



technical data

VRVTM Systems

FXYFP-KB7V19

4-way blow ceiling mounted cassette

FXYFP-KB7V19

4-way blow ceiling mounted cassette



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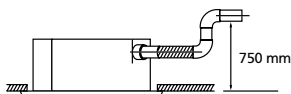
1 Features

- Sound pressure levels down to 28dBA leave even the most sensitive occupant undisturbed

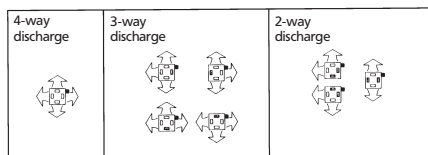
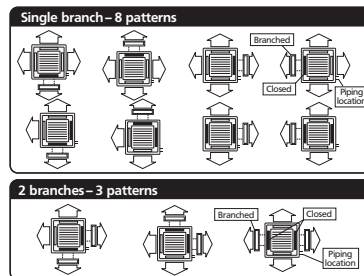
FXYFP20~63KB7V19		Number of discharge outlets		
		4-way discharge	3-way discharge	2-way discharge
Ceiling height	Standard	2.7m or less	3.0m or less	3.5m or less
	High ceiling ①	3.0m or less	3.3m or less	3.8m or less
	High ceiling ②	3.5m or less	3.5m or less	

FXYFP80~125KB7V19		Number of discharge outlets		
		4-way discharge	3-way discharge	2-way discharge
Ceiling height	Standard	3.2m or less	3.6m or less	4.2m or less
	High ceiling ①	3.6m or less	4.0m or less	4.2m or less
	High ceiling ②	4.2m or less	4.2m or less	

- Air flow distribution to suit ceiling heights upto 4.2m for model 80 and above
- Longer air flow because of square air outlet
- Drain-up pump with increased lift of 750mm fitted as standard

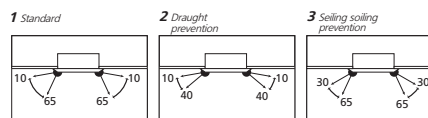


- Air can be discharged in any of 4 directions. Possibility to shut 1 or 2 flaps for easy installation in corners or to use 1 or 2 branches



■... indicates the piping connection direction

- Choice of 3 auto-swing positions for maximum comfort



*Has been set to standard setting at time of shipment. This can be changed using the remote control



1 Features

1-1 Easy Maintenance

Cleaning cycle of heat exchanger is extended
High efficiency long life filter is mounted as standard, which extends cleaning cycle from once every 2 years to once every 3 years

Ceiling soiling prevention
By installing a stepping motor, the flap moves directly to the setting position. This prevents the air from flowing too long in horizontal position, thus preventing ceiling stains.

Soiling of discharge grill blade is prevented
Non fiber-planted discharge blade is installed

Mildew proof finished air filter and drain pan

① Moves directly to the setting position

1

1-2 Easy Installation

Cutting work of ceiling board and ceiling joist are reduced
• All models are designed to be fit into the standard pitch of ceiling joist.

No hoist is required
• Drastic reduction of machine weight.

Prevention of outer surface damage at installation due to eliminating outer surface insulation.
• This is because the air gap is made between the panel and the inner insulation to avoid condensation on the outside panel.

Square design of unit and panel
• unit: 840 mm
• panel: 950 mm

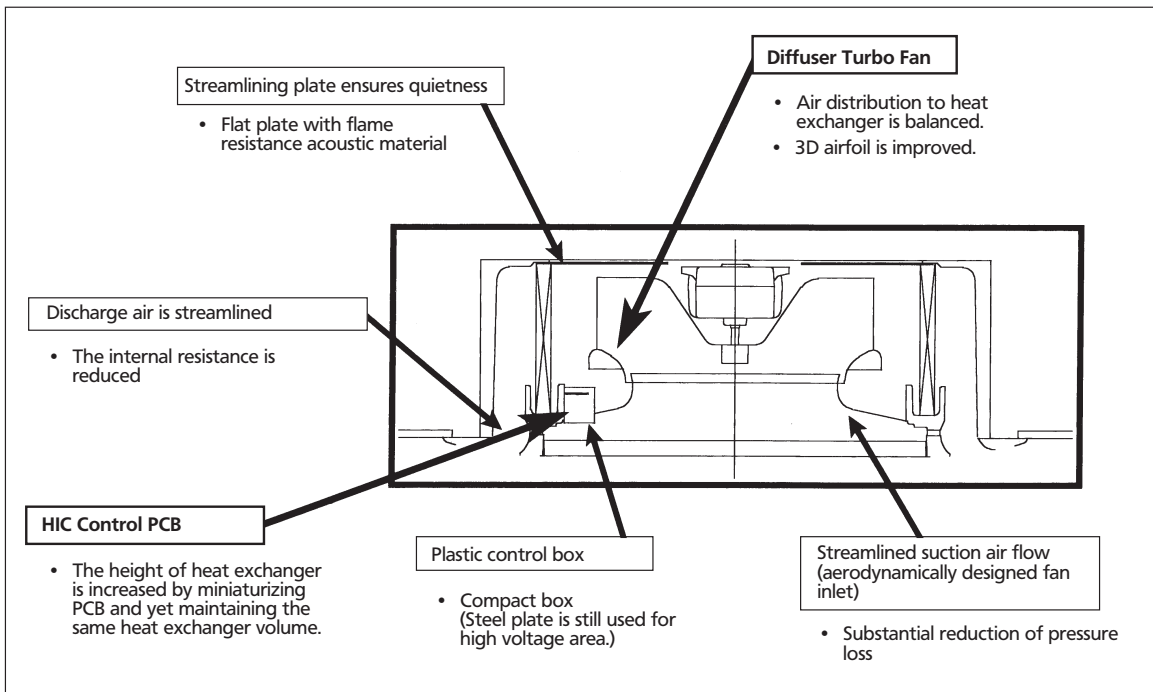
Low silhouette
• Only 230 mm for models 20 up to 63 for easy installation in ceiling voids of at least 245 mm depth

Less electrical wiring
• Super-Wiring
• All initial settings can be made by the indoor unit remote control.

Easy height adjustment
• By adopting adjuster pocket, height of panel can be adjusted without removing panel.
• Hooks to hang panel temporarily.

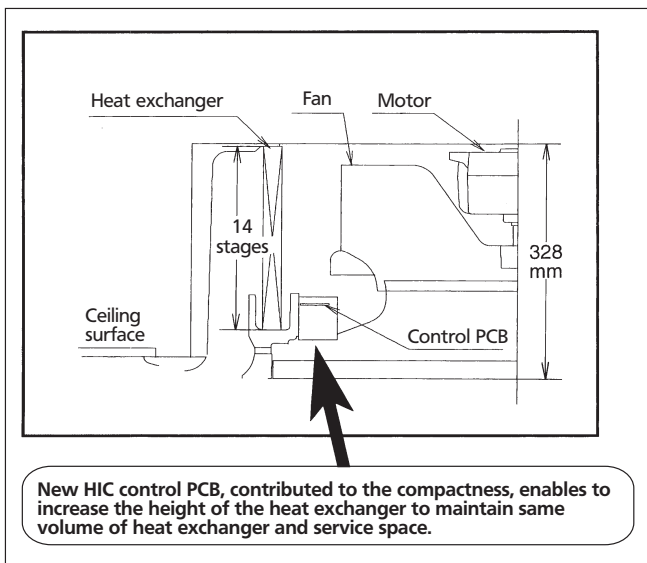
1 Features

1-3 Innovative design that combines compactness and quietness



1-4 HIC (High Integrated Circuit) Control PCB

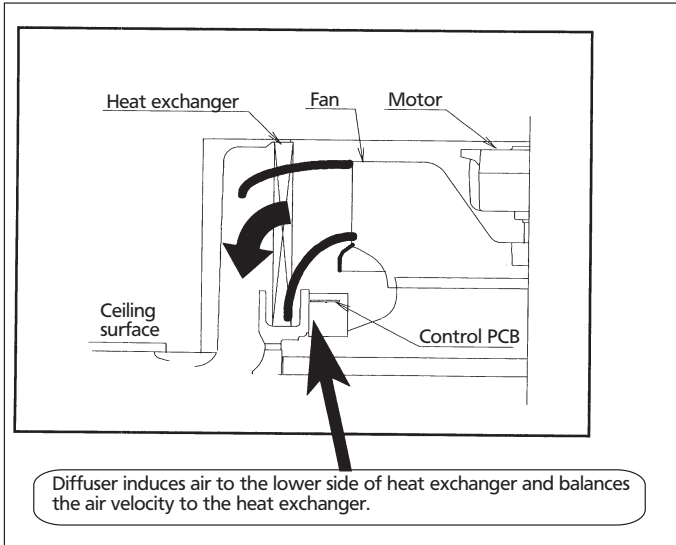
- All high functional semi-conductors (parts which cannot be replaced on site) such as LSI etc. including micro-computer are integrated.
- Service space for connector, switch and etc., which has to be serviced on site is secured.



1 Features

1-5 Diffuser Turbo Fan (Patent pending)

- Newly developed "Diffuser Turbo Fan" using aircraft technology.
- The 3-D airfoil and diffuser for improving air flow is combined into one piece, which reduces the air resistance passing through.
- By balancing the air flow to the heat exchanger, the lowest sound level in the industry is realised.



2 Specifications

2-1 Technical specifications

FXYP-KB7V19				20	25	32	40	50	63	80	100	125	
COOLING CAPACITY (1)			kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	
HEATING CAPACITY (2)			kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
NOMINAL INPUT	Cooling	W		90			97	106	118	173	184	230	
	Heating	W		75			82	90	101	159	169	215	
DIMENSIONS	Unit	HxWxD	mm	230x840x840						288x840x840			
	Decoration panel	HxWxD	mm	40x950x950						40x950x950			
WEIGHT	Unit	kg		24						28			
	Decoration panel	kg		5						5			
CASING			galvanised steel plate										
COLOUR			white										
SOUND LEVEL - 230V	Sound pressure	high	dB(A)	31			32	33	34	38	40	45	
		low	dB(A)	28			28	28	29	32	33	36	
	Sound power	dB(A)		48			49	50	51	54	56	61	
FAN	Air flow rate	high	m ³ /h	780			840	960	1,080	1,680	1,680	1,860	
		low	m ³ /h	600			600	660	840	1,200	1,260	1,440	
	Type	turbo fan											
	Qty x model	1 x QTS46B14M						1 x QTS46A17M					
	Qty x motor output	W		1 x 45						1 x 90			
Drive			2 steps (direct drive)										
HEAT EXCHANGER	Rows x stages x fin pitch	mm	1x4x1.5	2x8x1.5						2x12x1.5			
	Face area	m ²	0.331						0.497				
AIR FILTER			resin net with mold resistant										
REFRIGERANT CONTROL			electronic expansion valve										
TEMPERATURE CONTROL			microprocessor thermostat for cooling and heating										
PIPING CONNECTIONS	Liquid	flare	mm	ø 6.4				ø 9.5			ø 9.5		
	Gas	flare	mm	ø 12.7				ø 15.9			ø 19.1		
	Drain	mm		VP25, external diameter 32, internal diameter 25									
Sound absorbing thermal insulation			foamed polystyrene										

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NOTES

- Nominal cooling capacities are based on:
 - Indoor temperature: 27°CDB, 19°CWB
 - Outdoor temperature: 35°CDB
 - Equivalent refrigerant piping: 7.5m (horizontal)
- Nominal heating capacities are based on:
 - Indoor temperature: 20°CDB
 - Outdoor temperature: 7°CDB, 6°CWB
 - Equivalent refrigerant piping: 7.5m (horizontal)
- Capacities are net including a deduction for cooling (an addition for heating) for indoor fan motor heat.

2-2 Electrical specifications

FXYFP-KB7V19			20	25	32	40	50	63	80	100	125
CURRENT	Minimum circuit amps (MCA)	A	0.5				0.6		1.0	1.1	1.4
	Maximum fuse amps (MFA) (5)		16								
POWER SUPPLY		V1	1 ~, 50Hz, 230V								
VOLTAGE RANGE	Min ~ max	V	207 ~ 253								
INDOOR FAN MOTOR	Fan motor rated output	W	45						90		
	Full load amps (FLA)	A	0.4				0.5	0.8	0.9	1.1	

4TW23411-2

NOTES

- 1 Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- 2 Maximum allowable voltage range variation between phases is 2%.
- 3 MCA/MFA:
MCA = 1.25 x FLA
MFA ≤ 4 x FLA
next lower standard fuse rating minimum 16A.
- 4 Select wire size based on the MCA.
- 5 Instead of a fuse, use a circuit breaker

2

2-3 Safety device setting

FXYFP-KB7V19			20	25	32	40	50	63	80	100	125
PC BOARD FUSE			250V 5A								
FAN MOTOR THERMAL PROTECTOR	°C		OFF: 130 ^{±5} / ON: 80 ^{±20}								
DRAIN PUMP FUSE	°C		145								

3TW21171-3C

3 Accessories

FXYP-KB7V19		20	25	32	40	50	63	80	100	125	
DECORATION PANEL		BYC125KW1									
HIGH EFFICIENCY FILTER 65%	Colorimetric method	KAFJ556K80						KAFJ556K160			
HIGH EFFICIENCY FILTER 90%	Colorimetric method	KAFJ557K80						KAFJ557K160			
REPLACEMENT HIGH EFFICIENCY FILTER 65%	Colorimetric method	KAFJ552K80						KAFJ552K160			
REPLACEMENT HIGH EFFICIENCY FILTER 90%	Colorimetric method	KAFJ553K80						KAFJ553K160			
FILTER CHAMBER FOR ABOVE		KDFJ55K160									
REPLACEMENT LONG LIFE FILTER (NON WOVEN TYPE)		KAFJ551K160									
REPLACEMENT ULTRA LONG LIFE FILTER		KAFJ55K160H									
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		KDBJ55K160W									
BRANCH DUCT CHAMBER		KDJ55B80						KDJ55B160			
CHAMBER CONNECTION KIT		KKSJ55K160									

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3-1 Fresh air intake kit

<p>NOTES</p> <p>1 Option kits KDDJ55B160, KDDJ55B160K, KDDJ55B160F Following restrictions must be kept:</p> <ol style="list-style-type: none"> 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. <p>Wiring adapter: KRP1B57 Installation box for adapter PCB: KRP1C98</p> <p>2 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.</p>	<p>Option kit</p> <p>KDDJ55B160 (without T-joint connection and without duct fan)</p>	<p>Fresh air intake volume / static pressure</p>
	<p>KDDJ55B160K (with T-joint connection, without duct fan)</p>	
	<p>KDDJ55B160F (with T-joint connection and with duct fan)</p>	
	<p>KDDJ55X160 (direct installation)</p>	

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4 Control systems

4-1 Individual control systems

WIRED REMOTE CONTROL		BRC1C517, BRC1D517
INFRARED REMOTE CONTROL	Heat pump	BRC7C512W
	Cooling only	BRC7C513W

4-2 Centralised control systems

CENTRALISED REMOTE CONTROL	DCS302B51
UNIFIED ON/OFF CONTROL	DCS301B51
SCHEDULE TIMER	DST301B51

4-3 Others

WIRING ADAPTER	KRP1B2 #
WIRING ADAPTER FOR ELECTRICAL APPENDICES (1)	KRP2A52 #
WIRING ADAPTER FOR ELECTRICAL APPENDICES (2)	KRP4A53 #
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 #

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NOTES

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

5 Capacity tables

5-1 Cooling capacity

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	
			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	2.9	1.9
		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	2.9	1.9
		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	2.9	1.9
		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	2.9	1.9
		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	2.9	1.9
		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	2.9	1.9
		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	2.8	1.9
		27.0	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
		29.0	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
		31.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.7	1.8
		33.0	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	1.8
		35.0	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	1.8
		37.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.8	2.5	1.8
		39.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.7	2.2	1.8	2.4	1.8	2.5	1.8
		25	2.8	10.0	1.9	1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1
12.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.5	2.2
14.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.5	2.2
16.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.5	2.2
18.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.5	2.2
20.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.5	2.2
21.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.5	2.2
23.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.5	2.2
25.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.5	2.2
27.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.4	2.1
29.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.2	2.1	3.4	2.1
31.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.1	2.1	3.3	2.1
33.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.9	2.1	3.1	2.1	3.2	2.1
35.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.2	2.0
37.0	1.9			1.7	2.2	1.8	2.5	2.0	2.7	2.0	2.8	2.1	3.0	2.1	3.1	2.1
39.0	1.9			1.7	2.2	1.8	2.5	2.0	2.6	2.0	2.7	2.1	2.9	2.0	3.1	2.0
32	3.6			10.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7
		12.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.5	2.8
		14.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.5	2.8
		16.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.5	2.8
		18.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.5	2.8
		20.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.5	2.8
		21.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.5	2.8
		23.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.4	2.8
		25.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.4	2.7
		27.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.3	2.7
		29.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	4.0	2.7	4.2	2.7
		31.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	3.9	2.7	4.2	2.7
		33.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	3.8	2.6	4.1	2.7
		35.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.6	2.7	3.8	2.6	4.0	2.6
		37.0	2.3	2.2	2.8	2.5	3.2	2.6	3.4	2.7	3.5	2.6	3.7	2.6	3.9	2.6
		39.0	2.3	2.2	2.8	2.5	3.2	2.6	3.3	2.7	3.4	2.6	3.7	2.6	3.9	2.6
		40	4.5	10.0	3.0	2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3
12.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.8	3.3
14.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.8	3.3
16.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.8	3.3
18.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.8	3.3
20.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.8	3.3
21.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.8	3.3
23.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.8	3.3
25.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.7	3.3
27.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.6	3.3
29.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.2	3.3	5.5	3.3
31.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.1	3.2	5.4	3.2
33.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.7	3.2	5.0	3.2	5.3	3.2
35.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.6	3.2	4.9	3.2	5.2	3.2
37.0	3.0			2.7	3.6	2.9	4.1	3.2	4.4	3.2	4.5	3.2	4.8	3.1	5.1	3.1
39.0	3.0			2.7	3.6	2.9	4.1	3.2	4.3	3.2	4.4	3.2	4.7	3.1	5.0	3.1

5 Capacity tables

5-1 Cooling capacity

TC: Total capacity;kW – SHC: Sensible capacity;kW

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.OWB		16.OWB		18.OWB		19.OWB		20.OWB		22.OWB		24.OWB	
			20.OdB		23.OdB		26.OdB		27.OdB		28.OdB		30.OdB		32.OdB	
°CDB		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	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.2	4.1
		12.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.2	4.1
		14.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.2	4.1
		16.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.2	4.1
		18.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.2	4.1
		20.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.2	4.1
		21.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.2	4.1
		23.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.2	4.1
		25.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.1	4.1
		27.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.1	7.0	4.0
		29.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.5	4.0	6.8	4.0
		31.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.3	4.0	6.7	3.9
		33.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	4.0	6.2	4.0	6.6	3.9
		35.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.8	3.9	6.1	3.9	6.5	3.8
		37.0	3.8	3.2	4.5	3.5	5.2	3.8	5.5	3.9	5.7	3.9	6.0	3.8	6.4	3.8
		39.0	3.8	3.2	4.5	3.5	5.2	3.8	5.4	3.8	5.6	3.8	5.9	3.8	6.2	3.7
63	7.1	10.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.9	5.3
		12.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.9	5.3
		14.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.9	5.3
		16.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.9	5.3
		18.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.9	5.3
		20.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.9	5.3
		21.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.9	5.3
		23.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.9	5.2
		25.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.7	5.2
		27.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.1	5.2	8.6	5.1
		29.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	8.0	5.1	8.5	5.1
		31.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	7.8	5.1	8.3	5.0
		33.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.2	5.0	7.7	5.0	8.2	5.0
		35.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.1	5.0	7.6	4.9	8.0	4.9
		37.0	4.7	4.0	5.5	4.4	6.4	4.8	6.8	4.9	7.0	4.9	7.4	4.9	7.9	4.8
		39.0	4.7	4.0	5.5	4.4	6.4	4.8	6.7	4.9	6.9	4.9	7.3	4.8	7.7	4.8
80	9.0	10.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.5	6.9
		12.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.5	6.9
		14.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.5	6.9
		16.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.5	6.9
		18.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.5	6.9
		20.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.5	6.9
		21.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.5	6.9
		23.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.5	6.9
		25.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.3	6.8
		27.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.4	6.7	11.1	6.7
		29.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.3	6.7	10.9	6.6
		31.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.2	6.6	10.7	6.6
		33.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.3	6.5	10.0	6.5	10.6	6.5
		35.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.2	6.5	9.8	6.5	10.4	6.4
		37.0	6.1	5.3	7.2	5.8	8.3	6.3	8.8	6.4	9.1	6.4	9.6	6.4	10.2	6.3
		39.0	6.1	5.3	7.2	5.8	8.3	6.3	8.6	6.3	8.9	6.3	9.5	6.3	10.0	6.2
100	11.2	10.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	14.3	8.2
		12.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	14.3	8.2
		14.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	14.3	8.2
		16.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	14.3	8.2
		18.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	14.3	8.2
		20.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	14.3	8.2
		21.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	14.3	8.2
		23.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	14.2	8.2
		25.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	14.0	8.1
		27.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.9	8.0	13.8	8.0
		29.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.8	8.0	13.5	7.9
		31.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.6	7.9	13.3	7.8
		33.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.6	7.7	12.3	7.7	13.1	7.7
		35.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.4	7.7	12.1	7.7	12.8	7.6
		37.0	7.5	6.2	8.9	6.8	10.2	7.5	10.9	7.6	11.2	7.6	11.9	7.6	12.6	7.5
		39.0	7.5	6.2	8.9	6.8	10.2	7.5	10.7	7.5	11.0	7.5	11.7	7.5	12.4	7.4

5 Capacity tables

5-1 Cooling capacity

TC: Total capacity;kW – SHC: Sensible capacity;kW

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.OWB		16.OWB		18.OWB		19.OWB		20.OWB		22.OWB		24.OWB	
			20.ODB		23.ODB		26.ODB		27.ODB		28.ODB		30.ODB		32.ODB	
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
125	14.0	10.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	18.0	10.3
		12.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	18.0	10.3
		14.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	18.0	10.3
		16.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	18.0	10.3
		18.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	18.0	10.3
		20.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	18.0	10.3
		21.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	18.0	10.3
		23.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	17.9	10.3
		25.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	17.6	10.1
		27.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.2	10.1	17.3	10.0
		29.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	16.1	10.0	17.0	9.9
		31.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	15.8	9.8	16.7	9.7
		33.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.5	9.7	15.5	9.7	16.4	9.6
		35.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.3	9.6	15.3	9.6	16.1	9.5
		37.0	9.4	7.6	11.2	8.5	12.9	9.3	13.7	9.5	14.1	9.5	15.0	9.5	15.9	9.4
		39.0	9.4	7.6	11.2	8.5	12.9	9.3	13.4	9.4	13.8	9.4	14.7	9.4	15.6	9.2

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5 Capacity tables

5-2 Heating capacity

Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
		°CDB	°CWB	16.0	18.0	20.0	21.0	22.0	24.0
				kW	kW	kW	kW	kW	kW
20	2.5	-13.7	-15.0	1.5	1.4	1.4	1.4	1.4	1.4
		-11.8	-13.0	1.5	1.5	1.5	1.5	1.5	1.5
		-9.8	-11.0	1.6	1.6	1.6	1.6	1.6	1.5
		-9.5	-10.0	1.7	1.6	1.6	1.6	1.6	1.6
		-8.5	-9.1	1.7	1.7	1.6	1.6	1.6	1.6
		-7.0	-7.6	1.7	1.7	1.7	1.7	1.7	1.7
		-5.0	-5.6	1.8	1.8	1.8	1.8	1.8	1.7
		-3.0	-3.7	1.9	1.9	1.8	1.8	1.8	1.8
		0.0	-0.7	2.0	2.0	2.0	1.9	1.9	1.9
		3.0	2.2	2.1	2.1	2.1	2.0	2.0	1.9
		5.0	4.1	2.2	2.2	2.1	2.1	2.0	1.9
		7.0	6.0	2.3	2.2	2.2	2.1	2.0	1.9
		9.0	7.9	2.3	2.3	2.2	2.1	2.0	1.9
		11.0	9.8	2.4	2.4	2.2	2.1	2.0	1.9
		13.0	11.8	2.5	2.4	2.2	2.1	2.0	1.9
15.0	13.7	2.5	2.4	2.2	2.1	2.0	1.9		
25	3.2	-13.7	-15.0	1.8	1.8	1.7	1.7	1.7	1.7
		-11.8	-13.0	1.9	1.9	1.8	1.8	1.8	1.8
		-9.8	-11.0	2.0	2.0	1.9	1.9	1.9	1.9
		-9.5	-10.0	2.0	2.0	2.0	2.0	1.9	1.9
		-8.5	-9.1	2.1	2.0	2.0	2.0	2.0	2.0
		-7.0	-7.6	2.1	2.1	2.1	2.1	2.1	2.0
		-5.0	-5.6	2.2	2.2	2.2	2.2	2.2	2.1
		-3.0	-3.7	2.3	2.3	2.3	2.2	2.2	2.2
		0.0	-0.7	2.5	2.4	2.4	2.4	2.4	2.3
		3.0	2.2	2.6	2.6	2.5	2.5	2.5	2.3
		5.0	4.1	2.7	2.7	2.6	2.6	2.5	2.3
		7.0	6.0	2.8	2.7	2.7	2.6	2.5	2.3
		9.0	7.9	2.9	2.8	2.7	2.6	2.5	2.3
		11.0	9.8	3.0	2.9	2.7	2.6	2.5	2.3
		13.0	11.8	3.1	2.9	2.7	2.6	2.5	2.3
15.0	13.7	3.1	2.9	2.7	2.6	2.5	2.3		
32	4.0	-13.7	-15.0	2.3	2.2	2.2	2.2	2.2	2.1
		-11.8	-13.0	2.4	2.4	2.3	2.3	2.3	2.3
		-9.8	-11.0	2.5	2.5	2.4	2.4	2.4	2.4
		-9.5	-10.0	2.6	2.5	2.5	2.5	2.5	2.4
		-8.5	-9.1	2.6	2.6	2.5	2.5	2.5	2.5
		-7.0	-7.6	2.7	2.7	2.6	2.6	2.6	2.6
		-5.0	-5.6	2.8	2.8	2.7	2.7	2.7	2.7
		-3.0	-3.7	2.9	2.9	2.8	2.8	2.8	2.8
		0.0	-0.7	3.1	3.1	3.0	3.0	3.0	2.9
		3.0	2.2	3.3	3.2	3.2	3.2	3.1	2.9
		5.0	4.1	3.4	3.3	3.3	3.3	3.1	2.9
		7.0	6.0	3.5	3.5	3.4	3.3	3.1	2.9
		9.0	7.9	3.6	3.6	3.4	3.3	3.1	2.9
		11.0	9.8	3.7	3.7	3.4	3.3	3.1	2.9
		13.0	11.8	3.8	3.7	3.4	3.3	3.1	2.9
15.0	13.7	3.9	3.7	3.4	3.3	3.1	2.9		
40	5.0	-13.7	-15.0	2.9	2.9	2.8	2.8	2.8	2.8
		-11.8	-13.0	3.1	3.0	3.0	3.0	3.0	2.9
		-9.8	-11.0	3.2	3.2	3.1	3.1	3.1	3.1
		-9.5	-10.0	3.3	3.3	3.2	3.2	3.2	3.1
		-8.5	-9.1	3.4	3.3	3.3	3.3	3.2	3.2
		-7.0	-7.6	3.5	3.5	3.4	3.4	3.4	3.3
		-5.0	-5.6	3.6	3.6	3.5	3.5	3.5	3.5
		-3.0	-3.7	3.8	3.7	3.7	3.7	3.6	3.6
		0.0	-0.7	4.0	4.0	3.9	3.9	3.9	3.7
		3.0	2.2	4.2	4.2	4.1	4.1	4.1	3.7
		5.0	4.1	4.4	4.3	4.3	4.2	4.1	3.7
		7.0	6.0	4.5	4.5	4.4	4.2	4.1	3.7
		9.0	7.9	4.7	4.6	4.4	4.2	4.1	3.7
		11.0	9.8	4.8	4.7	4.4	4.2	4.1	3.7
		13.0	11.8	5.0	4.7	4.4	4.2	4.1	3.7
15.0	13.7	5.1	4.7	4.4	4.2	4.1	3.7		

5 Capacity tables

5-2 Heating capacity

5

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
50	6.3	-13.7	-15.0	3.6	3.6	3.6	3.5	3.5	3.5
		-11.8	-13.0	3.8	3.8	3.8	3.7	3.7	3.6
		-9.8	-11.0	4.0	4.0	3.9	3.9	3.9	3.8
		-9.5	-10.0	4.1	4.1	4.0	4.0	4.0	3.9
		-8.5	-9.1	4.2	4.2	4.1	4.1	4.1	4.0
		-7.0	-7.6	4.4	4.3	4.2	4.2	4.2	4.1
		-5.0	-5.6	4.6	4.5	4.4	4.4	4.4	4.3
		-3.0	-3.7	4.7	4.7	4.6	4.6	4.6	4.5
		0.0	-0.7	5.0	5.0	4.9	4.9	4.8	4.6
		3.0	2.2	5.3	5.2	5.2	5.1	5.1	4.6
		5.0	4.1	5.5	5.4	5.3	5.3	5.1	4.6
		7.0	6.0	5.7	5.6	5.5	5.3	5.1	4.6
		9.0	7.9	5.8	5.8	5.5	5.3	5.1	4.6
		11.0	9.8	6.0	5.9	5.5	5.3	5.1	4.6
		13.0	11.8	6.2	5.9	5.5	5.3	5.1	4.6
15.0	13.7	6.4	5.9	5.5	5.3	5.1	4.6		
63	8.0	-13.7	-15.0	4.5	4.5	4.4	4.4	4.3	4.3
		-11.8	-13.0	4.7	4.7	4.6	4.6	4.6	4.5
		-9.8	-11.0	5.0	4.9	4.9	4.8	4.8	4.7
		-9.5	-10.0	5.1	5.1	5.0	4.9	4.9	4.8
		-8.5	-9.1	5.2	5.2	5.1	5.1	5.0	4.9
		-7.0	-7.6	5.4	5.3	5.2	5.2	5.2	5.1
		-5.0	-5.6	5.6	5.5	5.5	5.4	5.4	5.3
		-3.0	-3.7	5.9	5.8	5.7	5.7	5.6	5.5
		0.0	-0.7	6.2	6.1	6.0	6.0	6.0	5.7
		3.0	2.2	6.5	6.5	6.4	6.3	6.3	5.7
		5.0	4.1	6.8	6.7	6.6	6.5	6.3	5.7
		7.0	6.0	7.0	6.9	6.8	6.5	6.3	5.7
		9.0	7.9	7.2	7.1	6.8	6.5	6.3	5.7
		11.0	9.8	7.4	7.3	6.8	6.5	6.3	5.7
		13.0	11.8	7.7	7.3	6.8	6.5	6.3	5.7
15.0	13.7	7.9	7.3	6.8	6.5	6.3	5.7		
80	10.0	-13.7	-15.0	5.8	5.8	5.7	5.7	5.6	5.5
		-11.8	-13.0	6.1	6.1	6.0	6.0	5.9	5.8
		-9.8	-11.0	6.5	6.4	6.3	6.3	6.2	6.1
		-9.5	-10.0	6.6	6.5	6.5	6.4	6.3	6.3
		-8.5	-9.1	6.8	6.7	6.6	6.5	6.5	6.4
		-7.0	-7.6	7.0	6.9	6.8	6.8	6.7	6.6
		-5.0	-5.6	7.3	7.2	7.1	7.0	7.0	6.9
		-3.0	-3.7	7.6	7.5	7.4	7.3	7.3	7.2
		0.0	-0.7	8.0	7.9	7.8	7.8	7.7	7.4
		3.0	2.2	8.5	8.4	8.2	8.2	8.1	7.4
		5.0	4.1	8.8	8.7	8.5	8.5	8.1	7.4
		7.0	6.0	9.1	8.9	8.8	8.5	8.1	7.4
		9.0	7.9	9.4	9.2	8.8	8.5	8.1	7.4
		11.0	9.8	9.6	9.5	8.8	8.5	8.1	7.4
		13.0	11.8	9.9	9.5	8.8	8.5	8.1	7.4
15.0	13.7	10.2	9.5	8.8	8.5	8.1	7.4		
100	12.5	-13.7	-15.0	7.2	7.2	7.1	7.0	7.0	6.9
		-11.8	-13.0	7.6	7.5	7.4	7.4	7.3	7.2
		-9.8	-11.0	8.0	7.9	7.8	7.8	7.7	7.6
		-9.5	-10.0	8.2	8.1	8.0	7.9	7.9	7.8
		-8.5	-9.1	8.4	8.3	8.1	8.1	8.0	7.9
		-7.0	-7.6	8.7	8.5	8.4	8.4	8.3	8.2
		-5.0	-5.6	9.0	8.9	8.8	8.7	8.7	8.5
		-3.0	-3.7	9.4	9.3	9.1	9.1	9.0	8.9
		0.0	-0.7	10.0	9.8	9.7	9.6	9.6	9.2
		3.0	2.2	10.5	10.3	10.2	10.1	10.0	9.2
		5.0	4.1	10.9	10.7	10.6	10.5	10.0	9.2
		7.0	6.0	11.2	11.1	10.9	10.5	10.0	9.2
		9.0	7.9	11.6	11.4	10.9	10.5	10.0	9.2
		11.0	9.8	11.9	11.8	10.9	10.5	10.0	9.2
		13.0	11.8	12.3	11.8	10.9	10.5	10.0	9.2
15.0	13.7	12.6	11.8	10.9	10.5	10.0	9.2		

5 Capacity tables

5-2 Heating capacity

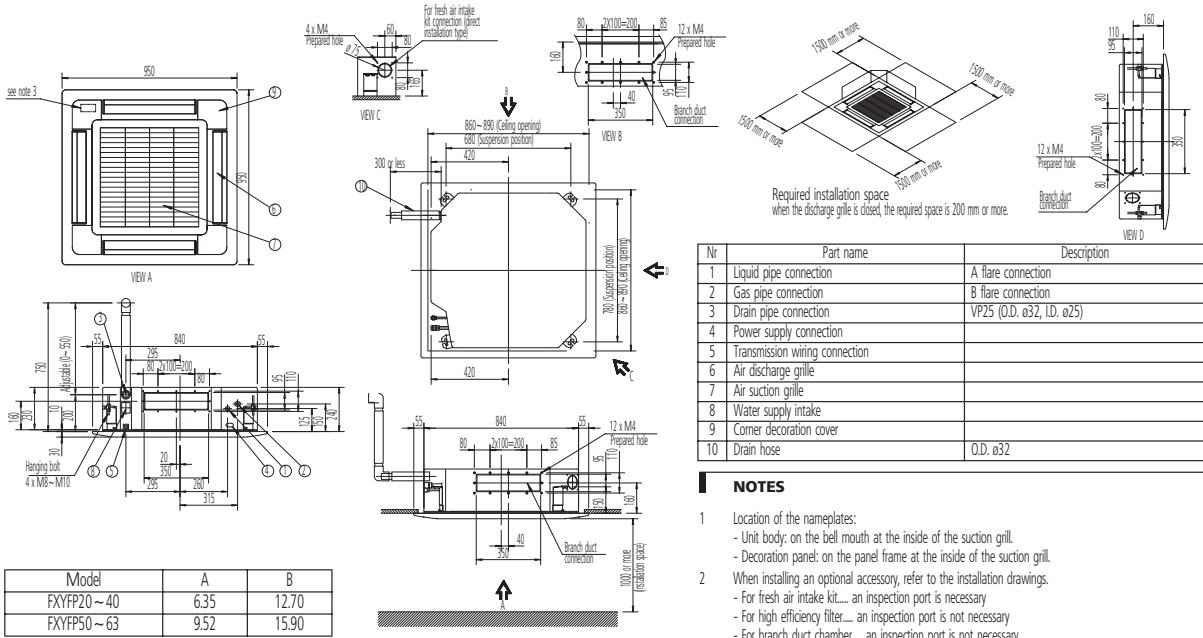
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
125	16.0	-13.7	-15.0	9.1	9.0	8.9	8.8	8.7	8.6
		-11.8	-13.0	9.6	9.5	9.4	9.3	9.2	9.1
		-9.8	-11.0	10.0	9.9	9.8	9.7	9.7	9.5
		-9.5	-10.0	10.3	10.2	10.0	10.0	9.9	9.7
		-8.5	-9.1	10.5	10.4	10.2	10.2	10.1	10.0
		-7.0	-7.6	10.9	10.7	10.6	10.5	10.4	10.3
		-5.0	-5.6	11.4	11.2	11.0	11.0	10.9	10.7
		-3.0	-3.7	11.8	11.7	11.5	11.4	11.4	11.2
		0.0	-0.7	12.5	12.4	12.2	12.1	12.0	11.6
		3.0	2.2	13.2	13.0	12.8	12.7	12.6	11.6
		5.0	4.1	13.7	13.5	13.3	13.2	12.6	11.6
		7.0	6.0	14.1	13.9	13.7	13.2	12.6	11.6
		9.0	7.9	14.6	14.4	13.7	13.2	12.6	11.6
		11.0	9.8	15.0	14.8	13.7	13.2	12.6	11.6
		13.0	11.8	15.5	14.8	13.7	13.2	12.6	11.6
15.0	13.7	15.8	14.8	13.7	13.2	12.6	11.6		

3TW21172-2

6 Dimensions

6-1 Dimensional drawings

FXYP20,25,32,40,50,63KB7V19

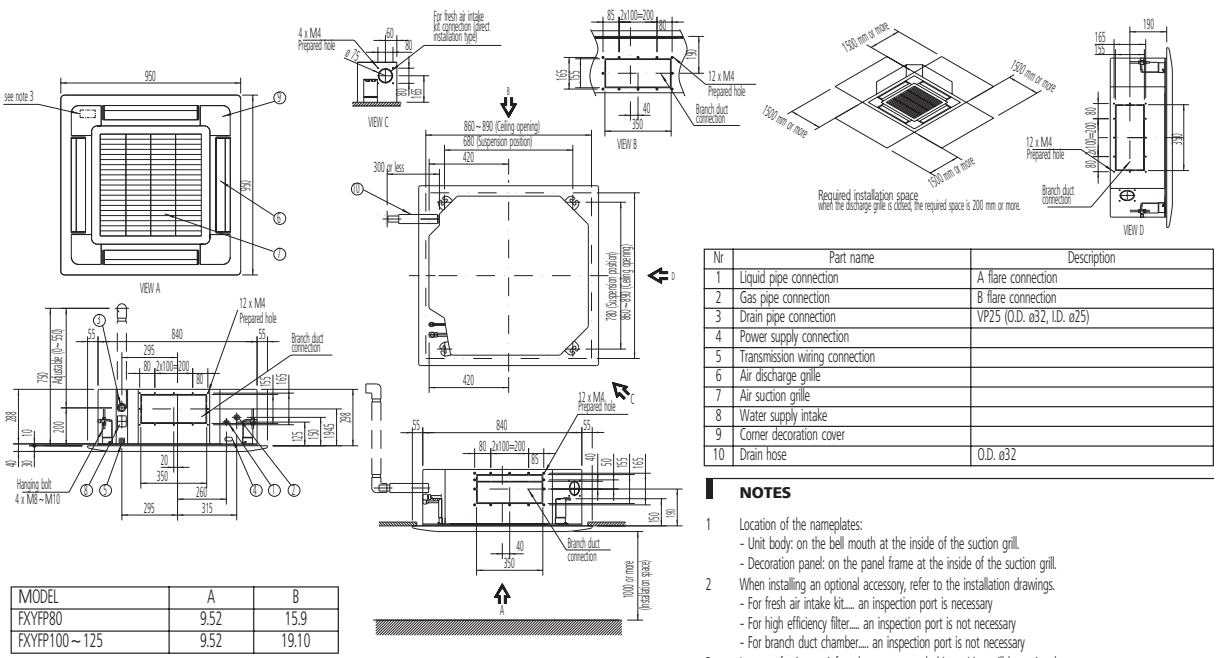


Nr	Part name	Description
1	Liquid pipe connection	A flare connection
2	Gas pipe connection	B flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Power supply connection	
5	Transmission wiring connection	
6	Air discharge grille	
7	Air suction grille	
8	Water supply intake	
9	Corner decoration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

3TW22834-1A

FXYP80,100,125KB7V19



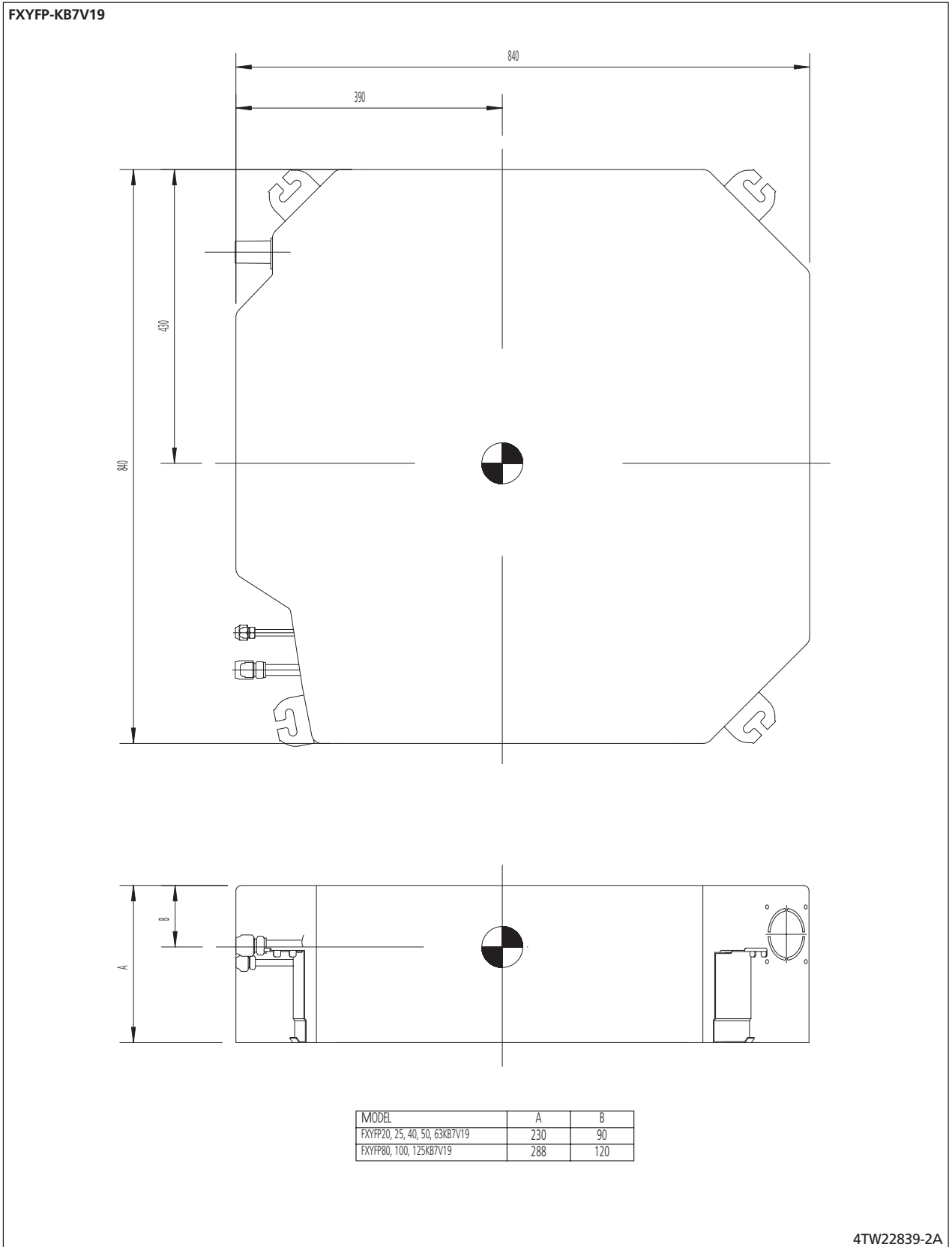
Nr	Part name	Description
1	Liquid pipe connection	A flare connection
2	Gas pipe connection	B flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Power supply connection	
5	Transmission wiring connection	
6	Air discharge grille	
7	Air suction grille	
8	Water supply intake	
9	Corner decoration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

3TW22874-1A

6 Dimensions

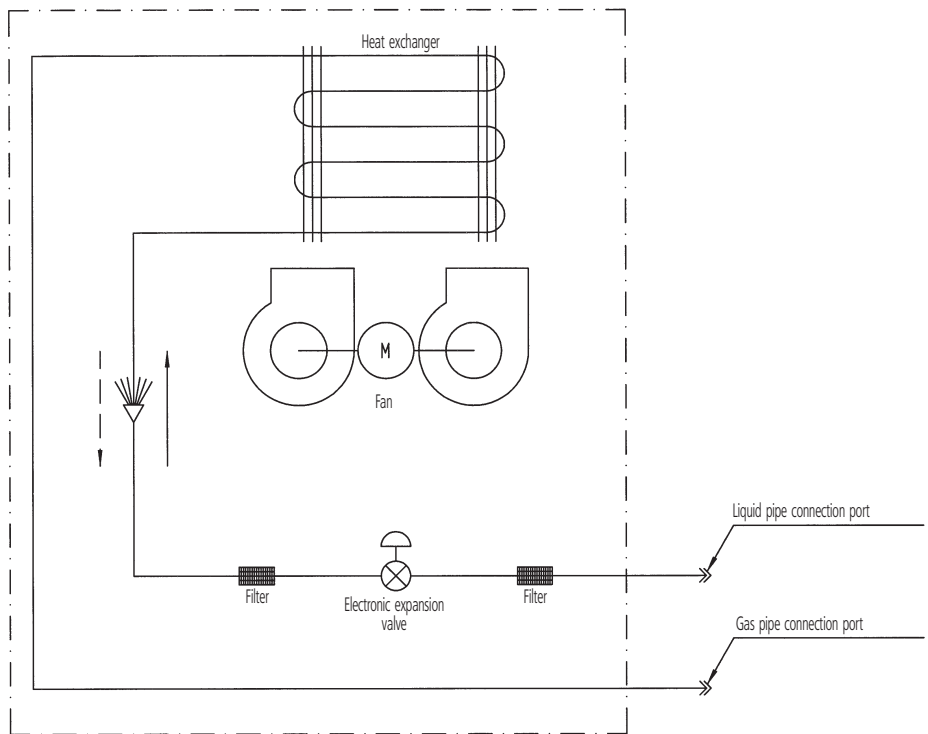
6-2 Centre of gravity



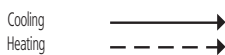
7 Piping Diagram

7

FXYFP-KB7V19



Refrigerant flow



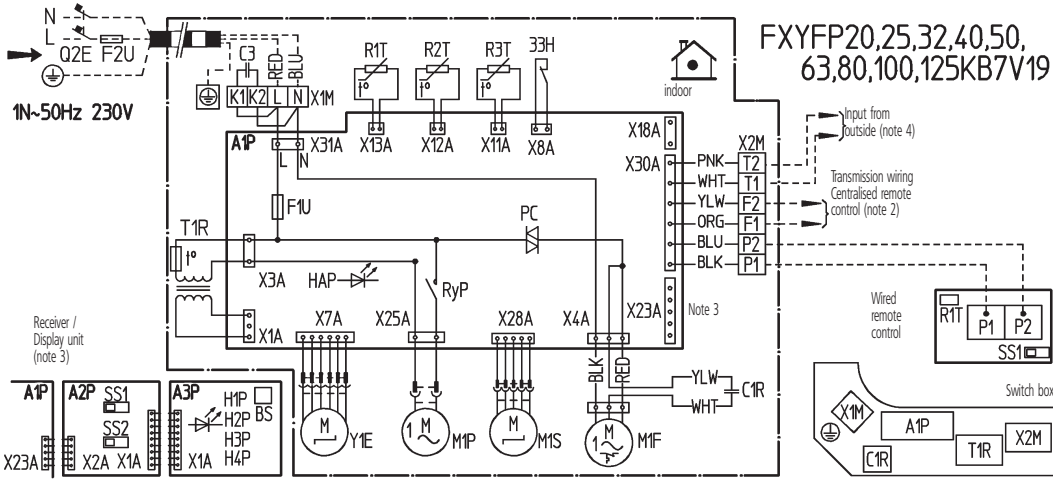
MODEL	Gas	Liquid
FXYFP20, 25, 32, 40KB7V19	ø12.7	ø6.4
FXYFP50, 63, 80KB7V19	ø15.9	ø9.5
FXYFP100, 125KB7V19	ø19.1	ø9.5

- ⏪⏩ Check valve
- ↔ Flare connection
- ⊥ Screw connection
- ⊥ Flange connection
- ✕ Pinched pipe
- ⤵ Spinned pipe

3TW21175-1C

8 Wiring Diagrams

FXYFP-KB7V19



H	Float switch	33R2T-R3T	Thermistor (coil)	A2P, A3P	Printed circuit board
A1P	Printed circuit board	RyP	Magnetic relay (M1P)	BS	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

L : Live
 N : Neutral
 : Connector
 : Wire clamp
 : Protective earth (screw)

COLORS : BLK : Black
 BRN : Brown
 BLU : Blue
 WHT : White
 PNK : Pink
 RED : Red
 ORG : Orange
 YLW : Yellow
 GRY : Grey

NOTES

- Use copper conductors only.
- When using the centralised remote control, see manual for connection to the unit.
- X23A is connected when infrared remote control kit is used.
- 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.

3TW23856-1

9 Sound level

9-1 Measuring conditions

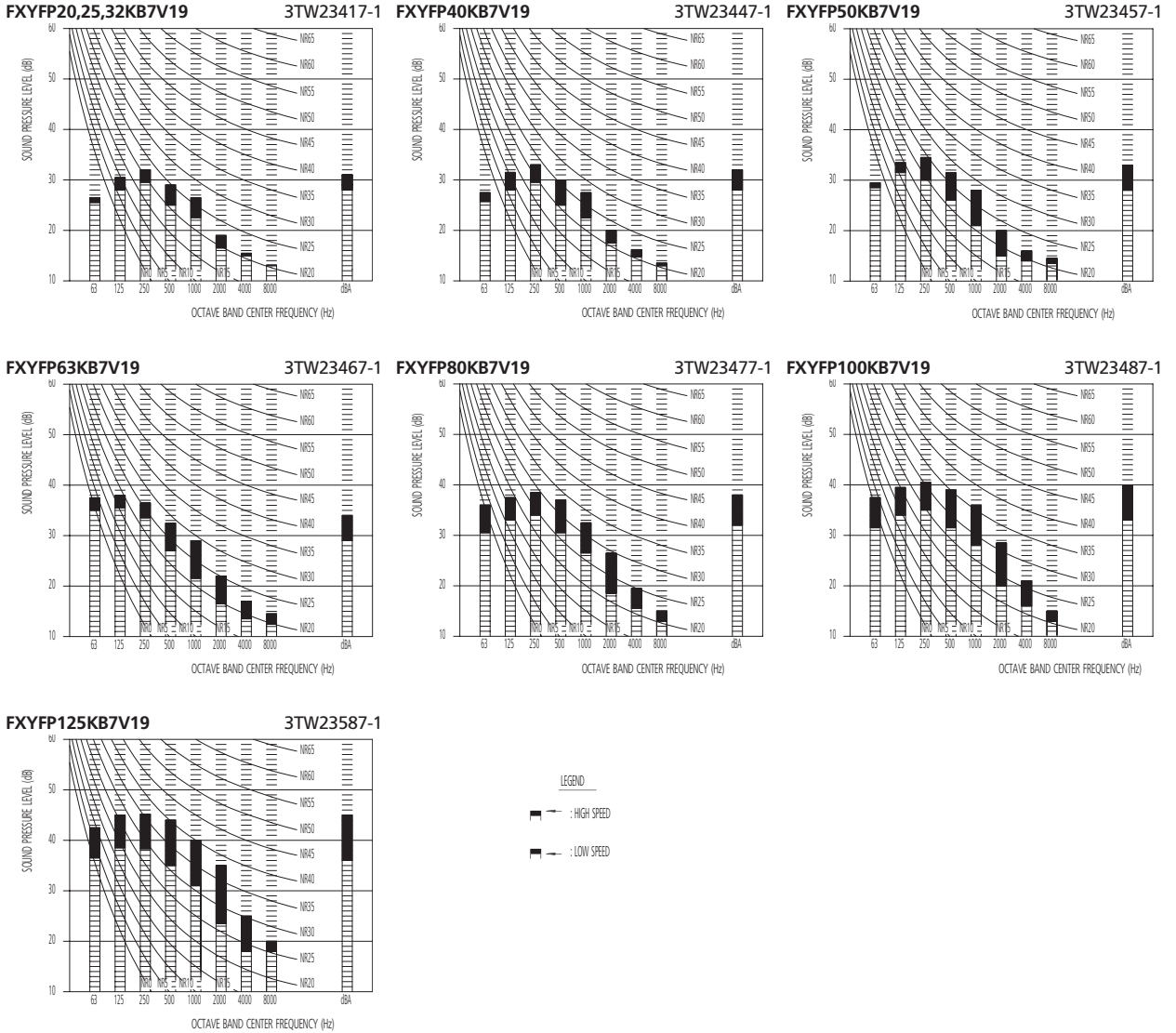
Model	Sound pressure level - 230V		Measuring location	Sound power level
	H	L		
FXYFP20KB7V19	31	28		48
FXYFP25KB7V19	31	28		48
FXYFP32KB7V19	31	28		48
FXYFP40KB7V19	32	28		49
FXYFP50KB7V19	33	28		50
FXYFP63KB7V19	34	29		51
FXYFP80KB7V19	38	32		54
FXYFP100KB7V19	40	33		56
FXYFP125KB7V19	45	36		61

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.

9 Sound level

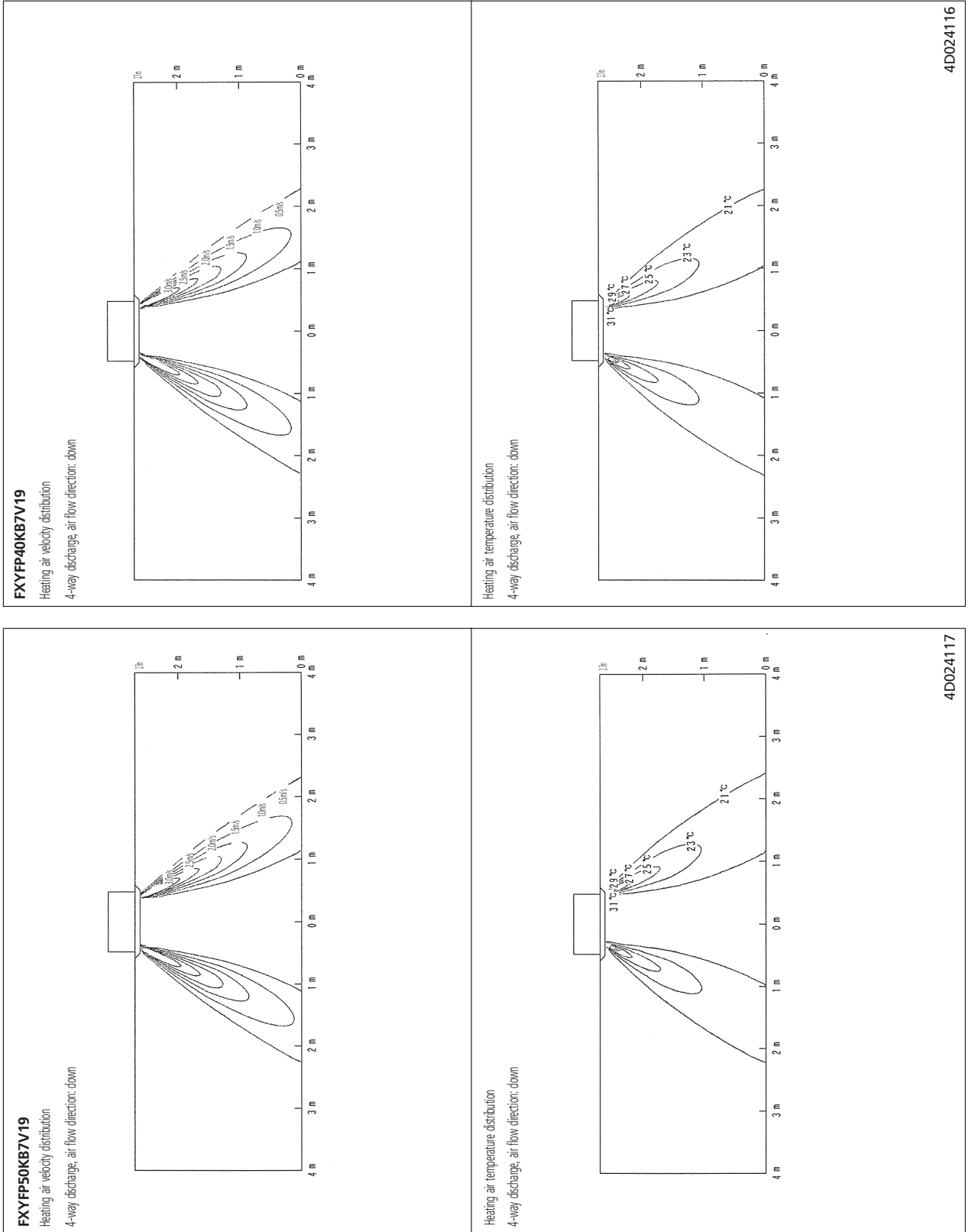
9-2 Sound pressure spectrum



10 Air flow pattern & branch duct connections

10-1 Air flow pattern

10

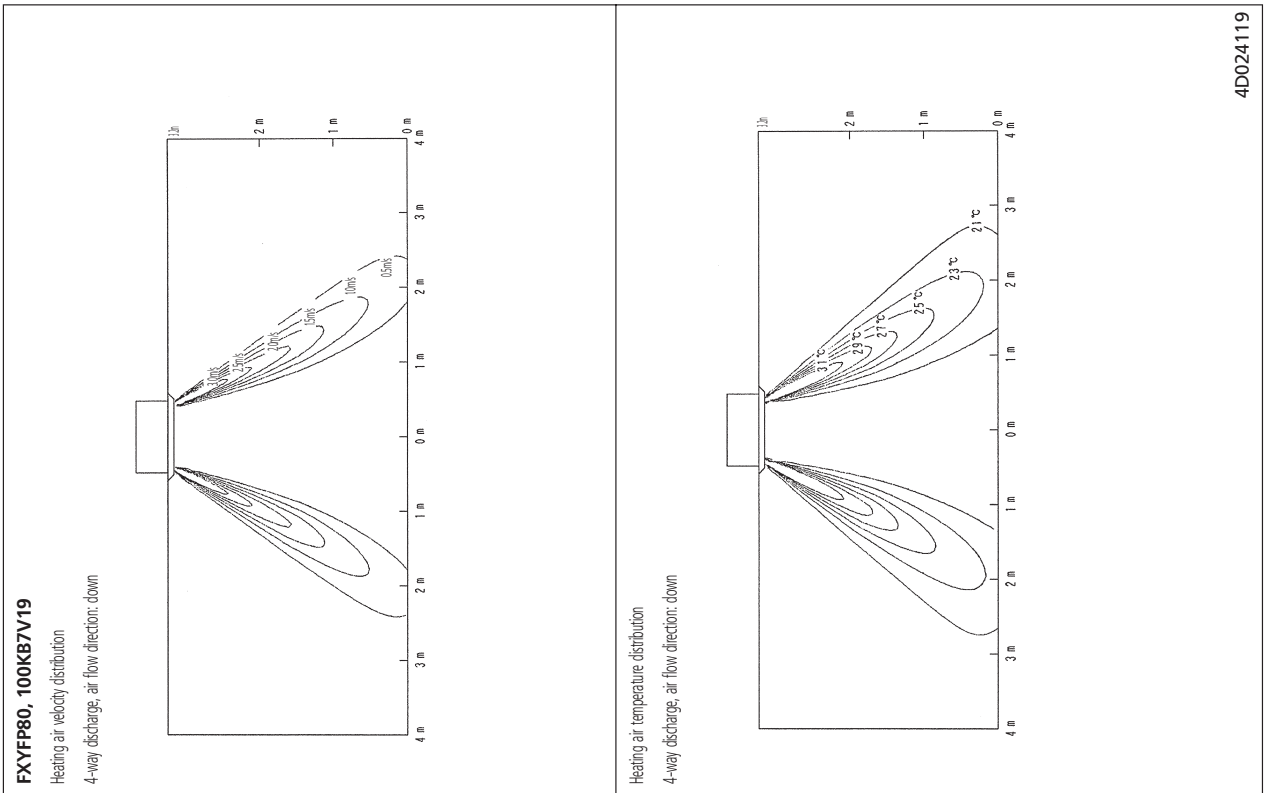
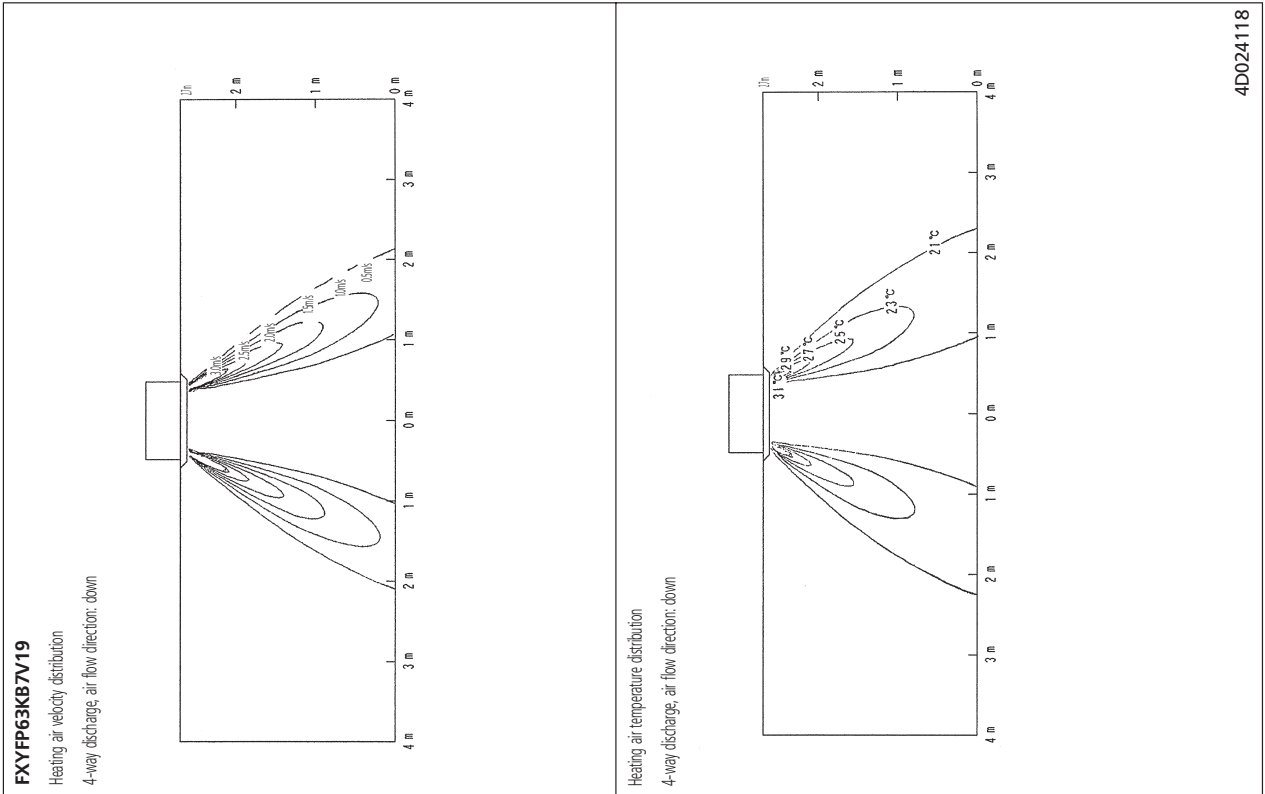


4D024116

4D024117

10 Air flow pattern & branch duct connections

10-1 Air flow pattern



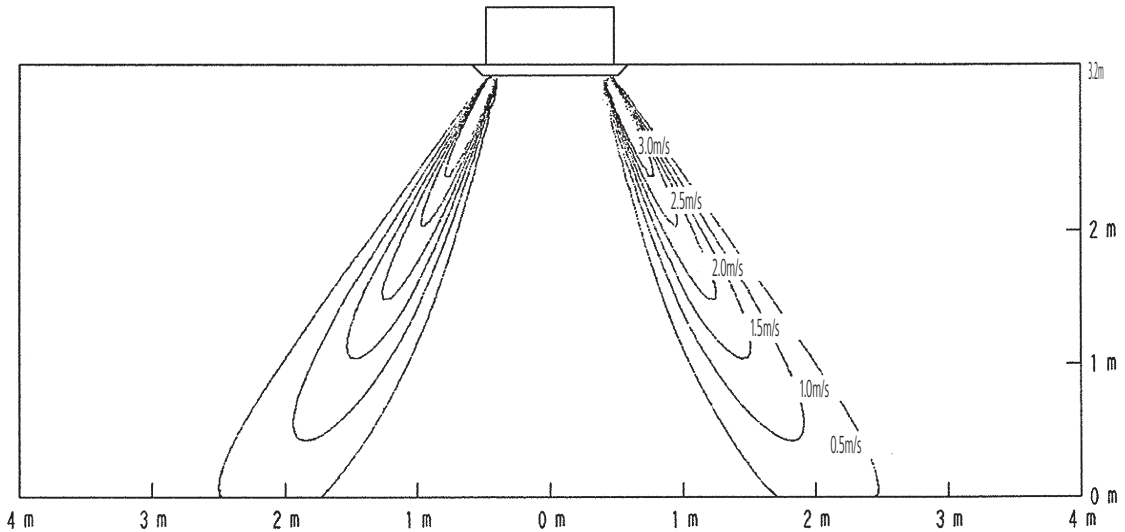
10 Air flow pattern & branch duct connections

10-1 Air flow pattern

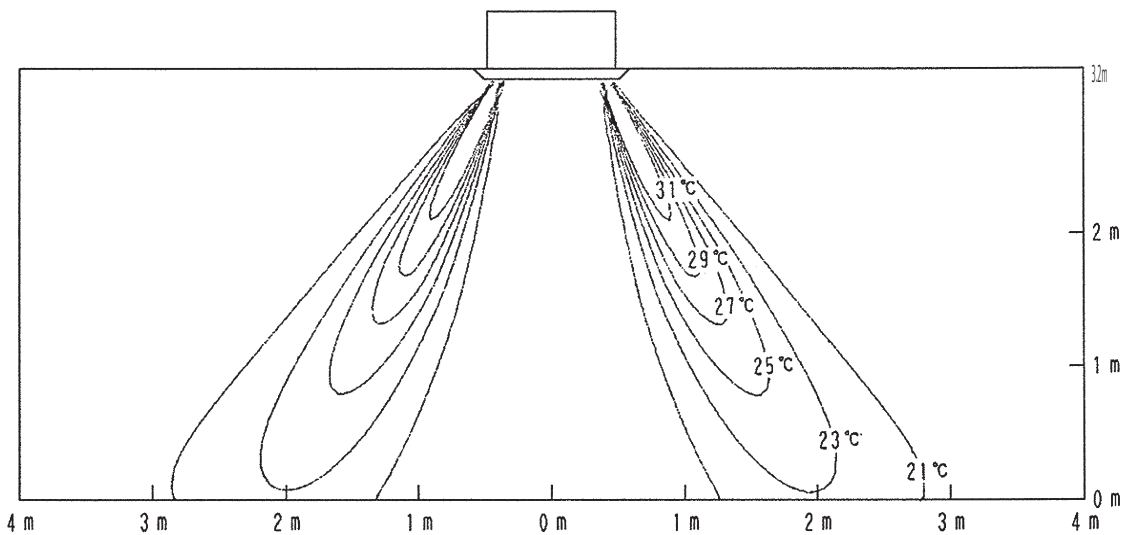
10

FXYFP125KB7V19

Heating air velocity distribution
4-way discharge, air flow direction: down



Heating air temperature distribution
4-way discharge, air flow direction: down



4D024120

10 Air flow pattern & branch duct connections

10-2 Branch duct connections

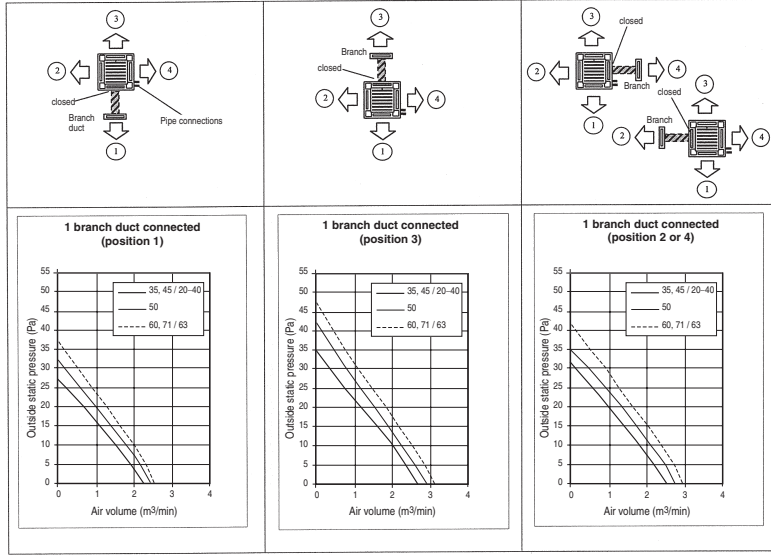
FXYFP20,25,32,40,50,63KB7V19

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

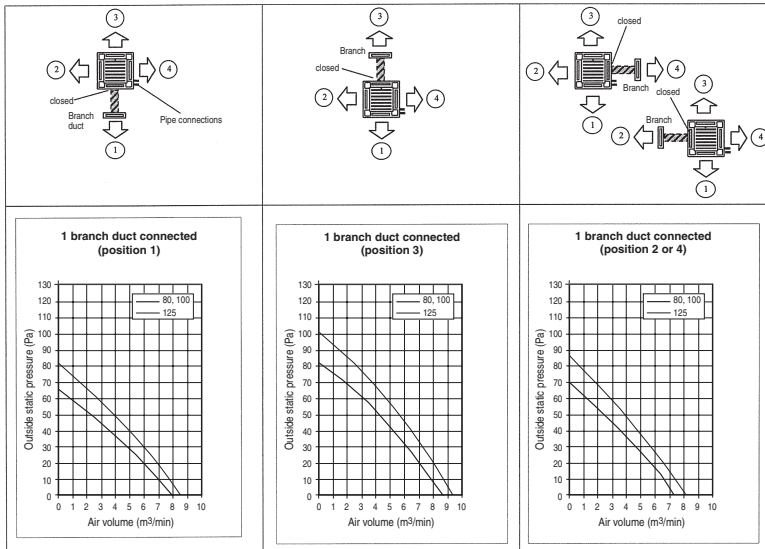
FXYFP80,100,125KB7V19

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

10 Air flow pattern & branch duct connections

10-2 Branch duct connections

10

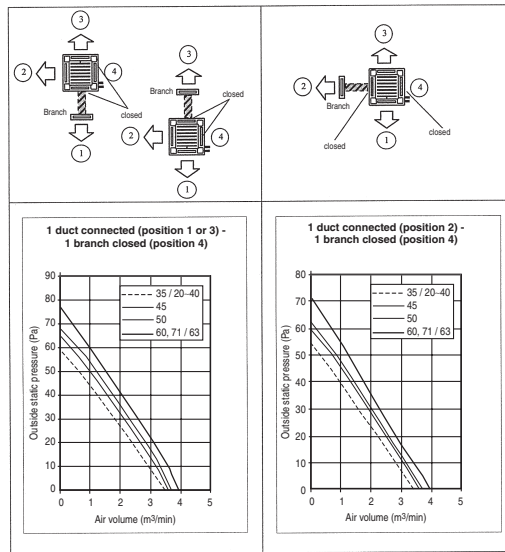
FXYFP20,25,32,40,50,63KB7V19

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

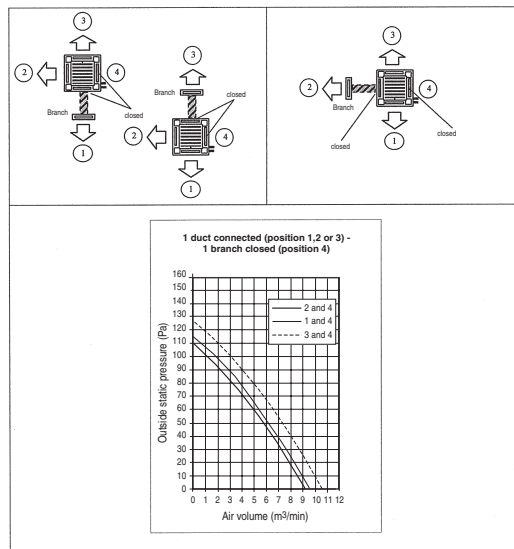
FXYFP80,100,125KB7V19

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



3TW22879-8

10 Air flow pattern & branch duct connections

10-2 Branch duct connections

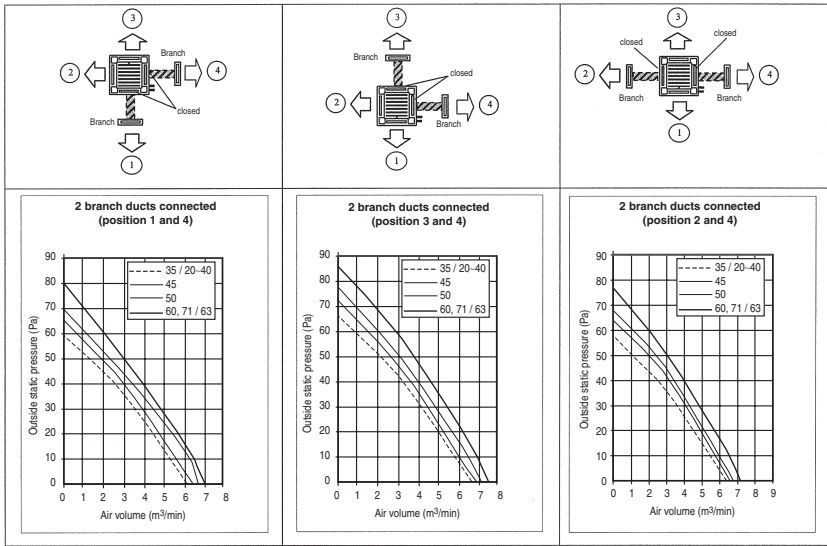
FXYFP20,25,32,40,50,63KB7V19

2 Branch ducts - 2-way blow

Discharge grill: K-DG5C4B (connection: diameter 150mm)

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

Air volume: 4.0 ~ 5.0m³/min



3TW22839-9

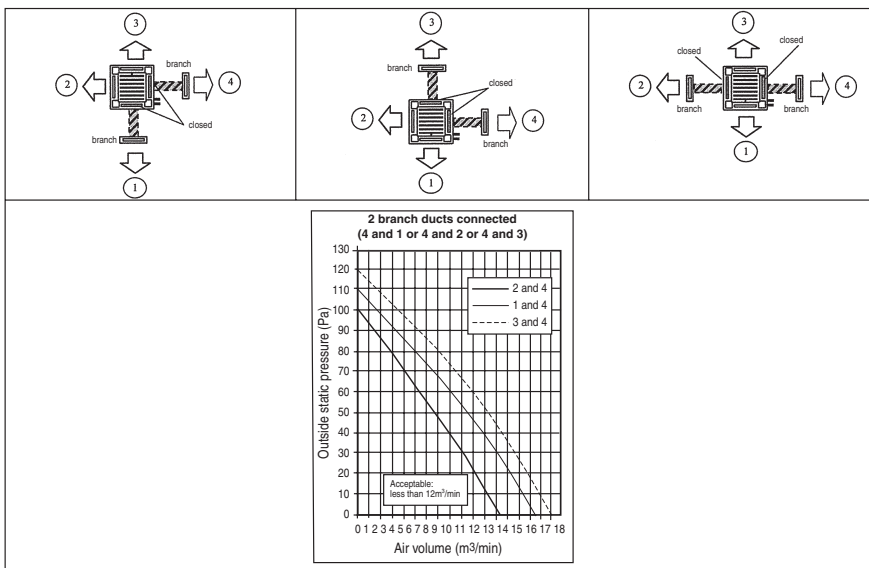
FXYFP80,100,125KB7V19

2 Branch ducts - 2-way blow

Discharge grill: K-DG5C4B (connection: diameter 200mm)

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

Air volume: 9.0 ~ 11.0m³/min



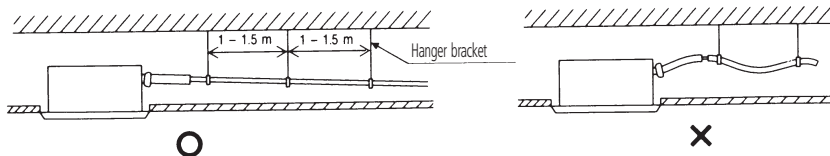
3TW22839-9

11 Drain piping

11-1 Rig drain piping

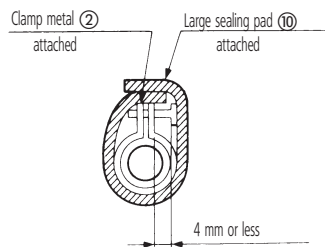
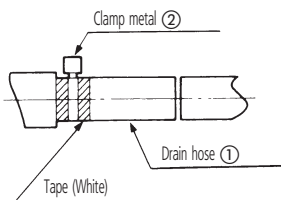
- The diameter of the drain pipe should be greater than or equal to the diameter of the connecting pipe (vinyl tube; pipe size: 25 mm; outer dimension: 32 mm).
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent the formation of air pockets.
- If the drain hose 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



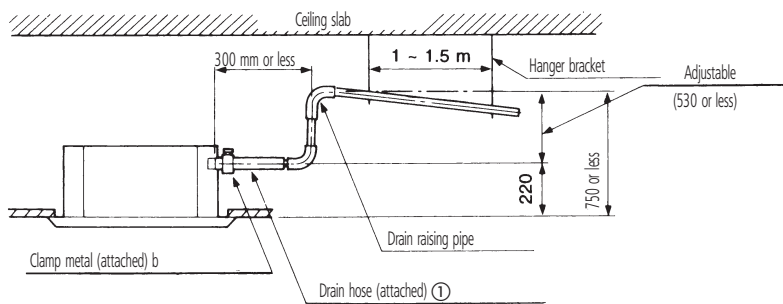
11

- 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.



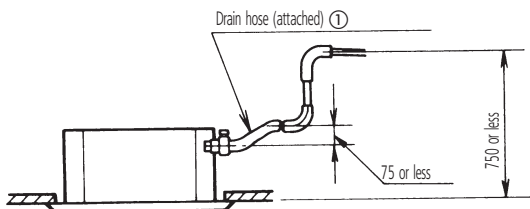
precautions for drain raising piping

- 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

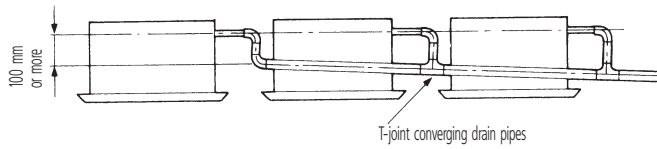
- 1 The incline of attached drain hose ① should be 75 mm or less so that the drain socket does not have to stand additional force.



11 Drain piping

11-1 Rig drain piping

- 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.

11-2 After piping work is finished, check if drainage flows smoothly

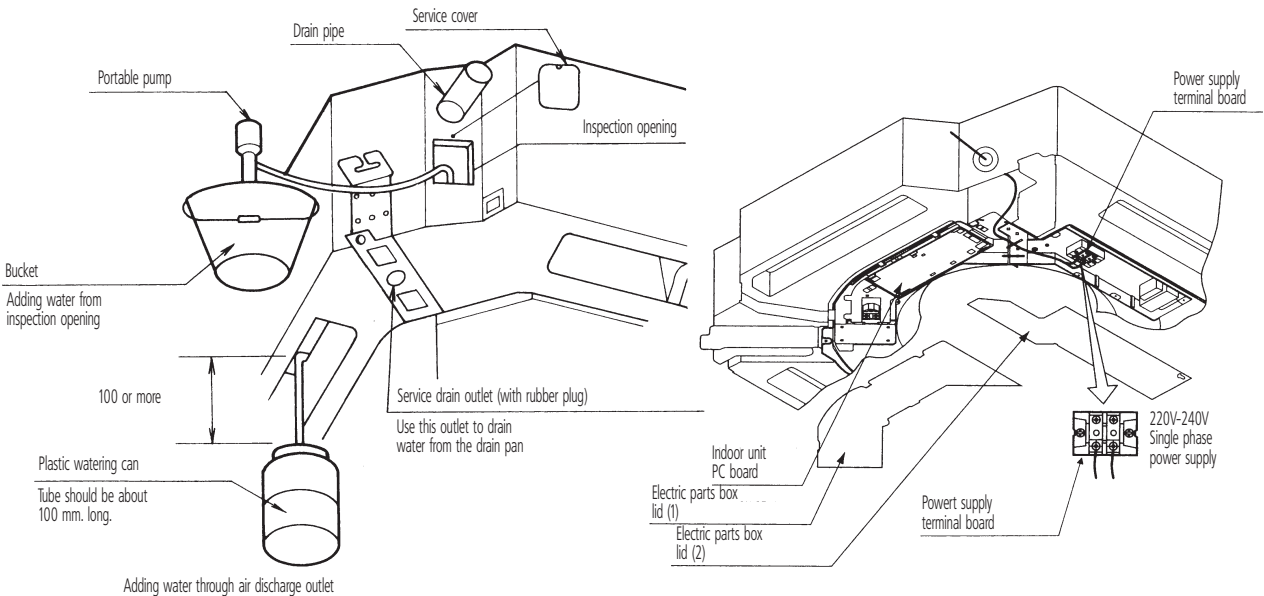
- Open the water inlet lid, add approximately 600 cc of water gradually and check drainage flow.

11-3 When electric wiring work is finished

- Check drainage flow during COOL running.

11-4 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 FAw 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

2

VRV™
Systems



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



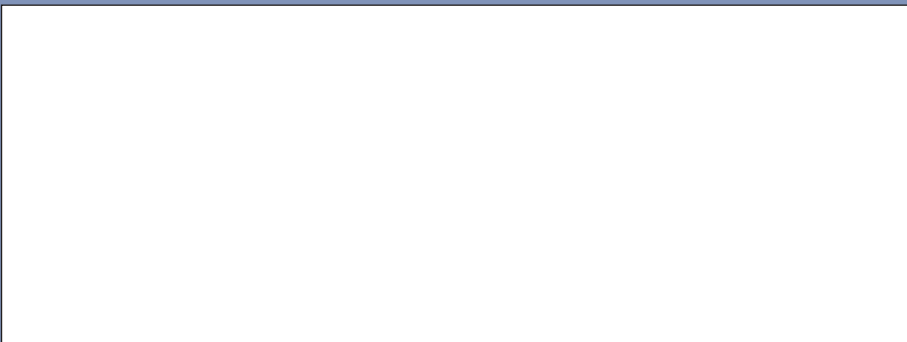
Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

VRV products are not within the scope of the Eurovent certification programme.

Specifications are subject to change without prior notice



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