

PEAD SERIES

R32
R410A



PEAD-M35/50/60/71/100/125/140JA2

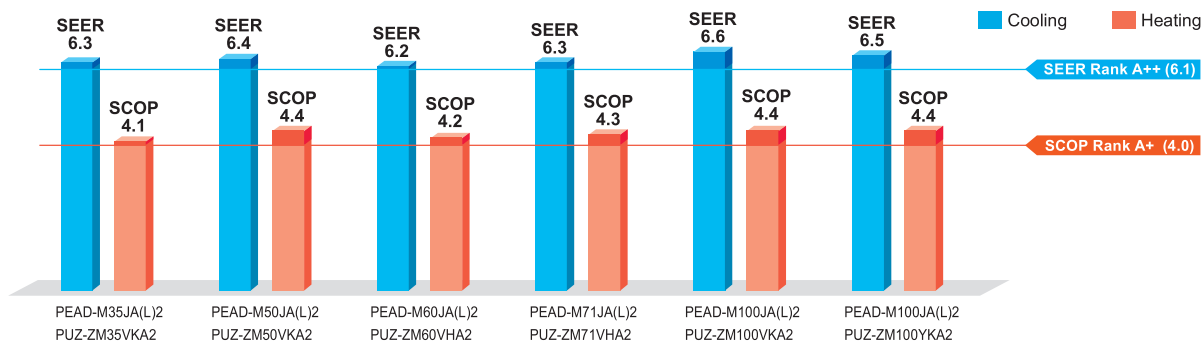


Energy efficiency has been improved. A reduced electricity consumption contributes to a further reduction in operating cost. The thin body with a wide-ranged external static pressure of this series is the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space.

ErP Lot-10 compliant, Achieving High Energy Efficiency



The shape of fan wing and casing is improved to provide more smooth air flow, increasing the operation efficiency. All models under 12kW(M35~M100) are complied with ErP Lot 10 and energy rankings of A++ for cooling and A+ for heating. This contributes to a reduction in the cost of annual electricity.



Compact Indoor Units

The height of the models from 35-140 has been unified to 250 mm, which makes installation in low ceiling with minimal clearance space possible.

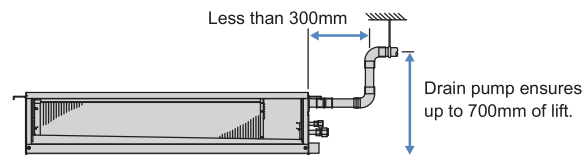
Selectable Static Pressure Levels

External static pressure conversion can be set up to five levels. Capable of being set to a maximum of 150 Pa, units are applicable to a wide range of building types.

Drain Pump is Optionally Selectable

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

- PEAD-M JA2 ▶ Built-in drain pump
- PEAD-M JAL2 ▶ No drain pump



Connectable to Plasma Quad Connect

The optional Plasma Quad Connect MAC-100FT-E can be installed on the indoor unit's air inlet side. For installation, PQ attachment or PQ box is required.

SERIES SELECTION

Power Inverter Series



Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140JA(L)2

Outdoor Unit

R32

For Single



PUZ-ZM35/50 PUZ-ZM60/71 PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-ZM71 PUZ-ZM100/125/140/200/250

Remote Controller



Optional



Optional



Optional



Optional*



Optional*

* PAR-SA9CA-E is also required.

PEAD-M JA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

Indoor Unit Combination	Outdoor Unit Capacity																				
	For Single								For Twin					For Triple			For Quadruple				
	35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250	
Power Inverter (PUZ-ZM)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4	
Distribution Pipe	-	-	-	-	-	-	-	-	-	MSDD-50TR2-E					MSDD-50WR2-E			MSDT-111R3-E		MSDF-1111R2-E	

SERIES SELECTION

Standard Inverter Series



Indoor Unit

R32
R410A



PEAD-M35/50/60/71/100/125/140JA(L)2

Outdoor Unit

R32

For Single



SUZ-M35 SUZ-M50 SUZ-M60/71 PUZ-M100/125/140

R32

For Multi
(Twin/Triple/Quadruple)



PUZ-M100/125/140 PUZ-M200/250

Remote Controller



Optional



Optional



Optional



Optional*



Optional*

* PAR-SA9CA-E is also required.

PEAD-M JA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

Indoor Unit Combination	Outdoor Unit Capacity																				
	For Single								For Twin					For Triple			For Quadruple				
	35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250	
Standard Inverter (PUZ-M&SUZ)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4	
Distribution Pipe	-	-	-	-	-	-	-	-	-	MSDD-50TR2-E					MSDD-50WR2-E			MSDT-111R3-E		MSDF-1111R2-E	

PEAD-M SERIES

POWER INVERTER



Type		Inverter Heat Pump											
Indoor Unit		PEAD-M35JAIL12	PEAD-M50JAIL12	PEAD-M60JAIL12	PEAD-M71JAIL12	PEAD-M100JAIL12	PEAD-M100JAIL12	PEAD-M125JAIL12	PEAD-M125JAIL12	PEAD-M140JAIL12	PEAD-M140JAIL12		
Outdoor Unit		SUZ-M35VKA2	SUZ-M50VKA2	SUZ-M60VHA2	SUZ-M71VHA2	PUZ-M100VKA2	PUZ-M100VKA2	PUZ-M125VKA2	PUZ-M125VKA2	PUZ-M140VKA2	PUZ-M140VKA2		
Refrigerant ^{*)}		R32											
Power Supply		Outdoor power supply											
Source		VKA-VKA:230/Single/50, YKA:400/Three/50											
Outdoor(V/Phase/Hz)													
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	12.5	12.5	13.4	13.4	
		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	5.5 - 14.0	6.2 - 15.3	6.2 - 15.3
	Total Input	Rated	kW	0.837	1.190	1.487	1.775	2.261	2.261	3.333	3.333	3.701	3.701
	EER ^{**)}	Rated		4.30	4.20	4.10	4.00	4.20	4.20	3.75	3.75	3.62	3.62
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	—	—	—	—
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	12.5	14.0	14.0	16.0	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	5.0 - 16.0	5.7 - 18.0	5.7 - 18.0
	Total Input	Rated	kW	0.911	1.363	1.590	1.904	2.545	2.545	3.763	3.763	4.102	4.102
	COP ^{**)}	Rated		4.50	4.40	4.40	4.20	4.40	4.40	3.72	3.72	3.90	3.90
	Design load		kW	2.4	3.8	4.4	4.9	7.8	7.8	—	—	—	—
Declared Capacity	at reference design temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.9 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	—	—	—	—	
	at bivalent temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.9 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	—	—	—	—	
	at operation limit temperature	kW	2.2 (-11°C)	3.7 (-11°C)	2.8 (-10°C)	3.4 (-10°C)	5.8 (-10°C)	5.8 (-10°C)	—	—	—	—	
Back up heating capacity		kW	0.0	0.0	0.0	0.0	0.0	0.0	—	—	—	—	
Annual electricity consumption ^{**)}		kWh/a	816	1202	1459	1595	2469	2470	—	—	—	—	
SEER ^{**) (40/5)}			4.1	4.4	4.2	4.3	4.4	4.4	—	—	—	—	
	Energy efficiency class		A+	A+	A+	A+	A+	A+	—	—	—	—	
Operating Current(Max)		A	14.2	14.4	20.9	20.9	22.3	10.3	28.8	11.3	32.6	14.4	
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.05	0.07	0.08	0.09	0.14	0.14	0.20	0.20	0.21	0.21
	Operating Current(Max)		A	1.16	1.35	1.85	1.9	2.25	2.25	2.34	2.63	2.63	
	Dimensions	H*W*D	mm	250x900x732	250x900x732	250x1100x732	250x1100x732	250x1400x732	250x1400x732	250x1400x732	250x1600x732	250x1600x732	
	Weight	kg	25(24.5)	26.5(25.5)	29.5(29)	29.5(29)	37(36)	37(36)	38(37)	38(37)	42(41)	42(41)	
	Air Volume (Lo-Mid-Hi)	m ³ /min	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	14.5-18.0-23.0	23.0-28.0-32.0	23.0-28.0-32.0	28.0-34.0-37.0	28.0-34.0-37.0	29.5-35.5-40.0	29.5-35.5-40.0	
	External Static Pressure ^{**) (SP)}	Pa	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	
	Sound Level (Lo-Mid-Hi) (SPL)	dB(A)	24-29-32	27-33-35	26-32-35	26-32-37	31-36-39	31-36-39	35-39-41	35-39-41	34-38-41	34-38-41	
	Sound Level (PWL)	dB(A)	54	58	56	58	62	62	66	66	66	66	
Outdoor Unit	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950(330+25)	943-950(330+25)	1338-1050(330+40)	1338-1050(330+40)	1338-1050(330+40)	1338-1050(330+40)	1338-1050(330+40)	
	Weight	kg	46	46	67	67	105	111	105	114	105	118	
	Air Volume	Cooling	m ³ /min	45	45	55	55	110	110	120	120	120	
		Heating	m ³ /min	45	45	55	55	110	110	120	120	120	
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	50	50	50	
		Heating	dB(A)	46	46	49	49	51	51	52	52	52	
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70	
		Heating	dB(A)	65	65	67	67	69	69	70	70	70	
	Operating Current(Max)	A	13	13	19	19	20	8	26.5	9	30	11.8	
	Breaker Size	A	16	16	25	25	32	16	32	16	40	16	
Ext.Piping	Diameter ^{**) (R)}	Liquid/Gas	mm	6.35 / 12.7	6.35 / 12.7	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	
	Max.Length	Out-In	m	50	50	55	55	100	100	100	100	100	
	Max.Height	Out-In	m	30	30	30	30	30	30	30	30	30	
Guaranteed Operating Range (Outdoor)	Cooling ^{**) (3)}	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	
	Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

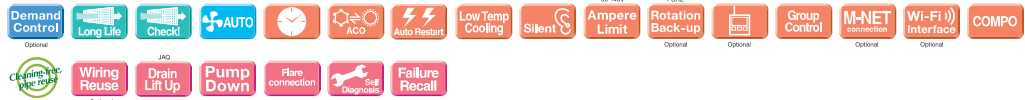
*3 Optional air protection guide is required where ambient temperature is lower than -5°C. *4 EER/COP and SEER/SCOP for M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa.

*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012. *6 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

*7 The factory setting of ESP is shown without < > .

PEAD-M SERIES

STANDARD INVERTER



Type		Inverter Heat Pump											
Indoor Unit		PEAD-M35JAIL12	PEAD-M50JAIL12	PEAD-M60JAIL12	PEAD-M71JAIL12	PEAD-M100JAIL12	PEAD-M100JAIL12	PEAD-M125JAIL12	PEAD-M125JAIL12	PEAD-M140JAIL12	PEAD-M140JAIL12		
Outdoor Unit		SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA2	PUZ-M100VKA2	PUZ-M125VKA2	PUZ-M125VKA2	PUZ-M140VKA2	PUZ-M140VKA2		
Refrigerant ^{*)}		R32											
Power Supply		Outdoor power supply											
Source		VA-VKA:230/Single/50, YKA:400/Three/50											
Outdoor(V/Phase/Hz)													
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
		Min-Max	kW	0.8 - 3.9	1.7 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	6.0 - 13.0	6.0 - 13.0	6.1 - 14.1	6.1 - 14.1
	Total Input	Rated	kW	0.923	1.351	1.694	2.028	2.878	2.878	4.019	4.019	4.768	4.768
	EER ^{**) (40/5)}	Rated		3.90	3.70	3.60	3.50	3.30	3.30	3.01	3.01	2.81	2.81
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	—	—	—	—
Annual electricity consumption ^{**) (2)}		kWh/a	199	277	345	397	538	538	—	—	—	—	
SEER ^{**) (40/5)}			6.3	6.3	6.1	6.2	6.1	6.1	—	—	—	—	
	Energy efficiency class		A++	A++	A++	A++	A++	A++	—	—	—	—	
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0
		Min-Max	kW	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	2.8 - 12.5	2.8 - 12.5	4.1 - 15.0	4.1 - 15.0	4.2 - 15.8	4.2 - 15.8
	Total Input	Rated	kW	1.005	1.463	1.842	2.105	2.947	2.947	3.739	3.739	4.155	4.155
	COP ^{**) (40/5)}	Rated		4.00	4.10	3.80	3.80	3.80	3.80	3.61	3.61	3.61	3.61
	Design load		kW	2.6	4.3	4.6	5.8	8.0	8.0	—	—	—	—
Declared Capacity	at reference design temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	—	—	—	—	
	at bivalent temperature	kW	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.2 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	—	—	—	—	
	at operation limit temperature	kW	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	4.5 (-15°C)	4.5 (-15°C)	—	—	—	—	
Back up heating capacity		kW	0.3	0.5	0.5	0.6	2.0	2.0	—	—	—	—	
Annual electricity consumption ^{**) (2)}		kWh/a	884	1417	1558	1973	2725	2725	—	—	—	—	
SEER ^{**) (40/5)}			4.1	4.2	4.1	4.1	4.1	4.1	—	—	—	—	
	Energy efficiency class		A+	A+	A+	A+	A+	A+	—	—	—	—	
Operating Current(Max)		A	9.7	14.9	16.7	16.7	22.3	13.8	27.8	12.8	31.4	12.9	
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.05	0.07	0.08	0.09	0.14	0.14	0.20	0.20	0.21	0.21
	Operating Current(Max)		A	1.16	1.35	1.85	1.9	2.25	2.25	2.34	2.63	2.63	
	Dimensions	H*W*D	mm	250x900x732	250x900x732	250x1100x732	250x1100x732	250x1400x732	250x1400x732	250x1400x732	250x1600x732	250x1600x732	
	Weight	kg	25(24.5)	26.5(25.5)	29.5(29)	29.5(29)	37(36)	37(36)	38(37)	38(37)	42(41)	42(41)	
	Air Volume (Lo-Mid-Hi)	m ³ /min	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	14.5-18.0-23.0	23.0-28.0-32.0	23.0-28.0-32.0	28.0-34.0-37.0	28.0-34.0-37.0	29.5-35.5-40.0	29.5-35.5-40.0	
	External Static Pressure ^{**) (SP)}	Pa	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	35-<50>-<70>-<100>-<150>	
	Sound Level (Lo-Mid-Hi) (SPL)	dB(A)	24-29-32	27-33-35	26-32-35	26-32-37	31-36-39	31-36-39	35-39-41	35-39-41	34-38-41	34-38-41	
	Sound Level (PWL)	dB(A)	54	58	56	58	62	62	66	66	66	66	
Outdoor Unit	Dimensions	H*W*D	mm	550-800-285	714-800-285	880-840-330	880-840-330	981-1050-330(40)	981-1050-330(40)	981-1050-330(40)	981-1050-330(40)	981-1050-330(40)	
	Weight	kg	35	41	54	54	76	78	85	86	85	86	
	Air Volume	Cooling	m ³ /min	34.3	45.8	50.1	50.1	79	79	86	86	86	
		Heating	m ³ /min	32.7	43.7	50.1	50.1	79	79	92			