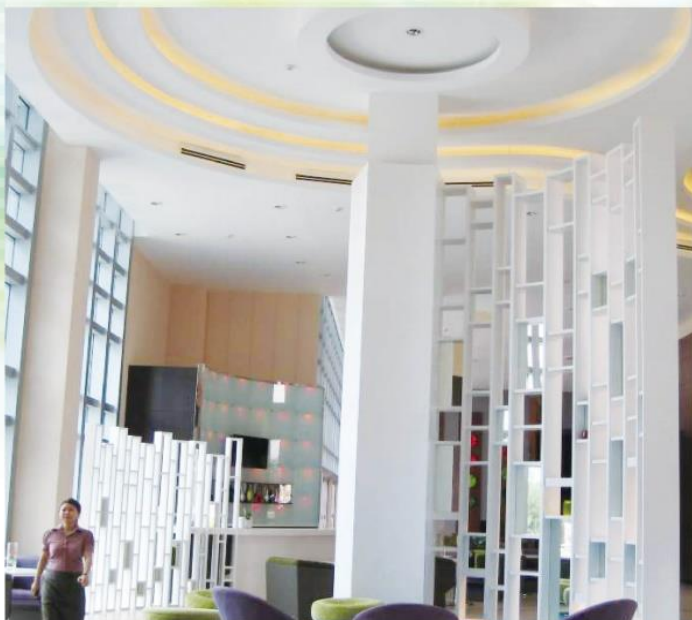


DUCT CONNECTED -High Static pressure- FDU



FDU 71/100/125/140



FDU 200/250
Tropical Usage Mode

Remote control (option)

Wired



RC-EX3A



RC-E5



RCH-E3

Wireless



RCN-KIT4-E2

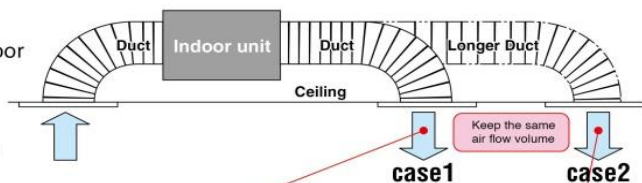


*Not all functions are available with all remote control options.

Point
1

Automatic external static pressure (E.S.P.) control

You can set External Static Pressure (E.S.P.) by method of manual setting on remote control. Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of the duct connected.



Expansion of
external static
pressure range

Previous
10~130Pa



Current
10~200Pa

RC-E5 E.S.P. button

External Static Pressure (E.S.P.) can be set by E.S.P. button.



Setting No.	No.8	No.9	No.10	No.11	No.12	No.13	No.14	No.15
E.S.P.	80Pa	90Pa	100Pa	110Pa	120Pa	130Pa	140Pa	150Pa

*Range of 80~150 Pa is set at ex-factory default.
Range of 10~200 Pa is available by setting SW8-4 switch on at site.

Point
2

More quiet noise

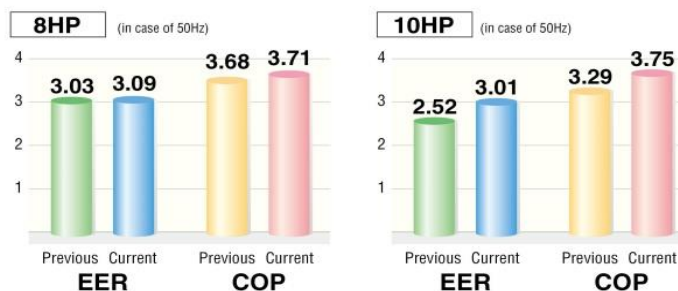
Thanks to use of DC fan motor, fan steps increase from two to four and quiet operation is achieved.(FDU200/250)

	Previous	Current	Lo mode
FDU71	37	➔ 25	12dB(A) less!!
FDU100	38	➔ 30	8dB(A) less!!
FDU200	51	➔ 45	6dB(A) less!!

Point
3

High efficiency

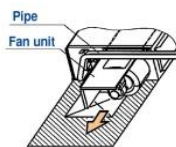
Energy efficiency is improved by use of DC fan motor & high efficient heat exchanger.



Point
4

Improvement of the serviceability

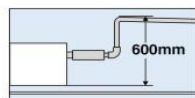
Fan unit (impeller and motor) can be pulled out from the right side of the unit. Maintenance can be available from the right side or the bottom side.



Point
5

Enhanced installation workability

600mm Drain Pump is mounted in FDU71/100/125/140. The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



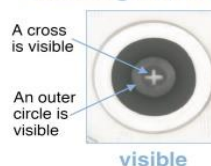
Point
6

Transparent inspection window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan.

Cleaning not required

Cleaning required



Round duct adapter (Available for FDU71~140VF)

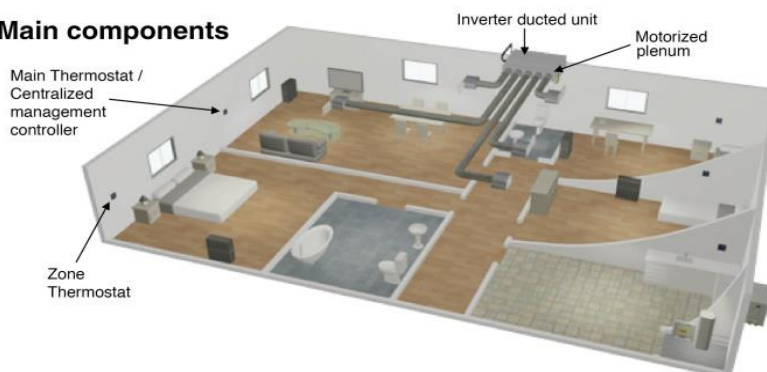


Company: AIRZONE
URL: <http://www.airzone.es>

All-in-one solution: the whole zoning system in a plug&play device perfectly adapted to the indoor DX unit



Main components

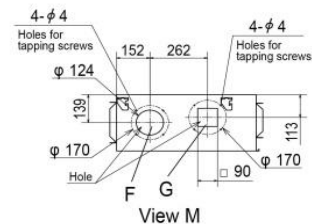
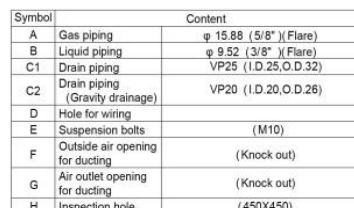


OUTDOOR UNIT

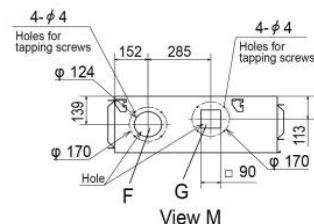
	Hyper Inverter		Micro Inverter		
	71VNX	100~140VN(S)X	100~140VN(S)A	200VSA	250VSA
FDC					
model					
Chargeless	30m		30m		
Height x Width x Depth (mm)	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

	Standard Inverter		
	71VNP	90VNP1	100VNP
FDC			
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

Model FDU71VF1

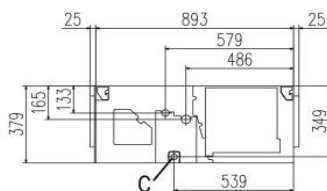
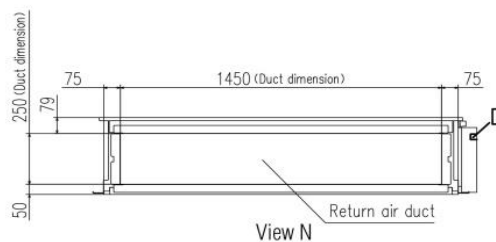
[illegible]

Symbol	Content
A	Gas piping φ 15.88 (5/8") (Flare)
B	Liquid piping φ 9.52 (3/8") (Flare)
C1	Drain piping VP25 (I.D. 25, O.D. 32)
C2	Drain piping (Gravity drainage) VP20 (I.D. 20, O.D. 26)
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting (Knock out)
G	Air outlet opening for ducting (Knock out)
H	Inserting hole (450Y450)



Technical drawing of the air supply duct, showing dimensions and labels:

- Top View:**
 - Overall width: 1600
 - Distance from side wall to centerline: 17
 - Distance between suspension bolts: 1634 (Suspension bolts pitch)
 - Distance from centerline to side wall: 17
 - Distance from top wall to suspension bolt: 31
 - Distance from suspension bolt to top wall: 831 (Suspension bolts pitch)
 - Distance from suspension bolt to side wall: 85
 - Control box (indicated by label A)
 - Label B points to a component on the right side.
 - Bottom wall thickness: 80
- Side View:**
 - Overall height: 250 (Duct dimension)
 - Distance from top wall to air supply duct: 50
 - Distance from air supply duct to bottom wall: 6
 - Distance from side wall to air supply duct: 75
 - Air supply duct (indicated by label E)
 - Overall width: 1450 (Duct dimension)
 - Distance from side wall to air supply duct: 75
 - Distance from air supply duct to bottom wall: 50
 - Distance from side wall to air supply duct: 165
 - Distance from air supply duct to bottom wall: 133
 - Overall height: 379
- Labels:**
 - Hanger plate for suspension bolt
 - Control box
 - A
 - B
 - E
 - Air supply duct



Symbol	Content		
	MODEL	200	250
A	Gas piping	ø25.4 (1")	(Brazing)
B	Liquid piping	ø32 (3/8")	(Brazing) ø12 (1/2") (Brazing)
C	Drain piping (Gravity drainage)	VP25 (0.0.32)	
D	Hole for wiring		
E	Suspension bolts	M10	
F	Inspection hole	(450X450)	

SPECIFICATIONS

				<i>Hyper Inverter</i>			
Set model name				FDU71VNXVF1	FDU100VNXVF2	FDU125VNXVF	FDU140VNXVF
Indoor unit				FDU71VF1	FDU100VF2	FDU125VF	FDU140VF
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW		7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)		kW		8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)
Power consumption	Cooling/Heating	kW		2.05 / 2.01	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42
EER/COP	Cooling/Heating			3.46 / 3.98	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62
Inrush current				5	5	5	5
Max. current		A		17	25	29	30
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Indoor	Cooling/Heating	m³/min	51 / 48	48 / 50	48 / 50	49 / 52
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)		24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Indoor	Heating (P-Hi/Hi/Me/Lo)	m³/min	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100
External static pressure*2		Pa		Standard:35 Max:200			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635			
	Outdoor			750 x 880(+88) x 340			
Net weight	Indoor		kg	34			
	Outdoor			60			
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m		Max.50			
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C		-15~43*3			
	Heating			-20~20			
Air filter				Procure locally			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

				<i>Hyper Inverter</i>			
Set model name				FDU100VSXVF2	FDU125VSXVF	FDU140VSXVF	
Indoor unit				FDU100VF2	FDU125VF	FDU140VF	
Outdoor unit				FDC100VSX	FDC125VSX	FDC140VSX	
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW		10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min~Max)		kW		11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	
Power consumption	Cooling/Heating	kW		2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP	Cooling/Heating			3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush current				5	5	5	
Max. current		A		16	18	19	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	
	Outdoor	Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	
Air flow	Indoor	Cooling/Heating	m³/min	48 / 50	48 / 50	49 / 52	
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)		36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	
	Indoor	Heating (P-Hi/Hi/Me/Lo)	m³/min	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	
External static pressure*2		Pa		Standard:60 Max:200			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740			
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	54			
	Outdoor			105			
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m		Max.100			
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C		-15~43*3			
	Heating			-20~20			
Air filter				Procure locally			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

NOTES:

- The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.
*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

			Micro Inverter						
Set model name				FDU100VNAVF2	FDU125VNAVF	FDU140VNAVF	FDU100VSAVF2	FDU125VSAVF	FDU140VSAVF
Indoor unit				FDU100VF2	FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP		Cooling/Heating		3.52 / 4.03	2.87 / 3.79	2.76 / 3.68	3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current			A	5	5	5	5	5	5
Max. current				26	26	27	17	17	18
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating	m³/min	54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59
	Air flow	Indoor		Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20
		Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	
		Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*2			Pa	Standard:60 Max:200					
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740					
	Outdoor			845 x 970 x 370					
Net weight	Indoor		kg	54					
	Outdoor			80			82		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max.50					
Vertical height differences			m	Max.50 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~50*3					
	Heating			-20~20					
Air filter				Procure locally					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2					

			Micro Inverter		Standard Inverter		
Set model name			FDU200VSAVG	FDU250VSAVG	FDU71VNPVF1	FDU90VNP1VF2	FDU100VNP1VF2
Indoor unit			FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2
Outdoor unit			FDC200VSA	FDC250VSA	FDC71VNP	FDC90VNP1	FDC100VNP
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW 22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption			kW 6.15 / 6.03	7.98 / 7.20	2.60 / 1.89	2.69 / 2.25	3.00 / 2.93
EER/COP	Cooling/Heating		3.09 / 3.71	3.01 / 3.75	2.73 / 3.76	3.35 / 4.00	3.33 / 3.82
Inrush current			A 5	5	5	5	5
Max. current			A 25	27	14.5	18.0	22.0
Sound power level* ¹	Indoor	Cooling/Heating	dB(A)	75 / 75	75 / 75	65 / 65	65 / 65
	Outdoor	Cooling/Heating		72 / 74	73 / 75	67 / 67	69 / 69
Sound pressure level* ¹	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	52 / 50 / 47 / 45	52 / 50 / 47 / 45	38 / 33 / 29 / 25	44 / 38 / 36 / 30
	Indoor	Heating (P-Hi/Hi/Me/Lo)		52 / 50 / 47 / 45	52 / 50 / 47 / 45	38 / 33 / 29 / 25	44 / 38 / 36 / 30
Air flow	Outdoor	Cooling/Heating	m³/min	57 / 59	59 / 62	54 / 54	57 / 55
	Indoor	Cooling (P-Hi/Hi/Me/Lo)		80 / 72 / 64 / 56	80 / 72 / 64 / 56	24 / 19 / 15 / 10	36 / 28 / 25 / 19
		Heating (P-Hi/Hi/Me/Lo)		80 / 72 / 64 / 56	80 / 72 / 64 / 56	24 / 19 / 15 / 10	36 / 28 / 25 / 19
	Outdoor	Cooling/Heating		135 / 135	143 / 151	36 / 36	63 / 49.5
External static pressure* ²			Pa	Standard:72 Max:200		Standard:35 Max:200	Standard:60 Max:200
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	379 x 1,600 x 893		280 x 950 x 635	280 x 1,370 x 740
	Outdoor			1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor		kg	89		34	54
	Outdoor			115	143	45	57
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 25.4(1")	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.70		Max.30	
Vertical height differences			m	Max.30 / Max.15		Max.20 / Max.20	
Outdoor operating temperature range	Cooling		°C	-15~50* ³		-15~46* ³	
	Heating			-15~20		-15~20	
Air filter				Procure locally		Procure locally	
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-F2		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2	

NOTES:

The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.
*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.