



DATA BOOK

VRF INVERTER MULTI-SYSTEM AIR-CONDITIONERS

(OUTDOOR UNIT)

KXZ series (Heat pump type)

FDC112KXZEN1, 140KXZEN1, 155KXZEN1
FDC112KXZES1, 140KXZES1, 155KXZES1

• Note:

(1) Regarding the indoor unit series, refer to the No.'15•KX-T-247, '17•KX-T-254, and '17•KX-T-264.

PREFACE

Combination table for KX4 series and KX6 series

() Date of launching in the market

Category	Outdoor unit	Indoor unit											
		Connectable remote control	Same series	Same series	Same series	Mixed series	Mixed series	Mixed series	Same or Mixed series	Mixed series	Same series		
		3-wire type	RC-E1	KXE4	KXE4(A)	KXE4A	KXE4A	KXE4A	KXE4A	KXE4R KXE4BR KXE5R	KXE4R KXE4BR KXE5R	KXE4R KXE4BR KXE5R	KXE4R KXE4BR KXE5R
Heat pump (2-pipe) systems	FDCA-HKXE4 5HP (2004.4-)		YES [C]	YES [C]	YES [C]	NO	NO	NO	NO	NO	NO	NO	NO
	FDCA-HKXE4 8-48HP (2004.4-)		NO	YES [C]	YES [C]	NO	NO	NO	NO	NO	NO	NO	NO
	FDCA-HKXE4A 5HP (2006.2-)		NO	YES [C]	YES [C]	YES [C] ^{*1}	NO	NO	NO	NO	YES [C] ^{*1}	NO	NO
	FDCA-HKXE4R 5.6HP (2006.5-)		NO	YES [C]	YES [C]	YES [C] ^{*1}	NO	NO	NO	NO	YES [C] ^{*1}	NO	NO
	FDCA-HKXE4A 8-48HP (2006.2-)		NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDCA-HKXE4R 8-48HP (2006.5-)		NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDCA-HKXE4BR 8-48HP (2007.4-)		NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDCA-HKXE4D 8-48HP (2008.7-)		NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDC-KXE6 4,5,6HP (2008.3-)		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES [A] ^{*6}
	FDC-KXE6 8-12HP (2009.2)		NO	NO	NO	NO	NO	NO	NO	NO	YES [B]	YES [B]	YES [A]
FDC-KXE6 14-48HP (2009.1)		NO	NO	NO	NO	NO	NO	NO	NO	YES [B]	YES [B]	YES [A]	
FDC-KXZE1 4,5,6HP (2018.2-)		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES [A] ^{*6}	
FDC-KXZE1 10-60HP (2017.4-)		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES [A]	
Heat recovery (3-pipe) systems [Note(3)]	FDCA-HKXRE4 8-48HP (2004.11-)		NO	NO	YES [C]	NO	NO	NO	NO	NO	NO	NO	NO
	FDCA-HKXRE4A 8-48HP (2006.2-)		NO	NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDCA-HKXRE4R 8-48HP (2006.6-)		NO	NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDCA-HKXRE4BR 8-48HP (2007.4-)		NO	NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDCA-HKXRE4D 8-48HP (2008.7-)		NO	NO	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]	YES [C]
	FDC-KXRE6 8-48HP (2009.5-)		NO	NO	NO	NO	NO	NO	NO	NO	YES [B]	YES [B]	YES [A]
FDC-KXZRE1 8-60HP (2017.4-)		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES [A]	

*1 except FDKA71KXE5R

Notes (1) YES: Connectable (See following table in detail), NO: Not connectable

	Outdoor unit	Connected Indoor unit		Dip switch setting of outdoor unit KXE6	Superlink Protocol	Limitation
		Same series	Mixed series			
YES [A]*2	KXE6&KXZ	KXE6&KXZ		II (New)	New (for KX6)	New (for KX6)
YES [B]		KXE4 series	KXE6 & KXE4 series	I (Previous)	Previous (for KX4)	Previous (for KX4)
YES [C]		KXE4 series	KXE4 series			Previous (for KX4)

*2 If Outdoor unit system (YES [A]) is connected to other outdoor unit systems (YES [B] and/or YES [C]) in one Superlink network, the dip switch of outdoor unit KXE6 of (YES [A]) should be set from II (New) to I (Previous). In this case the Superlink protocol and limitation of outdoor unit system (YES [A]) are switched to Previous (for KX4).

(2) Combination with new central control, PC windows central control and BMS interface unit

	Connectable I/U	Central control, PC windows central control and BMS interface unit					
		SC-SL1N-E	SC-SL2N-E	SC-SL4N-AE/BE	SC-WGWN-A/B	SC-LGWN-A	SC-BGWN-A/B
YES [A]	Connectable I/U	16	64	128 (128x1)	128 (64x2)*3	I 96 (48x2)	128 (64x2)*3
	Superlink protocol	New	New	New	New	New	New
	Connectable network	1	1	1	2	2	2
YES[B] & YES[C]	Connectable I/U	16	48	144 (48x3)	96 *4 (48x2)	96 *4 (48x2)	96 *4 (48x2)
	Superlink*5 protocol	Previous	Previous	Previous	Previous	Previous	Previous
	Connectable network	1	1	3	2	2	2

*3 Maximum number of AC cell is limited up to 96.

In case the number of connected indoor units are more than 96, some AC cells should hold 2 or more indoor units.

*4 In case of other central control like SC-SLxN-E is connected in the same network, the connectable indoor unit is limited up to 64 (32x2).

*5 In case of previous Superlink protocol, the Superlink mode of new central control should be set "Previous".

*6 In case of YES[A], previous central control is available to use. But the limitation of connectable indoor unit and so on is complied with the rule of previous Superlink.

(3) The compatibility of PFD (refrigerant flow branching control) is mentioned in following table.

Connectable PFD control	Indoor unit	
	KXE4 & KXE5 series	KXE6 & KXZE1 series
Outdoor unit	KXRE4 series	PFD-E PFD-ER PFD-ER PFD-ER
	KXRE6 series	PFD-E PFD-ER PFD-ER PFD-ER
	KXZRE1 series	PFD-E PFD-ER PFD-ER PFD-ER

Note:
All indoor unit downstream PFD box must be same series, KXZR, KX6 series or KX4/5 series

(4) Compatibility of the PFD control extension cables is as per the following table.

	PFD-control series	
	PFD *** 3-E	PFD *** 4-E
PFD-15WR-E	Yes	No
PFD4-15WR-E	No	Yes

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1. GENERAL INFORMATION

1.1 Specific features

(1) High Efficiency

(a) Industry leading energy efficiency

- COP across the KXZ range ensures reduced running costs and reduced environmental impact.
- Coefficient of Performance=Cooling Capacity[kW]/Power Consumption[kW]

(b) New Inverter Control (Vector control)

New Inverter Control has applied new advanced technology of Vector control and has realized high efficiency.

- Smooth operation from low speed to high speed
- Smooth Sine Voltage Wave form are attained
- Energy efficiency is further improved in low speed range

(c) Optimum Refrigerant System Control

We have improved refrigeration circuit from our long experience and have realized following Optimum Refrigerant System Control.

- Optimum heat exchanger refrigerant distribution
- Advanced refrigerant liquid return protection control system
- High speed system control by new Superlink system

(d) DC Fan Motor

Employment of DC fan motor has enabled to realize an excellent efficiency of approximate 60% higher than previous models.

(2) Compact Design

(a) Compact high efficiency Heat Exchanger

- Optimizing relationship of the air flow velocity & fin pattern
- Improvement of air distribution Maximizing efficiency of heat exchanger

(b) Compact Integrated PCB

- Control Box size reduction
- PCB size reduced by 50%
 - Control PCB: Single-sided board ➡ Double-sided board
 - Inverter PCB: Power transistor size reduction
- New Superlink system control
- New Design method applied

(3) Design Flexibility

(a) Increased indoor unit connection capacity

- Micro KXZ series can connect indoor unit capacity up to 150%.
- Capacity from 80% to 150% is possible

Model	Item	Number of connectable	Connectable capacity
FDC112KXZEN1		1 to 8 units	90 - 168
FDC112KXZES1			
FDC140KXZEN1		1 to 10 units*	112 - 210
FDC140KXZES1			
FDC155KXZEN1			
FDC155KXZES1			

*When connecting 9 units or more, set the connectable capacity as follows :

140 : 110% or less

155 : 100% or less

(4) Serviceability

(a) Monitoring function

Micro KXZ series includes feature to assist with servicing and trouble shooting. Various data can be monitored through 3-degit display on the outdoor unit PCB.

(b) New remote control for all indoor units

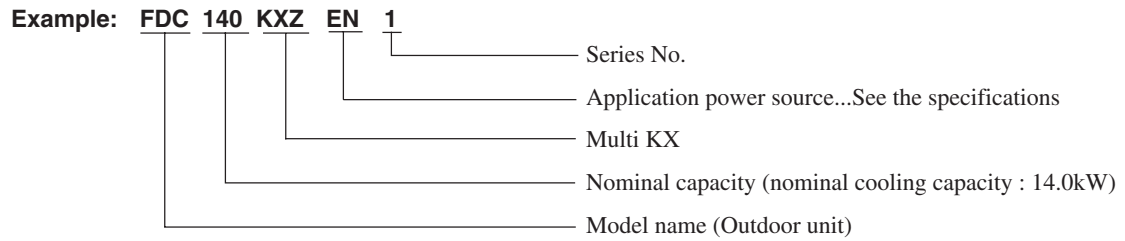
Applying nonpolar 2-core in new remote control line, it is very convenient for installation including renewal case.

(c) Max length of electrical wiring

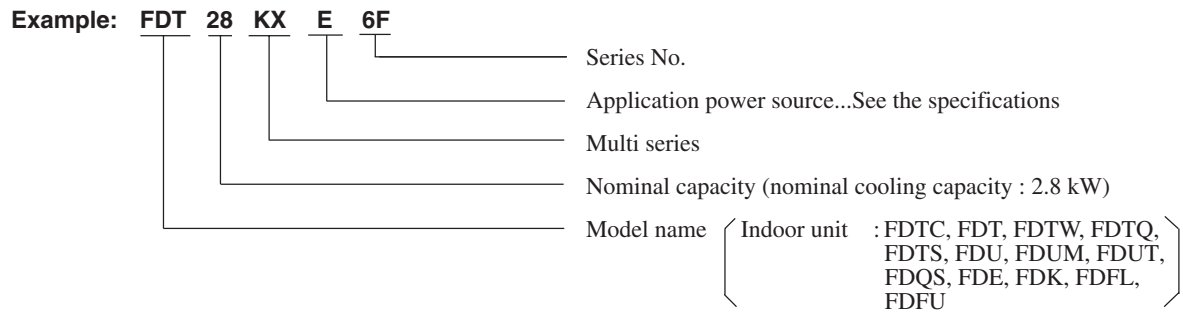
The wiring must be a 2-core shielded cable size 0.75mm² to 1.25mm².
The max length of 2-core can be 1500m.

1.2 How to read the model name

(1) Outdoor unit



(2) Indoor unit



Note

For outdoor unit, EN60552-2 and EN60555-3 are not applicable as consent by the utility company or notification to the utility company is given before usage.

1.3 Table of models

Model	Capacity											
	15	22	28	36	45	56	71	90	112	140	160	
Ceiling cassette-4 way type (FDT)			○	○	○	○	○	○	○	○	○	○
Ceiling cassette-4 way compact type (FDTC)	○	○	○	○	○	○						
Ceiling cassette-2 way type (FDTW)			○		○	○	○	○	○	○		
Ceiling cassette-1 way type (FDTS)					○		○					
Ceiling cassette-1 way compact type (FDTQ)		○	○	○								
Duct connected-High static pressure type (FDU)							○	○	○	○		
Duct connected-Low/Middle static pressure type (FDUM)		○	○	○	○	○	○	○	○	○		
Duct connected (thin)-Low static pressure type (FDUT)	○	○	○	○	○	○	○					
Duct connected (Ultra thin)-Low static pressure type (FDQS)		○	○	○	○	○						
Wall mounted type (FDK)	○	○	○	○	○	○	○					
Ceiling suspended type (FDE)				○	○	○	○		○	○		
Floor standing (with casing) type (FDL)			○		○		○					
Floor standing (without casing) type (DFU)			○		○	○	○					
Outdoor units to be combined FDC	FDC112KXZEN1, 140KXZEN1, 155KXZEN1 FDC112KXZES1, 140KXZES1, 155KXZES1											

1.4 Outdoor units combination table

(a) Branch pipe set (Option)

Total capacity downstream	Branching pipe set
Less than 180	DIS-22-1G
180 or more but less than 371	DIS-180-1G

(b) Header pipe set (Option)

Total capacity downstream	Header set model type	Number of branches
Less than 180	HEAD4-22-1G	4 branches at the most
180 or more but less than 371	HEAD6-180-1G	6 branches at the most

2. OUTDOOR UNIT

2.1 Specifications

Models FDC112KXZEN1, 140KXZEN1, 155KXZEN1, 112KXZES1, 140KXZES1, 155KXZES1

(50/60 Hz)

Models	FDC112KXZEN1	FDC140KXZEN1	FDC155KXZEN1	FDC112KXZES1	FDC140KXZES1	FDC155KXZES1
Nominal cooling capacity*1	11.2	14.0	15.5	11.2	14.0	15.5
Nominal heating capacity*2	11.2	14.0	15.5	11.2	14.0	15.5
Maximum heating capacity	12.5	16.0	16.3	12.5	16.0	16.3
Power source	1 Phase 220-240V 50Hz , 220V 60Hz					
Power consumption	2.52	3.96	5.20	2.52	3.96	5.20
Cool	2.52	3.96	5.20	2.52	3.96	5.20
Heat	2.57	3.66	4.28	2.57	3.66	4.28
Running current	12.2/11.2	19.6/17.9	25.1/23.6	4.1/3.7	6.5/6.0	8.6/7.9
Cool	12.6/11.5	18.3/16.8	21.4/19.6	4.2/3.8	6.1/5.6	7.1/6.5
Heat	94/94	92/92	92/92	94/94	92/92	92/92
Power factor	93/93	91/91	91/91	93/93	91/91	91/91
EER	4.44	3.54	2.98	4.44	3.54	2.98
COP	4.36	3.83	3.62	4.36	3.83	3.62
Sound Pressure Level (Cool/Heat)	52/55	53/57	54/57	52/55	53/57	54/57
Sound Power Level (Cool/Heat)	69/71	71/72	71/74	69/71	71/72	71/74
Starting current	5					
Maximum current	28	28	28	13.5	13.5	13.5
Exterior dimensions	845x970x370					
Height x Width x Depth						
Exterior appearance (Munsell color)	Stucco White (4.2Y7.5/1.1) near equivalent					
Net weight	85	87				
Refrigerant equipment compressor type & Q'ty	RMT15126MDE21 X 1					
Motor	1.9	2.9	3.2	1.9	2.9	3.2
Starting method	Direct line start					
Capacity control	26-100	21-100	21-100	26-100	21-100	21-100
Crankcase heater	20					
Refrigerant equipment	Straight fin & inner grooved tubing					
Heat exchanger	Electronic expansion valve					
Refrigerant control	R410A					
Refrigerant type	5.0					
Refrigerant amount	1.0 (M-MA68)					
Refrigerant oil	Microcomputer controlled De-icer					
Defrost control	Propeller fan x 1					
Air handling equipment fan type & Q'ty	86					
Motor	Direct line start					
Starting method	75/75	75/82	75/82	75/75	75/82	75/82
Air flow (Standard)	Rubber mount (for compressor & fan motor)					
Shock & vibration absorber	abnormal low pressure protection / abnormal discharge temperature protection / over current protection					
Safety equipment	Liquid line: φ9.52 (3/8")					
Installation data	Gas line: φ15.88 (5/8")					
Refrigerant piping size	Flare (both Liquid & Gas lines)					
Connecting method	High 4.15 Low 2.21					
MAX. Pressure	Hole for drain (φ20 x 3pcs)					
Drain	Necessary (both Liquid & Gas line)					
Insulation for piping	IP24					
IP number						
Accessories						

(4) Refrigerant piping size applicable to European installations are shown parenthese
 (5) This air-conditioner is adapted RoHS directive.

item	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Operation	27 °C	19 °C	35 °C	24 °C	ISO151-11,H1
Cooling*1	20 °C	-	7 °C	6 °C	
Heating*2					

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber.
 During operation these value are somewhat higher due to ambient conditions.

Weights of packing parts

Unit :kg

		Gross Weight	Packing Parts weight (Total)	Paper	Foam Polystyrene	Plastic	Metal		Wood	Glass	Other
							Aluminium	Steel			
outdoor unit	FDC112KXZEN1	93.00	8.00	3.63	-	0.14	-	0.07	4.13	-	0.03
	FDC140KXZEN1	93.00	8.00	3.63	-	0.14	-	0.07	4.13	-	0.03
	FDC155KXZEN1	93.00	8.00	3.63	-	0.14	-	0.07	4.13	-	0.03
	FDC112KXZES1	95.00	8.00	3.63	-	0.14	-	0.07	4.13	-	0.03
	FDC140KXZES1	95.00	8.00	3.63	-	0.14	-	0.07	4.13	-	0.03
	FDC155KXZES1	95.00	8.00	3.63	-	0.14	-	0.07	4.13	-	0.03

2.2 Exterior dimensions

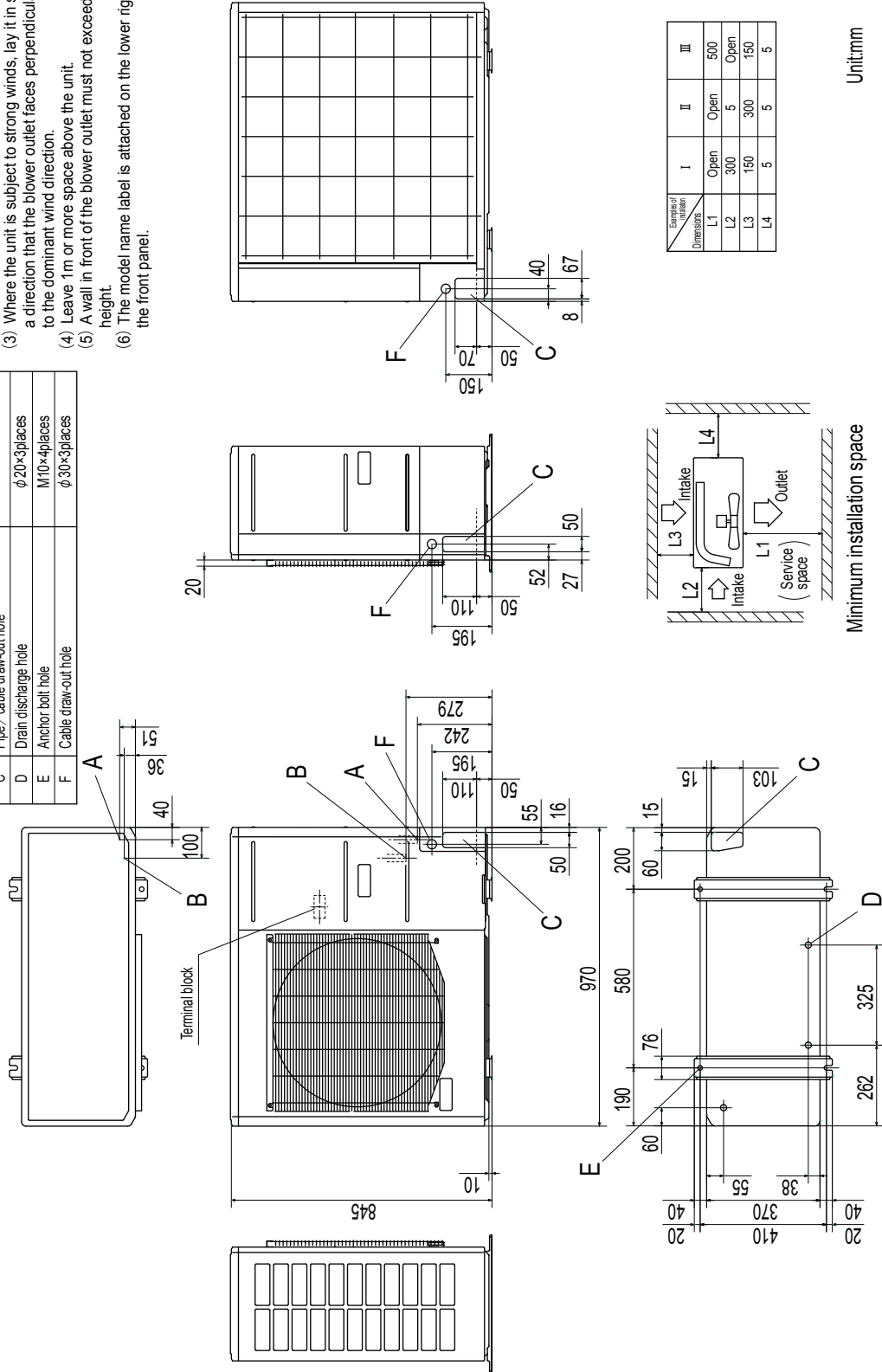
All models

Meaning of marks

Mark	Content
A	Service valve connection (gas side) φ15.88 (5/8") (Flare)
B	Service valve connection (liquid side) φ9.52 (3/8") (Flare)
C	Pipe / cable draw-out hole
D	Drain discharge hole φ20×3places
E	Anchor bolt hole M10×4places
F	Cable draw-out hole φ30×3places

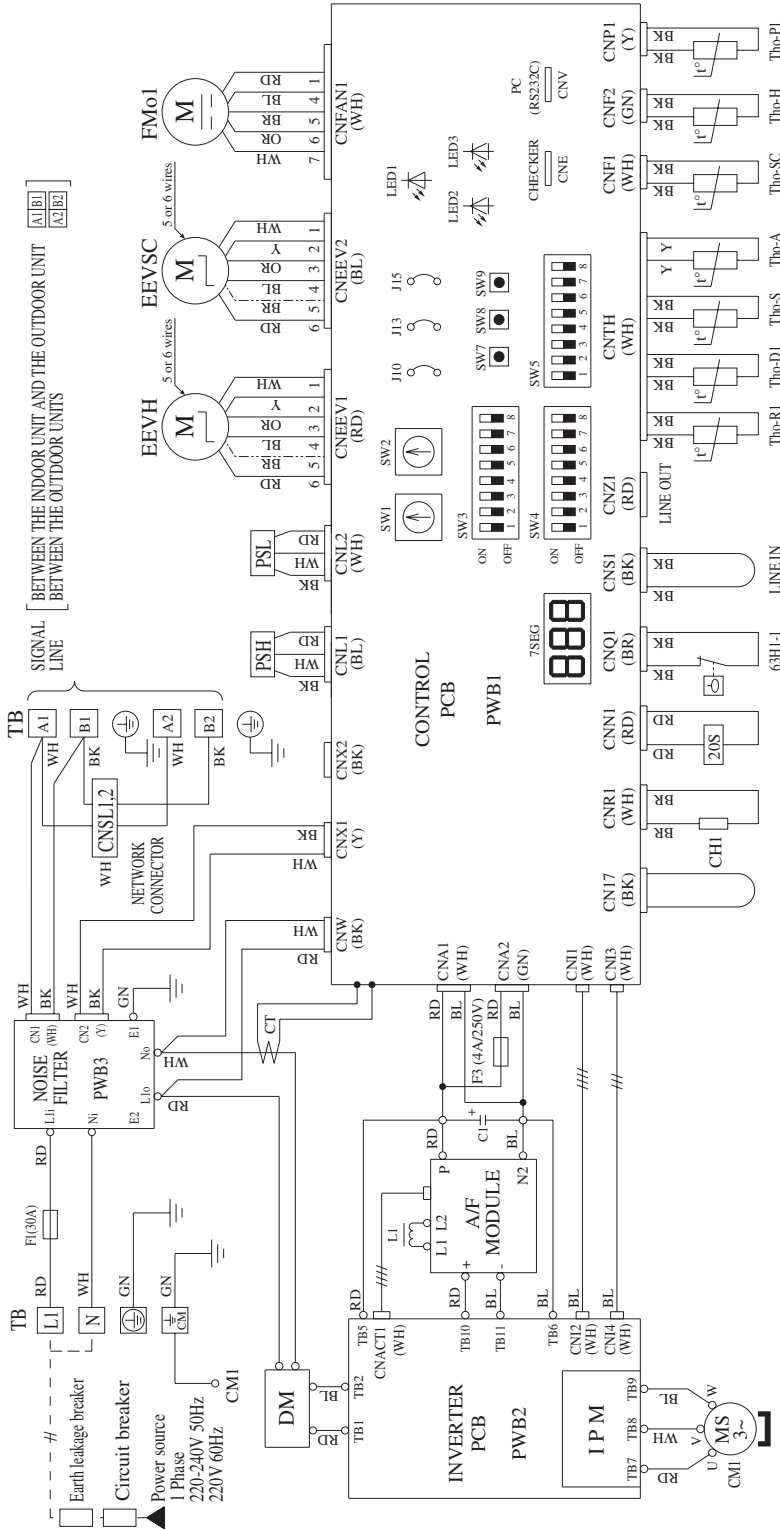
Notes

- (1) It must not be surrounded by walls on the four sides
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the units height.
- (6) The model name label is attached on the lower right corner of the front panel.



2.3 Electrical wiring

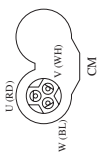
Models FDC112KXZEN1, 140KXZEN1, 155KXZEN1



Meaning of marks

Mark	Name	Name
C	Electrolytic capacitor	SW3-1
CH	Crankcase heater	SW3-5
CM	Compressor motor	SW3-7
GNA-Z	Connector	SW4-7
CT	Current sensor	SW4-8
DM	Diode module	SW5-1
EEVSC	Electronic expansion valve (For overcooling)	SW5-2
EEVH	Electronic expansion valve (For heating)	SW5-3
FMO1	Fan motor	SW5-5
F	Fuse	SW7 (Button)
IPM	High pressure sensor	SW8 (Button)
J10	Intelligent power module	SW9 (Button)
J13	Superlink terminal setting (space/normal)	TB
J15	External input switch (pulse/level)	Tho-A
LED1	Indicator lamp (Red-Inspection indicator)	Tho-D
LED2	Indicator lamp (Green-Microcomputer normally indication)	Tho-P1
LED3	Indicator lamp (Green-For service)	Tho-S
PSL	Low pressure sensor	Tho-SC
SW1	Outdoor unit No. (ten's place number)	Tho-H
SW2	Outdoor unit No. (one's place number)	20S
		63HT-1

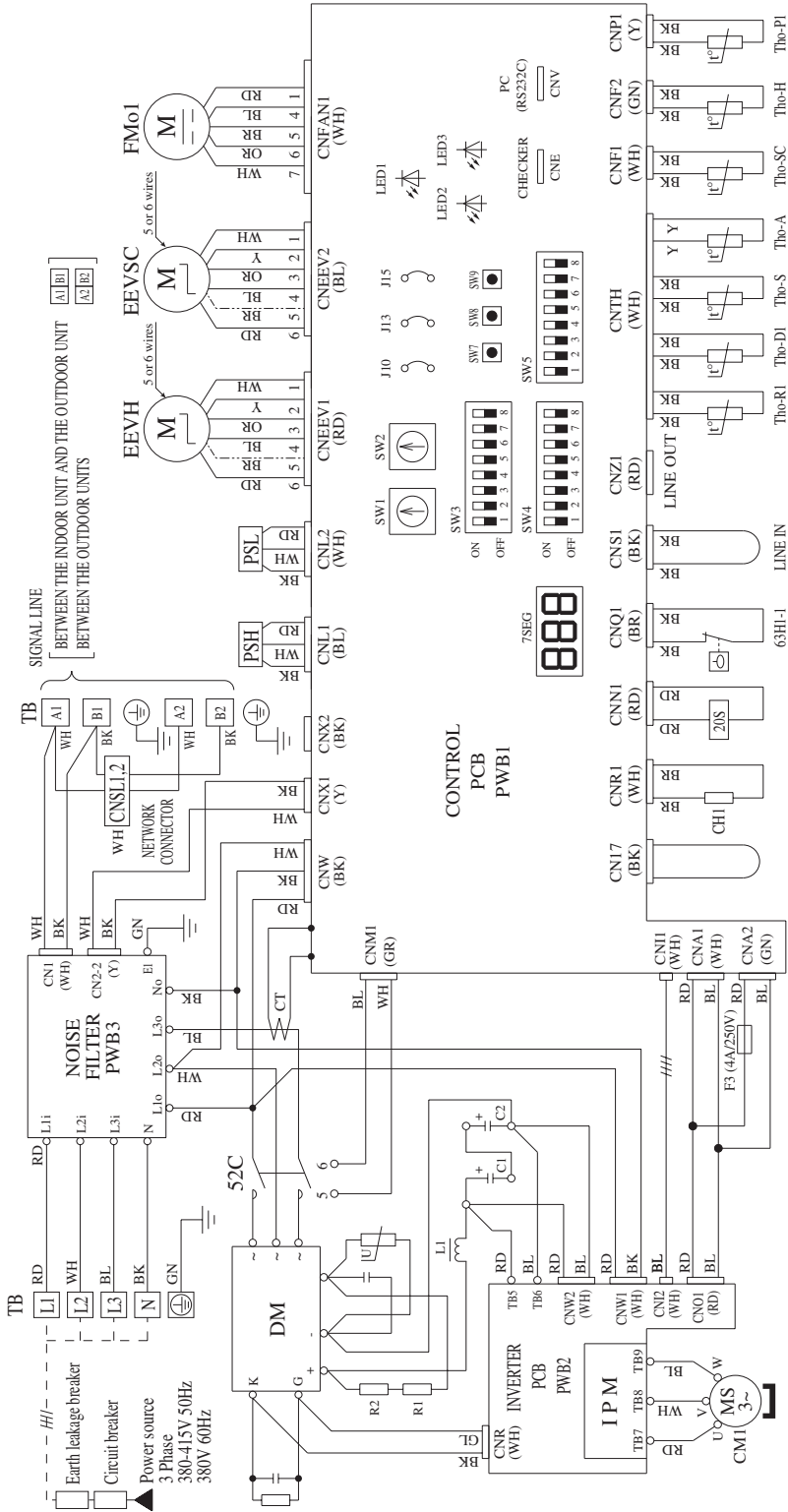
Compressor terminal arrangement



Color marks

Mark	Color
BR	Brown
RD	Red
WH	White
BL	Blue
BK	Black
OR	Orange
Y	Yellow
Y/GN	Yellow/Green

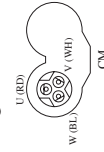
Models FDC112KXZES1, 140KXZES1, 155KXZES1



Meaning of marks

Mark	Name	Mark	Name
C	Electrolytic capacitor	SW3-1	Inspection LED reset
CH	Crankcase heater	SW3-5	Check operation start
CM	Compressor motor	SW3-7	Forced cooling/heating switching
CNA-Z	Connector	SW4-7	Demand switching
CT	Current sensor	SW4-8	Demand switching
DM	Diode module	SW5-1	Test run start (normal/start)
EEVSC	Electronic expansion valve (For overcooling)	SW5-2	Test run cooling setting (heating/cooling)
EEVH	Electronic expansion valve (For heating)	SW5-3	Pump down (normal/valid)
FMo1	Fan motor	SW5-5	Superlink protocol setting (new/previous)
F	Fuse	SW7 (Button)	Data erasing/writing
PSH	High pressure sensor	SW8 (Button)	7-segment display LP, one's place number
IPM	Intelligent power module	SW9 (Button)	7-segment display UP, ten's place number
J13	Superlink terminal setting (spare/normal)	TB	Terminal board
J15	External input switch (pulse/level)	Tho-A	Thermistor (outdoor air temperature)
L	Defines sun temperature (cold weather district/normal)	Tho-P1	Thermistor (discharge pipe)
LED1	Reactor	Tho-R1	Thermistor (power transistor)
LED2	Indicator lamp (Red-Inspection indicator)	Tho-S	Thermistor (heat exchanger)
LED3	Indicator lamp (Green-Microcomputer normality indication)	Tho-SC	Thermistor (suction pipe)
PSL	Indicator lamp (Green-For service)	Tho-H	Thermistor (sub-cooling coil, liquid)
SW1	Low pressure sensor	ZOS	Thermistor (sub-cooling coil, gas)
SW2	Outdoor unit No. (ten's place number)	63H1-1	4-way valve coil
	Outdoor unit No. (one's place number)		High pressure switch (Protection)

Compressor terminal arrangement



Color marks

Mark	Color
BR	Brown
RD	Red
WH	White
BL	Blue
BK	Black
OR	Orange
Y	Yellow
Y/GN	Yellow/Green

2.4 Noise level

Measured based on JIS B 8616

Mike position as highest noise level in position as below

Distance from front side 1m

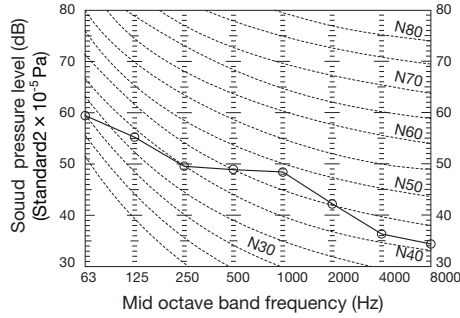
Height 1m

Models FDC112KXZEN1

112KXZES1

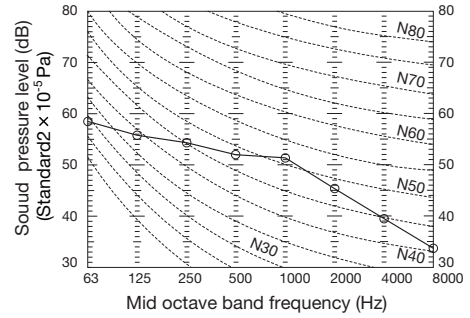
Cooling

Noise level 52 dB (A)



Heating

Noise level 55 dB (A)

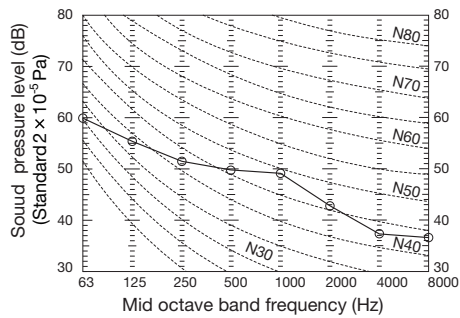


Models FDC140KXZEN1

140KXZES1

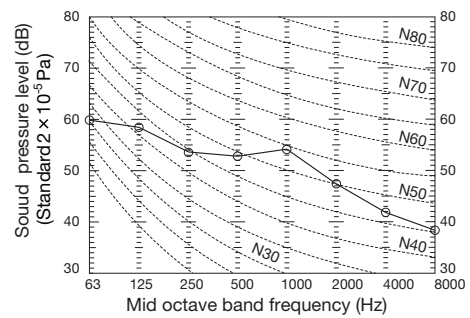
Cooling

Noise level 53 dB (A)



Heating

Noise level 57 dB (A)

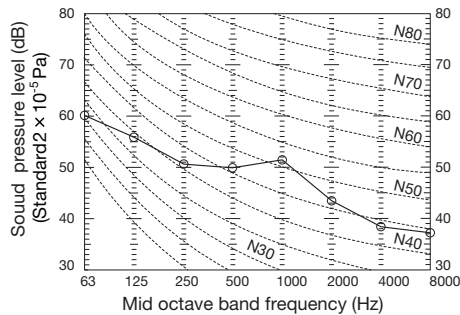


Models FDC155KXZEN1

155KXZES1

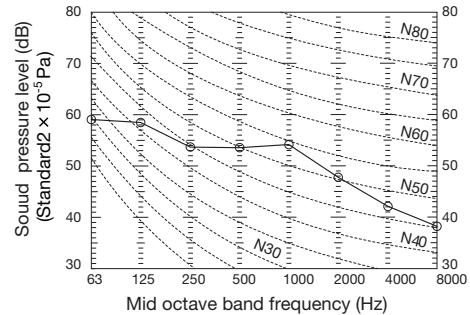
Cooling

Noise level 54 dB (A)



Heating

Noise level 57 dB (A)



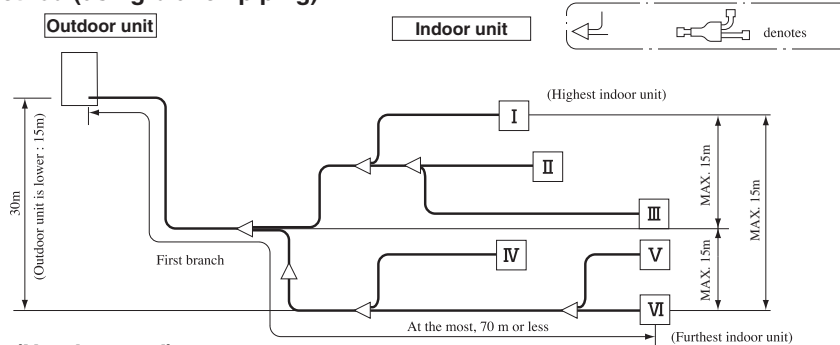
3. Range of usage & limitations

System		FDC112KXZEN1 112KXZES1	FDC140KXZEN1 140KXZES1	FDC155KXZEN1 155KXZES1
Item				
Indoor intake air temperature (Upper, lower limits)		Please see the next page.		
Outdoor air temperature (Upper, lower limits)		Please see the next page.		
Indoor units that can be used in combination	Number of connected units	1 to 8 units	1 to 10 units*	1 to 10 units*
	Total capacity	90 - 168	112 - 210	124 - 233
Total Piping Length (Total of the lengths of all piping)		MAX. 100m		
Maximum Piping Distance (From outdoor unit to farthest indoor unit)		Indoor unit MAX. 70m		
Total length of ø9.52 liquid pipe		Within 50 m		
Difference in height between indoor and outdoor units	Outdoor unit is higher	MAX. 30m		
	Outdoor unit is lower	MAX. 15m		
Difference in height between indoor units		MAX. 15m		
Permissible height difference between the first branch and the indoor unit		MAX. 15m		
Indoor unit atmosphere (behind ceiling) temperature and humidity		Dew point temperature 28 °C or less, relative humidity 80% or less		
Compressor stop/start frequency	1 cycle time	5 min or more (2 minutes or more from start to stop or 3 minutes or more from stop to start)		
	Stop time	3 min or more		
Power source voltage	Voltage fluctuation	Within ±10% of rated voltage		
	Voltage drop during start	Within ±15% of rated voltage		
	Phase unbalance	Within ± 3% of rated voltage		

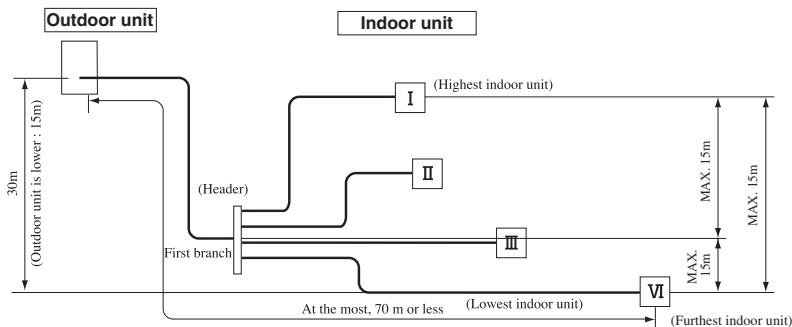
*When connecting 9 units or more, set the connectable capacity as follows :
 140 : 110% or less
 150 : 100% or less

Allowable length of refrigerant piping, height difference between indoor and outdoor unit

(1) Branch pipe method (using branch piping)

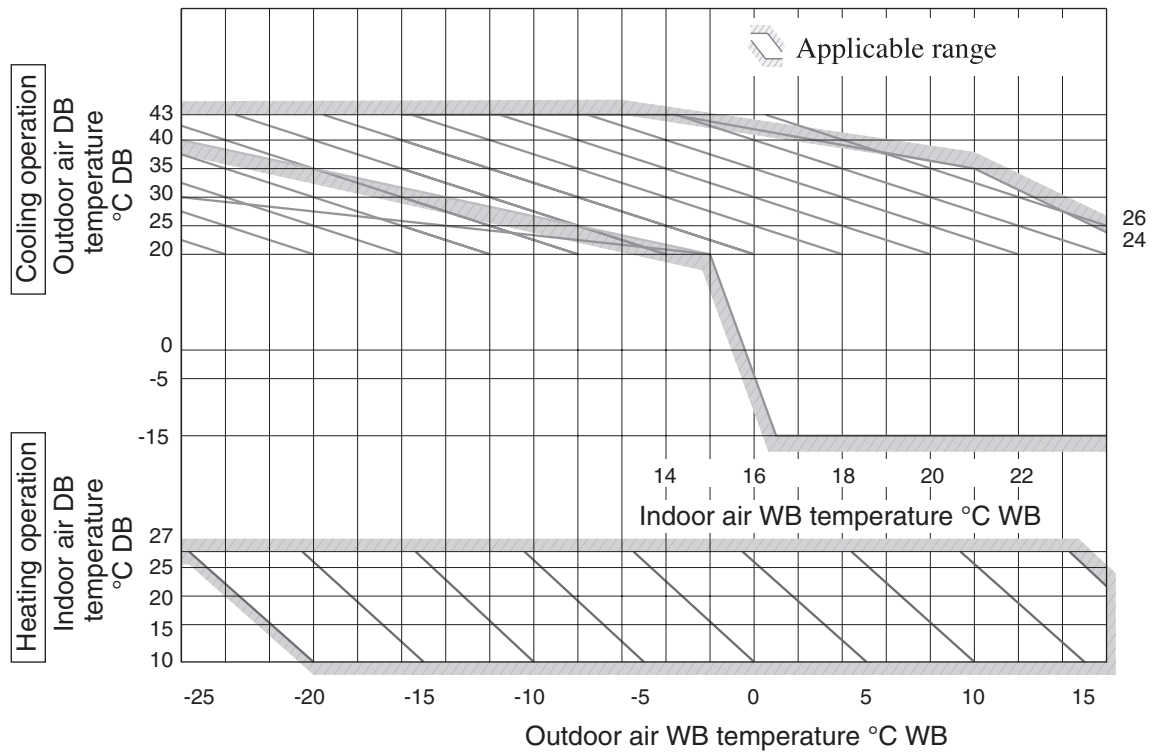


(2) Header System (Header used)



- Notes (1) There is no limit to the permissible piping lengths for the main pipes or other piping, but keep furthest indoor unit piping to 50 m with a diameter of ø9.52.
 (2) A branch piping system cannot be connected after a header system.

Range of usage & limitations



“CAUTION” Cooling operation under low ambient air temperature conditions

Micro KXZ models can be operated in cooling mode at low ambient air temperature condition within above temperature range. However in case of severely low temperature conditions if the following precaution is not observed, it may not be operated in spite of operable temperature range mentioned above and cooling capacity may not be established under certain conditions.

[Precaution]

In case of severely low temperature condition

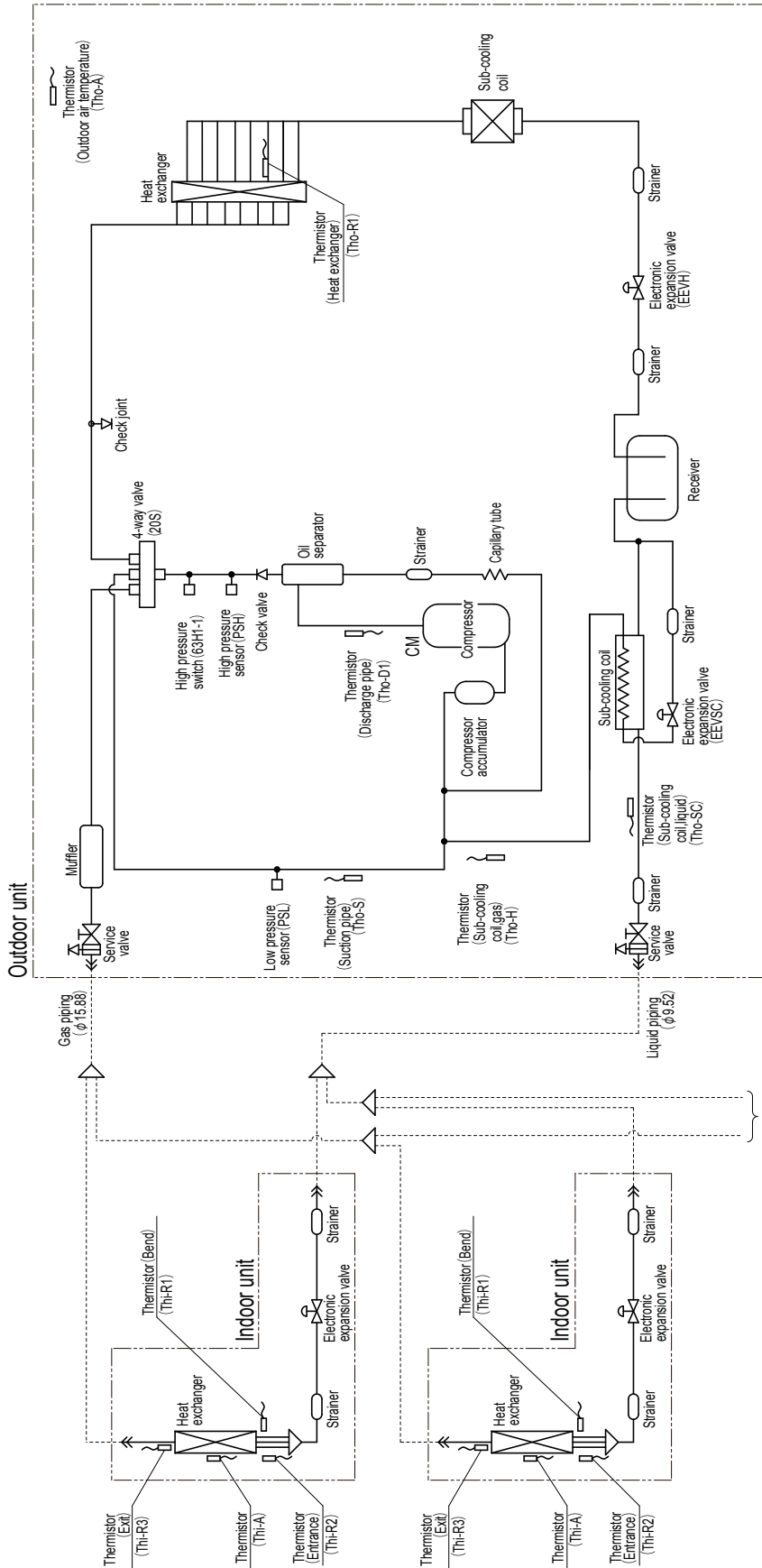
- 1) Install the outdoor unit at the place where strong wind cannot blow directly into the outdoor unit.
- 2) If there is no installation place where can prevent strong wind from directly blowing into the outdoor unit, mount the flex flow adaptor (prepared as optional part) or like such devices onto the outdoor unit in order to divert the strong wind.

[Reason]

Under the low ambient air temperature conditions of -5°C or lower, if strong wind directly blow into the outdoor unit, the outdoor heat exchanger temperature will drop, even though the outdoor fan is stopped by outdoor fan control. This makes high and low pressures to drop as well. This low pressure drop makes the indoor heat exchanger temperature to drop and will activate anti-frost control at indoor heat exchanger at frequent intervals, that cooling operation may not be established for any given time.

4. Piping system

All models



Notes (1) Pressure switch setting value

Name	Setting value
High pressure switch (63H-1) [For protection]	4.15 open/3.15 close (MPa)

(2) Function of thermistor

Low pressure sensor (PSL) : Compressor control

Protection

0.18 ON/0.236 OFF (MPa)

Error:

0.134 ON/0.18 OFF (MPa)

High pressure sensor (PSH) : Compressor control

Protection

Cooling: 3.70 ON (MPa)

Heating: 3.00 ON (MPa)

Thi-R1,2:Heating operation:Indoor fan control

Cooling operation:Frost prevention control

Superheat control

Thi-R3:Superheat control

Tho-R1 : For control of defrost operation

Tho-A : For heating and cooling to low outdoor temperature,

for control of defrost operation

Tho-D1 : For control of discharge pipe temperature

Tho-S : For control of suction pipe temperature

Sub-cooling coil thermistor 1 (Tho-SC) :

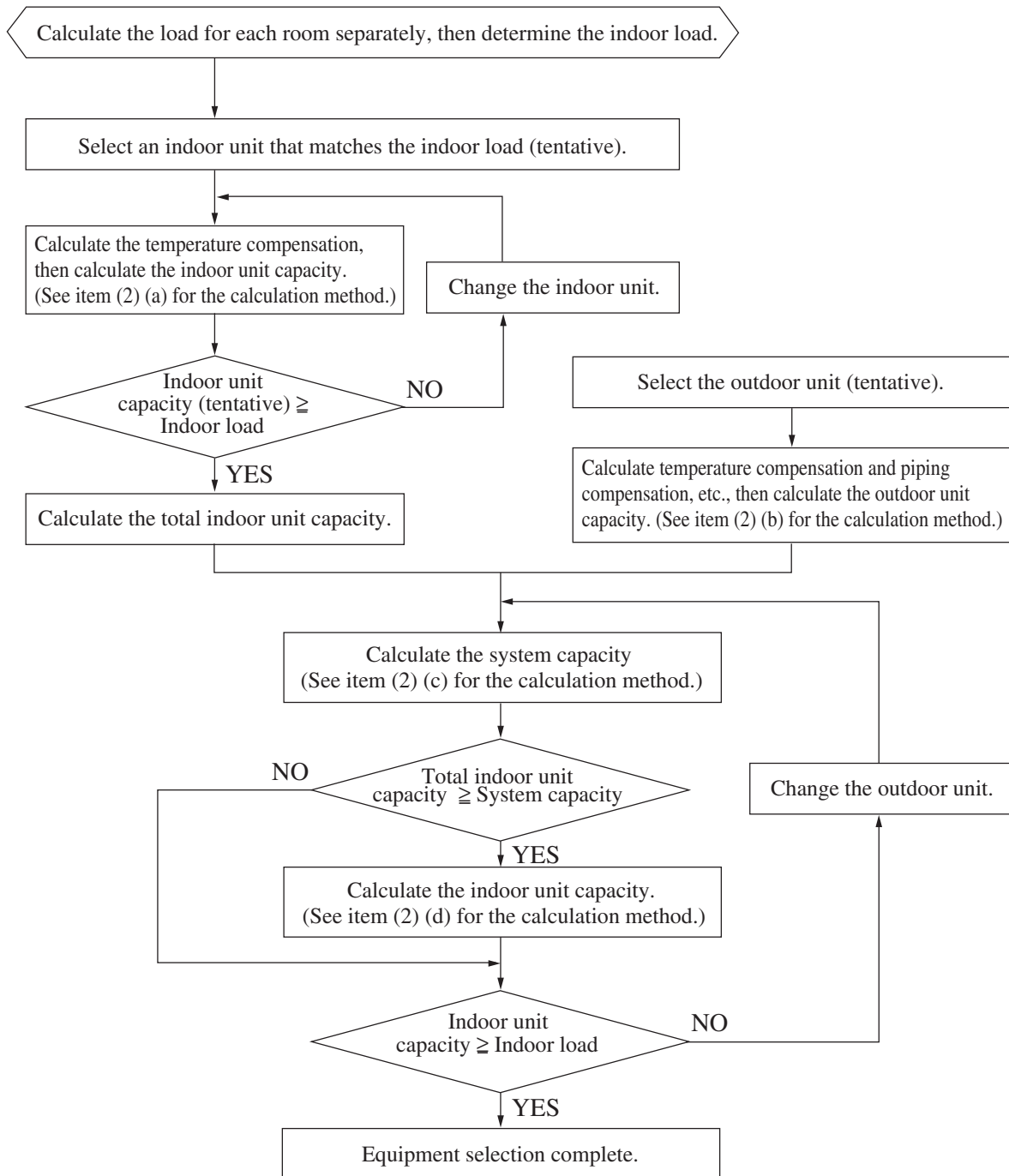
Sub-cooling coil control during cooling

Sub-cooling coil thermistor 2 (Tho-H) :

Sub-cooling coil control during cooling

5. Selection chart

(1) Equipment selection flow



(2) Capacity calculation method

(a) Calculating the indoor unit capacity compensation

Indoor unit capacity (cooling, heating) = Indoor unit total rated capacity
 × Capacity compensation coefficient according to temperature conditions
 See item (3) (a) concerning the capacity compensation coefficient according to temperature conditions.

(b) Calculating the outdoor unit capacity compensation

Outdoor Unit Capacity (Cooling, Heating) = Outdoor unit rated capacity (rated capacity when 100% connected)
 × Capacity compensation coefficient according to temperature conditions
 × Capacity compensation coefficient according to piping length
 × Capacity compensation coefficient according to height difference
 × Correction of heating capacity in relation to the frost on the outdoor unit heat exchanger
 × Capacity compensation coefficient according to indoor unit connection capacity

- ① See item (3) (a) concerning the capacity compensation coefficient according to temperature conditions.
- ② See item (3) (c) concerning the capacity compensation coefficient according to piping length.
- ③ See item (3) (d) concerning the capacity compensation coefficient according to height difference. This compensation should be carried out only in cases where the outdoor unit is lower during cooling and higher during heating.
- ④ See item (3) (e) correction of heating capacity in relation to the frost on the outdoor unit heat exchanger. This compensation should be carried out only when calculating the heating capacity.
- ⑤ See item (3) (f) concerning the capacity compensation coefficient according to indoor unit connected capacity. This compensation should be carried out only in cases where the indoor unit total capacity is 100% or higher.

(c) Calculating system capacity

Compare the capacities determined in items (a) and (b) above and let the smaller value be the system capacity (cooling, heating).

- ① In cases where indoor unit total capacity (cooling, heating) > outdoor unit capacity (cooling, heating)
 System capacity (cooling, heating) = Outdoor unit capacity (cooling, heating)
- ② In cases where indoor unit total capacity (cooling, heating) < outdoor unit capacity (cooling, heating)
 System capacity (cooling, heating) = Indoor unit capacity (cooling, heating)

(d) Calculating indoor unit capacity [item (c) ① only]

Indoor unit capacity (cooling, heating) = System capacity (cooling, heating)
 × [(Indoor unit capacity) / (Indoor unit total capacity)]

Capacity calculation examples

Example 1

Cooling (when the indoor unit connected total capacity is less than 100%)

- Outdoor unit FDC140KXZES1 1 Unit
- Indoor unit FDT56KXZE1 2 Units
- Piping length 60 m (Equivalent length)
- Indoor, outdoor unit height difference 15 m (Outdoor unit is lower)
- Temperature conditions Outdoor temperature: 33°C DB
- Temperature conditions Indoor temperature: 19°C WB

<Indoor unit total cooling capacity>: Item (2) (a) calculation.

- Indoor unit rated cooling capacity: 5.6 kW
- Capacity compensation coefficient according to temperature conditions:
 1.02 (Calculated according to Indoor 19°C WB / Outdoor 33°C DB); (See page 16)
 Indoor unit cooling capacity: 5.6 kW × 1.02 ≈ 5.7 kW
- Indoor unit total cooling capacity calculation;
 indoor unit total cooling capacity: 5.7 kW × 2 units = 11.4 kW

<Outdoor unit maximum cooling capacity> : Item (2) (b) calculation

- Outdoor unit rated cooling capacity: 14.0 kW
- Capacity compensation coefficient according to temperature conditions:
 1.02 (Calculated according to Indoor 19°C WB / Outdoor 33°C DB); (See page 16)
 Outdoor unit cooling capacity: 14.0 kW × 1.02 ≈ 14.3 kW
- Capacity compensation coefficient according to piping length: 0.87 (calculated according to 60 m length); (See page 18)
 14.3 kW × 0.87 = 12.4 kW

- Capacity compensation coefficient according to height difference: 0.97 (calculated according to 15 m difference); (See page 19)
 $12.4 \text{ kW} \times 0.97 \approx \underline{12.0 \text{ kW}}$
- Capacity compensation coefficient according to indoor unit connected total capacity: $1.0 \leftarrow (56 \times 2) / 140 < 100\%$
 No compensation

<System cooling capacity>: Item (2) (c) calculation

Compare the indoor unit total cooling capacity and the outdoor unit maximum cooling capacity. The smaller value is the actual system cooling capacity.

- Indoor unit total cooling capacity: 11.4 kW \Rightarrow System cooling capacity: 11.4 kW
- Outdoor unit maximum cooling capacity: 12.0 kW

<Indoor unit capacity compensation> No compensation (5.7 kW)

Example 2

Cooling (when the indoor unit connected total capacity is 100% or higher)

- Outdoor unit FDC140KXZES1 1 Unit
- Indoor unit FDT56KXZE1 3 Units
- Piping length 60 m (Equivalent length)
- Indoor, outdoor unit height difference 15 m (Outdoor unit is higher)
- Temperature conditions Outdoor temperature: 35°C DB
- Temperature conditions Indoor temperature: 18°C WB

<Indoor unit total cooling capacity>: Item (2) (a) calculation.

- Indoor unit rated cooling capacity: 5.6 kW
- Capacity compensation coefficient according to temperature conditions:
 0.95 (Calculated according to Indoor 18°C WB / Outdoor 35°C DB); (See page 16)
 Indoor unit cooling capacity: $5.6 \text{ kW} \times 0.95 \approx 5.3 \text{ kW}$
- Indoor unit total cooling capacity calculation;
 indoor unit total cooling capacity: $5.3 \text{ kW} \times 3 \text{ units} \approx \underline{15.9 \text{ kW}}$

<Outdoor unit maximum cooling capacity> : Item (2) (b) calculation

- Outdoor unit rated cooling capacity: 14.0 kW
- Capacity compensation coefficient according to temperature conditions:
 0.95 (Calculated according to Indoor 18°C WB / Outdoor 35°C DB); (See page 16)
 Outdoor unit cooling capacity: $14.0 \text{ kW} \times 0.95 \approx 13.3 \text{ kW}$
- Capacity compensation coefficient according to piping length: 0.87 (calculated according to 60 m length); (See page 18)
 $13.3 \text{ kW} \times 0.87 \approx 11.6 \text{ kW}$
- Capacity compensation coefficient according to height difference: 1.0 (the outdoor unit is higher during cooling)
 No compensation
- Capacity compensation coefficient according to indoor unit connected total capacity: $1.02 \leftarrow (56 \times 3) / 140 = 120\%$ (See page 19)
 $11.6 \text{ kW} \times 1.02 \approx \underline{11.8 \text{ kW}}$

<System cooling capacity>: Item (2) (c) calculation

Compare the indoor unit total cooling capacity and the outdoor unit maximum cooling capacity. The smaller value is the actual system cooling capacity.

- Indoor unit total cooling capacity : 15.9 kW \Rightarrow System cooling capacity: 11.8 kW
- Outdoor unit maximum cooling capacity : 11.8 kW

<Indoor unit cooling capacity Compensation>: Item (2) (d) calculation.

$$\frac{11.8 \text{ kW} \times 5.3 \text{ kW}}{15.9 \text{ kW}} \approx \underline{3.9 \text{ kW}}$$

Example 3

Heating (when the indoor unit connected total capacity is 100% or higher)

- Outdoor unit FDC140KXZES1 1 Unit
- Indoor unit FDT56KXZE1 3 Units
- Piping length 60 m (Equivalent length)
- Indoor, outdoor unit height difference 20 m (Outdoor unit is higher)
- Temperature conditions Outdoor temperature: 6°C WB
- Temperature conditions Indoor temperature: 19°C DB

<Indoor unit total heating capacity>: Item (2) (a) calculation.

- Indoor unit rated heating capacity: 6.3 kW
- Capacity compensation coefficient according to temperature conditions:
 1.04 (Calculated according to Outdoor 6°C WB / Indoor 19°C DB); (See page 17)
 Indoor unit heating capacity: $6.3 \text{ kW} \times 1.04 \approx 6.6 \text{ kW}$
- Indoor unit total heating capacity calculation;
 indoor unit total heating capacity: $6.6 \text{ kW} \times 3 \text{ units} \approx \underline{19.8 \text{ kW}}$

<Outdoor unit maximum heating capacity> : Item (2) (b) calculation

- Outdoor unit rated heating capacity: 16.0 kW
- Capacity compensation coefficient according to temperature conditions:
1.04 (Calculated according to Outdoor 6°C WB / Indoor 19°C DB); (See page 17)
Outdoor unit heating capacity: 16.0 kW × 1.04 = 16.6 kW
- Capacity compensation coefficient according to piping length: 0.98 (calculated according to 60 m length); (See page 18)
16.6 kW × 0.98 ≅ 16.3 kW
- Capacity compensation coefficient according to height difference: 0.96 (calculated according to 20 m difference); (See page 18)
16.3 kW × 0.96 ≅ 15.6 kW
- Correction of heating capacity in relation to the frost on the outdoor unit heat exchanger: 1.0;
15.6 kW × 1.0 ≅ 15.6 kW.
- Capacity compensation coefficient according to indoor unit connected total capacity: 1.02 ← (56 × 3) / 140 = 120% (See page 19)
15.6 kW × 1.02 ≅ 15.9 kW.

<System heating capacity>: Item (2) (c) calculation

Compare the indoor unit total heating capacity and the outdoor unit maximum heating capacity. The smaller value is the actual system heating capacity.

- Indoor unit total heating capacity : 19.8 kW ⇨ System heating capacity: 15.9 kW
- Outdoor unit maximum heating capacity : 15.9 kW

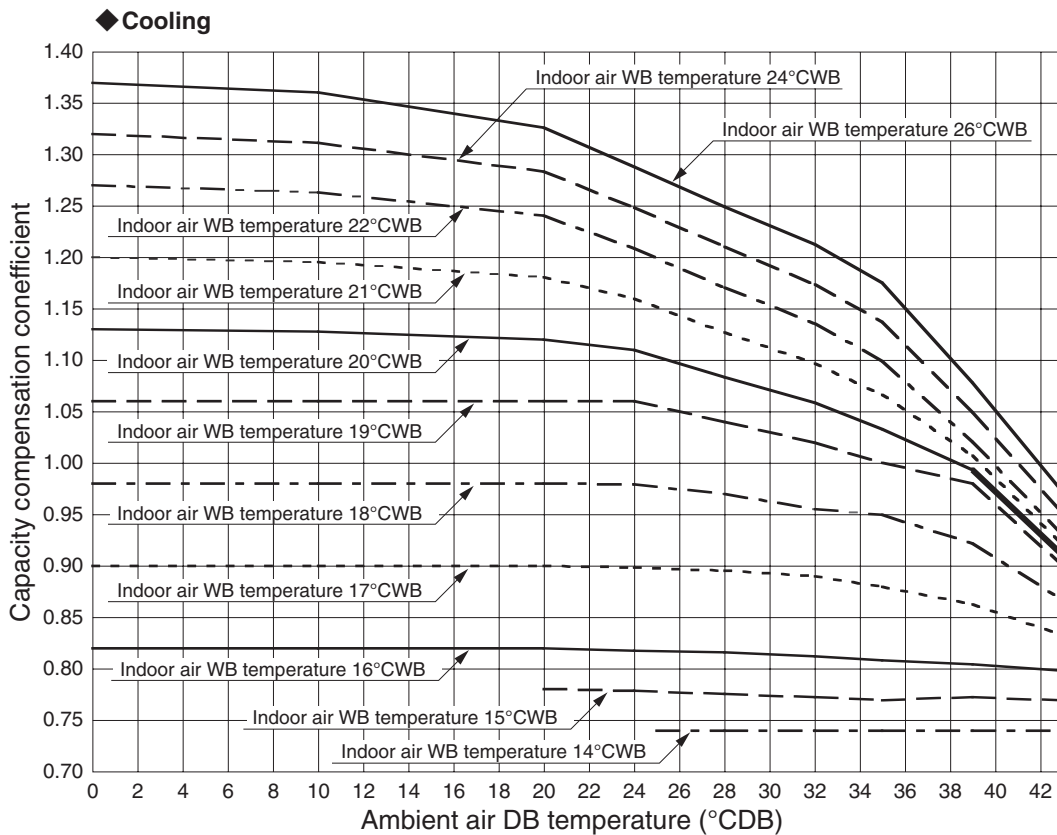
<Indoor unit heating capacity compensation> (Item (2) (d) calculation

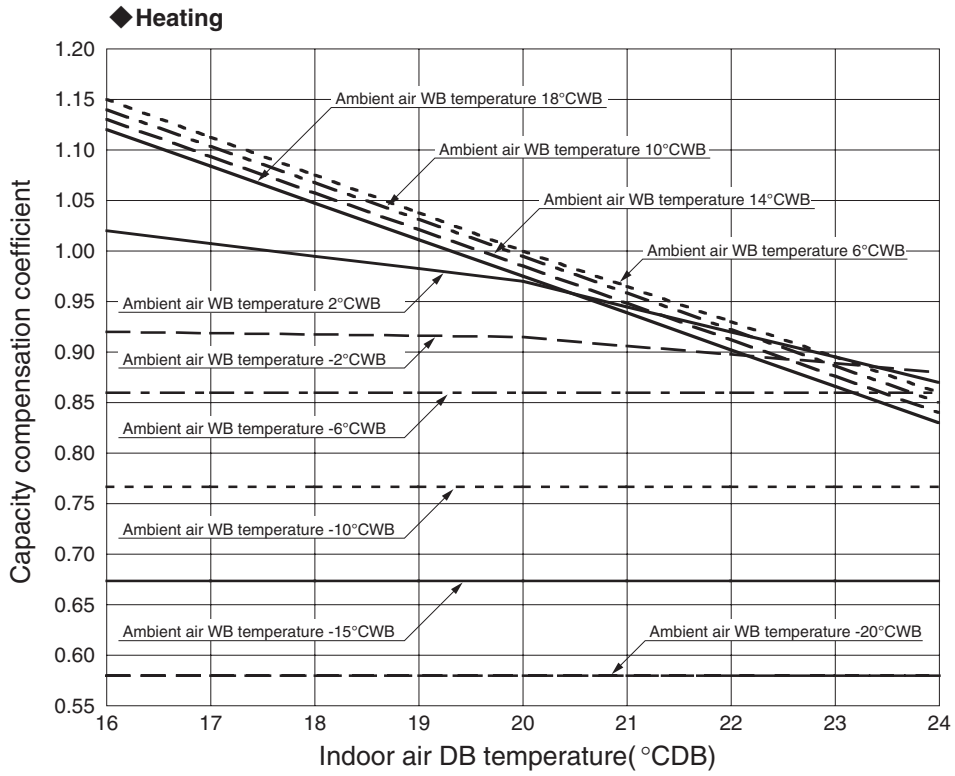
$$\frac{15.9 \text{ kW} \times 6.6 \text{ kW}}{19.8 \text{ kW}} \cong \underline{5.3 \text{ kW}}$$

(3) Capacity compensation coefficient

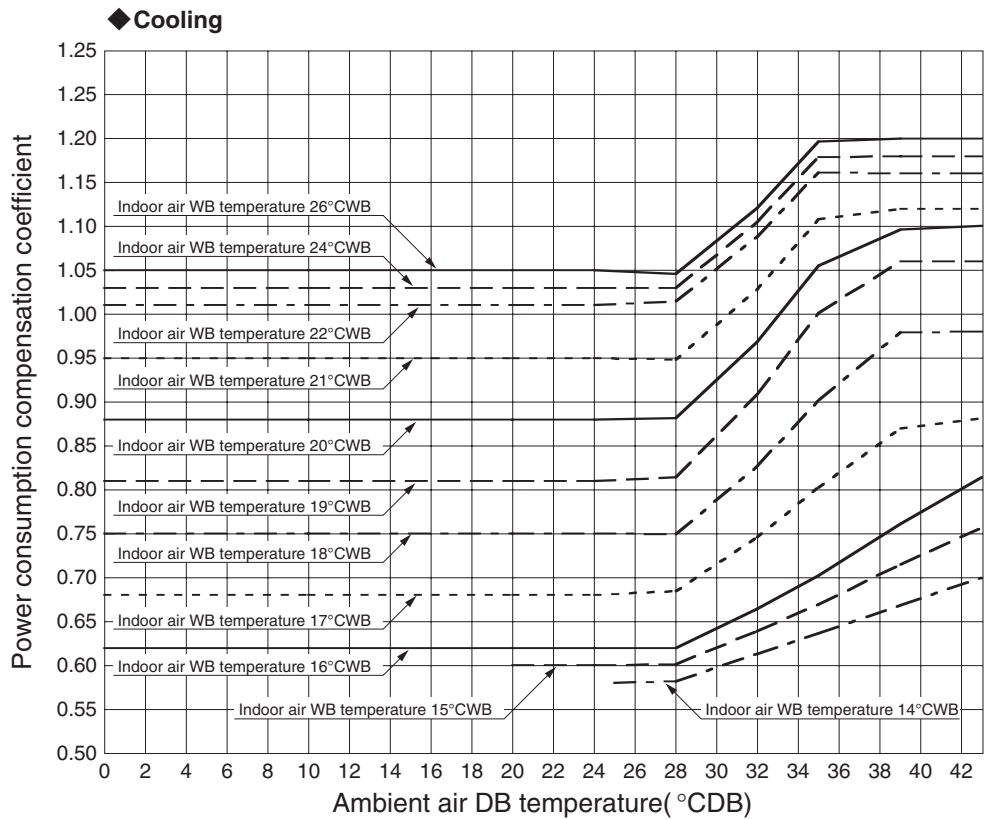
(a) Capacity compensation coefficient and power consumption compensation coefficient according to indoor and outdoor temperature conditions.

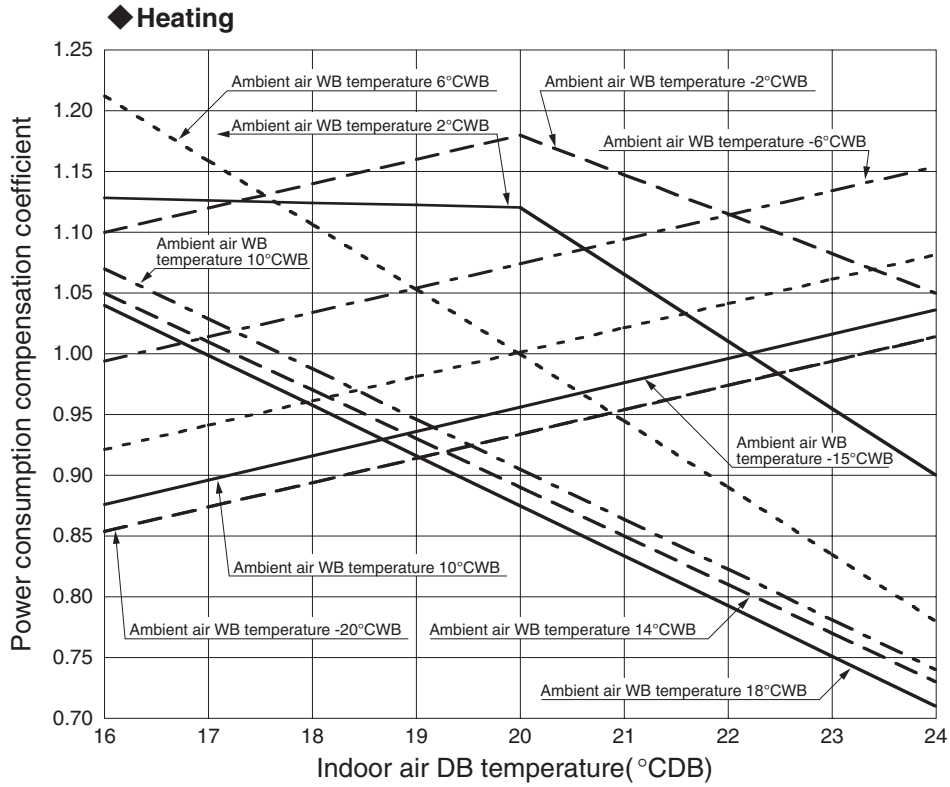
1) Capacity compensation coefficient



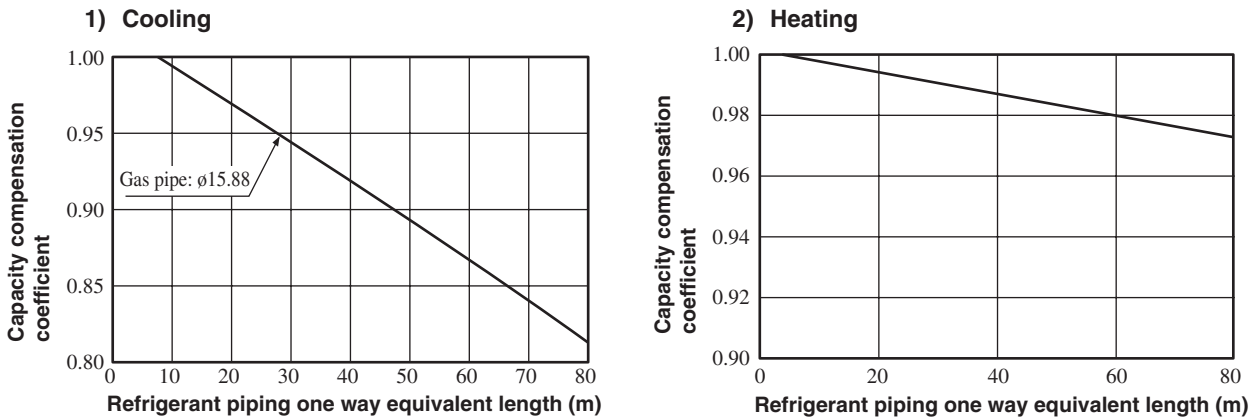


2) Power consumption correction factor





(c) Correction of cooling and heating capacity in relation to one way length of refrigerant piping.



Note (1) Equivalent piping length can be obtained by calculating as follows.

$$\text{Equivalent piping length} = \text{Real gas piping length} + \text{Number of bends in gas piping} \times \text{Equivalent piping length of bends.}$$

Equivalent length of each joint	Unit : m/one part						
Gas piping size	φ9.52	φ12.7	φ15.88	φ19.05	φ25.4	φ28.58	φ31.8
Joint (90°elbow)	0.15	0.20	0.25	0.30	0.40	0.45	0.55

- (d) When the outdoor unit is located at a lower height than the indoor unit in cooling operation and when the outdoor unit is located at a higher height than the indoor unit in heating operation, the following values should be subtracted from the values in the above table.

Height difference between the indoor unit and outdoor unit in the vertical height difference	5 m	10 m	15 m	20 m	25 m	30 m
Adjustment coefficient	0.99	0.98	0.97	0.96	0.95	0.94

Height difference between the indoor unit and outdoor unit in the vertical height difference	35 m	40 m	45 m	50 m
Adjustment coefficient	0.93	0.92	0.91	0.90

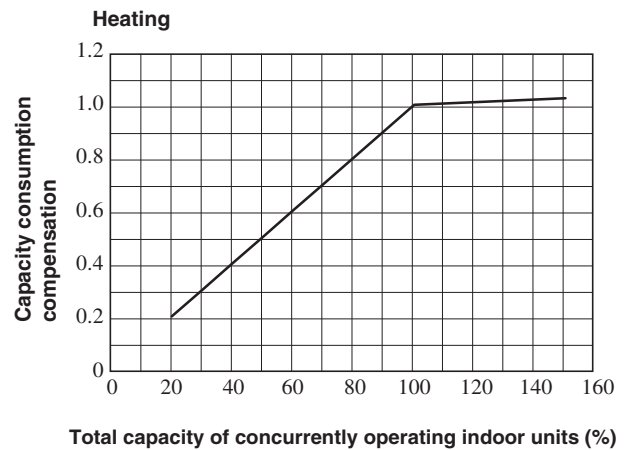
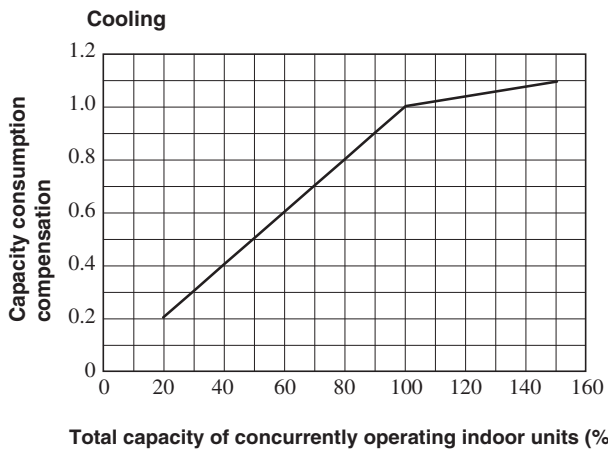
- (e) Correction of heating capacity in relation to the frost on the outdoor unit heat exchanger

Air inlet temperature of outdoor unit in °C WB	-20	-15	-13	-11	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	0.96	0.96	0.96	0.95	0.94	0.93	0.91	0.88	0.86	0.87	0.92	1

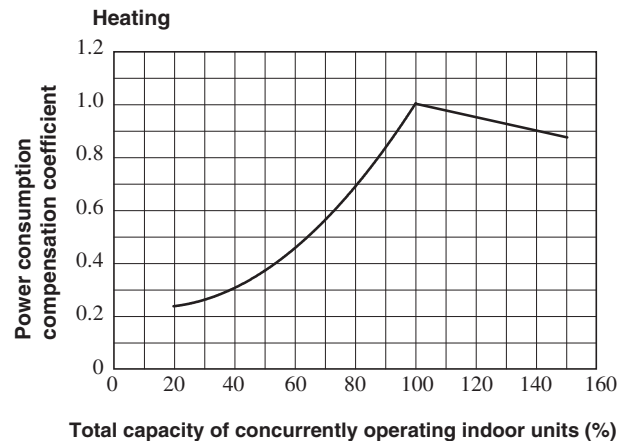
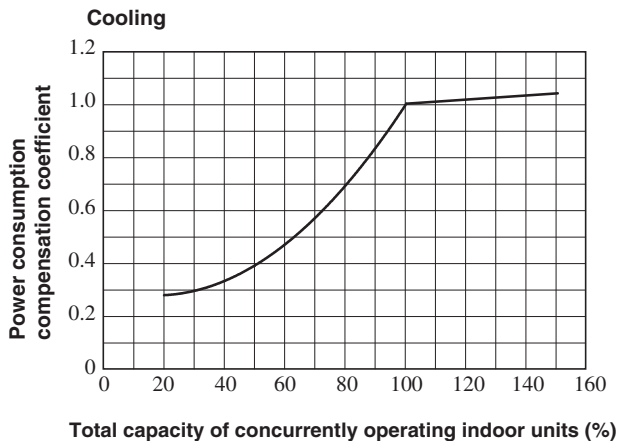
The correction factors will change drastically according to weather conditions. So necessary adjustment should be made empirically according to the weather data of the particular area.

- (f) The capacity compensation coefficient and power consumption compensation coefficient vary according to the total capacity of concurrently operating indoor units, as shown below.

◆ Capacity compensation coefficient

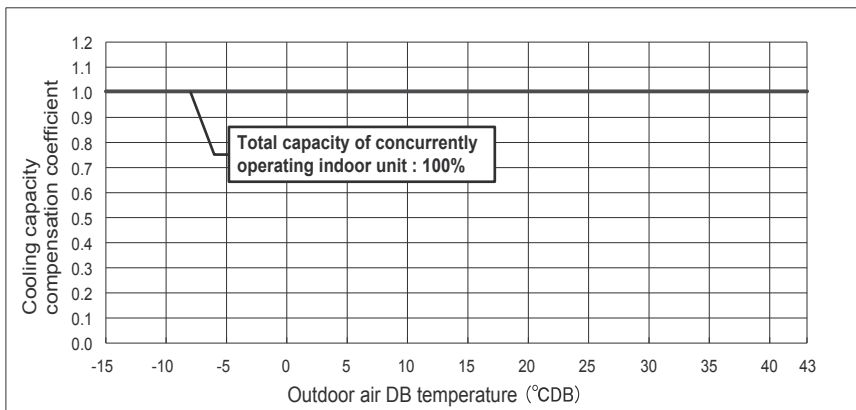
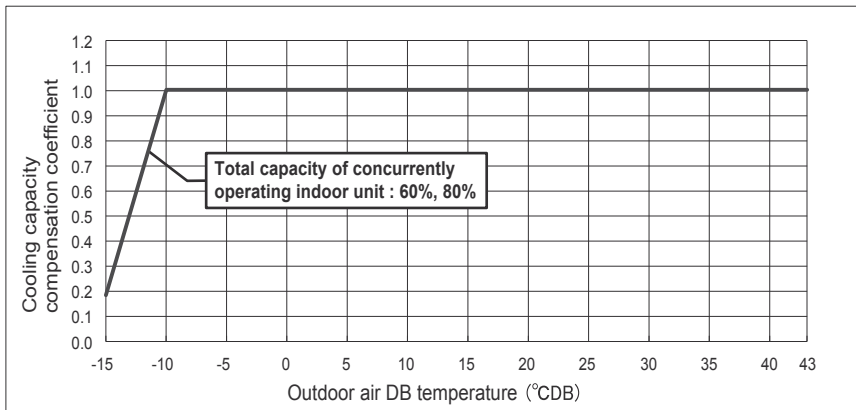
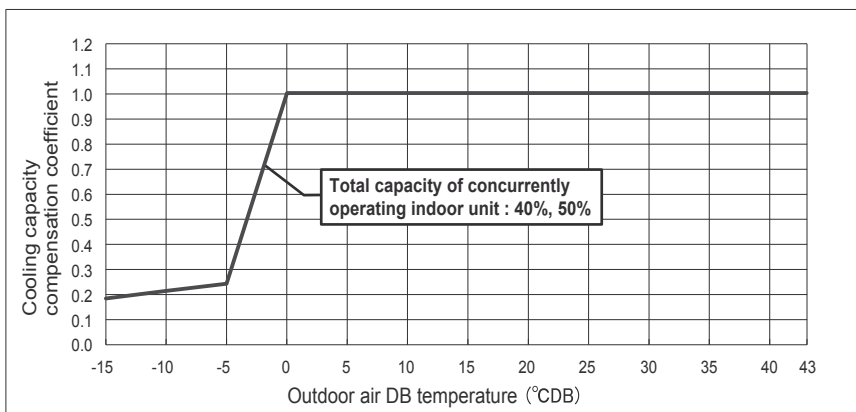
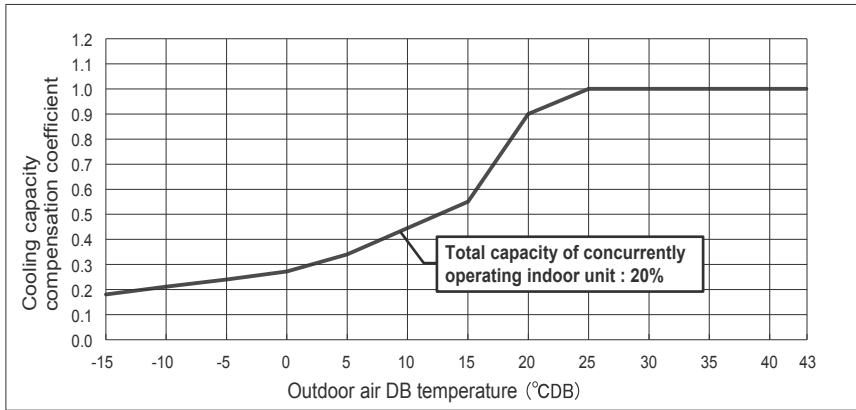


◆ Power consumption compensation coefficient



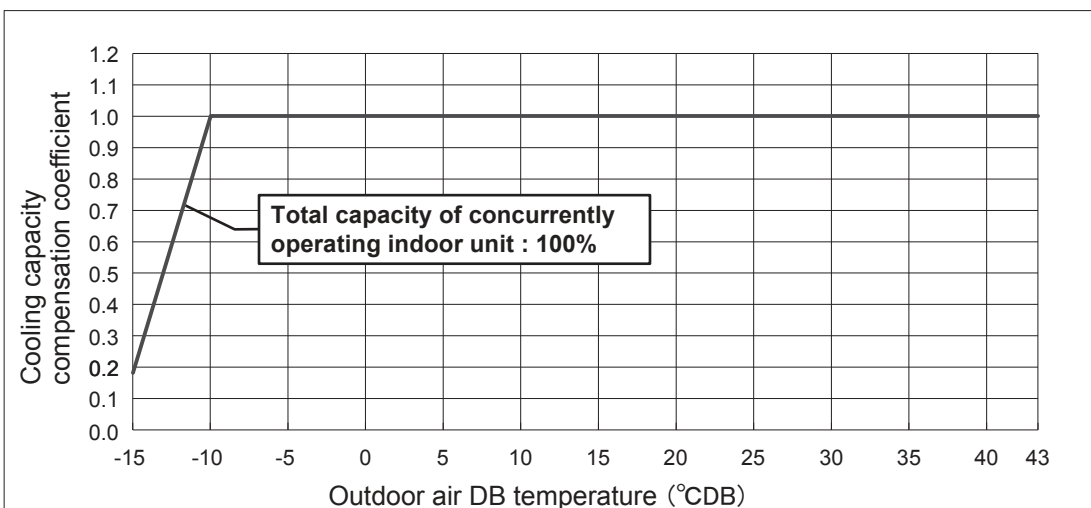
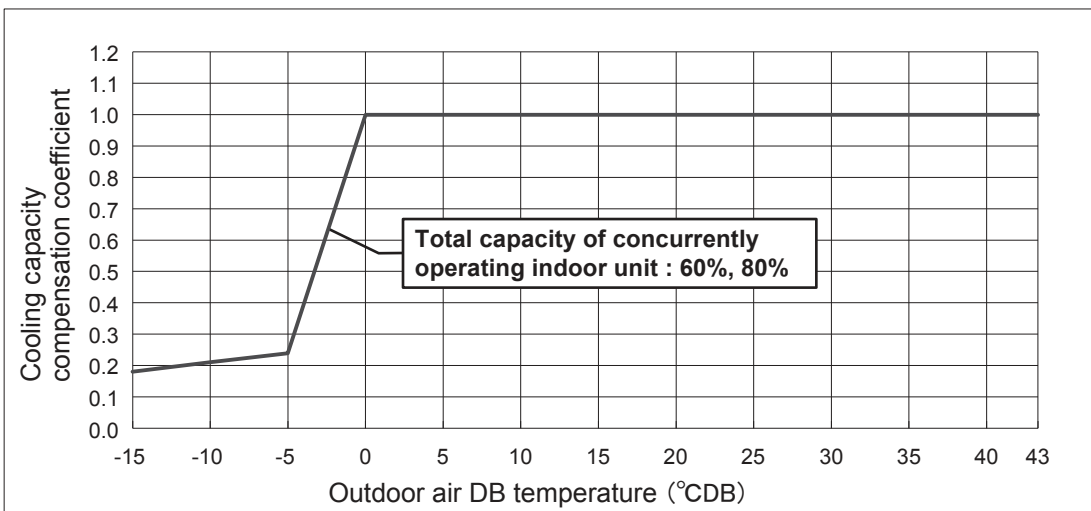
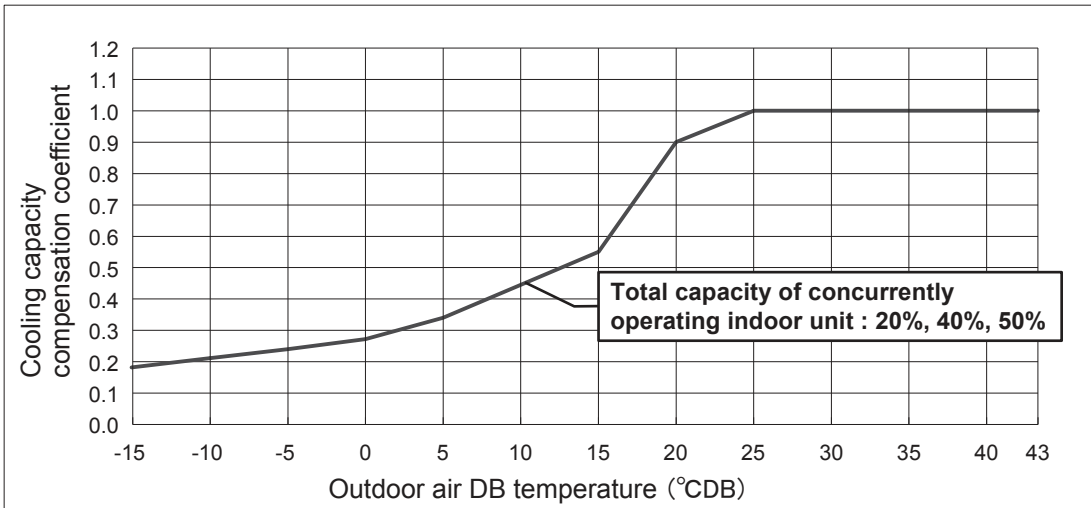
**(g) The capacity compensation coefficient:
Cooling capacity in low temperature under operation of Anti-frost control.**

(i) Indoor fan tap: P-Hi



Capacity compensation coefficient is that of cooling capacity at each fan-tap.
 (Condition) Room temp: 27 °CDB/19°CWB
 (*) If room temp. is lower than 27°CDB/19°CWB, cooling capacity ratio tends to be smaller than values shown in graph.
 The lowest fan tap in the operating indoor units should be selected on above graph.

(ii) Indoor fan tap: Lo



Capacity compensation coefficient is that of cooling capacity at each fan-tap.
 (Condition) Room temp: 27 °CDB/19°CWB
 (*) If room temp. is lower than 27°CDB/19°CWB, cooling capacity ratio tends to be smaller than values shown in graph.
 The lowest fan tap in the operating indoor units should be selected on above graph.

6. TECHNICAL INFORMATION

6.1 Outdoor unit

Model(s) : FDC140KXZEN1							
Outdoor side heat exchanger of air conditioner :				air			
Indoor side heat exchanger of air conditioner :				air			
Type : vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	14.0	kW	Seasonal space cooling energy efficiency ηs,c		306.2	%
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°C/19°C(dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	353.5	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	570.0	%
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	1030.0	%
Tj=+20°C	Pdc	4.9	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1920.0	%
Degradation coefficient for air conditioners**	Cdc	0.25	-				
Power consumption in other than 'active mode'							
Off mode	P _{OFF}	0.034	kW	Crankcase heater mode	P _{CK}	0.034	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.034	kW
Other items				For air-to-air air conditioner: air flow-rate,outdoor measured			
Capacity control		variable				4500	m ³ /h
Sound power level, outdoor	L _{WA}	71.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		2088	kg CO _{2eq} (100years)				
Contact details	Mitsubishi heavy industries thermal systems,LTD						
** If Cdc is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.							
*** from 26 September 2018							
Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

Information to identify the model(s) to which the information relates : FDC140KXZEN1			
Outdoor side heat exchanger of heat pump : air			
Indoor side heat exchanger of heat pump : air			
Indication if the heater is equipped with a supplementary heater : No			
if applicable : electric motor			
Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional.			
Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	14.0	kW
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	9.4	kW
Tj=+2°C	Pdh	5.7	kW
Tj=+7°C	Pdh	3.7	kW
Tj=+12°C	Pdh	3.6	kW
T _{biv} =bivalent temperature	Pdh	10.6	kW
T _{OL} =operation limit	Pdh	8.0	kW
For air-to-water heat pumps : Tj=-15°C (if T _{OL} <-20°C)	Pdh	-	kW
Bivalent temperature	T _{biv}	-10.0	°C
Degradation coefficient heat pumps**	C _{dh}	0.25	-
Power consumption in modes other than 'active mode'			
Off mode	P _{OFF}	0.034	kW
Thermostat-off mode	P _{TO}	0.034	kW
Crankcase heater mode	P _{CK}	0.034	kW
Other items			
Capacity control		variable	
Sound power level, outdoor measured	L _{WA}	72.0	dB
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV
GWP of the refrigerant		2088	kg CO _{2eq} (100years)
Seasonal space heating energy efficiency ηs,h			
		180.5	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj=-7°C	COPd or GUEh,bin / AEFh,bin	317.0	%
Tj=+2°C	COPd or GUEh,bin / AEFh,bin	398.0	%
Tj=+7°C	COPd or GUEh,bin / AEFh,bin	693.0	%
Tj=+12°C	COPd or GUEh,bin / AEFh,bin	913.0	%
T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	287.0	%
T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	239.0	%
For air-to-water heat pumps:Tj=-15°C (if T _{OL} <-20°C)	COPd or GUEh,bin / AEFh,bin	-	%
For water-to-air heat pumps:Operation limit T _a temperature		-	°C
Supplementary heater back-up heating capacity			
	elbu	-	kW
Type of energy input Standby mode			
	P _{SB}	0.034	kW
For air-to-air heat pumps: air flow-rate,outdoor measured			
		4920	m3/h
For water-/brine-to-air heat pumps : Rated brine or water flow-rate, outdoor side heat exchanger			
		-	m3/h
Contact details Mitsubishi heavy industries thermal systems,LTD			
** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.			
*** from 26 September 2018			
Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.			

Model(s) : FDC140KXZES1							
Outdoor side heat exchanger of air conditioner :				air			
Indoor side heat exchanger of air conditioner :				air			
Type : vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	14.0	kW	Seasonal space cooling energy efficiency ηs,c		306.2	%
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°C/19°C(dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	353.5	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	570.0	%
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	1030.0	%
Tj=+20°C	Pdc	4.9	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1920.0	%
Degradation coefficient for air conditioners**	Cdc	0.25	-				
Power consumption in other than 'active mode'							
Off mode	P _{OFF}	0.034	kW	Crankcase heater mode	P _{CK}	0.034	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.034	kW
Other items				For air-to-air air conditioner:			
Capacity control		variable		air flow-rate,outdoor measured		4500	m ³ /h
Sound power level, outdoor	L _{WA}	71.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		2088	kg CO _{2eq} (100years)				
Contact details	Mitsubishi heavy industries thermal systems,LTD						
** If Cdc is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.							
*** from 26 September 2018							
Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

Information to identify the model(s) to which the information relates : FDC140KXZES1			
Outdoor side heat exchanger of heat pump : air			
Indoor side heat exchanger of heat pump : air			
Indication if the heater is equipped with a supplementary heater : No			
if applicable : electric motor			
Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional.			
Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	14.0	kW
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	9.4	kW
Tj=+2°C	Pdh	5.7	kW
Tj=+7°C	Pdh	3.7	kW
Tj=+12°C	Pdh	3.6	kW
T _{biv} =bivalent temperature	Pdh	10.6	kW
T _{OL} =operation limit	Pdh	8.0	kW
For air-to-water heat pumps : Tj=-15°C (if T _{OL} <-20°C)	Pdh	-	kW
Bivalent temperature	T _{biv}	-10.0	°C
Degradation coefficient heat pumps**	C _{dh}	0.25	-
Power consumption in modes other than 'active mode'			
Off mode	P _{OFF}	0.034	kW
Thermostat-off mode	P _{TO}	0.034	kW
Crankcase heater mode	P _{CK}	0.034	kW
Other items			
Capacity control		variable	
Sound power level, outdoor measured	L _{WA}	72.0	dB
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV
GWP of the refrigerant		2088	kg CO _{2eq} (100years)
Seasonal space heating energy efficiency ηs,h			
		180.5	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj=-7°C	COPd or GUEh,bin / AEFh,bin	317.0	%
Tj=+2°C	COPd or GUEh,bin / AEFh,bin	398.0	%
Tj=+7°C	COPd or GUEh,bin / AEFh,bin	693.0	%
Tj=+12°C	COPd or GUEh,bin / AEFh,bin	913.0	%
T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	287.0	%
T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	239.0	%
For air-to-water heat pumps:Tj=-15°C (if T _{OL} <-20°C)	COPd or GUEh,bin / AEFh,bin	-	%
For water-to-air heat pumps:Operation limit T _a temperature		-	°C
Supplementary heater back-up heating capacity			
	elbu	-	kW
Type of energy input Standby mode			
	P _{SB}	0.034	kW
For air-to-air heat pumps: air flow-rate,outdoor measured			
		4920	m3/h
For water-/brine-to-air heat pumps : Rated brine or water flow-rate, outdoor side heat exchanger			
		-	m3/h
Contact details Mitsubishi heavy industries thermal systems,LTD			
** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.			
*** from 26 September 2018			
Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.			

Model(s) : FDC155KXZEN1							
Outdoor side heat exchanger of air conditioner :				air			
Indoor side heat exchanger of air conditioner :				air			
Type : vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	15.5	kW	Seasonal space cooling energy efficiency ηs,c		284.4	%
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°C/19°C(dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj=+35°C	Pdc	15.5	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	298.1	%
Tj=+30°C	Pdc	11.4	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	511.0	%
Tj=+25°C	Pdc	7.3	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	933.0	%
Tj=+20°C	Pdc	4.9	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1942.0	%
Degradation coefficient for air conditioners**	Cdc	0.25	-				
Power consumption in other than 'active mode'							
Off mode	P _{OFF}	0.034	kW	Crankcase heater mode	P _{CK}	0.034	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.034	kW
Other items				For air-to-air air conditioner: air flow-rate,outdoor measured			
Capacity control		variable				4500	m ³ /h
Sound power level, outdoor	L _{WA}	71.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		2088	kg CO _{2eq} (100years)				
Contact details	Mitsubishi heavy industries thermal systems,LTD						
** If Cdc is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.							
*** from 26 September 2018							
Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

Information to identify the model(s) to which the information relates : FDC155KXZEN1			
Outdoor side heat exchanger of heat pump : air			
Indoor side heat exchanger of heat pump : air			
Indication if the heater is equipped with a supplementary heater : No			
if applicable : electric motor			
Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional.			
Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	15.5	kW
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	9.6	kW
Tj=+2°C	Pdh	5.9	kW
Tj=+7°C	Pdh	3.8	kW
Tj=+12°C	Pdh	3.6	kW
T _{biv} =bivalent temperature	Pdh	10.9	kW
T _{OL} =operation limit	Pdh	8.2	kW
For air-to-water heat pumps : Tj=-15°C (if T _{OL} <-20°C)	Pdh	-	kW
Bivalent temperature	T _{biv}	-10.0	°C
Degradation coefficient heat pumps**	C _{dh}	0.25	-
Power consumption in modes other than 'active mode'			
Off mode	P _{OFF}	0.034	kW
Thermostat-off mode	P _{TO}	0.034	kW
Crankcase heater mode	P _{CK}	0.034	kW
Other items			
Capacity control		variable	
Sound power level, outdoor measured	L _{WA}	74.0	dB
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV
GWP of the refrigerant		2088	kg CO _{2eq} (100years)
Seasonal space heating energy efficiency ηs,h			
		179.0	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj=-7°C	COPd or GUEh,bin / AEFh,bin	313.0	%
Tj=+2°C	COPd or GUEh,bin / AEFh,bin	395.0	%
Tj=+7°C	COPd or GUEh,bin / AEFh,bin	686.0	%
Tj=+12°C	COPd or GUEh,bin / AEFh,bin	913.0	%
T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	286.0	%
T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	235.0	%
For air-to-water heat pumps:Tj=-15°C (if T _{OL} <-20°C)	COPd or GUEh,bin / AEFh,bin	-	%
For water-to-air heat pumps:Operation limit T _a temperature		-	°C
Supplementary heater back-up heating capacity			
	elbu	-	kW
Type of energy input Standby mode			
	P _{SB}	0.034	kW
For air-to-air heat pumps: air flow-rate,outdoor measured			
		4920	m3/h
For water-/brine-to-air heat pumps : Rated brine or water flow-rate, outdoor side heat exchanger			
		-	m3/h
Contact details Mitsubishi heavy industries thermal systems,LTD			
** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.			
*** from 26 September 2018			
Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.			

Model(s) : FDC155KXZES1							
Outdoor side heat exchanger of air conditioner :				air			
Indoor side heat exchanger of air conditioner :				air			
Type : vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	15.5	kW	Seasonal space cooling energy efficiency ηs,c		284.4	%
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°C/19°C(dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj=+35°C	Pdc	15.5	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	298.1	%
Tj=+30°C	Pdc	11.4	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	511.0	%
Tj=+25°C	Pdc	7.3	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	933.0	%
Tj=+20°C	Pdc	4.9	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1942.0	%
Degradation coefficient for air conditioners**	Cdc	0.25	-				
Power consumption in other than 'active mode'							
Off mode	P _{OFF}	0.034	kW	Crankcase heater mode	P _{CK}	0.034	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.034	kW
Other items				For air-to-air air conditioner: air flow-rate,outdoor measured			
Capacity control		variable				4500	m3/h
Sound power level, outdoor	L _{WA}	71.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		2088	kg CO _{2eq} (100years)				
Contact details	Mitsubishi heavy industries thermal systems,LTD						
** If Cdc is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.							
*** from 26 September 2018							
Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							

Information to identify the model(s) to which the information relates : FDC155KXZES1			
Outdoor side heat exchanger of heat pump : air			
Indoor side heat exchanger of heat pump : air			
Indication if the heater is equipped with a supplementary heater : No			
if applicable : electric motor			
Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional.			
Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	15.5	kW
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	9.6	kW
Tj=+2°C	Pdh	5.9	kW
Tj=+7°C	Pdh	3.8	kW
Tj=+12°C	Pdh	3.6	kW
T _{biv} =bivalent temperature	Pdh	10.9	kW
T _{OL} =operation limit	Pdh	8.2	kW
For air-to-water heat pumps : Tj=-15°C (if T _{OL} <-20°C)	Pdh	-	kW
Bivalent temperature	T _{biv}	-10.0	°C
Degradation coefficient heat pumps**	C _{dh}	0.25	-
Power consumption in modes other than 'active mode'			
Off mode	P _{OFF}	0.034	kW
Thermostat-off mode	P _{TO}	0.034	kW
Crankcase heater mode	P _{CK}	0.034	kW
Other items			
Capacity control		variable	
Sound power level, outdoor measured	L _{WA}	74.0	dB
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV
GWP of the refrigerant		2088	kg CO _{2eq} (100years)
Seasonal space heating energy efficiency ηs,h			
		179.0	%
Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj=-7°C	COPd or GUEh,bin / AEFh,bin	313.0	%
Tj=+2°C	COPd or GUEh,bin / AEFh,bin	395.0	%
Tj=+7°C	COPd or GUEh,bin / AEFh,bin	686.0	%
Tj=+12°C	COPd or GUEh,bin / AEFh,bin	913.0	%
T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	286.0	%
T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	235.0	%
For air-to-water heat pumps:Tj=-15°C (if T _{OL} <-20°C)	COPd or GUEh,bin / AEFh,bin	-	%
For water-to-air heat pumps:Operation limit T _a temperature		-	°C
Supplementary heater back-up heating capacity			
	elbu	-	kW
Type of energy input Standby mode			
	P _{SB}	0.034	kW
For air-to-air heat pumps: air flow-rate,outdoor measured			
		4920	m3/h
For water-/brine-to-air heat pumps : Rated brine or water flow-rate, outdoor side heat exchanger			
		-	m3/h
Contact details Mitsubishi heavy industries thermal systems,LTD			
** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.			
*** from 26 September 2018			
Where information relates to multi-split air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.			

6.2 Indoor unit

Model(s) : FDT28KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.7	kW	Total electric power input	P_{elec}	0.020	kW
Cooling capacity (latent)	$P_{rated,c}$	0.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	49.0	dB
Heating capacity	$P_{rated,h}$	3.2	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDT36KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.4	kW	Total electric power input	P_{elec}	0.030	kW
Cooling capacity (latent)	$P_{rated,c}$	0.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	49.0	dB
Heating capacity	$P_{rated,h}$	4.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDT45KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.8	kW	Total electric power input	P_{elec}	0.030	kW
Cooling capacity (latent)	$P_{rated,c}$	0.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	50.0	dB
Heating capacity	$P_{rated,h}$	5.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDT56KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.7	kW	Total electric power input	P_{elec}	0.040	kW
Cooling capacity (latent)	$P_{rated,c}$	0.9	kW	Sound power level (per speed setting,if applicable)	L_{WA}	55.0	dB
Heating capacity	$P_{rated,h}$	6.3	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDT71KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	6.2	kW	Total electric power input	P_{elec}	0.080	kW
Cooling capacity (latent)	$P_{rated,c}$	0.9	kW	Sound power level (per speed setting,if applicable)	L_{WA}	62.0	dB
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDT90KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	7.9	kW	Total electric power input	P_{elec}	0.130	kW
Cooling capacity (latent)	$P_{rated,c}$	1.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0	dB
Heating capacity	$P_{rated,h}$	10.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDT112KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	9.4	kW	Total electric power input	P_{elec}	0.140	kW
Cooling capacity (latent)	$P_{rated,c}$	1.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	66.0	dB
Heating capacity	$P_{rated,h}$	12.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDT140KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	10.7	kW	Total electric power input	P_{elec}	0.140	kW
Cooling capacity (latent)	$P_{rated,c}$	3.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	66.0	dB
Heating capacity	$P_{rated,h}$	16.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDT160KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	11.5	kW	Total electric power input	P_{elec}	0.140	kW
Cooling capacity (latent)	$P_{rated,c}$	4.5	kW	Sound power level (per speed setting,if applicable)	L_{WA}	66.0	dB
Heating capacity	$P_{rated,h}$	18.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUM22KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.1	kW	Total electric power input	P_{elec}	0.100 kW
Cooling capacity (latent)	$P_{rated,c}$	0.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0 dB
Heating capacity	$P_{rated,h}$	2.5	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDUM28KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.7	kW	Total electric power input	P_{elec}	0.100 kW
Cooling capacity (latent)	$P_{rated,c}$	0.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0 dB
Heating capacity	$P_{rated,h}$	3.2	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDUM36KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.3	kW	Total electric power input	P_{elec}	0.100 kW
Cooling capacity (latent)	$P_{rated,c}$	0.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0 dB
Heating capacity	$P_{rated,h}$	4.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDUM45KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.7	kW	Total electric power input	P_{elec}	0.100 kW
Cooling capacity (latent)	$P_{rated,c}$	0.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0 dB
Heating capacity	$P_{rated,h}$	5.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDUM56KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.1	kW	Total electric power input	P_{elec}	0.100 kW
Cooling capacity (latent)	$P_{rated,c}$	1.5	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0 dB
Heating capacity	$P_{rated,h}$	6.3	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDUM71KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	6.0	kW	Total electric power input	P_{elec}	0.200 kW
Cooling capacity (latent)	$P_{rated,c}$	1.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0 dB
Heating capacity	$P_{rated,h}$	8.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDUM90KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	6.7	kW	Total electric power input	P_{elec}	0.200 kW
Cooling capacity (latent)	$P_{rated,c}$	2.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0 dB
Heating capacity	$P_{rated,h}$	10.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDUM112KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	8.6	kW	Total electric power input	P_{elec}	0.290	kW
Cooling capacity (latent)	$P_{rated,c}$	2.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	67.0	dB
Heating capacity	$P_{rated,h}$	12.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUM140KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	11.2	kW	Total electric power input	P_{elec}	0.330	kW
Cooling capacity (latent)	$P_{rated,c}$	2.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	72.0	dB
Heating capacity	$P_{rated,h}$	16.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUM160KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	12.4	kW	Total electric power input	P_{elec}	0.450	kW
Cooling capacity (latent)	$P_{rated,c}$	3.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	76.0	dB
Heating capacity	$P_{rated,h}$	18.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDU224KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	19.7	kW	Total electric power input	P_{elec}	1.180	kW
Cooling capacity (latent)	$P_{rated,c}$	2.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	75.0	dB
Heating capacity	$P_{rated,h}$	25.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDU280KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	21.9	kW	Total electric power input	P_{elec}	1.180	kW
Cooling capacity (latent)	$P_{rated,c}$	6.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	75.0	dB
Heating capacity	$P_{rated,h}$	31.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDK15KXZE1						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	1.2	kW	Total electric power input	P_{elec}	0.020 kW
Cooling capacity (latent)	$P_{rated,c}$	0.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	54.0 dB
Heating capacity	$P_{rated,h}$	1.7	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDK22KXZE1						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	1.8	kW	Total electric power input	P_{elec}	0.020 kW
Cooling capacity (latent)	$P_{rated,c}$	0.4	kW	Sound power level (per speed setting,if applicable)	L_{WA}	55.0 dB
Heating capacity	$P_{rated,h}$	2.5	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDK28KXZE1						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.2	kW	Total electric power input	P_{elec}	0.020 kW
Cooling capacity (latent)	$P_{rated,c}$	0.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	55.0 dB
Heating capacity	$P_{rated,h}$	3.2	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDK36KXZE1						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.8	kW	Total electric power input	P_{elec}	0.030 kW
Cooling capacity (latent)	$P_{rated,c}$	0.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0 dB
Heating capacity	$P_{rated,h}$	4.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDK45KXZE1						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.3	kW	Total electric power input	P_{elec}	0.030 kW
Cooling capacity (latent)	$P_{rated,c}$	1.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0 dB
Heating capacity	$P_{rated,h}$	5.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDK56KXZE1						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.9	kW	Total electric power input	P_{elec}	0.030 kW
Cooling capacity (latent)	$P_{rated,c}$	1.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0 dB
Heating capacity	$P_{rated,h}$	6.3	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDK71KXZE1						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	5.4	kW	Total electric power input	P_{elec}	0.040 kW
Cooling capacity (latent)	$P_{rated,c}$	1.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	59.0 dB
Heating capacity	$P_{rated,h}$	8.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDK90KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	6.5	kW	Total electric power input	P_{elec}	0.050	kW
Cooling capacity (latent)	$P_{rated,c}$	2.5	kW	Sound power level (per speed setting,if applicable)	L_{WA}	61.0	dB
Heating capacity	$P_{rated,h}$	10.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTC15KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	1.3	kW	Total electric power input	P_{elec}	0.020	kW
Cooling capacity (latent)	$P_{rated,c}$	0.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	56.0	dB
Heating capacity	$P_{rated,h}$	1.7	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTC22KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.1	kW	Total electric power input	P_{elec}	0.030	kW
Cooling capacity (latent)	$P_{rated,c}$	0.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	56.0	dB
Heating capacity	$P_{rated,h}$	2.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTC28KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.4	kW	Total electric power input	P_{elec}	0.030	kW
Cooling capacity (latent)	$P_{rated,c}$	0.4	kW	Sound power level (per speed setting,if applicable)	L_{WA}	56.0	dB
Heating capacity	$P_{rated,h}$	3.2	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTC36KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.2	kW	Total electric power input	P_{elec}	0.030	kW
Cooling capacity (latent)	$P_{rated,c}$	0.4	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0	dB
Heating capacity	$P_{rated,h}$	4.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTC45KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.8	kW	Total electric power input	P_{elec}	0.050	kW
Cooling capacity (latent)	$P_{rated,c}$	0.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	5.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTC56KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.4	kW	Total electric power input	P_{elec}	0.050	kW
Cooling capacity (latent)	$P_{rated,c}$	1.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	6.3	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTW28KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.3	kW	Total electric power input	P_{elec}	0.090	kW
Cooling capacity (latent)	$P_{rated,c}$	0.5	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0	dB
Heating capacity	$P_{rated,h}$	3.2	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTW45KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.4	kW	Total electric power input	P_{elec}	0.100	kW
Cooling capacity (latent)	$P_{rated,c}$	1.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0	dB
Heating capacity	$P_{rated,h}$	5.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTW56KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.0	kW	Total electric power input	P_{elec}	0.100	kW
Cooling capacity (latent)	$P_{rated,c}$	1.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0	dB
Heating capacity	$P_{rated,h}$	6.3	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTW71KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.8	kW	Total electric power input	P_{elec}	0.140	kW
Cooling capacity (latent)	$P_{rated,c}$	2.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0	dB
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTW90KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	6.8	kW	Total electric power input	P_{elec}	0.190	kW
Cooling capacity (latent)	$P_{rated,c}$	2.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0	dB
Heating capacity	$P_{rated,h}$	10.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTW112KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	8.1	kW	Total electric power input	P_{elec}	0.190	kW
Cooling capacity (latent)	$P_{rated,c}$	3.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0	dB
Heating capacity	$P_{rated,h}$	12.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTW140KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	9.9	kW	Total electric power input	P_{elec}	0.190	kW
Cooling capacity (latent)	$P_{rated,c}$	4.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0	dB
Heating capacity	$P_{rated,h}$	16.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTS45KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.3	kW	Total electric power input	P_{elec}	0.040	kW
Cooling capacity (latent)	$P_{rated,c}$	1.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	5.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTS71KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	5.0	kW	Total electric power input	P_{elec}	0.090	kW
Cooling capacity (latent)	$P_{rated,c}$	2.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	61.0	dB
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTQ22KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	1.8	kW	Total electric power input	P_{elec}	0.060	kW
Cooling capacity (latent)	$P_{rated,c}$	0.4	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	2.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTQ28KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.1	kW	Total electric power input	P_{elec}	0.060	kW
Cooling capacity (latent)	$P_{rated,c}$	0.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	3.2	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDTQ36KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.5	kW	Total electric power input	P_{elec}	0.060	kW
Cooling capacity (latent)	$P_{rated,c}$	1.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	4.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDFL71KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	5.3	kW	Total electric power input	P_{elec}	0.100	kW
Cooling capacity (latent)	$P_{rated,c}$	1.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	62.0	dB
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDFU28KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.7	kW	Total electric power input	P_{elec}	0.100	kW
Cooling capacity (latent)	$P_{rated,c}$	0.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0	dB
Heating capacity	$P_{rated,h}$	3.2	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDFU45KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.8	kW	Total electric power input	P_{elec}	0.100	kW
Cooling capacity (latent)	$P_{rated,c}$	0.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	5.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDFU56KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.2	kW	Total electric power input	P_{elec}	0.100	kW
Cooling capacity (latent)	$P_{rated,c}$	1.4	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	6.3	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDFU71KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	5.3	kW	Total electric power input	P_{elec}	0.100	kW
Cooling capacity (latent)	$P_{rated,c}$	1.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDU45KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.7	kW	Total electric power input	P_{elec}	0.100 kW
Cooling capacity (latent)	$P_{rated,c}$	0.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0 dB
Heating capacity	$P_{rated,h}$	5.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDU56KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.1	kW	Total electric power input	P_{elec}	0.100 kW
Cooling capacity (latent)	$P_{rated,c}$	1.5	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0 dB
Heating capacity	$P_{rated,h}$	6.3	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDU71KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	6.0	kW	Total electric power input	P_{elec}	0.250 kW
Cooling capacity (latent)	$P_{rated,c}$	1.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0 dB
Heating capacity	$P_{rated,h}$	8.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDU90KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	6.7	kW	Total electric power input	P_{elec}	0.250 kW
Cooling capacity (latent)	$P_{rated,c}$	2.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0 dB
Heating capacity	$P_{rated,h}$	10.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDU112KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	8.6	kW	Total electric power input	P_{elec}	0.320 kW
Cooling capacity (latent)	$P_{rated,c}$	2.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	67.0 dB
Heating capacity	$P_{rated,h}$	12.5	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDU140KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	11.2	kW	Total electric power input	P_{elec}	0.360 kW
Cooling capacity (latent)	$P_{rated,c}$	2.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	72.0 dB
Heating capacity	$P_{rated,h}$	16.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDU160KXE6F						
Item	Symbol	Value	Unit	Item	Symbol	Value Unit
Cooling capacity (sensible)	$P_{rated,c}$	12.4	kW	Total electric power input	P_{elec}	0.430 kW
Cooling capacity (latent)	$P_{rated,c}$	3.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	76.0 dB
Heating capacity	$P_{rated,h}$	18.0	kW			
Contact details	Mitsubishi heavy industries thermal systems,LTD					

Model(s) : FDUT15KXE6F-E							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	1.2	kW	Total electric power input	P_{elec}	0.060	kW
Cooling capacity (latent)	$P_{rated,c}$	0.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	52.0	dB
Heating capacity	$P_{rated,h}$	1.7	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUT22KXE6F-E							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	1.7	kW	Total electric power input	P_{elec}	0.070	kW
Cooling capacity (latent)	$P_{rated,c}$	0.5	kW	Sound power level (per speed setting,if applicable)	L_{WA}	52.0	dB
Heating capacity	$P_{rated,h}$	2.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUT28KXE6F-E							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.0	kW	Total electric power input	P_{elec}	0.070	kW
Cooling capacity (latent)	$P_{rated,c}$	0.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	52.0	dB
Heating capacity	$P_{rated,h}$	3.2	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUT36KXE6F-E							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.5	kW	Total electric power input	P_{elec}	0.070	kW
Cooling capacity (latent)	$P_{rated,c}$	1.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	57.0	dB
Heating capacity	$P_{rated,h}$	4.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUT45KXE6F-E							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.2	kW	Total electric power input	P_{elec}	0.080	kW
Cooling capacity (latent)	$P_{rated,c}$	1.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	58.0	dB
Heating capacity	$P_{rated,h}$	5.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUT56KXE6F-E							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.9	kW	Total electric power input	P_{elec}	0.080	kW
Cooling capacity (latent)	$P_{rated,c}$	1.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	59.0	dB
Heating capacity	$P_{rated,h}$	6.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUT71KXE6F-E							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.9	kW	Total electric power input	P_{elec}	0.080	kW
Cooling capacity (latent)	$P_{rated,c}$	2.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	59.0	dB
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUH22KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	1.8	kW	Total electric power input	P_{elec}	0.060	kW
Cooling capacity (latent)	$P_{rated,c}$	0.4	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	2.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUH28KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.2	kW	Total electric power input	P_{elec}	0.060	kW
Cooling capacity (latent)	$P_{rated,c}$	0.6	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	3.2	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDUH36KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.6	kW	Total electric power input	P_{elec}	0.060	kW
Cooling capacity (latent)	$P_{rated,c}$	1.0	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	4.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDFW28KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.3	kW	Total electric power input	P_{elec}	0.020	kW
Cooling capacity (latent)	$P_{rated,c}$	0.5	kW	Sound power level (per speed setting,if applicable)	L_{WA}	55.0	dB
Heating capacity	$P_{rated,h}$	3.2	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDFW45KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.0	kW	Total electric power input	P_{elec}	0.020	kW
Cooling capacity (latent)	$P_{rated,c}$	1.5	kW	Sound power level (per speed setting,if applicable)	L_{WA}	57.0	dB
Heating capacity	$P_{rated,h}$	5.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDFW56KXE6F							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.8	kW	Total electric power input	P_{elec}	0.030	kW
Cooling capacity (latent)	$P_{rated,c}$	1.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	6.3	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDE36KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.7	kW	Total electric power input	P_{elec}	0.050	kW
Cooling capacity (latent)	$P_{rated,c}$	0.9	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	4.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDE45KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.3	kW	Total electric power input	P_{elec}	0.050	kW
Cooling capacity (latent)	$P_{rated,c}$	1.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	5.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDE56KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.9	kW	Total electric power input	P_{elec}	0.050	kW
Cooling capacity (latent)	$P_{rated,c}$	1.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	6.3	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDE71KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	5.2	kW	Total electric power input	P_{elec}	0.070	kW
Cooling capacity (latent)	$P_{rated,c}$	1.9	kW	Sound power level (per speed setting,if applicable)	L_{WA}	62.0	dB
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDE112KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	7.9	kW	Total electric power input	P_{elec}	0.100	kW
Cooling capacity (latent)	$P_{rated,c}$	3.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	63.0	dB
Heating capacity	$P_{rated,h}$	12.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDE140KXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	9.8	kW	Total electric power input	P_{elec}	0.130	kW
Cooling capacity (latent)	$P_{rated,c}$	4.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	66.0	dB
Heating capacity	$P_{rated,h}$	16.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDU650FKXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.2	kW	Total electric power input	P_{elec}	0.250	kW
Cooling capacity (latent)	$P_{rated,c}$	5.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	62.0	dB
Heating capacity	$P_{rated,h}$	6.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDU1100FKXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.1	kW	Total electric power input	P_{elec}	0.360	kW
Cooling capacity (latent)	$P_{rated,c}$	9.9	kW	Sound power level (per speed setting,if applicable)	L_{WA}	66.0	dB
Heating capacity	$P_{rated,h}$	10.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDU1800FKXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	7.4	kW	Total electric power input	P_{elec}	1.180	kW
Cooling capacity (latent)	$P_{rated,c}$	15.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	70.0	dB
Heating capacity	$P_{rated,h}$	16.0	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : FDU2400FKXZE1							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	9.3	kW	Total electric power input	P_{elec}	1.180	kW
Cooling capacity (latent)	$P_{rated,c}$	18.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	73.0	dB
Heating capacity	$P_{rated,h}$	21.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : SAF-DX250E6							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	1.3	kW	Total electric power input	P_{elec}	0.007	kW
Cooling capacity (latent)	$P_{rated,c}$	0.7	kW	Sound power level (per speed setting,if applicable)	L_{WA}	-	dB
Heating capacity	$P_{rated,h}$	1.8	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : SAF-DX350E6							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	1.8	kW	Total electric power input	P_{elec}	0.007	kW
Cooling capacity (latent)	$P_{rated,c}$	1.0	kW	Sound power level (per speed setting,if applicable)	L_{WA}	-	dB
Heating capacity	$P_{rated,h}$	2.2	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : SAF-DX500E6							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	2.4	kW	Total electric power input	P_{elec}	0.007	kW
Cooling capacity (latent)	$P_{rated,c}$	1.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	-	dB
Heating capacity	$P_{rated,h}$	2.8	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : SAF-DX800E6							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.7	kW	Total electric power input	P_{elec}	0.007	kW
Cooling capacity (latent)	$P_{rated,c}$	1.9	kW	Sound power level (per speed setting,if applicable)	L_{WA}	-	dB
Heating capacity	$P_{rated,h}$	4.5	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

Model(s) : SAF-DX1000E6							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.2	kW	Total electric power input	P_{elec}	0.007	kW
Cooling capacity (latent)	$P_{rated,c}$	2.1	kW	Sound power level (per speed setting,if applicable)	L_{WA}	-	dB
Heating capacity	$P_{rated,h}$	5.6	kW				
Contact details	Mitsubishi heavy industries thermal systems,LTD						

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