PEAD SERIES

PEAD-SP71/100/125/140JAL

The thin, ceiling-concealed indoor units of this series are the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space and wide-ranging external static pressure. Energy-saving efficiency has been improved, reducing electricity consumption and contributing to a further reduction in operating cost.

Compact Indoor Units

The height of the models from 35-140 has been unified to 250 mm. Compared to the previous PEAD-EA model, the height has been reduced by as much as 75 mm (models 100-140), making installation in low ceilings with minimal clearance space possible.

PEAD-SM JAL

Reduction of **75mm** (models 100–140) compared to PEAD-EA

External Static Pressure

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

■External static pressure setting

Series	71	100	125	140
PEAD-SM JAL	35/50/70/100/150 Pa			

New Outdoor Units

Mitsubishi Electric introduces a new model of outdoor units for PUHZ-SP, less than one meter high. The unit is available in sizes 12,5/14 kW 1-phase and 10/12,5/14 kW 3-phase.
This new one-fan chassis allows for great flexibility and reduced impact of the unit on sight.

Dispite reduced dimensions capacity and **piping lenght is the same:**

- Max piping length: 40m (30m for 100)
- Max vertical difference: 30m

PUHZ-SP125/140VKA
PUHZ-SP100/125/140YKA

Also, model PUHZ-SP140V/YKA allows for Free Compo Twin connection:

Only PUHZ-SP140V/YKA

2x

PLA-SM71

PEAD-SM71

Joints:
Twin: MSDD-50TR2-E NEW

OU Capacity	Twin
	50:50
140	71:2

PEAD SERIES

SERIES SELECTION

Indoor Unit

PEAD-SM71/100/125/140JAL

Outdoor Unit

SUZ-SA71VA3
SUZ-SA100VA2

PUHZ-SP125/140VKA
PUHZ-SP100/125/140YKA

Remote Controller (Optional)

PAR-40MAA
Optional

PAC-YT52CRA
Optional

PAR-FL32MA
Optional

PEAD-SM SERIES

Type				Inverter Heat Pump						
Indoor Unit				PEAD-SM71JAL	PEAD-SM100JAL		PEAD-SM125JAL		PEAD-SM140JAL	
Outdoor Unit				SUZ-SA71VA3	SUZ-SA100VA2	PUHZ-SP100YKA	PUHZ-SP125VKA	PUHZ-SP125YKA	PUHZ-SP140VKA	PUHZ-SP140YKA
Refrigerant				R410A(*1)						
Power Supply	Source			Outdoor unit power supply						
	Outdoor (V / Phase / Hz)			VA · VKA:230 / Single / 50, YKA:400 / Three / 50						
Cooling	Capacity	Rated	kW	7,1	9,4	9,4	12,1		13,6	
		Min-Max	kW	3,2-8,1	5-9,9	3.7-10.6	5.6-13.0		5.8-14.1	
	Total Input	Rated	kW	2,35	3,12	3,08	4,3		5,4	
	EER			3,02	3,01	3,05	2,81		2,51	
		EEL Rank		-	-	-	-		-	
	Design load		kW	7,1	9,4	9,4	12,1		13,6	
	Annual electricity consumption*2		kWh/a	477	711	712	1534		1689	
	SEER			5,2	4,6	4,6	186,30%		190,20%	
		Energy efficiency class		A	B	B	-		-	
Heating (Average Season)	Capacity	Rated	kW	8	11,2	11,2	13,5		15	
		Min-Max	kW	3,5-8,9	5,1-11,5	2,8-12,5	4.8-15.0		4.9-15.8	
	Total Input	Rated	kW	2,21	3,1	3,02	3,84		4,39	
	COP			3,61	3,61	3,7	3,51		3,41	
		EEL Rank		-	-	-	-		-	
	Design load		kW	6	8	8	8,5		9,4	
	Declared Capacity	at reference design temperature	kW	5,2(-10°C)	5,9(-10°C)	6.3(-10°C)	8.5(-10°C)		9.4(-10°C)	
		at bivalent temperature	kW	5,4(-7°C)	7,1(-7°C)	7.0(-7°C)	8.5(-10°C)		9.4(-10°C)	
		at operation limit temperature	kW	5,2(-10°C)	5,9(-10°C)	4.5(-15°C)	6.0(-15°C)		7.0(-15°C)	
	Back up heating capacity		kW	0,8	1,6	1,7	0		0	
	Annual electricity consumption*2		kWh/a	2189	2927	2937	3122		3676	
	SCOP			3,8	3,8	3,8	149,50%		140,20%	
		Energy efficiency class		A	A	A	-		-	
Indoor Unit	Input	Rated	kW	0.17 / 0.15	0.25 / 0.23	0.25 / 0.23	0.36 / 0.34	0.36 / 0.34	0.39 / 0.37	0.39 / 0.37
	Operating Current(Max)		A	1,97	2,65	2,65	2,76	2,76	2,78	2,78
	Dimensions	HxWxD	mm	250-1100-732						
	Weight		kg	33	39		40		44	
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	17.5 - 21.0 - 25.0	24.0 - 29.0 - 34.0		29.5 - 35.5 - 42.0		32.0 - 39.0 - 46.0	
	Sound Level (SPL) (Lo-Mi2-Mi1-Hi)		dB(A)	26 - 30 - 34	29 - 34 - 38		33 - 36 - 40		34 - 38 - 43	
	Sound Level (PWL)		dB(A)	58	62		72		75	
Outdoor Unit	Dimensions	HxWxD	mm	880x840x330		981x1050x330				
	Weight		kg	52	56	78	84	85	84	85
	Air Volume	Cooling	m³/min	50,1	53,57	79	86		86	
		Heating	m³/min	48,2	53,71	-	92		92	
	Sound Level (SPL)	Cooling	dB(A)	55	55	51	54		56	
		Heating	dB(A)	55	55	54	56		57	
	Sound Level (PWL)	Cooling	dB(A)	69	69	70	72		75	
	Operating Current (Max)		A	16,1	16,1	11,5	26,5	11,5	30	11,5
	Breaker Size		A	20	20	16	32	16	40	16
Ext. Piping	Diameter	Liquid/Gas	mm	9.52 / 15.88						
	Max.Length	Out-In	m	30			40			
	Max.Height	Out-In	m	30						
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46			-15 ~ +46			
		Heating	°C	-10 ~ +24			-15 ~ +24			
Refrigerant/GWP				R410A/2088(*4)						
Pre-Charged quantity		Weight	kg	1,80	2,20	3,30	3,80	3,80	3,80	3,80
		CO_2 equivalent	t	3,76	4,59	6,89	7,93	7,93	7,93	7,93
Max added quantity		Weight	kg	2,95	3,35	3,90	4,40	4,40	4,40	4,40
		CO_2 equivalent	t	6,16	6,99	8,14	9,19	9,19	9,19	9,19

(*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 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO 2 , 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.
(*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.