

NEW!

COMMERCIAL PACKAGED Inverter Air Conditioner (R410a)



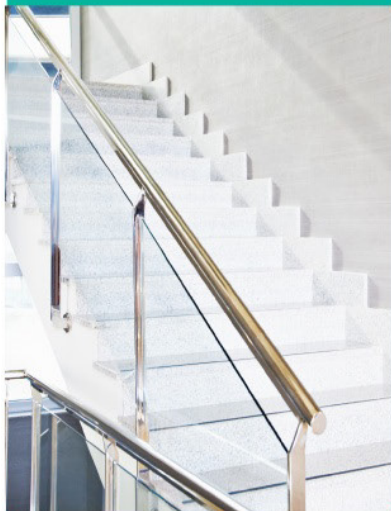
for a greener tomorrow



DC Inverter



Low Noise



**5 Years
Compressor**



High Efficiency



15CPAC-INV04

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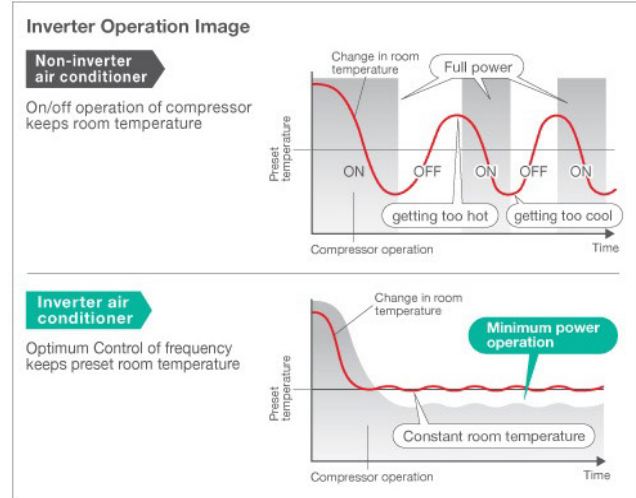
Inverter Technologies



Mitsubishi Electric inverters ensure superior performance including the optimum control of operation frequency. As a result, optimum power is applied in all heating/cooling ranges and maximum comfort is achieved while consuming minimal energy. Fast, comfortable operation and amazingly low running cost — That's the Mitsubishi Electric promise.

TRUE COMFORT

Simple comparison of air conditioner operation control with inverter and Non-inverter.



Non-inverter air conditioner repeats working and stopping operation to keep room temperature. Therefore, it brings lower energy-saving and uncomfortable operation.

INVERTERS – HOW THEY WORK

Inverters electronically control the electrical voltage, current and frequency of electrical devices such as the compressor motor in an air conditioner. They receive information from sensors monitoring operating conditions, and adjust the revolution speed of the compressor, which directly regulates air conditioner output. Optimum control of operation frequency results in eliminating the consumption of excessive electricity and providing the most comfortable room environment.



Joint Lap DC Motor

Mitsubishi Electric has developed a unique motor, called the "Poki-Poki Motor" in Japan, which is manufactured using a joint lapping technique. This innovative motor operates based on a high-density, high-magnetic force, leading to extremely high efficiency and reliability.



Rare Earth Magnet Rotor (Compressor)

An innovative motor with a rare earth magnet rotor is equipped in the compressor to ensure excellent efficiency. The rare earth magnet has a residual magnetic flux density threefold that of the previously used ferrite magnet.



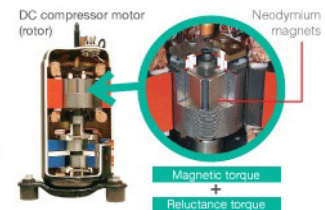
DC Fan Motor

A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.



Reluctance DC Rotary Compressor

Powerful neodymium magnets are used in the rotor of the reluctance DC motor. More efficient operation is realised by strong magnetic and reluctance torques produced by the magnets.

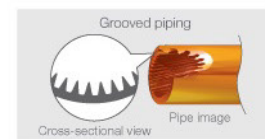


(SUY-KA24/30/36VA Only)



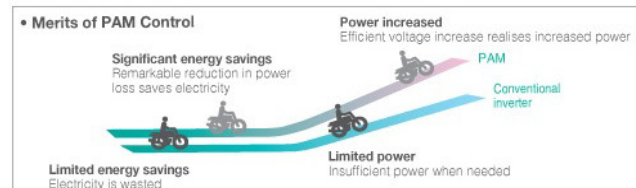
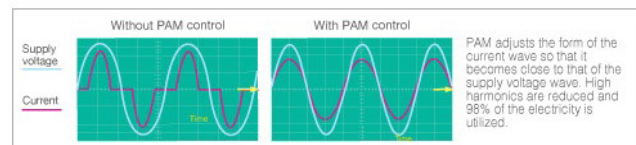
Grooved Piping

High-performance grooved piping is used in heat exchangers to increase the heat exchange area.



PAM (Pulse Amplitude Modulation)

PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realising more efficient use of electricity. Using PAM control, 98% of the input power supply is used effectively.



Product Feature

COMPACT CEILING-CONCEALED

SEZ-KD SERIES

SEZ-KD25/35VAL



Compact design

The 200mm-high indoor unit saves installation space

Simple installation and maintenance

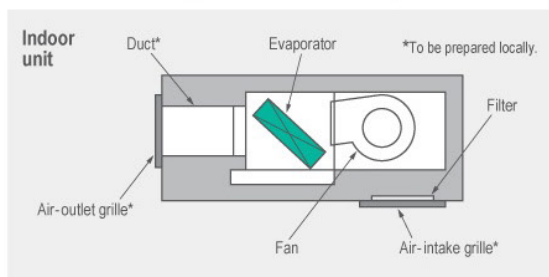
The SEZ Series offers the choice of positioning the air intake grille at the rear or bottom of the unit. In addition, wiring and piping connections are simple and there is no need for expensive duct work.

Quiet operation

Comfortable, quiet operating noise levels of 22dB* and 46dB are realized for the indoor and outdoor units, respectively.

*On low level.

Equipped with forward-curved, direct drive centrifugal fan & two-speed motor



Wider Selection of Fan Speed and Static Pressure Level

Three fan speeds (Low-Mid-High) and four static pressure levels (5-15-35-50 Pa) are available by using the DC fan motor to meet various applications needs.

	External Static Pressure
SEZ-KC25VA	5 Pa
SEZ-KA35VA	30/50 Pa
SEZ-KD25-35VA	5/15/35/50 Pa

Disclaimer: Feature of individual models please refer feature summary table.

CEILING-CONCEALED

PEY SERIES

PEY-P18/24/30/36JA/42/48JA



Computerized dehumidification

The electronic dehumidifier mode - where fan speed is controlled precisely - increase dehumidification volume while improving dehumidifying efficiency.

Compact Indoor Units

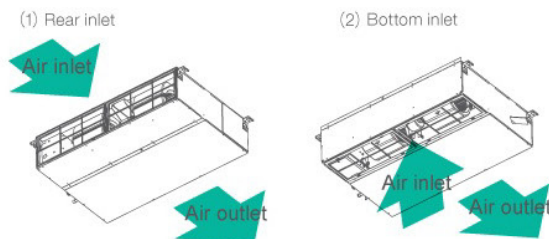
For all models, unit height are unified to 250mm. Compared to the previous model, the height size is reduced, allowing installation in tight spaces, such as ceiling cavities or drop-ceilings.



Reduction in height size

Air Inlet

The units with bottom inlet make more noise than those with rear inlet. It is recommended that the rear inlet be selected when installing the units in the rooms that should be quiet such as bedrooms.



Wide Selection of Fan Speeds and External Static Pressure

Five-stage external static pressure conversions and three fan speed selections are available. Capable of being set to a maximum of 125Pa, units are applicable to a wide range of building types.

External static pressure setting

Series	18	24	30	36
PEY-P-JA	35/50/70/100/125Pa			

Specification & Dimension

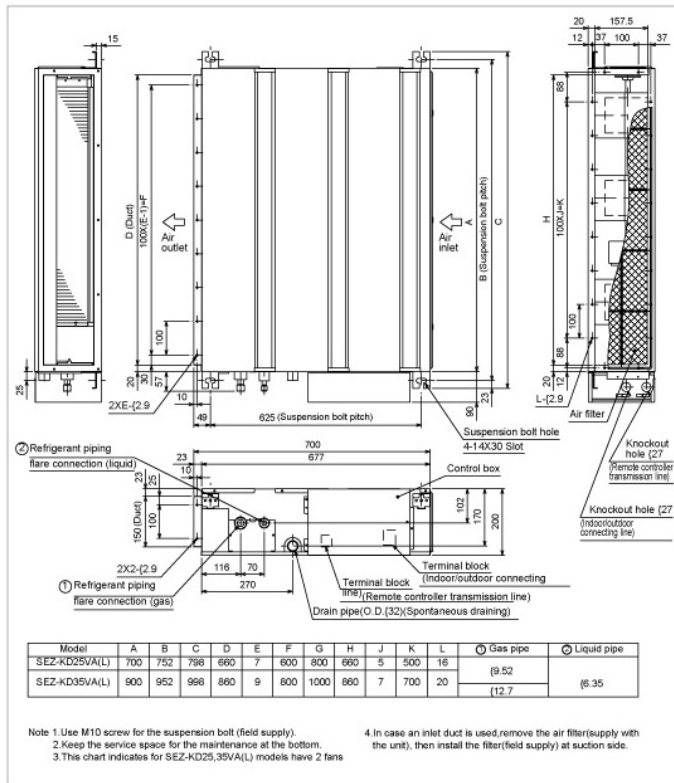
Ceiling Concealed (SEZ / PEY)

Model	Indoor Outdoor	SEZ-KD25VAL SUZ-KA25VA2	SEZ-KD35VAL SUZ-KA35VA2	PEY-P18JA SUY-KA18VA	PEY-P24JA SUY-KA24VA	PEY-P30JA SUY-KA30VA	PEY-P36JA SUY-KA36VA	PEY-P42JA PUY-P42YKA	PEY-P48JA PUY-P48YKA		
Cooling Capacity Range (Btu/hr)		3,070-10,910	3,410-13,300	9,550-18,420	12,280-30,360	13,990-33,100	13,990-36,500	21,170-48,140	22,530-51,210		
Capacity	Btu/h kW	8,530 2.5(0.9-3.2)	11,942 3.5(1.0-3.9)	18,000 5.3(2.8-5.4)	24,000 7.1(3.6-8.9)	30,000 8.8(4.1-9.7)	36,000 10.6(4.1-10.7)	42,000 12.3(6.2-14.1)	45,000 13.5(6.6-15.0)		
EER		11.37	10.96	11.46	11.88	12.00	10.81	11.41	14.71		
COOP		3.33	3.21	3.36	3.48	3.52	3.17	3.34	4.31		
Power input	kW	0.75	1.09	1.57	2.02	2.5	3.33	3.68	3.06		
Power supply		1ph 220-240V 50Hz							3ph 380-415V 50Hz	1ph 220-240V 50Hz 3ph 380-415V 50Hz	
Indoor Unit		SEZ-KD25VAL	SEZ-KD35VAL	PEY-P18JA	PEY-P24JA	PEY-P30JA	PEY-P36JA	PEY-P42JA	PEY-P48JA		
Air flow (L-o-H)	m ³ /h	360-420-540	420-540-660	720-860-1020	1055-1260-1500	1450-1740-2040	1770-2080-2520	1770-2080-2520			
Air Flow	cfm	212-247-317	247-317-388	425-510-600	620-740-885	850-1025-1200	1040-1225-1485	1040-1225-1485			
External Static Pressure	Pa	5 / 15 / 35 / 50			35 / 50 / 70 / 100 / 125						
Noise level (L-o-H)	dB(A)	22-25-29	23-28-33	30-35-39	30-34-39	33-38-42	36-40-44	36-40-44			
Dimension (W X D X H)	mm	990x700x200		900x732x250	1100x732x250	1400x732x250		1400x732x250			
Net weight	kg	18	21	27	29	38	39	39			
Outdoor Unit		SUZ-KA25VA2	SUZ-KA35VA2	SUY-KA18VA	SUY-KA24VA	SUY-KA30VA	SUY-KA36VA	PUY-P42VKA	PUY-P42YKA	PUY-P48VKA	PUY-P48YKA
Dimension (W X D X H)	mm	800x285x500		840x330x880			1050x330x1338				
Net weight	kg	30	33	47	50	51	58	94	96	94	96
Noise level (L-o-H)	dB(A)	46	47	51	54	56	58	55	55	56	56
Pipe size	Gas mm	9.52		12.7		15.88		15.88			
Outer diameter	Liquid mm	6.35		9.52		15.88		9.52			
Max. piping length	m	20		30		50		50			
Max. height difference	m	12		15		30		30			

Testing Condition: Cooling Indoor 27° CDB, 19° CDB. Outdoor 35° CDB Refrigerant Piping length 7.5m.

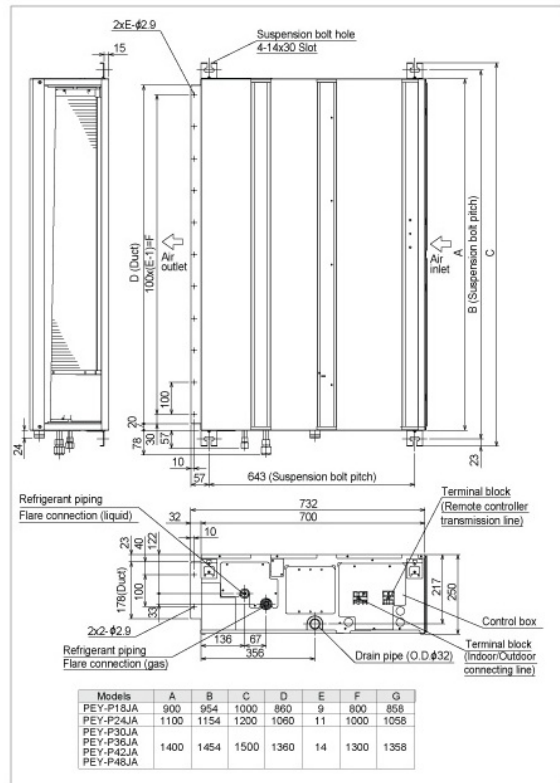
SEZ Dimension

SEZ-KD25/35VAL (Unit: mm) Indoor Unit



PEY Dimension

PEY-P18/24/30/36JA/42/48JA (Unit: mm) Indoor Unit



Other Air Conditioning Systems



Disclaimer: Specification subject to change without prior notice.

SPECIFICATIONS - PEV series

Model name	Indoor		PEV-P200YM-A	PEV-P250YM-A
System capacity	Cooling *1	BTU/h	80,000	100,000
		kW	23.5	29.3
System Power input	Cooling *2	BTU/h	79,000	99,000
		kW	23.2	28.9
System current	Cooling	A	16.0/15.2/14.7	23.3/22.1/21.4
Energy efficiency ratio (EER)			2.47	2.13
CSPF *5			3.4	
Power source			3-phase 4-wire 380-400-415V (50Hz)	
Power input		kW	1.02	1.12
Current		A	1.8/1.7/1.7	2.0/1.9/1.9
FAN	Type × Quantity		Sirocco fan×2	
	Airflow rate (Lo-Hi)	m ³ /min	52-65	56-71
	External static pressure	Pa	80	100
	Motor output	kW	0.50	0.72
Refrigerant			R410A	
External finish			Galvanized steel	
External dimension H × W × D		mm	400×1600×634	
Protection devices		FAN	Over current protection	
Refrigerant piping diameter	Liquid pipe	mm	9.52 Brazed	
	Gas pipe	mm	22.2 Brazed	
Refrigerant piping allowable length		m	70	
Sound pressure level (Lo-Hi) *3		dB(A)	45-49	46-50
Heat exchanger			Cross fin (aluminum plate fin and copper tube)	
Air filter			Optional	
Net weight		kg	74	
Operating temperature range	Cooling		Indoor : 15 to 24°CWB (Outdoor : 20 to 52°CDB)	
Model name	Outdoor		PUV-P200YM-A (-BS)	PUV-P250YM-A (-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz	
Sound pressure level (measured in anechoic room)		dB(A)	56	58
Refrigerant piping diameter	Liquid pipe	mm (in)	9.52 (3/8) Brazed	
	Gas pipe	mm (in)	22.2 (7/8) Brazed	
	Type × Quantity		Propeller fan×1	
	Airflow rate	m ³ /min	170	
Compressor	Motor output	kW	0.92×1	
	External static pressure		0Pa (0mmHg ₂ O)	
Compressor	Type × Quantity		Inverter scroll hermetic compressor	
	Manufacture		MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	5.4	7.5
Compressor	Case heater	kW	0.045	
	Lubricant		MEL56	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3.0Y 7.8/1 1 or similar>	
External dimension H × W × D		mm	1650×920×740	
		in	64-31/32×36-1/4×29-5/32	
Protection devices	High pressure protection		High pres. Sensor & High pres. Switch at 4.15MPa (601psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
	Fan motor		Thermal switch	
Refrigerant	Type × original charge		R410A×5.5kg (13lbs)	R410A×6.5kg (15lbs)
	Control		LEV and HIC circuit	
Net weight		kg	180	193
Heat exchanger			Salt-resistant cross fin & copper tube	

Note 1. Cooling capacity indicates the value at operation under the following conditions.

Indoor : 27°CDB / 19.5°CWB, Outdoor : 35°CDB

2. <Reference cooling capacity> Indicates the value at operation under the following conditions.

Indoor : 27°CDB / 19°CWB, Outdoor : 35°CDB

3. The sound pressure level is measured in an anechoic room.

4. Long period operation in a high temperature and humidity atmosphere (dew point of 23°C or more) may cause condensation to form in the indoor unit.

5. Cooling Seasonal Performance Factor

SPECIFICATIONS - PFV series

Model name	Indoor		PFV-P200YM-A	PFV-P250YM-A	PFV-P400YM-A	PFV-P500YM-A
System capacity	Cooling *1	BTU/h	80,000	100,000	160,000	191,000
		kW	23.5	29.3	46.9	56.0
System Power input	Cooling *2	BTU/h	79,000	99,000	158,000	188,000
		kW	23.2	28.9	46.3	55.1
System current	Cooling	kW	9.03	11.76	18.14	20.53
Energy efficiency ratio (EER)	Cooling	A	15.2/14.5/14.1	19.7/18.8/18.2	31.6/30.0/29.0	35.9/34.1/32.9
CSPF *5			2.60	2.49	2.58	2.72
Power source			3.8	3.8	3.7	3.5
Power input		kW	3-phase 4-wire 380-400-415V (50Hz)			
Current		A	0.74	0.81	1.64	2.35
			1.3/1.3/1.3	1.3/1.3/1.3	3.8/3.6/3.5	5.3/5.0/4.8
FAN	Type x Quantity		Sirocco fan×2			
	Airflow rate (Lo-Hi)	m³/min	52-65	58-71	150	200
	External static pressure	Pa	- (Plenum)	- (Plenum)	30	
	Motor output	kW	0.75		2.2	3.7
Refrigerant			R410A			
External finish			Galvanized steel plate (with polyester coating) MUNSELL 3.0Y 7.8/1.1 or similar			
External dimension H x W x D		mm	1800×1200×500		1800×1860×650	
Protection devices		FAN	Over current protection			
Refrigerant piping diameter	Liquid pipe	mm	9.52 Brazed		15.88 Brazed	
	Gas pipe	mm	22.2 Brazed		28.58 Brazed	
Refrigerant piping allowable length		m	70		150	
Sound pressure level (Lo-Hi) *3		dB(A)	53-59	57-61	63	66
Heat exchanger			Cross fin (aluminum plate fin and copper tube)			
Air filter			PP Honeycomb fabric filter			
Net weight		kg	164	165	297	352
Operating temperature range	Cooling		Indoor : 15 to 24°CWB (Outdoor : 20 to 52°CDB)			
Model name	Outdoor		PUV-P200YM-A (-BS)	PUV-P250YM-A (-BS)	PUV-P400YM-A (-BS)	PUV-P500YM-A (-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz			
Sound pressure level (measured in anechoic room)		dB(A)	56	58	62	65
Refrigerant piping diameter	Liquid pipe	mm (in)	9.52 (3/8) Brazed		12.7 (1/2) Brazed	15.88 (5/8) Brazed
	Gas pipe	mm (in)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
Refrigerant piping diameter	Type x Quantity		Propeller fan×1		Propeller fan×1	Propeller fan×2
	Airflow rate	m³/min	170		200	340
Refrigerant piping diameter		L/s	2,834		3,334	5,668
		cfm	6,003		7,062	12,005
Control, Driving mechanism			Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
Motor output		kW	0.92×1		0.92×1	
External static pressure			0Pa (0mmH ₂ O)		0Pa (0mmH ₂ O)	
Type x Quantity			Inverter scroll hermetic compressor			
Manufacture			MITSUBISHI ELECTRIC CORPORATION			
Starting method			Inverter			
Motor output		kW	5.4	7.0	11.7	12.9
Case heater		kW	0.045		-	
Lubricant			MEL56		MEL32	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 3.0Y 7.8/1.1 or similar>			
External dimension H x W x D		mm	1650×920×740		1650×1220×740	1650×1750×740
		in	64-31/32×36-1/4×29-5/32		64-31/32×48-1/16×29-5/32	64-31/32×68-29/32×29-5/32
Protection devices	High pressure protection		High pres. Sensor & High pres. Switch at 4.15MPa (601psi)			
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection			
	Compressor		Over-heat protection			
	Fan motor		Thermal switch			
Refrigerant	Type x original charge		R410A×5.5kg (13lbs)	R410A×6.5kg (15lbs)	R410A×11.5kg (26lbs)	R410A×11.8kg (27lbs)
Control			LEV and HIC circuit			
Net weight		kg	180	193	239	306
Heat exchanger			Salt-resistant cross fin & copper tube			

Note 1. Cooling capacity indicates the value at operation under the following conditions.

Indoor : 27°CDB / 19.5°CWB, Outdoor : 35°CDB

2. <Reference cooling capacity> Indicates the value at operation under the following conditions.

Indoor : 27°CDB / 19°CWB, Outdoor : 35°CDB

3. The sound pressure level is measured in an anechoic room.

4. Long period operation in a high temperature and humidity atmosphere (dew point of 23°C or more) may cause condensation to form in the indoor unit.

5. Cooling Seasonal Performance Factor

SPECIFICATIONS - PFAV series

		STANDARD MODEL				FRESH AIR INTAKE MODEL			
Model Name	Indoor	PFAV-P750VM-E		PFAV-P300VM-E-F		PFAV-P600VM-E-F		PFAV-P900VM-E-F	
	Outdoor	PUHY-P750YHA-(S) PUHY-P300YHA-(S) PUHY-P300YHA-(S) DMF-Y200BK2		PUHY-P250YHA-(S)		PUHY-P600YHA-(S) PUHY-P250YHA-(S) x 2 CMY-Y100VBK2		PUHY-P750YHA-(S) PUHY-P900YHA-(S) PUHY-P300YHA-(S) CMY-Y200BK2	
Operation		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
System capacity	kW	71.0 (Maximum 80.0)	80.0 (Maximum 90.0)	28.0 (Maximum 33.5)	26.5 (Maximum 28.0)	56.0 (Maximum 67.0)	50.0 (Maximum 56.0)	80.0 (Maximum 100.0)	71.0 (Maximum 80.0)
System Power input	kW	26.33 / 27.40	23.93 / 25.00	6.73 / 6.72	7.57 / 7.56	14.69 / 15.05	15.43 / 15.79	22.54 / 22.74	21.43 / 21.63
System current	A	48.1-45.7-44.1 / 47.5-45.1-43.5	43.4-41.2-39.8 / 42.8-40.6-39.2	12.6-11.9-11.5 / 12.2-11.5-11.1	14.0-13.3-12.8 / 13.6-12.9-12.4	26.1-24.9-24.0 / 26.2-25.0-24.0	27.4-26.1-25.1 / 27.5-26.2-25.1	40.5-38.5-37.1 / 39.6-37.6-36.2	38.7-36.8-35.5 / 37.8-35.9-34.6
Power source		3-phase 4-wire 380-400-415V (50Hz / 60Hz)							
Power input	kW	4.30 / 5.37		0.37 / 0.36		0.90 / 1.26		1.77 / 1.97	
Current	A	10.9-10.4-10.0 / 10.3-9.8-9.4		1.9-1.8-1.7 / 1.5-1.4-1.3		2.9-2.8-2.8 / 3.0-2.9-2.8		5.6-5.3-5.1 / 4.7-4.4-4.2	
Fan Type x Quantity		Sirocco fan x 1		Sirocco fan x 2		Sirocco fan x 1		Sirocco fan x 1	
Airflow rate	m ³ / min	260		45		90		210	
External static pressure	Pa	100 / 310		80		110 / 170		120 / 330	
Motor output	kW	7.5		1.5		2.2		3.7	
Refrigerant		R410A							
External finish		Galvanized steel plate (with polyester coating) <MUNSEL 5Y 8 / 1 or similar>							
External dimension H x W x D	mm	1860 x 1750 x 1064		1748 x 1200 x 485		1899 x 1420 x 635		1860 x 1750 x 1064	
Protection devices	Fan motor			Thermal switch					
Refrigerant piping diameter	Liquid pipe	19.05 Brazed		9.52 Brazed (12.7 for over 90m)		15.88 Brazed		19.05 Brazed	
	Gas pipe	34.93 Brazed		22.2 Brazed		28.58 Brazed		34.93 Brazed	
Refrigerant piping allowable length	m	165							
Sound pressure level	dB(A)	65		48.5		50 / 53		57	
Heat exchanger		Cross fin (Aluminum plate fin and copper tube)							
Air filter		PP Honeycomb fabric filter		Synthetic fiber unwoven cloth filter				PP Honeycomb fabric filter	
Net weight	kg	459		151		248		437	
Operating temperature range		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
		Indoor:10°CWB-25°CWB (Outdoor:-5°CDB-43°CDB)	Indoor:15°CDB-28°CDB	Indoor:15°CWB-35°CWB (Outdoor:20°CDB-43°CDB)	Indoor:0°CDB-20°CDB (Outdoor:4°CWB-15.5°CWB)	Indoor:15°CWB-35°CWB (Outdoor:20°CDB-43°CDB)	Indoor:0°CDB-20°CDB (Outdoor:-4°CWB-15.5°CWB)	Indoor:15°CWB-35°CWB (Outdoor:20°CDB-43°CDB)	Indoor:0°CDB-20°CDB (Outdoor:-4°CWB-15.5°CWB)

1. Cooling/Heating capacity indicates the maximum value at operation under the following conditions.
 <Cooling> Indoor,Outdoor:33°CDB/28°CWB
 <Heating> Indoor,Outdoor:7°CDB/3°CWB
 Pipe length:7.5m,Level difference:0m
 2. The sound pressure level is measured in an anechoic room.
 3. The indoor intake air temperature should be kept more than 0°C.

4. At factory setting, the fan temporary stops in defrosting. Change DIP SW for fan to operate in defrosting.
 5. Indoor temperature and humidity cannot be controlled with Fresh air intake type.
 6. Works not included: Installation / foundation work, electric connection work, duct work, insulation work. The power source switch and other items are not specified in the specifications.



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Perak : 36 Laluan Perpaduan Ria 6,
 Taman Perpaduan Ria, 31150 Ulu Kinta,
 Perak.
 H/P: 012-558 7311 Fax: 05-536 0107

Sarawak: 1361J, Tabuan Jaya, Lorong 14,
 Jalan Bayor Bukit, 93350 Kuching, Sarawak.
 H/P: 013-811 0320 Tel/Fax: 082-363 975

Sabah : Batu 5 1/2, Jalan Tuaran, Inanam, P.O.Box
 10251, 88822 Kota Kinabalu, Sabah
 H/P: 016-8319039 Fax: 088-430626



Mitsubishi Electric Consumer Products and Mitsubishi Electric Shizuoka Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality Warranties for the production of air conditioning equipment. The plant also acquired environmental management system standard ISO 14001 certification.

Authorised Dealer: