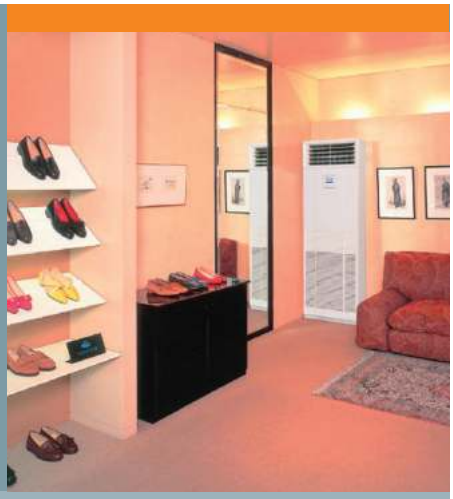
FDF

Intdoor Unit

Floor Standing

New

FDF 71/100/125/140



Energy Saving

Home Leave

Hi Power

Vertical Auto Swing

Weekly Timer

Favourite Setting

R32

R410A

Remote control

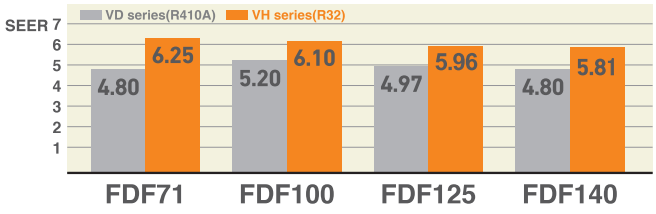
Wired	Wireless
(installed)	RCN-KIT4-E2 (option)

*Not all functions available with all remote control options.

*The remote control for the FDF-VD series will be RC-E5 type remote.

High Efficiency

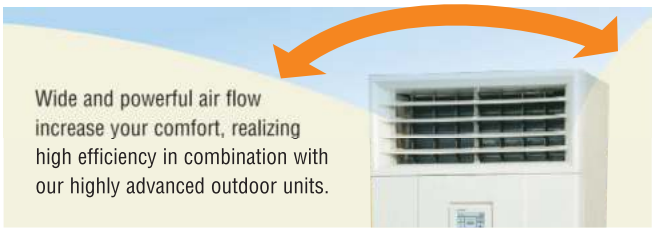
Energy efficiency is improved by New heat exchanger design (In case of Hyper INV).



Improved operability and visibility

Equipped with eco-touch remote control as standard equipment.
Various functions can now be controlled. (VH series)

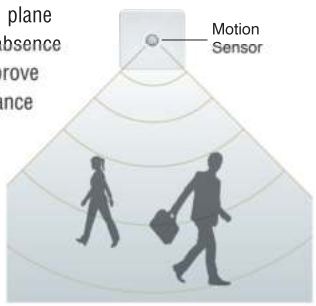
Wide and Powerful Air Flow



Motion Sensor (Option)

Motion sensor is equipped in the ceiling plane or wall plane and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.

LB-KIT2



Equipped with a leak detector device

Can now be safely used with the new refrigerant detector that detects leakage of the refrigerant. (VH series)

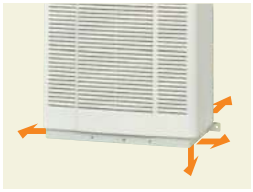
Remote control will integrate leak detector functions:
Audible and visible alarm

Leak detector

inside

Easy Transportation and Installation Workability

Piping and drain hose connection can be selected out of 4-directions and the selection makes installation workability more effective.
Due to slim design (Depth: 329mm, weight:49kg), easy transportation and installation are realized.



Easy Maintenance

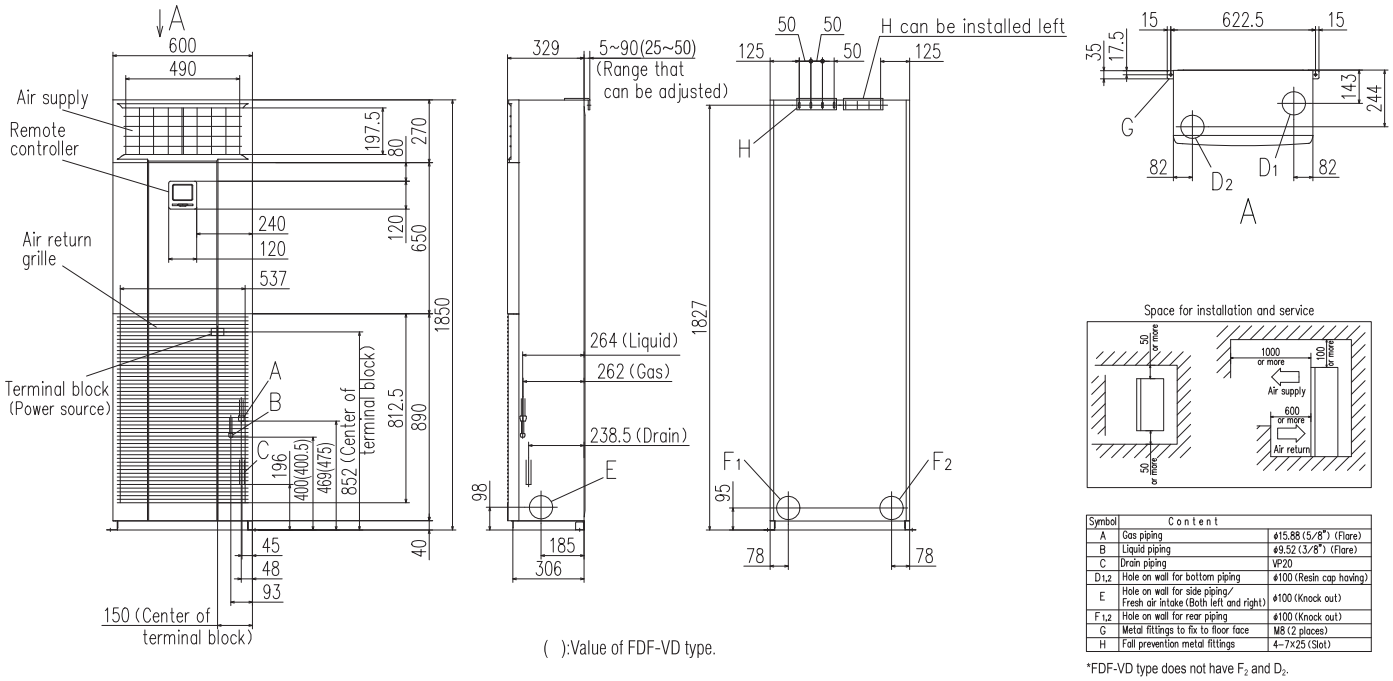
The surface of heat exchanger can be appeared only removing the front panel. Easy cleaning of heat exchanger is possible.

OUTDOOR UNIT

		Hyper Inverter	
FDC		71VNX-W	100~140VN(S)X-W
	R410A	71VNX	100~140VN(S)X
model			
Chargeless		30m	
Height x Width x Depth (mm)		750 x 880(+88) x 340	1,300 x 970 x 370

		Micro Inverter			Standard Inverter		
FDC		100~140VN(S)A-W	–	200·250·280VSA-W	71VNP-W	90·100VNP-W	–
	R410A	100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model				New			
Chargeless		30m			15m		
Height x Width x Depth (mm)		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS (Unit:mm) - FDF -



Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C	Drain piping	VP20
$D_{1,2}$	Hole on wall for bottom piping	ϕ100 (Resin cap having)
E	Hole on wall for side piping/ Fresh air intake (Both left and right)	ϕ100 (Knock out)
$F_{1,2}$	Hole on wall for rear piping	ϕ100 (Knock out)
G	Metal fittings to fix to floor face	M8 (2 places)
H	Fall prevention metal fittings	4–7×25 (Slot)

*FDF-VD type does not have F_2 and D_2.

SPECIFICATIONS - FDF -

R32				Hyper Inverter			
Set model name				FDF71VNXWVH	FDF100VNXWVH	FDF125VNXWVH	FDF140VNXWVH
Indoor unit				FDF71VH	FDF100VH	FDF125VH	FDF140VH
Outdoor unit				FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	7.1 (3.2 ~ 8.0)	10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	8.0 (3.6 ~ 9.0)	11.2 (2.7 ~ 12.5)	14.0 (2.7 ~ 17.0)	16.0 (2.7 ~ 18.0)
Power consumption		Cooling/Heating	kW	1.97 / 2.21	2.66 / 2.94	3.74 / 3.88	4.62 / 4.69
EER/COP		Cooling/Heating		3.61 / 3.62	3.76 / 3.81	3.34 / 3.61	3.03 / 3.41
Inrush current			A	5	5	5	5
Max. current				19.1	25.0	27.0	27.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	55 / 55	65 / 65	67 / 67	67 / 67
	Outdoor	Cooling/Heating		66 / 66	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating		51 / 51	53 / 51	53 / 54	54 / 54
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	18 / 16 / 14 / 12	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		18 / 16 / 14 / 12	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329			
	Outdoor			750 × 880(+88) × 340	1,300 x 970 x 370		
Net weight	Indoor		kg	47	49		
	Outdoor			60	97		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.50	Min. 3, Max.100		
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15	Max.50 / Max.15		
Outdoor operating temperature range		Cooling	°CDB	-15~50*2			
		Heating	°CWB	-20~20			
Air filter, Q'ty				Plastic net ×1(Washable)			
Remote control (option)				wired : RC-EX3A, RC-E5, RCH-E3 wireless : RCN-KIT4-E2			

R32				Hyper Inverter		
Set model name				FDF100VSXWVH	FDF125VSXWVH	FDF140VSXWVH
Indoor unit				FDF100VH	FDF125VH	FDF140VH
Outdoor unit				FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (3.5 ~ 11.2)	12.5 (3.5 ~ 14.0)	14.0 (3.5 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	11.2 (2.7 ~ 16.0)	14.0 (2.7 ~ 18.0)	16.0 (2.7 ~ 20.0)
Power consumption		Cooling/Heating	kW	2.66 / 2.95	3.74 / 3.88	4.62 / 4.70
EER/COP		Cooling/Heating		3.76 / 3.80	3.34 / 3.61	3.03 / 3.41
Inrush current			A	5	5	5
Max. current				14.0	14.0	14.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	67 / 67
	Outdoor	Cooling/Heating		67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)		53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating		53 / 51	53 / 54	54 / 54
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329		
	Outdoor			1300 × 970 × 370		
Net weight	Indoor		kg	49		
	Outdoor			99		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Min. 3, Max.100		
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range		Cooling	°CDB	-15~50*2		
		Heating	°CWB	-20~20		
Air filter, Q'ty				Plastic net x 1(washable)		
Remote control (option)				wired : RC-EX3A, RC-E5, RCH-E3 wireless : RCN-KIT4-E2		

NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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 : 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.
*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R32				Hyper Inverter	
Set model name				FDF140VNXWPVH	FDF140VSXWPVH
				Twin	
Indoor unit				FDF71VH x 2	FDF71VH x 2
Outdoor unit				FDC140VNX-W	FDC140VSX-W
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			kW	14.0 (3.5 ~ 16.0)	14.0 (3.5 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	16.0 (2.7 ~ 18.0)	16.0 (2.7 ~ 20.0)
Power consumption		Cooling/Heating	kW	3.78 / 4.26	3.78 / 4.27
EER/COP		Cooling/Heating		3.71 / 3.75	3.71 / 3.75
Inrush current			A	5	5
Max. current				27.0	14.0
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	55 / 55	55 / 55
	Outdoor	Cooling/Heating		69 / 71	69 / 71
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33
	Outdoor	Cooling/Heating		54 / 54	54 / 54
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	18 / 16 / 14 / 12	18 / 16 / 14 / 12
		Heating (P-Hi/Hi/Me/Lo)		18 / 16 / 14 / 12	18 / 16 / 14 / 12
	Outdoor	Cooling/Heating		100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329	
	Outdoor			1300 × 970 × 370	
Net weight	Indoor		kg	47	
	Outdoor			97	99
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Min. 3, Max.100	
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15	
Outdoor operating temperature range		Cooling	°CDB	-15~50*2	
		Heating	°CWB	-20~20	
Air filter, Q'ty				Plastic net ×1(Washable)	
Remote control (option)				wired : RC-EX3A, RC-E5, RCH-E3 wireless : RCN-KIT4-E2	

R410A				Hyper Inverter			
Set model name				FDF71VNXVD1	FDF100VNXVD2	FDF125VNXVD	FDF140VNXVD
Indoor unit				FDF71VD1	FDF100VD2	FDF125VD	FDF140VD
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	2.21 / 2.21	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69
EER/COP		Cooling/Heating		3.21 / 3.62	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41
Inrush current			A	5	5	5	5
Max. current				17	24	26	26
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329			
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor		kg	49	52		
	Outdoor			60	105		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.50	Max.100		
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range		Cooling	°CDB	-15~43*2			
		Heating	°CWB	-20~20			
Air filter, Q'ty				Plastic net x 1(washable)			
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

SPECIFICATIONS - FDF -

R410A				Hyper Inverter		
Set model name				FDF100VSXVD2	FDF125VSXVD	FDF140VSXVD
Indoor unit				FDF100VD2	FDF125VD	FDF140VD
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	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69
EER/COP		Cooling/Heating		3.53 / 3.68	3.21 / 3.61	3.01 / 3.41
Inrush current			A	5	5	5
Max. current				15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329		
	Outdoor			1,300 x 970 x 370		
Net weight	Indoor		kg	52		
	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	°CDB	-15~43*2		
		Heating	°CWB	-20~20		
Air filter, Q'ty				Plastic net x 1(washable)		
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

The values are for simultaneous Multi operation.

R410A				Hyper Inverter	
Set model name				FDF140VNXPVD1	FDF140VSXPVD1
				Twin	
Indoor unit				FDF71VD1 x 2	FDF71VD1 x 2
Outdoor unit				FDC140VNX	FDC140VSX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V 60Hz
Nominal cooling capacity (Min~Max)			kW	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	4.83 / 4.97	4.83/ 4.97
EER/COP		Cooling/Heating		2.90 / 3.22	2.90 / 3.22
Inrush current			A	5	5
Max. current				26	15
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	61 / 61	61 / 61
	Outdoor	Cooling/Heating		72 / 72	72 / 72
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33
	Outdoor	Cooling/Heating		49 / 52	49 / 52
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	18 / 16 / 14 / 12	18 / 16 / 14 / 12
		Heating (P-Hi/Hi/Me/Lo)		18 / 16 / 14 / 12	18 / 16 / 14 / 12
	Outdoor	Cooling/Heating		100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329	
	Outdoor			1,300 x 970 x 370	
Net weight	Indoor		kg	49	
	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	°CDB	-15~43*2	
		Heating	°CWB	-20~20	
Air filter, Q'ty				Plastic net x 1(washable)	
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)	

NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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 : 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.
*3 : The values are for one indoor unit operation. (Multi system only)

R32				Micro Inverter		
Set model name				FDF100VNAWVH	FDF125VNAWVH	FDF140VNAWVH
Indoor unit				FDF100VH	FDF125VH	FDF140VH
Outdoor unit				FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Power source				1 Phase 220-240V, 50Hz / 220V, 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)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	3.08 / 2.94	4.65 / 4.10	5.35 / 4.98
EER/COP		Cooling/Heating		3.25 / 3.81	2.69 / 3.42	2.54 / 3.11
Inrush current			A	5	5	5
Max. current				24.0	24.0	24.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	67 / 67
	Outdoor	Cooling/Heating		69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)		53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating		54 / 55	54 / 56	56 / 58
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329		
	Outdoor			845 × 970 × 370		
Net weight	Indoor		kg	49		
	Outdoor			77		
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.50 / Max.15		
Outdoor operating temperature range		Cooling	°CDB	-15~50*2		
		Heating	°CWB	-20~20		
Air filter, Q'ty				Plastic net ×1(Washable)		
Remote control (option)				wired : RC-EX3A, RC-E5, RCH-E3 wireless : RCN-KIT4-E2		

R32				Micro Inverter		
Set model name				FDF100VSAWVH	FDF125VSAWVH	FDF140VSAWVH
Indoor unit				FDF100VH	FDF125VH	FDF140VH
Outdoor unit				FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
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)	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)
Power consumption		Cooling/Heating	kW	3.09 / 2.94	4.65 / 4.09	5.42 / 4.98
EER/COP		Cooling/Heating		3.25 / 3.81	2.69 / 3.42	2.51 / 3.11
Inrush current			A	5	5	5
Max. current				15.0	15.0	15.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	67 / 67
	Outdoor	Cooling/Heating		69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)		53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating		54 / 55	54 / 56	56 / 58
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329		
	Outdoor			845 × 970 × 370		
Net weight	Indoor		kg	49		
	Outdoor			78		
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.50 / Max.15		
Outdoor operating temperature range		Cooling	°CDB	-15~50*2		
		Heating	°CWB	-20~20		
Air filter, Q'ty				Plastic net x 1(Washable)		
Remote control (option)				wired : RC-EX3A, RC-E5, RCH-E3 wireless : RCN-KIT4-E2		

SPECIFICATIONS - FDF -

The values are for simultaneous Multi operation.

R32				Micro Inverter				
Set model name				FDF140VNAWPVH	FDF140VSAWPVH	FDF200VSAWPVH	FDF250VSAWPVH	FDF280VSAWPVH
				Twin				
Indoor unit				FDF71VH x 2	FDF71VH x 2	FDF100VH x 2	FDF125VH x 2	FDF140VH x 2
Outdoor unit				FDC140VNA-W	FDC140VSA-W	FDC200VSA-W	FDC250VSA-W	FDC280VSA-W
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)	20.0 (6.8 ~ 22.4)	25.0 (6.8 ~ 28.0)	27.0 (7.5 ~ 31.5)
Nominal heating capacity (Min~Max)			kW	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)	22.4 (6.6 ~ 25.0)	28.0 (5.7 ~ 31.5)	30.0 (6.3 ~ 33.5)
Power consumption		Cooling/Heating	kW	4.46 / 4.49	4.58 / 4.49	6.71 / 6.06	9.54 / 8.37	10.93 / 9.47
EER/COP		Cooling/Heating		3.05 / 3.46	3.05 / 3.46	2.98 / 3.69	2.62 / 3.35	2.47 / 3.17
Inrush current			A	5	5	5	5	5
Max. current				24.0	15.0	19.0	20.0	20.0
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	55 / 55	55 / 55	65 / 65	67 / 67	67 / 67
	Outdoor	Cooling/Heating		72 / 73	72 / 73	72 / 74	73 / 75	75 / 77
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33	53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33	53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating		56 / 58	56 / 58	58 / 59	58 / 62	61 / 63
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	18 / 16 / 14 / 12	18 / 16 / 14 / 12	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		18 / 16 / 14 / 12	18 / 16 / 14 / 12	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		75 / 73	75 / 73	148 / 134	148 / 153	136 / 140
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329				
	Outdoor			845 × 970 × 370		1505 × 970 × 370		
Net weight	Indoor		kg	47		49		
	Outdoor			77	78	144	145	155
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	
Refrigerant line (one way) length			m	Max.50		Max.70		Max.60
Vertical height differences	Outdoor is higher/lower		m	Max.50 / Max.15		Max.50*4 / Max.15		
Outdoor operating temperature range	Cooling		°CDB	-15~50*2				
	Heating		°CWB	-20~20				
Air filter, Q'ty				Plastic net ×1(Washable)				
Remote control (option)				wired : RC-EX3A, RC-E5, RCH-E3 wireless : RCN-KIT4-E2				

R410A				Micro Inverter		
Set model name				FDF100VNAVD2	FDF125VNAVD	FDF140VNAVD
Indoor unit				FDF100VD2	FDF125VD	FDF140VD
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 13.0)	13.0 (5.0 ~ 13.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	3.12 / 2.94	4.65 / 4.14	5.02 / 4.98
EER/COP		Cooling/Heating		3.21 / 3.81	2.69 / 3.38	2.59 / 3.11
Inrush current			A	5	5	5
Max. current				24	24	24
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329		
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	52		
	Outdoor			80		
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.50 / Max.15		
Outdoor operating temperature range	Cooling		°CDB	-15~50*2		
	Heating		°CWB	-20~20		
Air filter, Q'ty				Plastic net x 1(Washable)		
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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 : 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.
*3 : The values are for one indoor unit operation. (Multi system only)
*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≦ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

R410A				Micro Inverter		
Set model name				FDF100VSAVD2	FDF125VSAVD	FDF140VSAVD
Indoor unit				FDF100VD2	FDF125VD	FDF140VD
Outdoor unit				FDC100VSA	FDC125VSA	FDC140VSA
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)	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)
Power consumption		Cooling/Heating	kW	3.12 / 2.94	4.65/ 4.14	5.42 / 4.98
EER/COP		Cooling/Heating		3.21 / 3.81	2.69 / 3.38	2.51 / 3.11
Inrush current			A	5	5	5
Max. current				15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329		
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	52		
	Outdoor			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		Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range		Cooling	°CDB	-15~50*2		
		Heating	°CWB	-20~20		
Air filter, Q'ty				Plastic net x 1(Washable)		
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

The values are for simultaneous Multi operation.

R410A				Micro Inverter			
Set model name				FDF140VNAPVD1	FDF140VSAPVD1	FDF200VSAPVD2	FDF250VSAPVD
				Twin			
Indoor unit				FDF71VD1 x 2	FDF71VD1 x 2	FDF100VD2 x 2	FDF125VD x 2
Outdoor unit				FDC140VNA	FDC140VSA	FDC200VSA	FDC250VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)
Nominal heating capacity (Min~Max)			kW	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)
Power consumption		Cooling/Heating	kW	5.15 / 4.35	5.15 / 4.35	6.74 / 6.42	9.15 / 8.49
EER/COP		Cooling/Heating		2.64 / 3.56	2.64 / 3.56	2.82 / 3.49	2.62 / 3.18
Inrush current			A	5	5	5	5
Max. current				24	15	20	21
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	61 / 61	61 / 61	65 / 65	73 / 73
	Outdoor	Cooling/Heating		73 / 73	73 / 73	72 / 74	73 / 75
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		57 / 59	57 / 59	58 / 59	59 / 62
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		75 / 73	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329			
	Outdoor			845 x 970 x 370		1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		kg	49		52	
	Outdoor			80	82	115	143
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.50		Max.70	
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15		Max.30 / Max.15	
Outdoor operating temperature range		Cooling	°CDB	-15~50*2			
		Heating	°CWB	-20~20		-15~20	
Air filter, Q'ty				Plastic net x 1(washable)			
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

SPECIFICATIONS - FDF -

R32				Standard Inverter		
Set model name				FDF71VNPWVH	FDF90VNPWVH	FDF100VNPWVH
Indoor unit				FDF71VH	FDF100VH	FDF100VH
Outdoor unit				FDC71VNP-W	FDC90VNP-W	FDC100VNP-W
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	7.1 (1.5 ~ 7.3)	9.0 (2.1 ~ 9.5)	10.0 (2.1 ~ 10.2)
Nominal heating capacity (Min~Max)			kW	7.1 (1.1 ~ 7.3)	9.0 (1.7 ~ 9.5)	10.0 (1.7 ~ 10.4)
Power consumption		Cooling/Heating	kW	2.51 / 2.02	2.50 / 2.24	3.39 / 2.71
EER/COP		Cooling/Heating		2.82 / 3.51	3.60 / 4.02	2.95 / 3.69
Inrush current			A	5	5	5
Max. current				15.8	19.0	19.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	55 / 55	65 / 65	65 / 65
	Outdoor	Cooling/Heating		67 / 67	67 / 66	68 / 67
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	53 / 51 / 49 / 44	53 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	53 / 51 / 49 / 44	53 / 51 / 49 / 44
	Outdoor	Cooling/Heating		54 / 54	55 / 53	56 / 54
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	18 / 16 / 14 / 12	27 / 26 / 23 / 19	27 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		18 / 16 / 14 / 12	27 / 26 / 23 / 19	27 / 26 / 23 / 19
	Outdoor	Cooling/Heating		42 / 42	59 / 55	63 / 55
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329		
	Outdoor			640×800(+71)×290	750×880(+88)×340	
Net weight	Indoor		kg	47	49	49
	Outdoor			45	57	
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	
Refrigerant line (one way) length			m	26	25	
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range		Cooling	°CDB	-15~46*2		
		Heating	°CWB	-15~20		
Air filter, Q'ty				Plastic net ×1(Washable)		
Remote control (option)				wired : RC-EX3A, RC-E5, RCH-E3 wireless : RCN-KIT4-E2		

R410A				Standard Inverter		
Set model name				FDF71VNPVD1	FDF90VNP1VD2	FDF100VNP1VD2
Indoor unit				FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit				FDC71VNP	FDC90VNP1	FDC100VNP
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption		Cooling/Heating	kW	2.67 / 2.04	2.81 / 2.25	3.19 / 3.09
EER/COP		Cooling/Heating		2.66 / 3.48	3.20 / 4.00	3.13 / 3.62
Inrush current			A	5	5	5
Max. current				14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65	65 / 65
	Outdoor	Cooling/Heating		67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		54 / 54	57 / 55	57 / 61
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 × 600 × 329		
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg	49	52	
	Outdoor			45	57	70
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.23		Max.30
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range		Cooling	°CDB	-15~46*2		
		Heating	°CWB	-15~20		
Air filter, Q'ty				Plastic net x1(Washable)		
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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 : 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.