

Inverter Packaged Air Conditioners



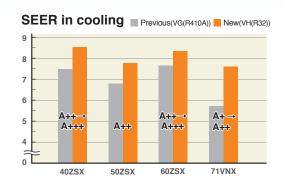
New Generation

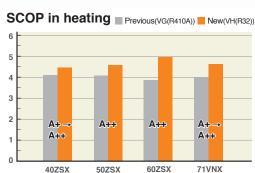


High energy efficiency with new technology

New FDT can achieve higher seasonal efficiency by utilising Mitsubishi Heavy Industries latest technology.

 SEER and SCOP is defined in European regulations.
 Please refer to P96.





Quieter noise & Improved aerodynamic performance of the unit

New technology has realised quiet noise with keeping capacity and comfort. A low noise is achieved by reducing the pressure fluctuation in an indoor unit.

A fan guard attains both safety and quietness by flow.

New design turbo fan







Flexible flap control for draft prevention Brand new function in the market



Draft Prevention Panel (Option)

Each of the 4 flaps can be controlled individually at each operation mode. They change air flow direction and prevent draft feeling. This new function also achieve more flexible control for air flow direction.



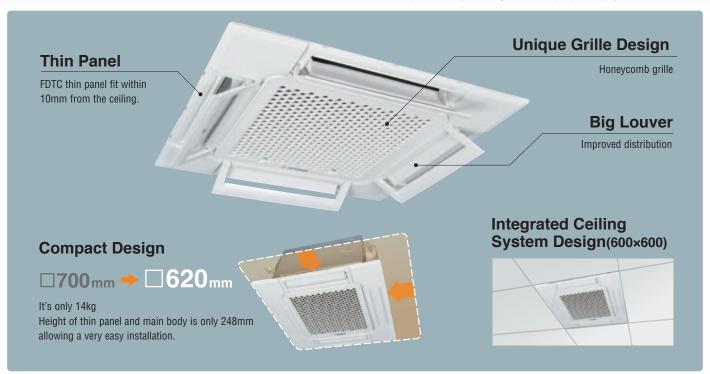
Motion Sensor (Option)

New motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.



European Design & Flat Panel

A' Design Award and Competition is the World's largest, most prestigious and influential design accolade, the highest achievement in design. A' Design Award Winner Logo, symbolizes exceptional design excellence in your products, projects and services.



Quieter Operation

(Sound Pressure level in the Lo mode)



Adopting new turbo fan and improving new heat exchanger enable to reduce noise.



Draft Prevention Panel and Motion Sensor (option)



It is available to set draft prevention panel and motion sensor as well as FDT.

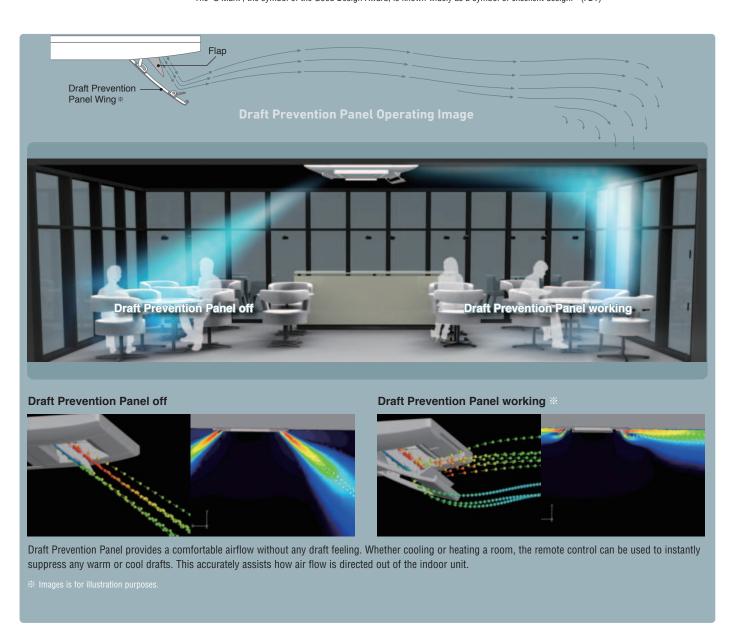
Draft Prevention



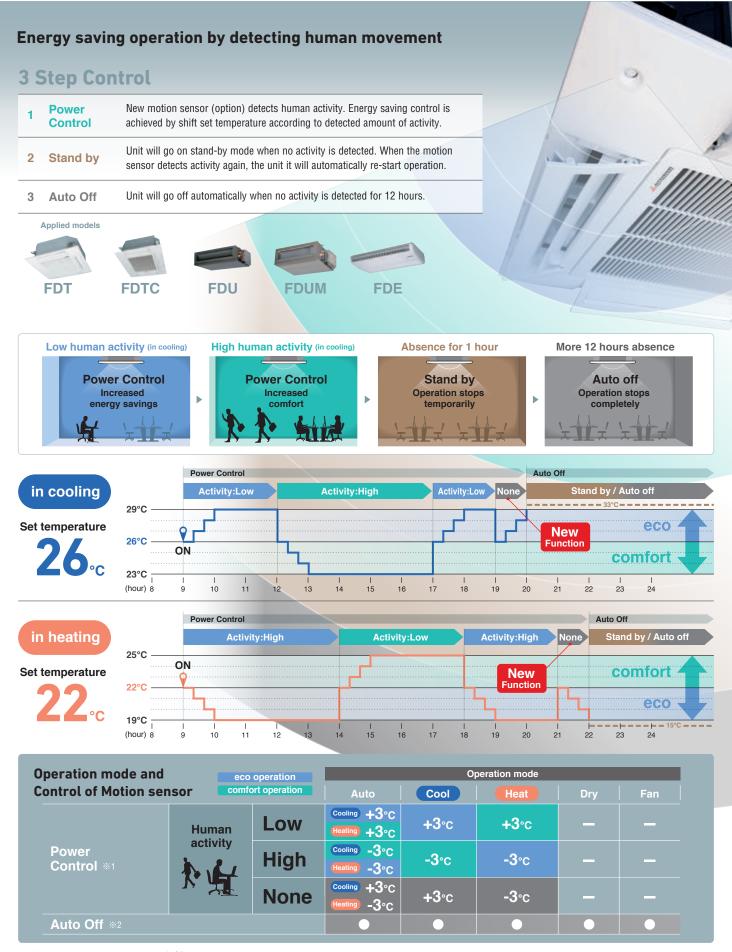


The Good Design Award is Japan's only comprehensive design evaluation and recommendation initiative, originating with the "Good Design Products Selection System" founded in 1957.

It is now a global design award with participation from numerous Japanese and international companies and organizations. The "G Mark", the symbol of the Good Design Award, is known widely as a symbol of excellent design. (FDT)



Motion Sensor



 $^{3^{\}circ}$ C at Cooling/Heating mode by detecting heat volume movement. 2° C at Cooling/Heating mode by detecting heat volume movement. 2° C absence for 1 hour \Rightarrow Operation stops ("Stand-by") More 12 hours absence \Rightarrow Operation stops completely



RC-EX3A

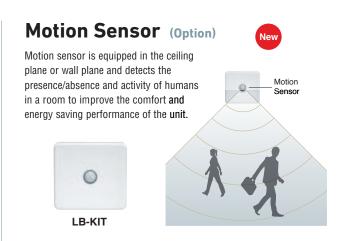
RC-E5

^{*}Not all functions available with all remote control options.



The height of all FDUM models is only 280mm.





RCH-E3

RCN-KIT4-E2

Automatic External Static Pressure (E.S.P.) Control

Duct design was simplified.

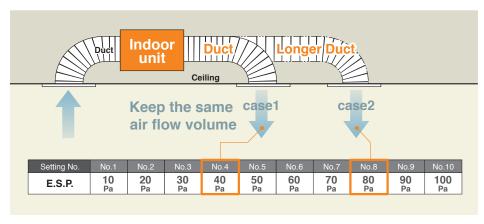
Using DC motor, the most optimum air flow volume can be achieved by this automatic control.

Indoor unit will recognize external static pressure by itself automatically and keep rated air flow volume.



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





OUTDOOR UNIT

one roc	0	40~60ZSX-W1	71VNX-W	
SRC · FDC	9	40~60ZSX-S	71VNX	100~140VN(S)X
model		0	New	●
Chargeless		15m	30)m
Height x Width x Depth (mm)		640 x 800(+71) x 290	750 x 880(+88) x 340 1,300 x 970	

			Micro Inverter			Standard Inverter	
FDC	0	100~140VN(S)A-W	-	-	71VNP-W	90-100VNP-W	
FDC	9	100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model		New		•	New	New	A
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 37

■ SPECIFICATIONS - FDUM -

Æ R410A				Hyper Inverter				
Set model na	ime			FDUM40ZSXVH	FDUM50ZSXVH	FDUM60ZSXVH		
Indoor unit				FDUM40VH	FDUM50VH	FDUM60VH		
Outdoor unit				SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S		
ower source	е			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal coo	ling capa	city (Min~Max)	kW	4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)		
Nominal heat	ting capa	city (Min~Max)	kW	4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 7.1)		
Power consu	mption	Cooling/Heating	kW	0.952 / 1.07	1.38 / 1.45	1.54 / 1.75		
ER/COP		Cooling/Heating		4.20 / 4.21	3.62 / 3.72	3.64 / 3.83		
Inrush currer	nt		A	5	5	5		
Max. current			^	12	15	15		
Sound power	Indoor	Cooling/Heating		60 / 60	60 / 60	60 / 60		
evel*1	Outdoor	Cooling/Heating		63 / 63	63 / 63	65 / 64		
Sound	Indoor	Cooling (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25		
pressure	IIIdooi	Heating (P-Hi/Hi/Me/Lo)) Carrie	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25		
evel*1	Outdoor	Cooling/Heating		50 / 49	50 / 49	52 / 52		
	Indoor	Cooling (P-Hi/Hi/Me/Lo)		13/10/9/8	13/10/9/8	20 / 15 / 13 / 10		
Air flow	maoor	Heating (P-Hi/Hi/Me/Lo)	m³/min	13/10/9/8	13/10/9/8	20 / 15 / 13 / 10		
		Cooling/Heating		36 / 33	40 / 33	41.5 / 39		
xternal stati	c pressu	re*2	Pa	Standard:35 Max:100				
Exterior	Indoor	HeightxWidthxDepth	mm	280 x 75	50 x 635	280 x 950 x 635		
timensions	Outdoor	neigitixvviutiixDeptii	111111	640 x 800(+71) x 290		N		
Net weight	Indoor		kg	2		34		
ver weight	Outdoor		Ng		45			
Ref.piping size Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")					
Refrigerant line (one way) length		m	Max.30					
Vertical height differences Outdoor is higher/lower		m	Max.20 / Max.20					
Outdoor operating Cooling		°C	-15-46* ³					
temperature range Heating		U.	-20~24					
Air filter (option)					Filter kit : UM-FL2EF			
Remote cont	rol (optio	on)		wired	d:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT	4-E2		

NOTES:

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

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 100Pa.
 *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 - FDUM -

Æ R410A				Hyper Inverter				
Set model na	me			FDUM71VNXVH	FDUM100VNXVH	FDUM125VNXVH	FDUM140VNXVH	
Indoor unit			FDUM71VH	FDUM100VH	FDUM125VH	FDUM140VH		
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	
Power source)			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cool	ing capa	city (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 heat	ing capa	city (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 consu	mption	Cooling/Heating	kW	2.03 / 1.99	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP		Cooling/Heating		3.50 / 4.02	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush curren	nt		A	5	5	5	5	
Max. current			^	17	24	26	26	
Sound power	Indoor	Cooling/Heating		65 / 65	65 / 65	67 / 67	70 / 70	
level*1	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	
Sound	Indoor	Cooling (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	
pressure	IIIuuui	Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	
level*1	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	
	Indoor	Cooling (P-Hi/Hi/Me/Lo)		24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	
Air flow	IIIuuui	Heating (P-Hi/Hi/Me/Lo)		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 station	c pressu	re* ²	Pa	Standard:35 Max:100	Standard:60 Max:100			
Exterior	Indoor	 HeightxWidthxDepth	mm	280 x 950 x 635	280 x 1,370 x 740			
dimensions	Outdoor	neigiiixwiutiixDeptii	111111	750 x 880(+88) x 340		1,300 x 970 x 370		
Net weight	Indoor		kg	34	34 54			
Outd	Outdoor		ky	60	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				
Outdoor operating Cooling		°C	-15~43* ³					
temperature range Heating			-20~20		~20			
Air filter (opti	on)			Filter kit : UM-FL2EF Filter kit : UM-FL3EF				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

Æ R410A				Hyper Inverter				
Set model na	me			FDUM100VSXVH	FDUM125VSXVH	FDUM140VSXVH		
Indoor unit				FDUM100VH	FDUM125VH	FDUM140VH		
Outdoor unit				FDC100VSX	FDC125VSX	FDC140VSX		
Power source	9			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cool	ing capa	city (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)		
Nominal heat	ing capa	city (Min~Max)	kW	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)		
Power consu	mption	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 currer	nt		A	5	5	5		
Max. current			^	15	15	15		
Sound power	Indoor	Cooling/Heating		65 / 65	67 / 67	70 / 70		
level*1	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72		
Sound	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30		
pressure	IIIuuui	Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30		
ievel*1	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52		
	Indoor	Cooling (P-Hi/Hi/Me/Lo)		36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22		
Air flow		Heating (P-Hi/Hi/Me/Lo)	m³/min	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22		
		Cooling/Heating		100 / 100	100 / 100	100 / 100		
External station	c pressu	re* ²	Pa	Standard:60 Max:100				
Exterior	Indoor	 HeightxWidthxDepth	mm	280 x 1,370 x 740				
dimensions	Outdoor	HolghixvvidilixDoptil	1111111	1,300 × 970 × 370				
Net weight	Indoor		kg	54				
Outdoor		кy	105					
7 7 3 1 1		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 Cooling		°C		-15~43* ³				
temperature range Heating		U	-20~20					
Air filter (option)			Filter kit : UM-FL3EF					
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 100Pa.
- *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.
- *4: The values are for one indoor unit operation. (Multi system only)