

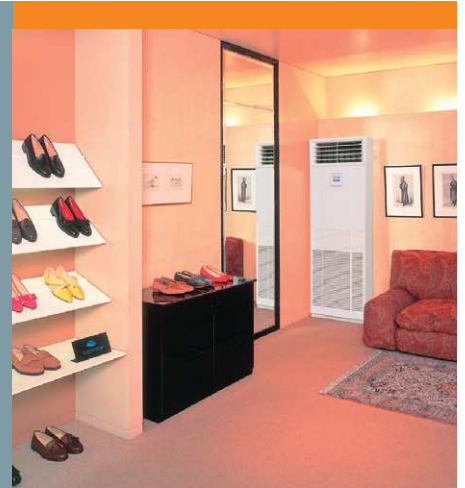
# FDF

## Indoor Unit Floor Standing

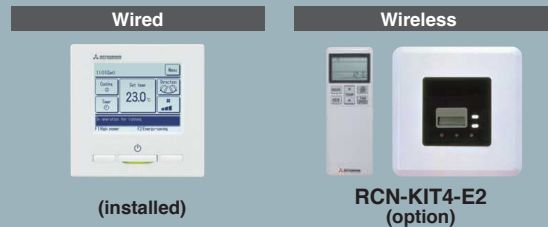
New



FDF 71/100/125/140



### Remote control

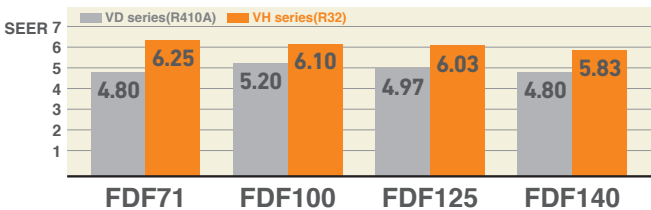


\*Not all functions available with all remote control options.

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

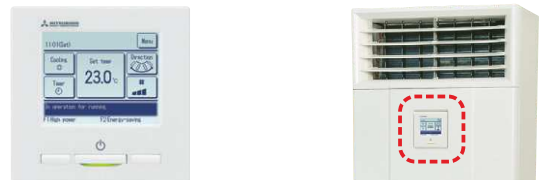
## High Efficiency

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

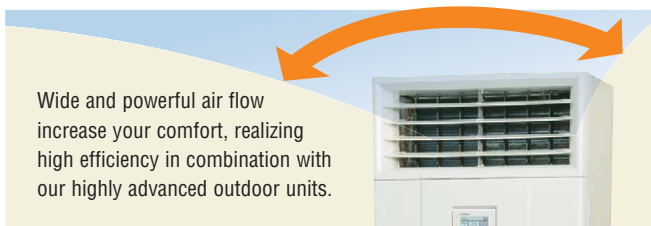


## Improved operability and visibility

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



## Wide and Powerful Air Flow



## Equipped with a leak detector device

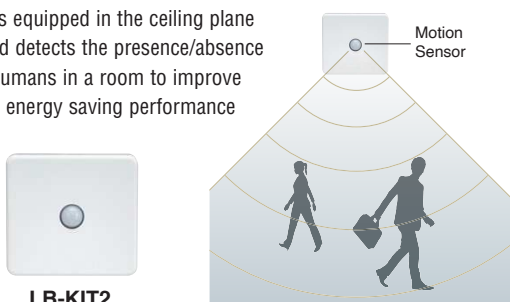
Can now be safely used with the new refrigerant detector that detects leakage of the refrigerant. (VH series)

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



## 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.



### Leak detector



# 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.

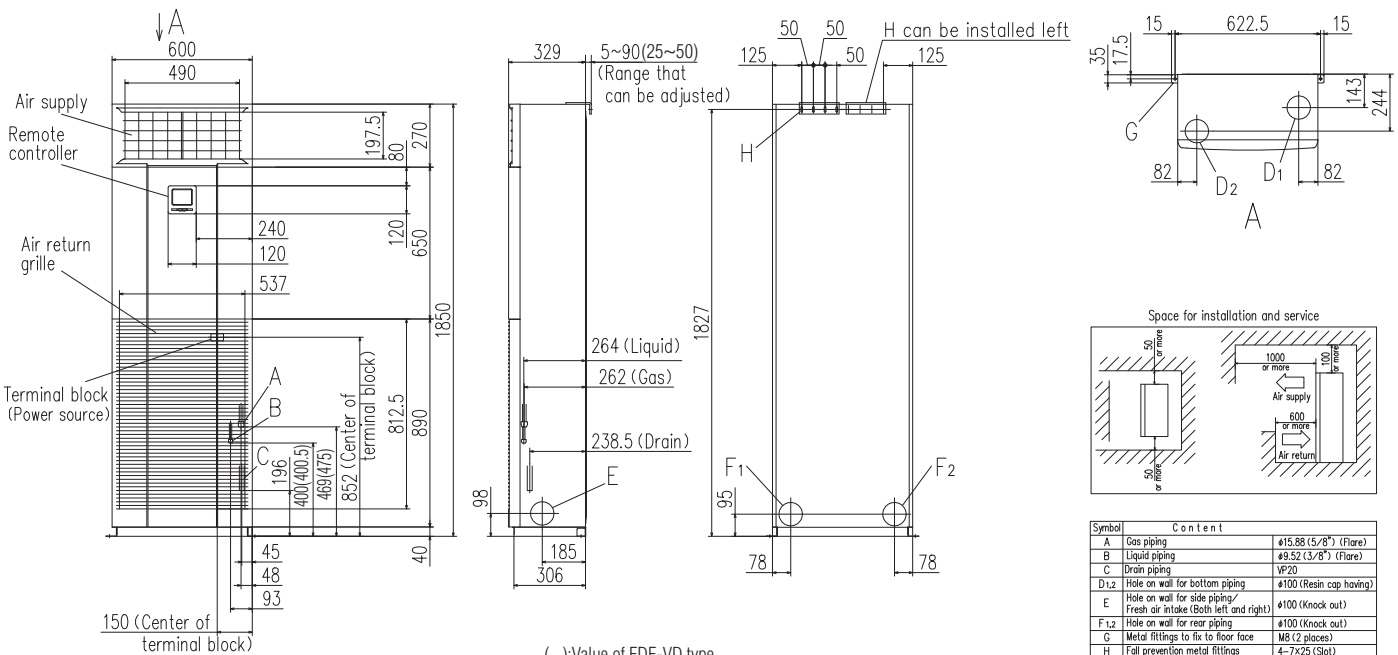


### OUTDOOR UNIT

		Hyper Inverter	
FDC		71VNX-W	100~140VN(S)X-W
		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	-
		100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model							
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 -



## 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			
Max. current		A 19.1			
Sound power level*1	Indoor	Cooling/Heating 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) dB(A) 42 / 39 / 35 / 33	53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 42 / 39 / 35 / 33	53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m <sup>3</sup> /min 18 / 16 / 14 / 12	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 18 / 16 / 14 / 12	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Exterior dimensions	Indoor	HeightxWidthxDepth mm 1,850 × 600 × 329			
	Outdoor	750 × 880(+88) × 340	1,300 × 970 × 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 x1(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			
Max. current		A 14.0			
Sound power level*1	Indoor	Cooling/Heating 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) dB(A) 53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44	
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 53 / 51 / 49 / 44	55 / 51 / 49 / 44	55 / 51 / 49 / 44	
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m <sup>3</sup> /min 27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	
Exterior dimensions	Indoor	HeightxWidthxDepth mm 1,850 × 600 × 329			
	Outdoor	1300 × 970 × 370			
Net weight	Indoor	kg 49	99		
	Outdoor				
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			FDI140VNXWPVH	FDI140VSXWPVH
			Twin	
Indoor unit			FDI71VH x 2	FDI71VH 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	Cooling/Heating	55 / 55	55 / 55
	Outdoor	Cooling/Heating	69 / 71	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33
	Indoor	Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33
Air flow	Indoor	Cooling/Heating	54 / 54	54 / 54
	Outdoor	Cooling/Heating	18 / 16 / 14 / 12	18 / 16 / 14 / 12
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 329
	Outdoor			1300 x 970 x 370
Net weight	Indoor		kg	47
	Outdoor			97
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 x1(Washable)	
Remote control (option)			wired : RC-EX3A, RC-E5, RCH-E3 wireless : RCN-KIT4-E2	

R410A			Hyper Inverter			
Set model name			FDI71VNXVD1	FDI100VNXVD2	FDI125VNXVD	FDI140VNXVD
Indoor unit			FDI71VD1	FDI100VD2	FDI125VD	FDI140VD
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	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
	Indoor	Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Air flow	Indoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
	Outdoor	Cooling/Heating	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320		
	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	65 / 65	73 / 73
	Outdoor	Cooling/Heating	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	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)	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	100 / 100	100 / 100
				100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 x 600 x 320	
	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		FDF140VNX PVD1	Twin	FDF140VSX PVD1
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	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
				49 / 52
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	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
				100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 x 600 x 320	
	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	65 / 65	67 / 67
	Outdoor	Cooling/Heating	69 / 70	71 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	53 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)	53 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating	54 / 55	54 / 56
		Cooling/Heating	56 / 58	56 / 58
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min 27 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	27 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 × 600 × 329	
	Outdoor	HeightxWidthxDepth	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 x1(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	65 / 65	67 / 67
	Outdoor	Cooling/Heating	69 / 70	71 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	53 / 51 / 49 / 44	55 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)	53 / 51 / 49 / 44	55 / 51 / 49 / 44
	Outdoor	Cooling/Heating	54 / 55	54 / 56
		Cooling/Heating	56 / 58	56 / 58
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min 27 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	27 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 × 600 × 329	
	Outdoor	HeightxWidthxDepth	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
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		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 <sup>3</sup>	Cooling/Heating 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 <sup>3</sup>	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
	Outdoor	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
Air flow	Indoor <sup>3</sup>	Cooling/Heating 56 / 58	56 / 58	58 / 59	58 / 62	61 / 63
	Outdoor	Cooling (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
Exterior dimensions		mm 18 / 16 / 14 / 12	18 / 16 / 14 / 12	27 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Net weight		kg 75 / 73	75 / 73	148 / 134	148 / 153	136 / 140
Ref.piping size		1,850 x 600 x 329				
Refrigerant line (one way) length		845 x 970 x 370		1505 x 970 x 370		
Vertical height differences		47		49		
Outdoor operating temperature range		77		145		
Air filter, Q'ty		78		155		
Remote control (option)		9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")		
EER/COP		Max.50		Max.70		
Vertical height differences		Max.50 / Max.15		Max.50*4 / Max.15		
Outdoor operating temperature range		°CDB -15~50*2		°CWB -20~20		
Air filter, Q'ty		Plastic net x1(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		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 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
	Outdoor	Heating (P-Hi/Hi/Me/Lo) 54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Air flow	Indoor	Cooling/Heating 54 / 56	55 / 57	57 / 59
	Outdoor	Cooling (P-Hi/Hi/Me/Lo) 29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Exterior dimensions		mm 29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Net weight		kg 75 / 73	75 / 73	75 / 73
Ref.piping size		1,850 x 600 x 320		
Refrigerant line (one way) length		845 x 970 x 370		
Vertical height differences		52		
Outdoor operating temperature range		80		
Air filter, Q'ty		9.52(3/8") / 15.88(5/8")		
Remote control		Max.50		
EER/COP		Max.50 / Max.15		
Vertical height differences		-15~50*2		
Outdoor operating temperature range		°CDB -15~50*2		
Air filter, Q'ty		°CWB -20~20		
Remote control		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.  
\*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	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		5	5	5
Max. current		15	15	15
Sound power level*1	Indoor	Cooling/Heating	65 / 65	73 / 73
	Outdoor	Cooling/Heating	70 / 70	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 320	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		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
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	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		5	5	5	5
Max. current		24	15	20	21
Sound power level*1	Indoor*3	Cooling/Heating	61 / 61	65 / 65	73 / 73
	Outdoor	Cooling/Heating	73 / 73	72 / 74	73 / 75
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 320		
	Outdoor		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		49		
	Outdoor		80	82	115
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		m Max.70	
Vertical height differences	Outdoor is higher/lower	m Max.50 / Max.15		m Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°CDB -15~50*2			
	Heating	°CWB -20~20		°CWB -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		FDF71VNPVH	FDF90VNPVH	FDF100VNPVH
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	55 / 55	65 / 65
	Outdoor	Cooling/Heating	67 / 67	68 / 67
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	53 / 51 / 49 / 44
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	53 / 51 / 49 / 44
	Outdoor	Cooling/Heating	54 / 54	55 / 53
		Cooling/Heating	54 / 54	55 / 53
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m <sup>3</sup> /min 18 / 16 / 14 / 12	27 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	27 / 26 / 23 / 19
	Outdoor	Cooling/Heating	42 / 42	59 / 55
		Cooling/Heating	42 / 42	59 / 55
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 x 600 x 329	
	Outdoor	HeightxWidthxDepth	640x800(+71)x290	750x880(+88)x340
Net weight	Indoor		kg 47	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 x1(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	61 / 61	65 / 65
	Outdoor	Cooling/Heating	67 / 67	69 / 69
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	54 / 54	57 / 55
		Cooling/Heating	54 / 54	57 / 55
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m <sup>3</sup> /min 20 / 18 / 16 / 14	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	20 / 18 / 16 / 14	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5
		Cooling/Heating	36 / 36	63 / 49.5
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 1,850 x 600 x 320	
	Outdoor	HeightxWidthxDepth	640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor		kg 49	52
	Outdoor		45	70
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	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.