

Specification: ZUBADAN series

Model Name		Indoor Unit	Outdoor Unit	PEAD-RP71JA	PEAD-RP100JA	PEAD-RP100JA	PEAD-RP125JA	PEAD-RP71JAL	PEAD-RP100JAL	PEAD-RP100JAL	PEAD-RP125JAL	
				PUHZ-HRP71VHA2	PUHZ-HRP100VHA2	PUHZ-HRP100VHA2	PUHZ-HRP125VHA2	PUHZ-HRP71VHA2	PUHZ-HRP100VHA2	PUHZ-HRP100VHA2	PUHZ-HRP125VHA2	
Power Supply [V, Phase, Hz]				230V, 1 phase, 50Hz			400V, 3 phase, 50Hz		230V, 1 phase, 50Hz		400V, 3 phase, 50Hz	
Refrigerant				R410A								
Cooling	Capacity	Rated	kW	7.1	10.0	10.0	12.5	7.1	10.0	10.0	12.5	
		Min. - Max.	kW	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	
	Total Input	Rated	kW	2.150	3.060	3.060	3.890	2.130	3.040	3.040	3.870	
		EER		3.30	3.27	3.27	3.21	3.33	3.29	3.29	3.23	
Heating	Capacity	Rated	kW	8.0	11.2	11.2	14.0	8.0	11.2	11.2	14.0	
		Min. - Max.	kW	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	
	Total Input	Rated	kW	2.340	3.100	3.100	3.880	2.340	3.100	3.100	3.880	
		COP		3.42	3.61	3.61	3.61	3.42	3.61	3.61	3.61	
Operating Current(max)		A		31.5	37.7	15.7	15.8	31.5	37.7	15.7	15.8	
Indoor Unit	Input	Rated (C/H)	kW	0.170 / 0.150	0.250 / 0.230	0.250 / 0.230	0.360 / 0.340	0.150 / 0.150	0.230 / 0.230	0.230 / 0.230	0.340 / 0.340	
		Operating Current(max)	A	2.0	2.7	2.7	2.8	2.0	2.7	2.7	2.8	
	Dimensions	Height	mm	250	250	250	250	250	250	250	250	
		Width	mm	1100	1400	1400	1400	1100	1400	1400	1400	
		Depth	mm	732	732	732	732	732	732	732	732	
	Weight	kg		33	41	41	43	32	40	40	42	
	Air Volume	Lo - Mid - Hi	m ³ /min	17.5 - 21.0 - 25.0	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0	17.5 - 21.0 - 25.0	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0	
	External Static Pressure	Pa		35 / 50 / 70 / 100 / 150								
	Sound Level	Lo - Mid - Hi	dB(A)	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	
	Breaker Size	A		—								
Outdoor Unit	Dimensions	Height	mm	1350	1350	1350	1350	1350	1350	1350	1350	
		Width	mm	950	950	950	950	950	950	950	950	
		Depth	mm	330 (+30)	330 (+30)	330 (+30)	330 (+30)	330 (+30)	330 (+30)	330 (+30)	330 (+30)	
	Weight	kg		120	120	134	134	120	120	134	134	
	Air Volume	Cooling / Heating	Rated	m ³ /min	100.0 / 100.0	100.0 / 100.0	100.0 / 100.0	100.0 / 100.0	100.0 / 100.0	100.0 / 100.0	100.0 / 100.0	
	Sound Level	Cooling / Heating	Rated / Silent	dB(A)	51 / 48	51 / 48	51 / 48	51 / 48	51 / 48	51 / 48	51 / 48	
Operating Current(max)	A		29.5	35.0	13.0	13.0	29.5	35.0	13.0	13.0		
Breaker Size	A		32	40	16	16	32	40	16	16		
Ext. Piping	Diameter	Gas / Liquid(φ)	mm	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	
	Max Length	Out-In	Total	m	75	75	75	75	75	75	75	
	Max Height	Out-In	Below Indoor	m	30	30	30	30	30	30	30	
			Above Indoor	m	30	30	30	30	30	30	30	
Guaranteed Operation Range	Out	Cooling	°C	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	
		Heating	°C	-25 ~ +21	-25 ~ +21	-25 ~ +21	-25 ~ +21	-25 ~ +21	-25 ~ +21	-25 ~ +21	-25 ~ +21	

• Conditions for all specification

1. Temperature conditions are based on JIS B8616

Cooling	Indoor	27°C DB, 19°C WB
	Outdoor	35°C DB
Heating	Indoor	20°C DB
	Outdoor	7°C DB, 6°C WB

2. Refrigerant piping length: 5m

3. Total input are indicated based on the following voltages

50Hz	Indoor unit	Outdoor unit
	1ph. 230V	1ph. 230V/3ph. 400V

• Optional Parts

Description	Model	Remarks
Filter Box	PAC-KE92TB-E	For PEAD-RP35/ 50JA(L)
	PAC-KE93TB-E	For PEAD-RP60/ 71JA(L)
	PAC-KE94TB-E	For PEAD-RP100/ 125JA(L)
	PAC-KE95TB-E	For PEAD-RP140JA(L)



FM 33568 / ISO 9001;2000

The Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality, management for the production of refrigeration and air conditioning equipment.

ISO Authorization System

The ISO 9000 series is a plant authorization system relating to quality management as stipulated by the ISO. ISO 9001 certifies quality management based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.



Certificate Number EC97J1227

The Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO).

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The specifications, designs and information in this brochure are subject to change without notice.

MITSUBISHI ELECTRIC
AIR CONDITIONING SYSTEMS

Changes for the Better

Ceiling concealed type

Ceiling concealed New
PEAD-RP JA(L)

SERIES SELECTION

Power Inverter Series
Standard Inverter Series
Fixed-speed Series
ZUBADAN Series

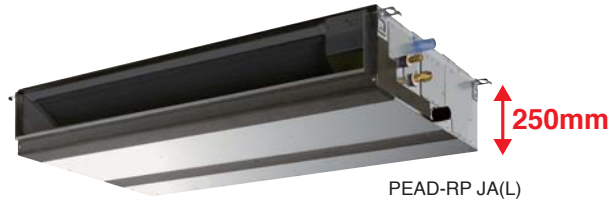


PEAD-RP35/50/60/71/100/125/140JA(L)

The PEAD-RP JA(L) series are ducted indoor units concealed within the ceiling space to allow unobtrusive air conditioning. With a thin body, they are the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space. The unit precisely controls the indoor temperature while operating with optimum energy usage offering a higher energy-saving efficiency and reduction in electricity consumption.

Compact Indoor Units

For all models unit height are unified to 250mm. Compared to the previous PEAD-RP EA model, the height size is reduced by 75mm (models RP100-140), allowing installation in tight spaces, such as ceiling cavities or drop-ceilings.



PEAD-RP JA(L)

Reduction of 75mm (models RP100-140) compared to PEAD-EA

Rank A" Energy Savings Achieved

Models in all capacity ranges have achieved the "Rank A" energy savings rating. This contributes to an impressive reduction in energy consumption.

■ Previous Model: PEAD-RP EA (equipped with power inverter)

Capacity	35		50		60		71	
	cooling	Heating	cooling	Heating	cooling	Heating	cooling	Heating
Energy Rank	A	B	C	C	A	B	A	B

Capacity	100		125		140	
	cooling	Heating	cooling	Heating	cooling	Heating
Energy Rank	A	B	A	B	A	B

■ New Model PEAD-RP JA(L) (equipped with power inverter)

Capacity	35		50		60		71	
	cooling	Heating	cooling	Heating	cooling	Heating	cooling	Heating
Energy Rank	A	A	A	A	A	A	A	A

Capacity	100		125		140	
	cooling	Heating	cooling	Heating	cooling	Heating
Energy Rank	A	A	A	A	A	A

External static pressure

Five-stage external static pressure settings provide flexibility for duct extension, branching and air outlet configuration and are adjustable to meet different application conditions. Setting ranges to a maximum of 150Pa.

■ External static pressure setting

Series	35	50	60	71	100	125	140
PEAD-RP EA		30/70Pa		70/130 (with optional motor) Pa			
PEAD-RP GA				10/50/70Pa			
PEAD-RP JAL				35/50/70/100/150Pa			

Drain Pump Option

The line-up consists of two types, models with or without a built-in drain pump allowing more freedom in piping layout design.



PEAD-RP JA Drain pump built-in



PEAD-RP JAL No Drain pump

* Units with a "L" at the end of the model name are not equipped with a drain pump.

Specification: Power inverter series

Model Name	Indoor Unit Outdoor Unit	PEAD-RP35JA(L)	PEAD-RP50JA(L)	PEAD-RP60JA(L)	PEAD-RP71JA(L)	PEAD-RP100JA(L)	PEAD-RP125JA(L)	PEAD-RP125JA(L)	PEAD-RP140JA(L)	PEAD-RP140JA(L)	
Power Supply [V, Phase, Hz]		230V, 1 phase, 50Hz									
Refrigerant		R410A									
Cooling	Capacity	Rated kW	3.6	5.0	6.0	7.1	10.0	10.0	12.5	14.0	
	Min. - Max.	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	6.2 - 15.3	
	Total Input	Rated kW	1.020(1.000)	1.550(1.530)	1.600(1.580)	2.030(2.010)	2.770(2.750)	2.770(2.750)	3.860(3.840)	4.360(4.340)	
Heating	Capacity	Rated kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	16.0	
	Min. - Max.	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5.0 - 16.0	5.7 - 18.0	
	Total Input	Rated kW	1.100	1.560	1.750	2.000	2.720	2.720	3.500	4.040	
Operating Current(max)	Input	Rated (C/H) A	14.1	14.4	20.6	21.0	29.2	10.7	29.3	30.8	
	Operating Current(max)	A	0.090(0.070)/0.070	0.110(0.090)/0.090	0.120(0.100)/0.100	0.170(0.150)/0.150	0.250(0.230)/0.230	0.250(0.230)/0.230	0.360(0.340)/0.340	0.390(0.370)/0.370	
	Dimensions	Height mm	250	250	250	250	250	250	250		
Weight	Lo - Mid - Hi	m³/min.	10.0 - 12.0 - 14.0	12.0 - 14.5 - 17.0	14.5 - 18.0 - 21.0	17.5 - 21.0 - 25.0	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0	32.0 - 39.0 - 46.0	
	External Static Pressure	Pa	35 / 50 / 70 / 100 / 150								
	Sound Level	Lo - Mid - Hi dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	33 - 36 - 40	
Outdoor Unit	Dimensions	Height mm	600	600	943	943	1338	1338	1338	1338	
	Width mm	mm	800	800	950	950	1050	1050	1050	1050	
	Depth mm	mm	300 (+23)	300 (+23)	330 (+30)	330 (+30)	330 (+30)	330 (+30)	330 (+30)	330 (+30)	
Ext. Piping	Diameter	Gas / Liquid(Φ) mm	12.7 / 6.35	12.7 / 6.35	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	
	Max. Length	Out-In Total m	50	50	50	50	75	75	75	75	
	Max. Height	Out-In Total m	30	30	30	30	30	30	30	30	
Guaranteed Operation Range	Out Cooling	°C	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	
	Out Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	

Note : Values in () are in case of PEAD-RP JAL.

Specification: Standard inverter series

Model Name	Indoor Unit Outdoor Unit	PEAD-RP35JA(L)	PEAD-RP50JA(L)	PEAD-RP60JA(L)	PEAD-RP71JA(L)	PEAD-RP100JA(L)	PEAD-RP125JA(L)	PEAD-RP140JA(L)	
Power Supply [V, Phase, Hz]		230V, 1 phase, 50Hz							
Refrigerant		R410A							
Cooling	Capacity	Rated kW	3.6	4.9	5.7	7.1	9.4	12.3	
	Min. - Max.	kW	1.0 - 3.9	1.1 - 5.6	1.1 - 6.3	0.9 - 8.1	4.9 - 11.2	5.5 - 14.0	
	Total Input	Rated kW	(1.120(1.100))	(1.740(1.720))	(2.030(2.010))	(2.530(2.510))	(3.040(3.020))	(4.330(4.310))	
Heating	Capacity	Rated kW	4.1	5.9	7.0	8.0	11.2	14.0	
	Min. - Max.	kW	0.9 - 5.0	0.9 - 7.2	0.9 - 8.0	0.9 - 10.2	4.5 - 12.5	5.0 - 16.0	
	Total Input	Rated kW	(1.13)	(1.69)	(2.07)	(2.49)	(3.20)	(4.11)	
Operating Current(max)	Input	Rated (C/H) A	10.3	17.4	17.6	18.0	30.7	30.8	
	Operating Current(max)	A	0.090(0.070)/0.070	0.110(0.090)/0.090	0.120(0.100)/0.100	0.170(0.150)/0.150	0.250(0.230)/0.230	0.360(0.340)/0.340	
	Dimensions	Height mm	250	250	250	250	250	250	
Weight	Lo - Mid - Hi	m³/min.	10.0 - 12.0 - 14.0	12.0 - 14.5 - 17.0	14.5 - 18.0 - 21.0	17.5 - 21.0 - 25.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0	
	External Static Pressure	Pa	35 / 50 / 70 / 100 / 150						
	Sound Level	Lo - Mid - Hi dB(A)	23 - 27 - 30	26 - 31 - 35	25 - 29 - 33	26 - 30 - 34	29 - 34 - 38	33 - 36 - 40	
Outdoor Unit	Dimensions	Height mm	550	850	850	850	943	1350	
	Width mm	mm	800	840	840	840	950	950	
	Depth mm	mm	285	330	330	330	330(+30)	330(+30)	
Ext. Piping	Diameter	Gas / Liquid(Φ) mm	9.52 / 6.35	12.7 / 6.35	15.88 / 6.35	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	
	Max. Length	Out-In Total m	20	30	30	30	50	50	
	Max. Height	Out-In Total m	12	30	30	30	30	30	
Guaranteed Operation Range	Out Cooling	°C	-10 ~ +46	-15 ~ +43	-15 ~ +43	-15 ~ +43	-5 ~ +46	-5 ~ +46	
	Out Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	

Note : Values in () are preliminary value. Values in () are in case of PEAD-RP JAL.

Specification: Fixed-speed (Heat pump)

Model Name	Indoor Unit Outdoor Unit	PEAD-RP71JA(L)	PEAD-RP71JA(L)	PEAD-RP100JA(L)	PEAD-RP100JA(L)	PEAD-RP125JA(L)	PEAD-RP140JA(L)	
Power Supply [V, Phase, Hz]		230V, 1 phase, 50Hz	400V, 3 phase, 50Hz	230V, 1 phase, 50Hz	400V, 3 phase, 50Hz	230V, 1 phase, 50Hz	400V, 3 phase, 50Hz	
Refrigerant		R410A						
Cooling	Capacity	Rated kW	7.9	7.9	10.0	10.0	12.3	
	Min. - Max.	kW	2.97(2.95)	2.97(2.95)	3.69(3.67)	3.69(3.67)	4.41(4.39)	5.63(5.61)
	Total Input	Rated kW	2.66(2.68)	2.66(2.68)	2.71(2.72)	2.71(2.72)	2.79(2.80)	2.52(2.53)
Heating	Capacity	Rated kW	9.0	9.0	11.5	11.5	14.3	
	Min. - Max.	kW	3.11	3.11	3.42	3.42	4.32	5.28
	Total Input	Rated kW	2.99	2.89	3.36	3.36	3.31	3.16
Operating Current(max)	Input	Rated (C/H) A	25.5	9.8	31.2	12.1	15.4	
	Operating Current(max)	A	0.170(0.150) / 0.150	0.170(0.150) / 0.150	0.250(0.230) / 0.230	0.250(0.230) / 0.230	0.360(0.340) / 0.340	0.390(0.370) / 0.370
	Dimensions	Height mm	250	250	250	250	250	
Weight	Lo - Mid - Hi	m³/min.	17.5 - 21.0 - 25.0	17.5 - 21.0 - 25.0	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0	
	External Static Pressure	Pa	35 / 50 / 70 / 100 / 150					
	Sound Level	Lo - Mid - Hi dB(A)	26 - 30 - 34	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	
Outdoor Unit	Dimensions	Height mm	943	943	943	943	1350	
	Width mm	mm	950	950	950	950	950	
	Depth mm	mm	330(+30)	330(+30)	330(+30)	330(+30)	330(+30)	
Ext. Piping	Diameter	Gas / Liquid(Φ) mm	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	
	Max. Length	Out-In Total m	50	50	50	50	50	
	Max. Height	Out-In Total m	50	50	50	50	50	
Guaranteed Operation Range	Out Cooling	°C	-5 ~ 46	-5 ~ 46	-5 ~ 46	-5 ~ 46	-5 ~ 46	
	Out Heating	°C	-11 ~ 24	-11 ~ 24	-11 ~ 24	-11 ~ 24	-11 ~ 24	

Note : Values in () are in case of PEAD-RP JAL.

Specification: Fixed-speed (Cooling only)

Model Name	Indoor Unit Outdoor Unit	PEAD-RP71JA(L)	PEAD-RP71JA(L)	PEAD-RP100JA(L)	PEAD-RP100JA(L)	PEAD-RP125JA(L)	PEAD-RP140JA(L)	
Power Supply [V, Phase, Hz]		230V, 1 phase, 50Hz	400V, 3 phase, 50Hz	230V, 1 phase, 50Hz	400V, 3 phase, 50Hz	230V, 1 phase, 50Hz	400V, 3 phase, 50Hz	
Refrigerant		R410A						
Cooling	Capacity	Rated kW	7.9	7.9	10.0	10.0	12.3	
	Min. - Max.	kW	2.97(2.95)	2.97(2.95)	3.69(3.67)	3.69(3.67)	4.41(4.39)	
	Total Input	Rated kW	2.66(2.68)	2.66(2.68)	2.71(2.72)	2.71(2.72)	2.79(2.80)	
Operating Current(max)	Input	Rated (C/H) A	25.5	9.8	31.2	12.1	15.4	
	Operating Current(max)	A	0.170(0.150) / 0.150	0.170(0.150) / 0.150	0.250(0.230) / 0.230	0.250(0.230) / 0.230	0.360(0.340) / 0.340	
	Dimensions	Height mm	250	250	250	250	250	
Weight	Lo - Mid - Hi	m³/min.	17.5 - 21.0 - 25.0	17.5 - 21.0 - 25.0	24.0 - 29.0 - 34.0	24.0 - 29.0 - 34.0	29.5 - 35.5 - 42.0	
	External Static Pressure	Pa	35 / 50 / 70 / 100 / 150					
	Sound Level	Lo - Mid - Hi dB(A)	26 - 30 - 34	26 - 30 - 34	29 - 34 - 38	29 - 34 - 38	33 - 36 - 40	
Outdoor Unit	Dimensions	Height mm	943	943	943	943	1350	
	Width mm	mm	950	950	950	950	950	
	Depth mm	mm	330(+30)	330(+30)	330(+30)	330(+30)	330(+30)	
Ext. Piping	Diameter	Gas / Liquid(Φ) mm	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	15.88 / 9.52	
	Max. Length	Out-In Total m	50	50	50	50	50	
	Max. Height	Out-In Total m	50	50	50	50	50	
Guaranteed Operation Range	Out Cooling	°C	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	-5 ~ +46	
	Out Heating	°C	-11 ~ 24	-11 ~ 24	-11 ~ 24	-11 ~ 24	-11 ~ 24	

Note : Values in () are in case of PEAD-RP JAL.