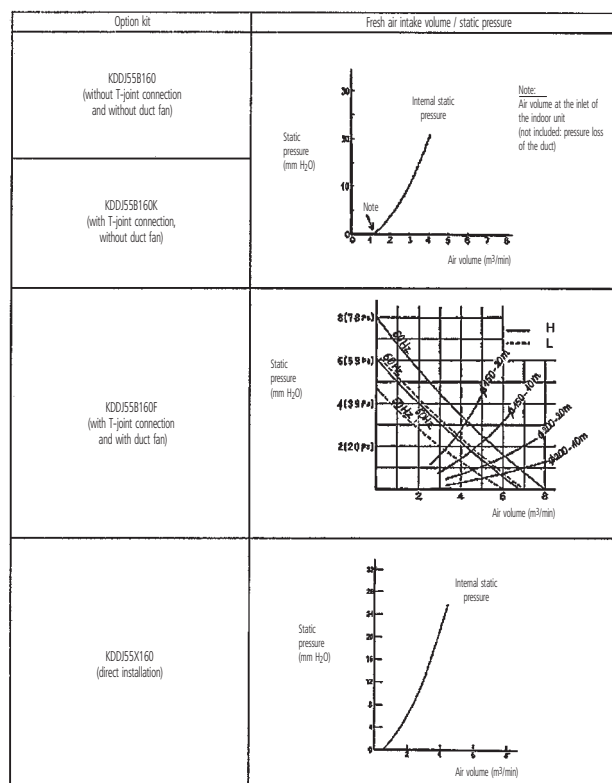
NOTES

- All options are supplied as kit

FXFQ-M8

NOTES

- Option kits KDDJ55B160, KDDJ55B160K, KDDJ55B160F
Following restrictions must be kept:
 - Maximum 20% of the nominal indoor unit air volume can be sucked from the fresh air duct.
 - Put an air filter in the duct.
 - When a duct fan is used, use the option kit together with the duct fan. When only the duct fan is operating, dust can fall from the air filter into the room.
Wiring adapter: KRP1B57
Installation box for adapter PCB: KRP1C98
- Option kit KDDJ55X160
This kit can be used when the duct length is less than 4m.
Approximately 2 or 3% of the nominal indoor air volume can be sucked from the fresh air duct.
The use of a duct fan is not allowed because the sound of the duct can be heard at the indoor unit.)



3TW22839-10A

5 Control systems

5

Individual control systems

		FXFQ20M8	FXFQ25M8	FXFQ32M8	FXFQ40M8	FXFQ50M8	FXFQ63M8	FXFQ80M8	FXFQ100M8	FXFQ125M8
WIRED REMOTE CONTROL						BRC1D52				
INFRARED REMOTE CONTROL	Heat pump					BRC7C512W				
	Cooling only					BRC7C513W				

Centralised control systems

	FXFQ20M8	FXFQ25M8	FXFQ32M8	FXFQ40M8	FXFQ50M8	FXFQ63M8	FXFQ80M8	FXFQ100M8	FXFQ125M8
CENTRALISED REMOTE CONTROL					DCS302C51				
UNIFIED ON/OFF CONTROL					DCS301B51				
SCHEDULE TIMER					DST301B51				

Others

	FXFQ20M8	FXFQ25M8	FXFQ32M8	FXFQ40M8	FXFQ50M8	FXFQ63M8	FXFQ80M8	FXFQ100M8	FXFQ125M8
WIRING ADAPTER (HOUR METER)					EKRP1B2 #				
WIRING ADAPTER FOR ELECTRICAL APPENDICES (1)					KRP2A526 #				
WIRING ADAPTER FOR ELECTRICAL APPENDICES (2)					KRP4A536 #				
REMOTE SENSOR					KRCS01-1				
INSTALLATION BOX FOR ADAPTER PCB					KRP1C98				
ELECTRICAL BOX WITH EARTH TERMINAL (3 BLOCKS)					KJB311A				
ELECTRICAL BOX WITH EARTH TERMINAL (2 BLOCKS)					KJB212A				
NOISE FILTER (FOR ELECTROMAGNETIC INTERFACE USE ONLY)					KEK26-1				
EXTERNAL CONTROL ADAPTER FOR OUTDOOR UNITS (INSTALLATION ON INDOOR UNIT)					DTA104A52 #				

3TW25599-1E

NOTES

- 1 Installation box is necessary for each adapter marked with #

6 Capacity tables

6 - 1 Cooling capacity tables

FXFQ-M8																
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

6 Capacity tables

6 - 1 Cooling capacity tables

FXFQ-M8

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	TC	SHC	
50	5.6	10.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.4	4.3	4.3
		12.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.3	4.3	4.3
		14.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.2	4.3	4.3
		16.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.1	4.2	4.2
		18.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.0	4.2	4.2
		20.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	6.9	4.1	4.1
		21.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	6.8	4.1	4.1
		23.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.6	3.9	6.7	4.1	4.1
		25.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.5	3.9	6.6	4.0	4.0
		27.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.4	3.8	6.6	4.0	4.0
		29.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.3	3.8	6.5	3.9	3.9
		31.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.2	3.8	6.4	3.9	3.9
		33.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.1	3.7	6.3	3.9	3.9
		35.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	5.9	4.2	6.0	3.7	6.2	3.8	3.8
		37.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	5.8	4.2	5.9	3.6	6.1	3.8	3.8
		39.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	5.7	4.1	5.8	3.6	6.0	3.7	3.7
63	7.1	10.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.5	5.4	9.3	5.5	5.5
		12.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.5	5.4	9.2	5.4	5.4
		14.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.5	5.4	9.1	5.4	5.4
		16.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.5	5.4	9.0	5.3	5.3
		18.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.5	5.4	8.8	5.2	5.2
		20.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.5	5.4	8.7	5.1	5.1
		21.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.5	5.4	8.7	5.1	5.1
		23.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.4	5.4	8.5	5.0	5.0
		25.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.3	5.3	8.4	5.0	5.0
		27.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.1	5.2	8.3	5.0	5.0
		29.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	8.0	5.1	8.2	4.9	4.9
		31.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	7.9	5.1	8.1	4.9	4.9
		33.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.6	5.3	7.8	5.0	7.9	4.8	4.8
		35.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.5	5.2	7.7	5.0	7.8	4.8	4.8
		37.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.4	5.2	7.5	4.9	7.7	4.7	4.7
		39.0	4.8	4.1	5.7	4.6	6.6	5.0	7.1	5.2	7.2	5.1	7.4	4.9	7.6	4.7	4.7
80	9.0	10.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.8	6.9	11.8	7.1	7.1
		12.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.8	6.9	11.7	7.0	7.0
		14.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.8	6.9	11.5	6.9	6.9
		16.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.8	6.9	11.4	6.8	6.8
		18.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.8	6.9	11.2	6.7	6.7
		20.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.8	6.9	11.1	6.6	6.6
		21.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.8	6.9	11.0	6.6	6.6
		23.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.6	6.8	10.8	6.4	6.4
		25.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.5	6.7	10.7	6.4	6.4
		27.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.3	6.6	10.5	6.3	6.3
		29.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.2	6.5	10.4	6.2	6.2
		31.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	10.0	6.5	10.2	6.2	6.2
		33.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.6	6.7	9.8	6.4	10.1	6.2	6.2
		35.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.5	6.6	9.7	6.4	9.9	6.1	6.1
		37.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.3	6.5	9.5	6.3	9.8	6.0	6.0
		39.0	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.6	9.2	6.5	9.4	6.2	9.6	6.0	6.0
100	11.2	10.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	13.4	8.3	14.7	8.5	8.5
		12.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	13.4	8.3	14.5	8.3	8.3
		14.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	13.4	8.3	14.4	8.3	8.3
		16.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	13.4	8.3	14.2	8.1	8.1
		18.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	13.4	8.3	14.0	8.0	8.0
		20.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	13.4	8.3	13.8	7.9	7.9
		21.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	13.4	8.3	13.7	7.9	7.9
		23.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	13.2	8.2	13.5	7.8	7.8
		25.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	13.0	8.1	13.3	7.7	7.7
		27.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	12.8	8.0	13.1	7.6	7.6
		29.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	12.6	7.9	12.9	7.5	7.5
		31.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	12.4	7.8	12.7	7.4	7.4
		33.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.9	8.0	12.2	7.7	12.5	7.4	7.4
		35.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.8	7.9	12.1	7.6	12.3	7.3	7.3
		37.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.6	7.8	11.9	7.5	12.2	7.2	7.2
		39.0	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.9	11.4	7.7	11.7	7.5	12.0	7.2	7.2
125	14.0	10.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.8	10.5	18.4	10.9	10.9
		12.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.8	10.5	18.2	10.7	10.7
		14.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.8	10.5	18.0	10.6	10.6
		16.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.8	10.5	17.7	10.4	10.4
		18.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.8	10.5	17.5	10.3	10.3
		20.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.8	10.5	17.2	10.2	10.2
		21.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.8	10.5	17.1	10.1	10.1
		23.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.5	10.3	16.9	9.9	9.9
		25.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.3	10.2	16.6	9.8	9.8
		27.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	16.1	10.0	16.4	9.7	9.7
		29.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	15.8	9.8	16.2	9.6	9.6
		31.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	15.6	9.8	15.9	9.4	9.4
		33.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.9	9.9	15.3	9.6	15.7	9.2	9.2
		35.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.8	9.8	15.1	9.5	15.4	9.1	9.1
		37.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.5	9.7	14.9	9.4	15.2	9.0	9.0
		39.0	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.3	9.5	14.6	9.2	15.0	8.9	8.9

6 Capacity tables

6 - 2 Heating capacity tables

FXFQ-M8									
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				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	2.2
		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	2.8
		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	3.2	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	-17.0	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

3TW25512-2

6 Capacity tables

6 - 2 Heating capacity tables

6

FXFQ-M8

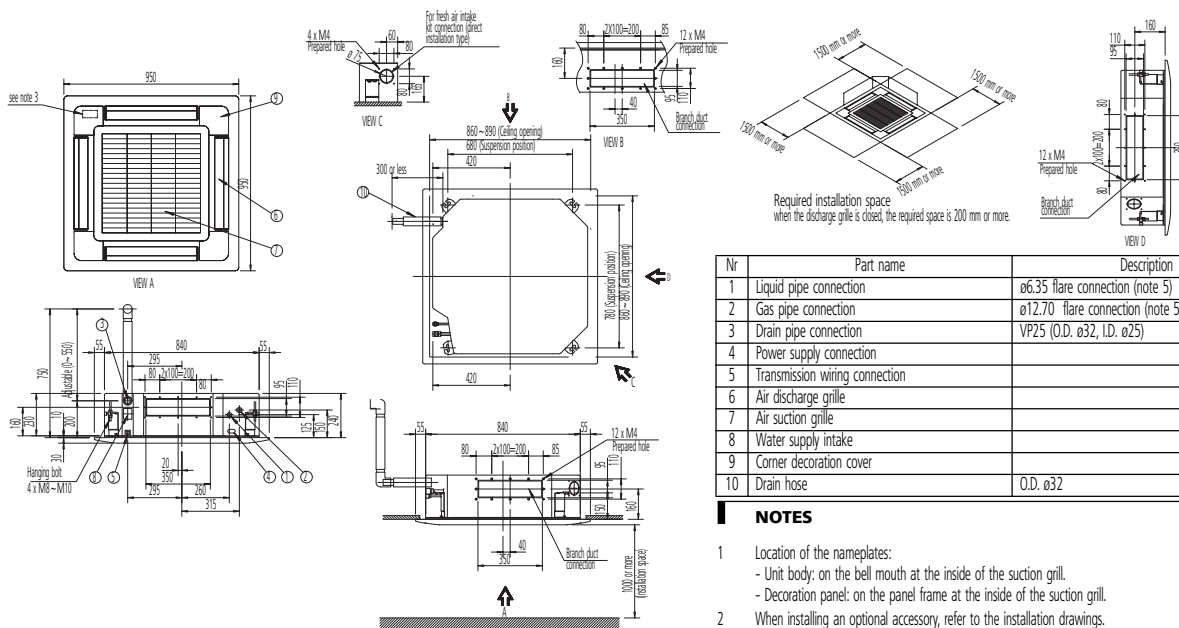
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
		°CDB	°CWB	16.0 kW	18.0 kW	20.0 kW	21.0 kW	22.0 kW	24.0 kW
50	6.3	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
		-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
		-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
		-14.7	-15.0	4.3	4.3	4.3	4.2	4.2	4.2
		-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

3TW25512-2

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

FXFQ20,25,32,40,50,63M8



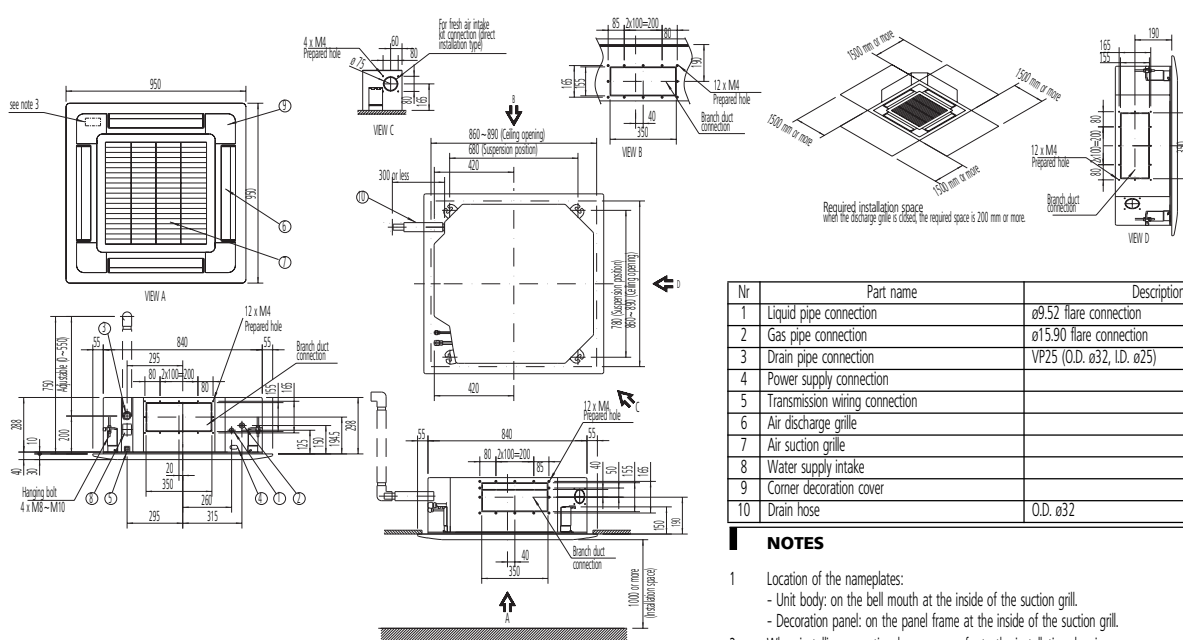
Nr	Part name	Description
1	Liquid pipe connection	ø6.35 flare connection (note 5)
2	Gas pipe connection	ø12.70 flare connection (note 5)
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Power supply connection	
5	Transmission wiring connection	
6	Air discharge grille	
7	Air suction grille	
8	Water supply intake	
9	Corner decoration cover	
10	Drain hose	O.D. ø32

NOTES

- Location of the nameplates:
 - Unit body: on the bell mouth at the inside of the suction grill.
 - Decoration panel: on the panel frame at the inside of the suction grill.
- When installing an optional accessory, refer to the installation drawings.
 - For fresh air intake kit... an inspection port is necessary
 - For high efficiency filter... an inspection port is not necessary
 - For branch duct chamber... an inspection port is not 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 details.
- 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).
- FXFQ63M7V1B: liquid pipe connection: ø9.5 flare connection
gas pipe connection: ø15.9 flare connection

3TW25594-1A

FXFQ80,100,125M8



Nr	Part name	Description
1	Liquid pipe connection	ø9.52 flare connection
2	Gas pipe connection	ø15.90 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Power supply connection	
5	Transmission wiring connection	
6	Air discharge grille	
7	Air suction grille	
8	Water supply intake	
9	Corner decoration cover	
10	Drain hose	O.D. ø32

NOTES

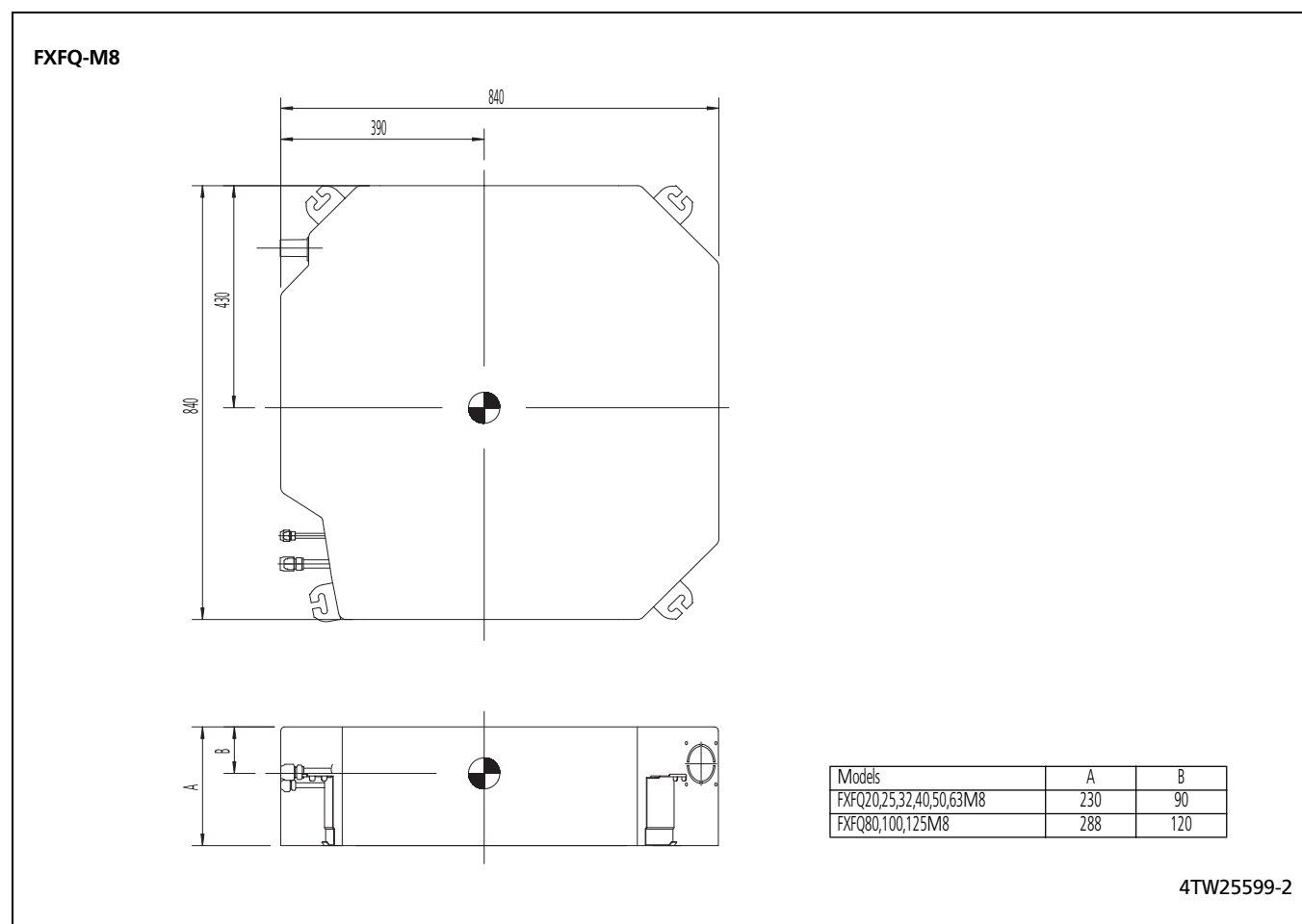
- Location of the nameplates:
 - Unit body: on the bell mouth at the inside of the suction grill.
 - Decoration panel: on the panel frame at the inside of the suction grill.
- When installing an optional accessory, refer to the installation drawings.
 - For fresh air intake kit... an inspection port is necessary
 - For high efficiency filter... an inspection port is not necessary
 - For branch duct chamber... an inspection port is not 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 details.
- 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).

3TW25654-1

7 Dimensional drawing & centre of gravity

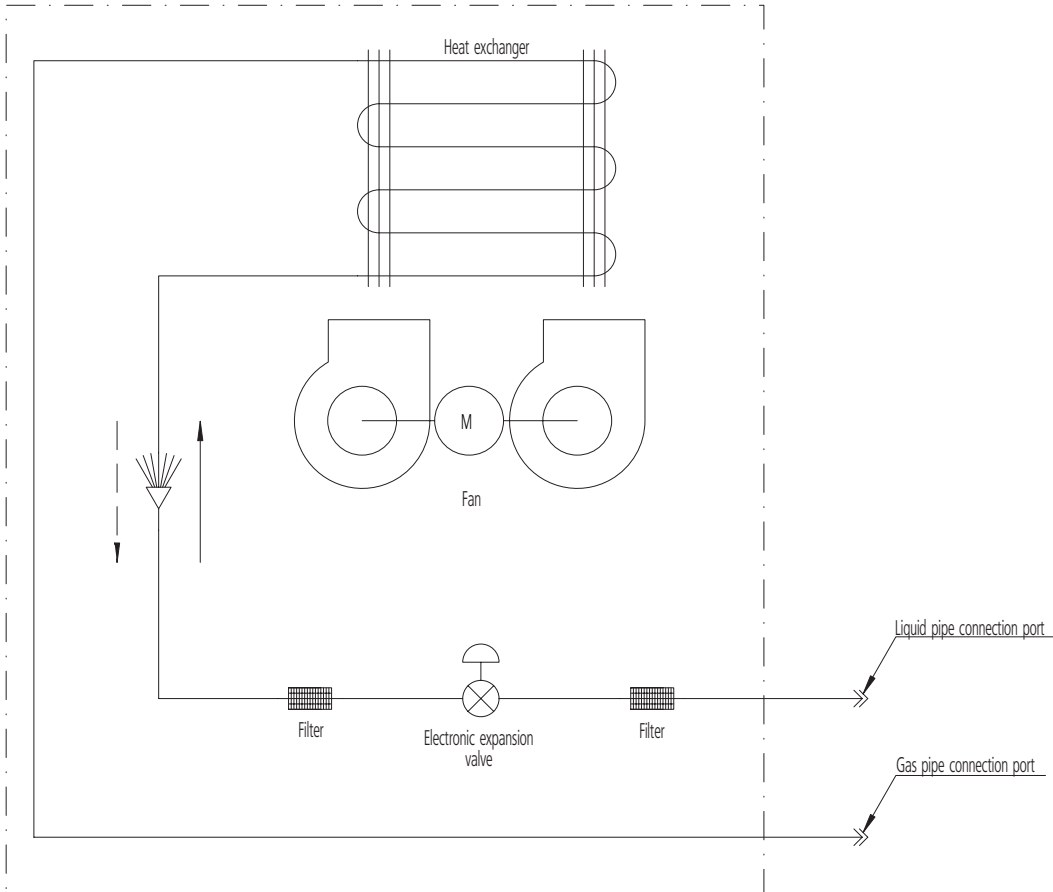
7 - 2 Centre of gravity

7



8 Piping diagram

FXFQ-M8



Refrigerant flow

Cooling 
 Heating 

Piping connection diameters

Models	Gas	Liquid
FXFQ20,25,32,40,50M8	ø12.7	ø6.35
FXFQ63,80,100,125M8	ø15.9	ø9.5

3TW25515-1

9 - 1 Wiring diagram

33H	Float switch	R2T-R3T	Thermistor (coil)	A2P, A3P	Printed circuit board
A1P	Printed circuit board	RyP	Magnetic relay (M1P)	B5	On/off button
C1R	Capacitor (M1F)	T1R	Transformer (220-240V/22V)	H1P	Light emitting diode (on-red)
C3	Capacitor	X1M	Terminal strip (power)	H2P	Light emitting diode (timer-green)
F1U	Fuse (250V, 5A)	X2M	Terminal strip (control)	H3P	Light emitting diode (filter sign-red)
F2U	Field fuse	PC	Phase control circuit	H4P	Light emitting diode (defrost-orange)
HAP	Light emitting diode (service monitor-green)	Y1E	Electronic expansion valve	SS1	Selector switch (main/sub)
M1F	Motor (indoor fan)	Wired remote control		SS2	Selector switch (infrared address set)
M1P	Motor (drain pump)	R1T	Thermistor (air)	Connector for optional parts	
M1S	Motor (swing flap)	SS1	Selector switch (main/sub)	X18A	Connector (wiring adapter for electrical appendices)
Q1E	Earth leak detector	Receiver/display unit (attached to infrared remote control)		X23A	Connector (infrared remote control)
R1T	Thermistor (air)				

-  : Field wiring
-  : Connector
-  : Wire clamp
-  : Protective earth (screw)
-  : Terminal

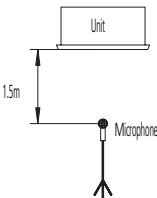
COLORS : BLK : Black PNK : Pink
 BLU : Blue RED : Red
 GRN : Green WHT : White
 ORG : Orange YLW : Yellow

- 1 Use copper conductors only.
- 2 When using the centralised remote control, see manual for connection to the unit.
- 3 X23A is connected when infrared remote control kit is used.
- 4 When connecting the input wires from outside, forced off or ON/OFF control operation can be selected by the remote control manual. See installation manual for more details.

10 Sound data

10 - 1 Sound level data

FXFQ-M8

Model	Sound pressure level - 230V			Sound power level
	H	L	Measuring location	
RXYQ20M8	31	28		48
RXYQ25M8	31	28		48
RXYQ32M8	31	28		48
RXYQ40M8	32	28		49
RXYQ50M8	33	28		50
RXYQ63M8	34	29		51
RXYQ80M8	38	32		54
RXYQ100M8	40	33		56
RXYQ125M8	45	36		61

NOTES

1

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

2

Reference acoustic pressure 0 dB = 20 mPa.

3

Data is valid at free field condition and nominal operation condition (230V, air discharge in 4 directions)

4

Operation noise differs with operation and ambient conditions.

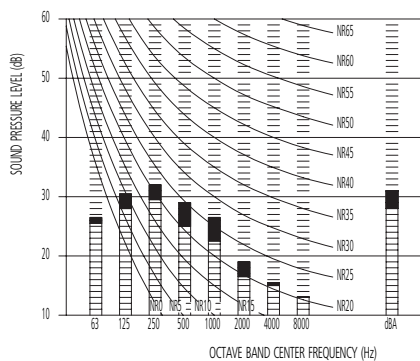
10 Sound data

10 - 2 Sound pressure spectrum

10

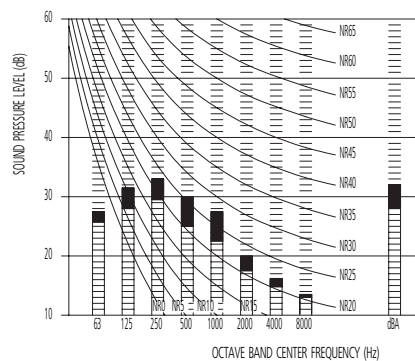
FXFQ20,25,32M8

3TW23417-1



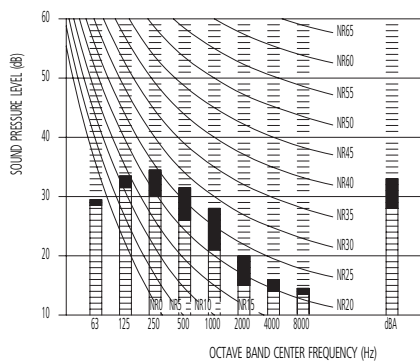
FXFQ40M8

3TW23447-1



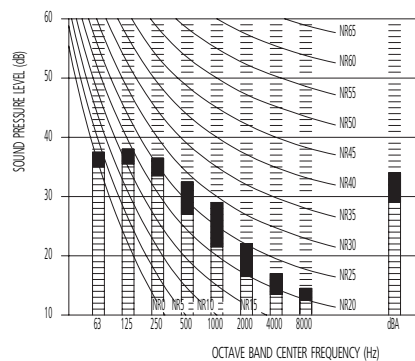
FXFQ50M8

3TW23457-1



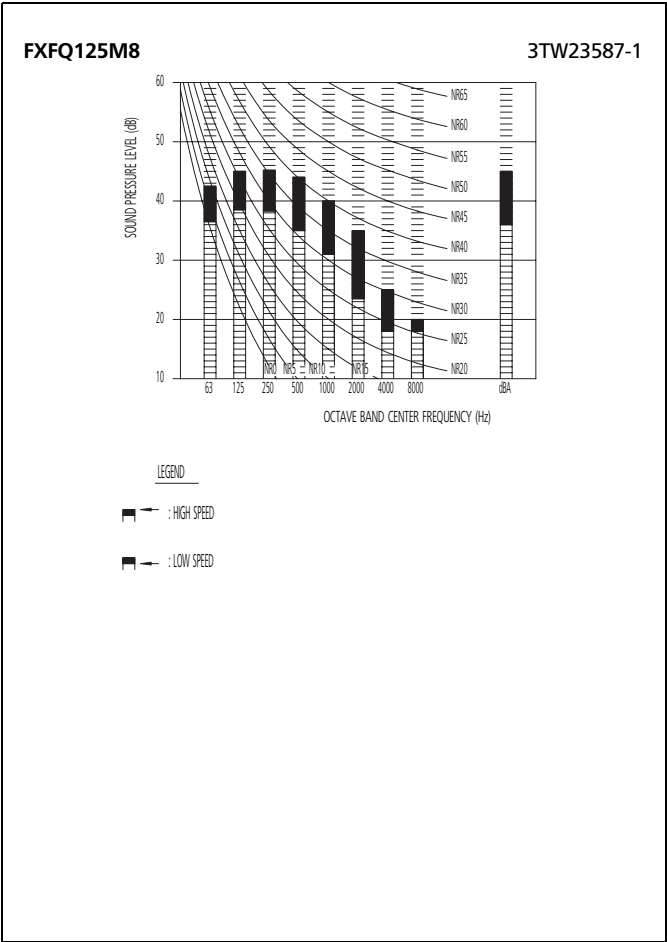
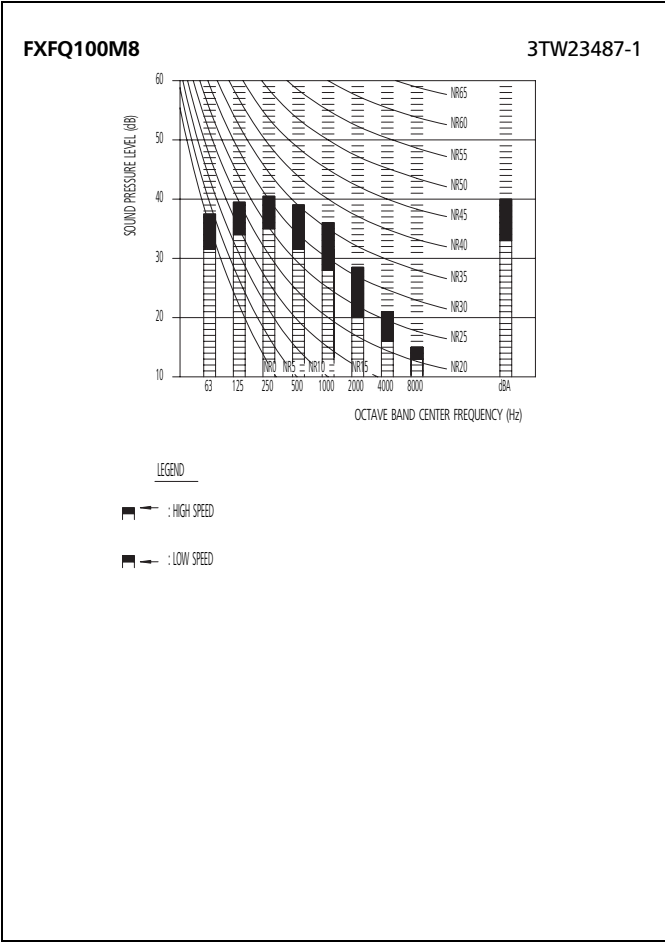
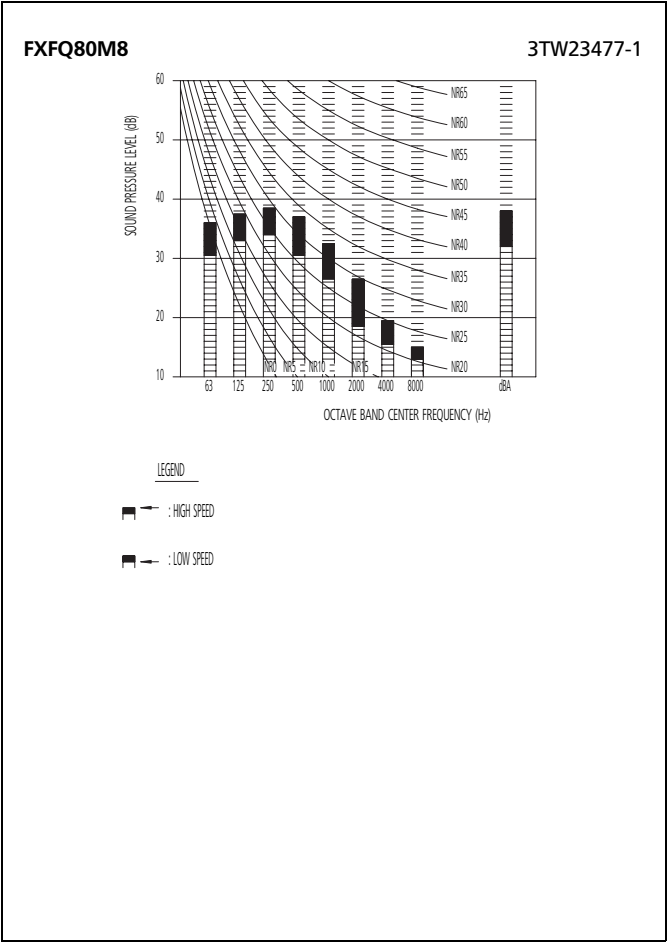
FXFQ63M8

3TW23467-1



10 Sound data

10 - 2 Sound pressure spectrum

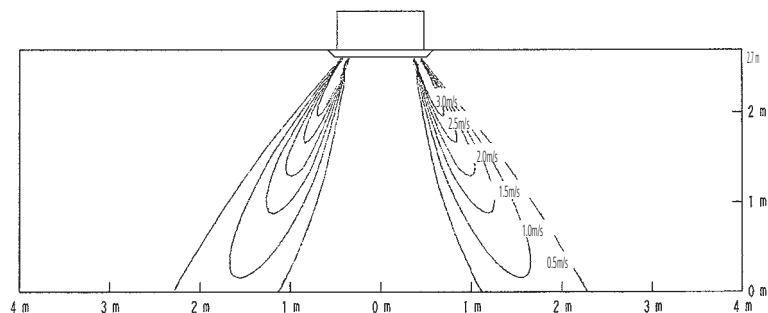


11 Air flow pattern

FXFQ40M8

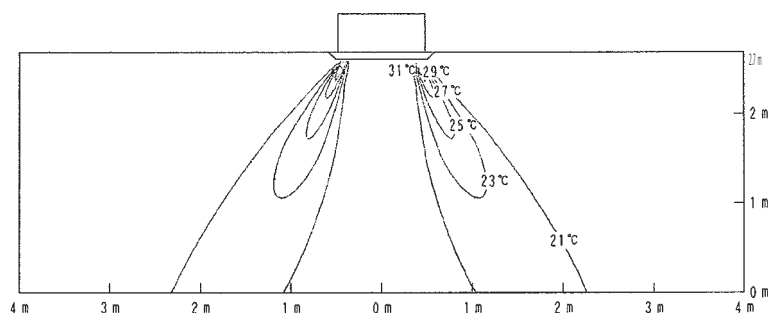
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down

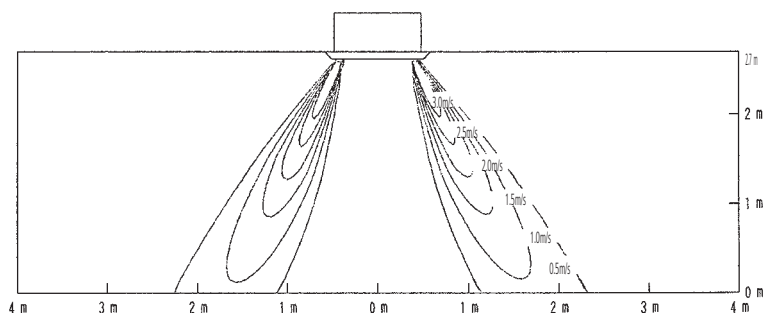


4D024116

FXFQ50M8

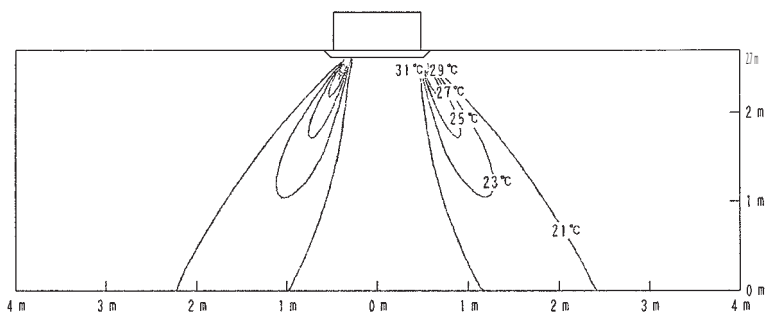
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down



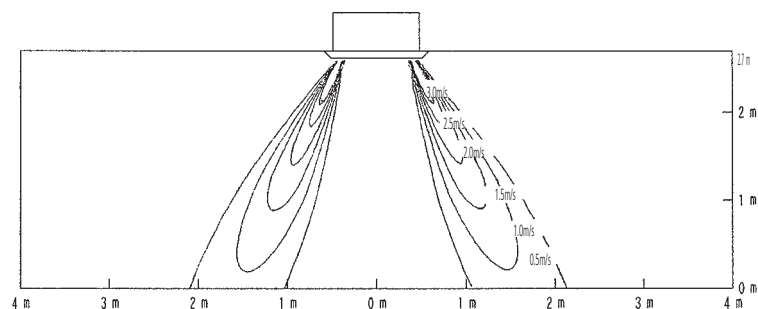
4D024117

11 Air flow pattern

FXFQ63M8

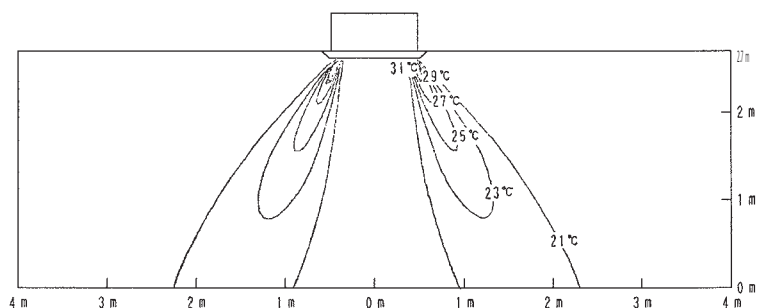
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down

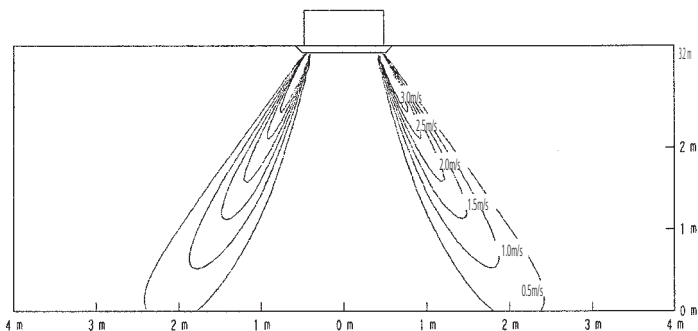


4D024118

FXFQ80,100M8

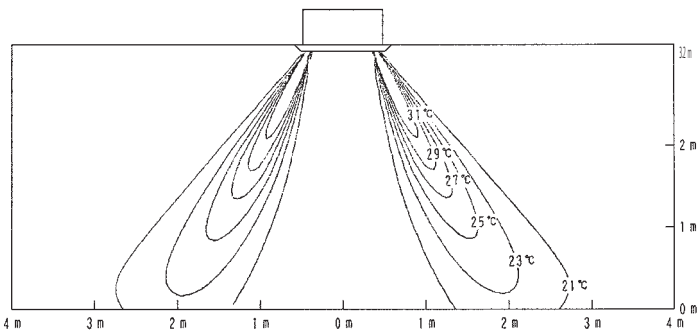
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down



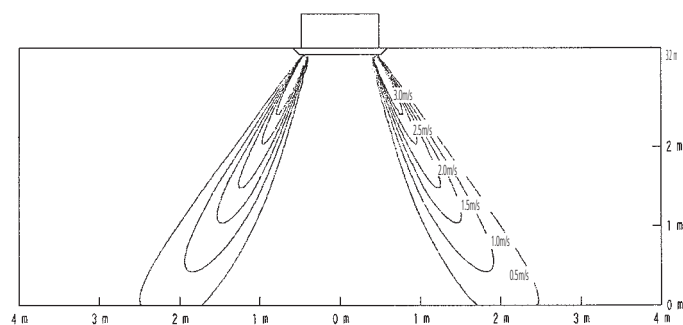
4D024119

11 Air flow pattern

FXFQ125M8

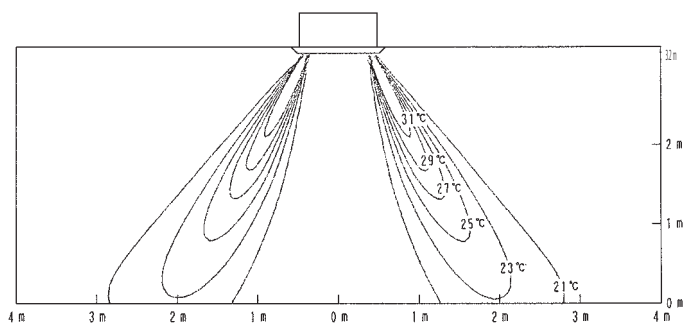
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down



4D024120

12 Branch duct connections

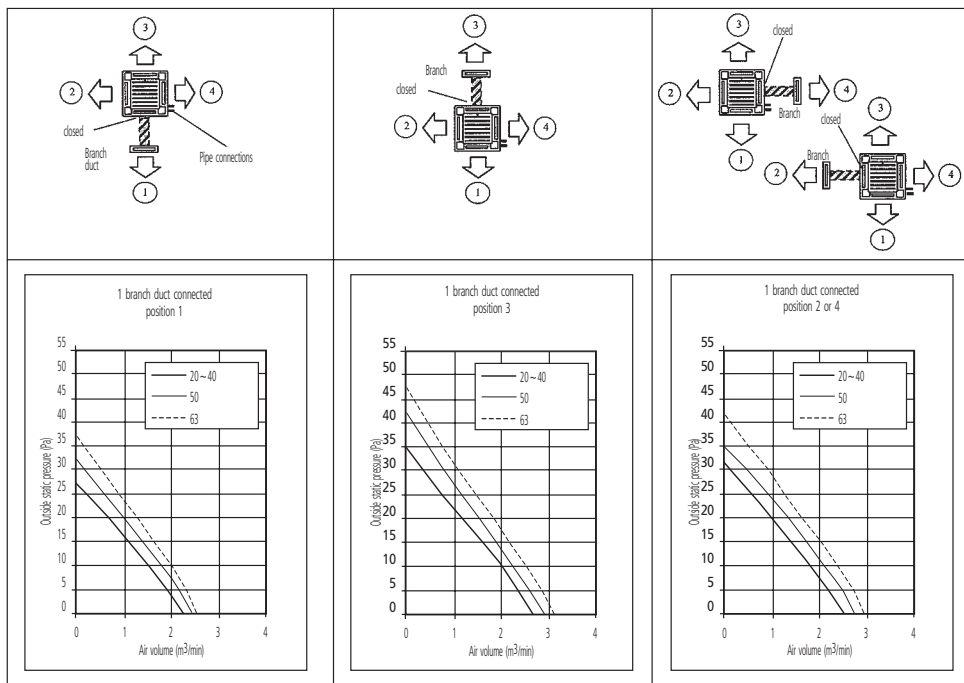
FXFQ20,25,32,40,50,63M8

1 Branch duct - 3-way blow

Discharge grill: K-DGSC4B (connection: diameter 150mm)

Flexible duct: K-FDK154B (connection: diameter 150mm, length: 4m)

Air volume: 1.5 ~ 2.0m³/min



3TW22839-7

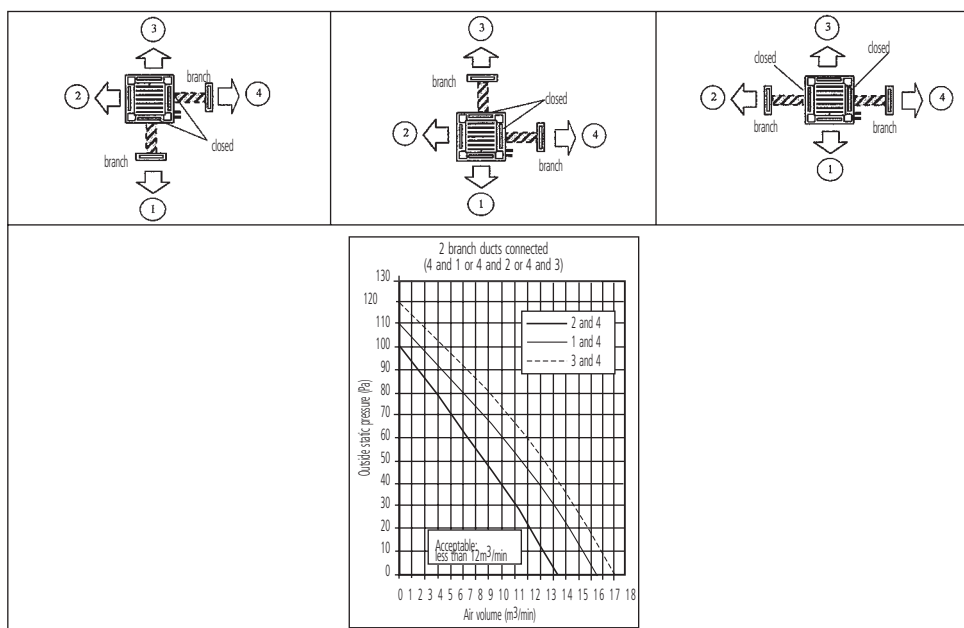
FXFQ80,100,125M8

2 Branch ducts - 2-way blow

Discharge grill: K-DGSC4B (connection: diameter 200mm)

Flexible duct: K-FDK154B (connection: diameter 200mm, length: 6m)

Air volume: 9.0 ~ 11.0m³/min



3TW22879-9

12 Branch duct connections

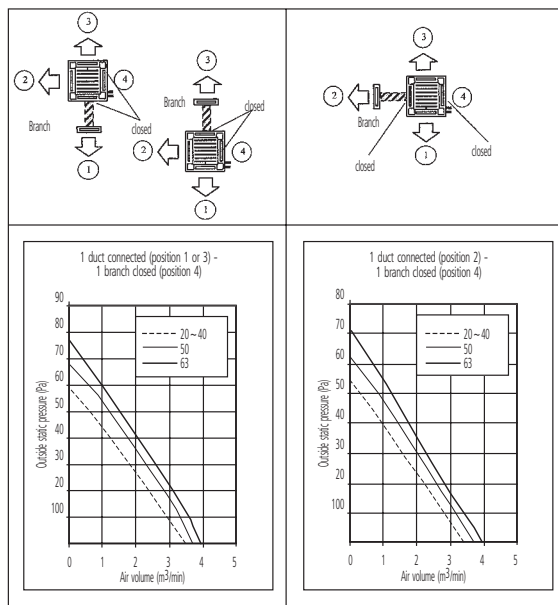
FXFQ20,25,32,40,50,63M8

1 Branch duct - 2-way blow

Discharge grill: K-DGSC4B (connection: diameter 150mm)

Flexible duct: K-FDK154B (connection: diameter 150mm, length: 4m)

Air volume: 2.0~3.0m³/min



3TW22839-8

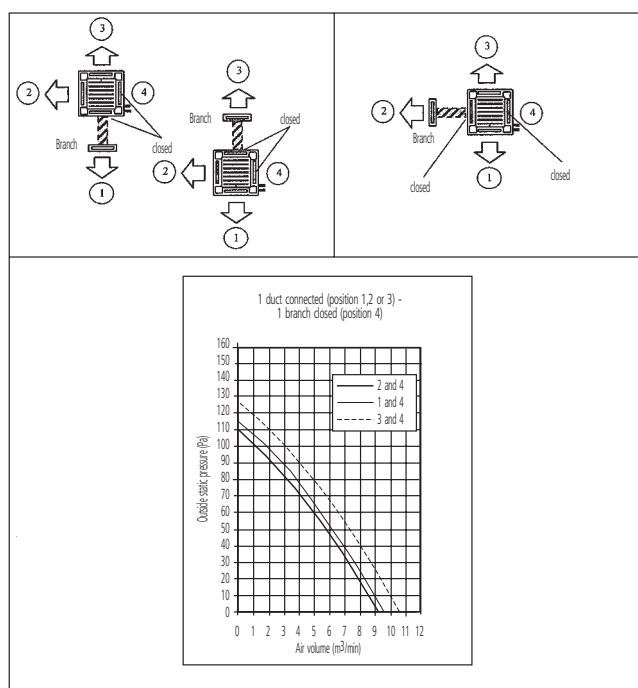
FXFQ80,100,125M7V1B

1 Branch duct - 2-way blow

Discharge grill: K-DGSC4B (connection: diameter 200mm)

Flexible duct: K-FDK154B (connection: diameter 200mm, length: 6m)

Air volume: 7.0~10.0m³/min



3TW22839-8

12 Branch duct connections

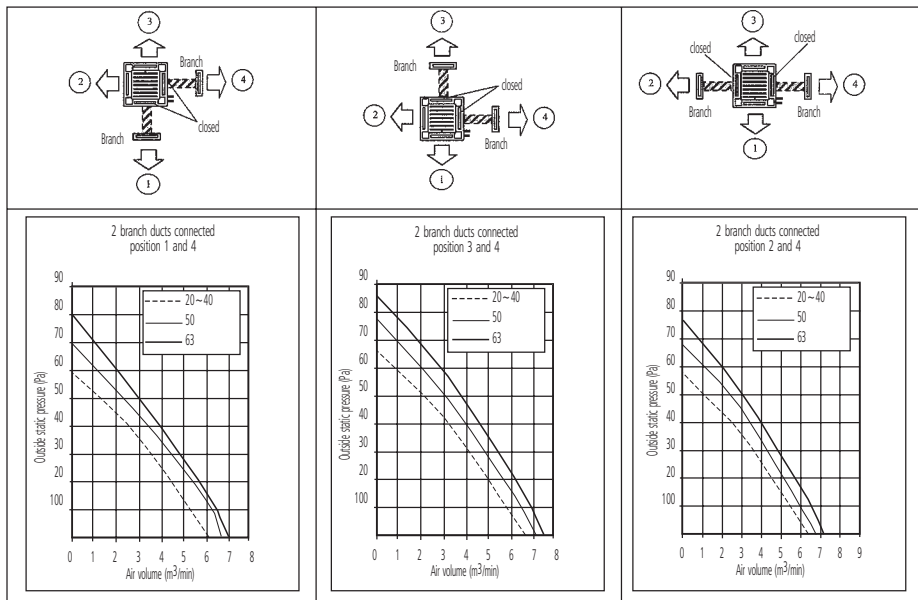
FXFQ20,25,32,40,50,63M8

2 Branch ducts - 2-way blow

Discharge grill: K-DGSC4B (connection: diameter 150mm)

Flexible duct: K-FDK154B (connection: diameter 150mm, length: 4m)

Air volume: 4.0~5.0m³/min



3TW22839-9

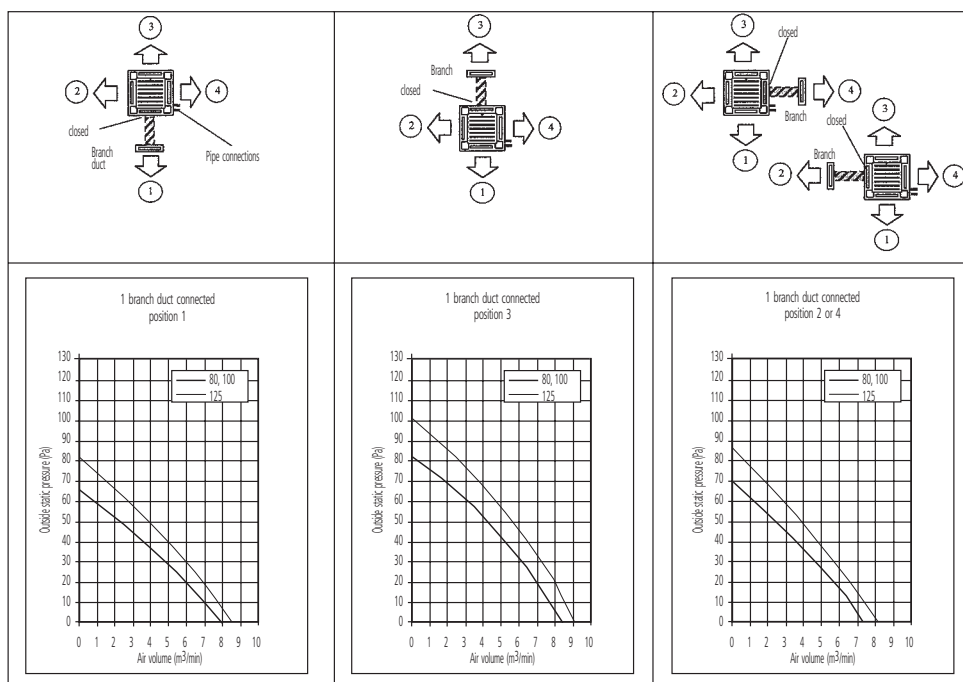
FXFQ80,100,125M8

1 Branch duct - 3-way blow

Discharge grill: K-DGSC4B (connection: diameter 200mm)

Flexible duct: K-FDK154B (connection: diameter 200mm, length: 6m)

Air volume: 5.0~7.0m³/min



3TW22879-7

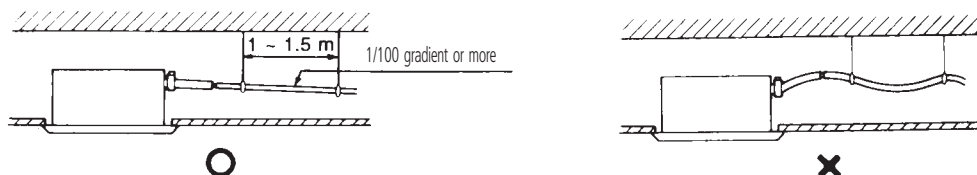
13 Installation

13 - 1 Drainage instructions

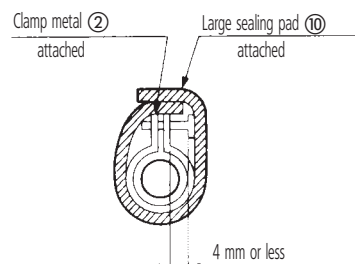
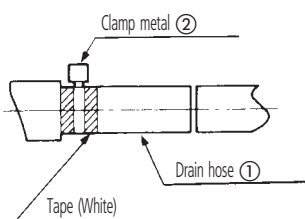
Rig drain piping

- The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe (vinyl tube; pipe size: 25 mm; outer dimension: 32 mm).
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent the formation of air pockets.
- If the drain hose cannot be sufficiently set on a slope, execute the drain raising piping.

To keep the drain hose from sagging, space hanging wires every 1 to 1.5 m

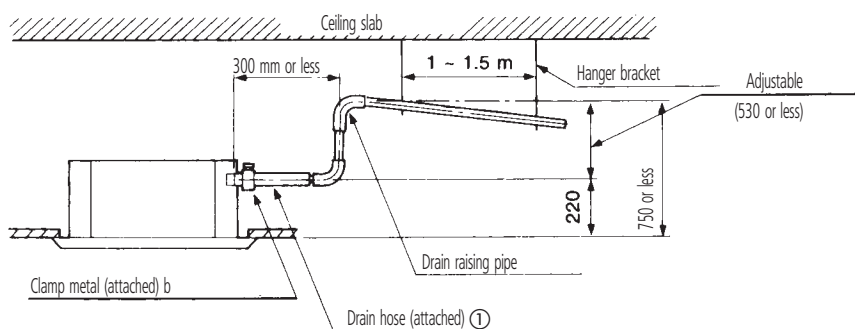


- Use the attached drain hose ① and clamp metal ②. Insert the drain hose into the drain socket, up to the white tape. Tighten the clamp until the screw head is less than 4 mm from the hose.
- Wrap the attached sealing pad ⑩ over the clamp and drain hose to insulate.
- Insulate the drain hose inside the building.



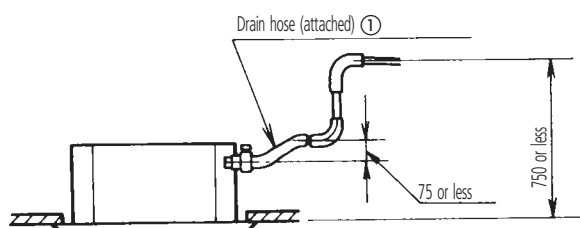
precautions for drain raising piping

- Install the drain raising pipes at a height of less than 530 mm.
- Install the drain raising pipes at a right angle to the indoor unit and no more than 300 mm from the unit.



NOTES

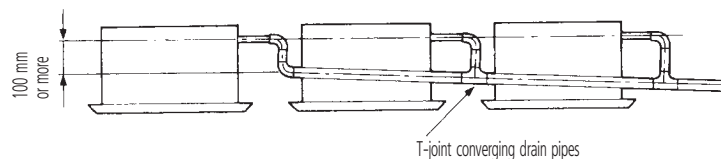
- The incline of attached drain hose ① should be 75 mm or less so that the drain socket does not have to stand additional force.



13 Installation

13 - 1 Drainage instructions

- If converging multiple drain pipes, install according to the procedure shown below.



Select converging drain pipes whose gauge is suitable for the operating capacity of the unit.

After piping work is finished, check if drainage flows smoothly

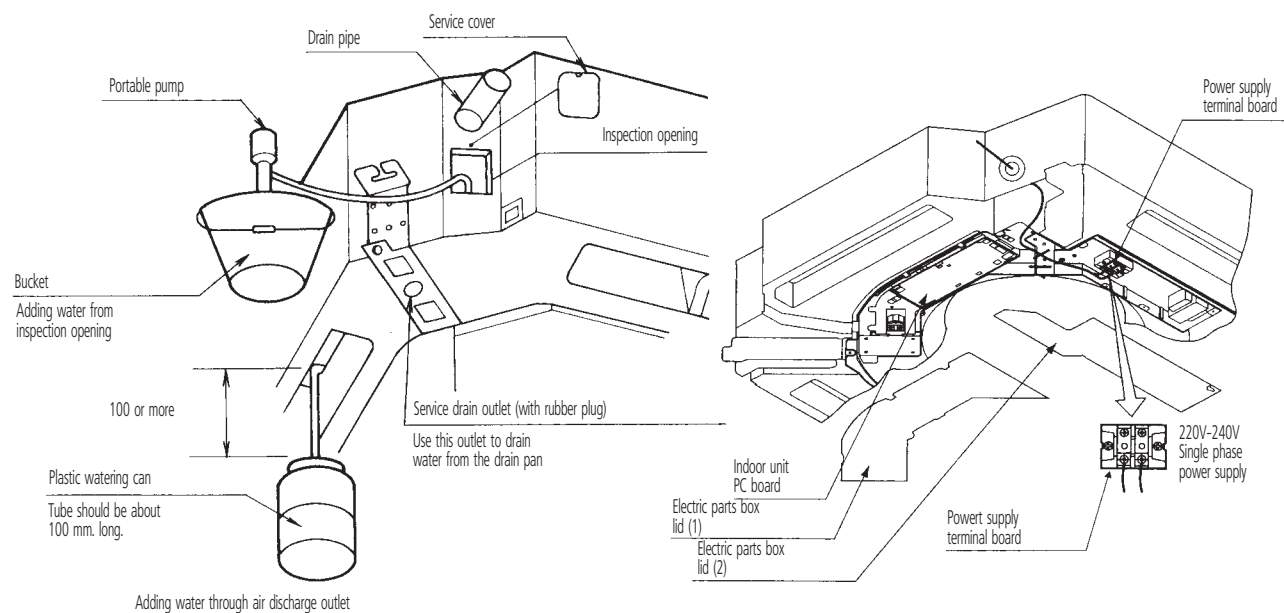
- Open the water inlet lid, add approximately 600 cc of water gradually and check drainage flow.

When electric wiring work is finished

- Check drainage flow during COOL running.

When electric wiring work is not finished

- Remove the electric parts box lid, connect power supply and remote control to the terminals. Next, press the inspection/test operation button "TEST" on the remote control. The unit will engage the test operation mode. Press the operation mode selector button " " until selecting FAN operation " ". Then, press the ON/OFF button " ". The indoor unit fan and drain pump will start up. Check that the water has drained from the unit. Press "TEST" to go back to the first mode.



Method of adding water

13 Installation

13 - 1 Drainage instructions

2

VRV III-S
VRV III
VRV II
VRV-WII

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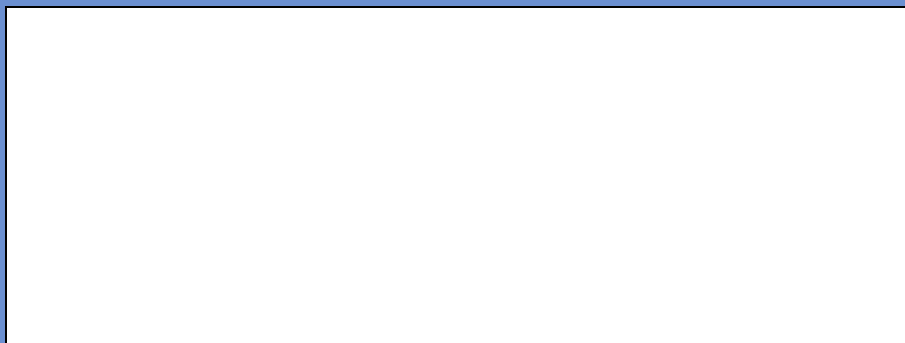
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