


SERIES SELECTION


Power Inverter Series

Indoor Unit

R32
R410A



PKA-M35/50LA(L)2






PKA-M60/71/100KA(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 (*) *PKA-M-LAL2 only

(*) PAC-SH29TC-E is required for LAL and KAL (optional)

PKA-M LA(L)2/KA(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	-	-	-	-	35x2	50x2	60x2	71x2	100x2	-	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



PKA-M35/50LA(L)2




PKA-M60/71/100KA(L)2

Outdoor Unit

R32


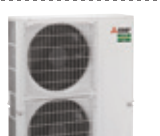
For Single



PUZ-M100





R32

For Multi (Twin/Triple/Quadruple)

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

Remote Controller

Optional (*) Optional Optional (*) *PKA-M-LAL2 only

(*) PAC-SH29TC-E is required for LAL and KAL (optional)

PKA-M LA(L)2/KA(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)	-	-	-	-	100x1	-	-	-	-	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4	
Distribution Pipe	-	-	-	-	-	-	-	-	-	MSDD-50TR2-E	MSDD-50WR2-E	-	-	-	-	MSDT-111R3-E	-	-	MSDF-1111R2-E	-

PKA-M SERIES POWER INVERTER



Type	Inverter Heat Pump											
Indoor Unit	PKA-M35LA(L)2		PKA-M50LA(L)2		PKA-M60KA(L)2		PKA-M71KA(L)2		PKA-M100KA(L)2		PKA-M100KA(L)2	
Outdoor Unit	PUZ-ZM35VKA2		PUZ-ZM50VKA2		PUZ-ZM60VHA2		PUZ-ZM71VHA2		PUZ-ZM100VKA2		PUZ-ZM100YKA2	
Refrigerant ⁽¹⁾	R32											
Power Supply	Outdoor power supply											
Source	VKA-VHA.230/Single/50, YKA.400/Three/50											
Outdoor(V/Phase/Hz)												
Cooling	Capacity	Rated	kW		3.6		4.6		6.1		7.1	
		Min-Max	kW		1.6 - 4.5		2.3 - 5.6		2.7 - 6.7		3.3 - 8.1	
	Total Input	Rated	kW		0.857		1.239		1.560		1.863	
	EER				4.20		3.71		3.91		3.81	
	Design load		kW		3.6		4.6		6.1		7.1	
	Annual electricity consumption ⁽²⁾		kWh/a		194		244		314		365	
SEER ⁽⁴⁾				6.5		6.6		6.8		6.8		
Heating	Capacity	Rated	kW		4.1		5.0		7.0		8.0	
		Min-Max	kW		1.6 - 5.2		2.5 - 7.0		2.8 - 8.2		3.5 - 10.2	
	Total Input	Rated	kW		1.040		1.344		1.732		2.116	
	COP				3.94		3.72		4.04		3.78	
	Design load		kW		2.4		3.3		4.4		4.7	
	Declared Capacity	at reference design temperature	kW		2.4 (-10°C)		3.3 (-10°C)		4.4 (-10°C)		4.7 (-10°C)	
		at bivalent temperature	kW		2.4 (-10°C)		3.3 (-10°C)		4.4 (-10°C)		4.7 (-10°C)	
		at operation limit temperature	kW		2.2 (-11°C)		3.2 (-11°C)		2.8 (-20°C)		3.4 (-20°C)	
	Back up heating capacity		kW		0.0		0.0		0.0		0.0	
	Annual electricity consumption ⁽²⁾		kWh/a		829		1074		1464		1530	
SCOP ⁽⁴⁾				4.0		4.3		4.2		4.4		
Operating Current(Max)	Input [cooling / Heating]	Rated	A		13.4		13.4		19.4		20.6	
			kW		0.04 / 0.03		0.04 / 0.03		0.06 / 0.05		0.08 / 0.07	
	Operating Current(Max)		A		0.35		0.35		0.43		0.57	
	Dimensions	H*W*D	mm		299-898-237		299-898-237		365-1170-295		365-1170-295	
	Weight		kg		12.6		12.6		21		21	
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min		7.5-8.2-9.2-10.9		7.5-8.2-9.2-10.9		18-20-22		18-20-22	
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)		34-37-40-43		34-37-40-43		39-42-45		39-42-45	
	Sound Level (PWL)		dB(A)		60		60		64		65	
	Sound Level (SPL)	Cooling	dB(A)		44		44		47		47	
		Heating	dB(A)		46		46		49		49	
Sound Level (PWL)	Cooling	dB(A)		65		65		67		69		
	Heating	dB(A)		65		65		67		69		
Operating Current(Max)		A		13		13		19		20		
Breaker Size		A		16		16		25		32		
Ext.Piping	Diameter ⁽⁵⁾	Liquid/Gas	mm		6.35 / 12.7		6.35 / 12.7		9.52 / 15.88		9.52 / 15.88	
	Max.Length	Out-In	m		50		50		55		55	
	Max.Height	Out-In	m		30		30		30		30	
Guaranteed Operating Range (Outdoor)	Cooling ⁽³⁾	°C		-15 ~ +46		-15 ~ +46		-15 ~ +46		-15 ~ +46		
	Heating	°C		-11 ~ +21		-11 ~ +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 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

⁵ Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PKA-M SERIES STANDARD INVERTER



Type	Inverter Heat Pump											
Indoor Unit	PKA-M100KA(L)2		PKA-M100KA(L)2		PKA-M100KA(L)2		PKA-M100KA(L)2		PKA-M100KA(L)2		PKA-M100KA(L)2	
Outdoor Unit	PUZ-M100VKA2		PUZ-M100VKA2		PUZ-M100VKA2		PUZ-M100VKA2		PUZ-M100VKA2		PUZ-M100VKA2	
Refrigerant ⁽¹⁾	R32											
Power Supply	Outdoor power supply											
Source	VKA-VHA.230/Single/50, YKA.400/Three/50											
Outdoor(V/Phase/Hz)												
Cooling	Capacity	Rated	kW		9.5		9.5		9.5		9.5	
		Min-Max	kW		4.0 - 10.6		4.0 - 10.6		4.0 - 10.6		4.0 - 10.6	
	Total Input	Rated	kW		2.941		2.941		2.941		2.941	
	EER				3.23		3.23		3.23		3.23	
	Design load		kW		9.5		9.5		9.5		9.5	
	Annual electricity consumption ⁽²⁾		kWh/a		573		573		573		573	
SEER ⁽⁴⁾				5.8		5.8		5.8		5.8		
Heating	Capacity	Rated	kW		11.2		11.2		11.2		11.2	
		Min-Max	kW		2.8 - 12.5		2.8 - 12.5		2.8 - 12.5		2.8 - 12.5	
	Total Input	Rated	kW		3.284		3.284		3.284		3.284	
	COP				3.41		3.41		3.41		3.41	
	Design load		kW		8.0		8.0		8.0		8.0	
	Declared Capacity	at reference design temperature	kW		6.0 (-10°C)		6.0 (-10°C)		6.0 (-10°C)		6.0 (-10°C)	
		at bivalent temperature	kW		7.0 (-7°C)		7.0 (-7°C)		7.0 (-7°C)		7.0 (-7°C)	
		at operation limit temperature	kW		4.5 (-15°C)		4.5 (-15°C)		4.5 (-15°C)		4.5 (-15°C)	
	Back up heating capacity		kW		2.0		2.0		2.0		2.0	
	Annual electricity consumption ⁽²⁾		kWh/a		2780		2780		2780		2780	
SCOP ⁽⁴⁾				4.0		4.0		4.0		4.0		
Operating Current(Max)	Input [cooling / Heating]	Rated	A		20.6		20.6		12.1		12.1	
			kW		0.08 / 0.07		0.08 / 0.07		0.08 / 0.07		0.08 / 0.07	
	Operating Current(Max)		A		0.57		0.57		0.57		0.57	
	Dimensions	H*W*D	mm		365-1170-295		365-1170-295		365-1170-295		365-1170-295	
	Weight		kg		21		21		21		21	
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min		20-23-26		20-23-26		20-23-26		20-23-26	
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)		41-45-49		41-45-49		41-45-49		41-45-49	
	Sound Level (PWL)		dB(A)		65		65		65		65	
	Sound Level (SPL)	Cooling	dB(A)		51		51		51		51	
		Heating	dB(A)		54		54		54		54	
Sound Level (PWL)	Cooling	dB(A)		70		70		70		70		
	Heating	dB(A)		70		70		70		70		
Operating Current(Max)		A		20.0		20.0		11.5		11.5		
Breaker Size		A		32		32		16		16		
Ext.Piping	Diameter ⁽⁵⁾	Liquid/Gas	mm		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88		9.52 / 15.88	
	Max.Length	Out-In	m		55		55		55		55	
	Max.Height	Out-In	m		30		30		30		30	
Guaranteed Operating Range (Outdoor)	Cooling ⁽³⁾	°C		-15 ~ +46		-15 ~ +46		-15 ~ +46		-15 ~ +46		
	Heating	°C		-15 ~ +21		-15 ~ +21		-20 ~ +21		-20 ~ +21		

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SERIES SELECTION


Power Inverter Series

Indoor Unit

R32 R410A




PKA-M35/50LA(L)2



PKA-M60/71/100KA(L)2

Remote Controller




Optional (*)


Outdoor Unit

R410A


For Single



PUHZ-ZRP35/50




PUHZ-ZRP60/71




PUHZ-ZRP100

R410A

For Multi (Twin/Triple/Quadruple)



PUHZ-ZRP71



PUHZ-ZRP100/125/140/200/250

(*) PAC-SH29TC-E is required for LAL and KAL (optional)

PKA-M LA(L)/KA(L) 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 (PUHZ-ZRP)	35x1	50x1	60x1	71x1	100x1	-	-	-	-	35x2	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4	
Distribution Pipe	-	-	-	-	-	-	-	-	-	MSDD-50TR-E				MSDD-50WR-E	-	MSDT-111R-E		MSDF-1111R-E		-	-

SERIES SELECTION


Standard Inverter Series

Indoor Unit

R32 R410A




PKA-M35/50LA(L)2



PKA-M60/71/100KA(L)2

Remote Controller




Optional (*)

Outdoor Unit

R410A


For Single




PUHZ-P100

R410A

For Multi (Twin/Triple/Quadruple)



PUHZ-P100/125/140



PUHZ-P200/250

(*) PAC-SH29TC-E is required for LAL and KAL (optional)

PKA-M LA/KA 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 (PUHZ-P)	-	-	-	-	100x1	-	-	-	-	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4	-	
Distribution Pipe	-	-	-	-	-	-	-	-	-	MSDD-50TR-E				MSDD-50WR-E	-	MSDT-111R-E		MSDF-1111R-E		-	-

PKA-M SERIES

POWER INVERTER

Type	Inverter Heat Pump								
Indoor Unit	PKA-M35LA(L)2	PKA-M50LA(L)2	PKA-M60KA(L)2	PKA-M71KA(L)2	PKA-M100KA(L)2	PKA-M100KA(L)2			
Outdoor Unit	PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VKA2	PUHZ-ZRP71VKA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100YKA3			
Refrigerant ⁽¹⁾	R410A								
Power Source	Outdoor power supply								
Supply	VKA-VHA:230/Single/50, YKA:400/Three/50								
Cooling	Capacity	Rated	kW	3.6	4.6	6.1	7.1	9.5	9.5
		Min-Max	kW	1.6 - 4.5	2.3 - 5.4	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4
	Total Input	Rated	kW	0.940	1.424	1.601	1.802	2.398	2.398
	EER			3.80	3.23	3.81	3.94	3.96	3.96
	Design load		kW	3.6	4.6	6.1	7.1	9.5	9.5
	Annual electricity consumption⁽²⁾		kWh/a	206	263	324	367	522	532
	SEER⁽⁴⁾		6.1	6.1	6.5	6.7	6.3	6.2	
	Energy efficiency class		A++	A++	A++	A++	A++	A++	
Heating	Capacity	Rated	kW	4.1	5.0	7.0	8.0	11.2	11.2
		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
	Total Input	Rated	kW	1.070	1.501	1.960	2.191	3.043	3.043
	COP			3.83	3.33	3.57	3.65	3.68	3.68
	Design load		kW	2.4	3.3	4.4	4.7	7.8	7.8
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)
	at bivalent temperature	kW	2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	
	at operation limit temperature	kW	2.2 (-11°C)	3.2 (-11°C)	2.8 (-20°C)	3.5 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	
Back up heating capacity		kW	0.0	0.0	0.0	0.0	0.0	0.0	
Annual electricity consumption⁽²⁾		kWh/a	841	1126	1466	1529	2659	2660	
	SCOP⁽⁴⁾		3.9	4.1	4.2	4.3	4.1	4.1	
	Energy efficiency class		A	A+	A+	A+	A+	A+	
Operating Current(Max)		A	13.4	13.4	19.4	19.4	27.1	8.6	
Indoor Unit	Input (cooling / Heating)	Rated	kW	0.04 / 0.03	0.04 / 0.03	0.06 / 0.05	0.06 / 0.05	0.08 / 0.07	0.08 / 0.07
	Operating Current(Max)		A	0.35	0.43	0.43	0.43	0.57	0.57
	Dimensions	H*W*D	mm	299-898-237	299-898-237	365-1170-295	365-1170-295	365-1170-295	365-1170-295
	Weight		kg	12.6	12.6	21	21	21	21
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	7.5-8.2-9.2-10.9	7.5-8.2-9.2-10.9	18-20-22	18-20-22	20-23-26	20-23-26
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	34-37-40-43	34-37-40-43	39-42-45	39-42-45	41-45-49	41-45-49
	Sound Level (PWL)		dB(A)	60	60	64	64	65	65
	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+30)	943-950-330(+30)	1338-1050-330(+40)	1338-1050-330(+40)
	Weight		kg	43	46	70	70	116	123
	Air Volume	Cooling	m³/min	45	45	55	55	110	110
	Heating	m³/min	45	45	55	55	110	110	
Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	
	Heating	dB(A)	46	46	48	48	51	51	
Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	
Operating Current(Max)		A	13	13	19	19	26.5	8	
Breaker Size		A	16	16	25	25	32	16	
Ext.Piping	Diameter⁽⁵⁾	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
	Max.Length	Out-In	m	50	50	50	50	75	75
	Max.Height	Out-In	m	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
	Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	

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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 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

⁵ Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PKA-M SERIES

STANDARD INVERTER

Type	Inverter Heat Pump			
Indoor Unit	PKA-M100KA(L)2	PKA-M100YKA	PKA-M100YKA	
Outdoor Unit	PUHZ-P100VKA	PUHZ-P100YKA	PUHZ-P100YKA	
Refrigerant ⁽¹⁾	R410A			
Power Source	Outdoor power supply			
Supply	VKA-VHA:230/Single/50, YKA:400/Three/50			
Cooling	Capacity	Rated	kW	9.4
		Min-Max	kW	3.7 - 10.6
	Total Input	Rated	kW	3.122
	EER			3.01
	Design load		kW	9.4
	Annual electricity consumption⁽²⁾		kWh/a	586
	SEER⁽⁴⁾		5.6	
	Energy efficiency class		A+	
Heating	Capacity	Rated	kW	11.2
		Min-Max	kW	2.8 - 12.5
	Total Input	Rated	kW	3.489
	COP			3.21
	Design load		kW	8.0
	Declared Capacity	at reference design temperature	kW	6.0 (-10°C)
	at bivalent temperature	kW	7.0 (-7°C)	
	at operation limit temperature	kW	4.5 (-15°C)	
Back up heating capacity		kW	2.0	
Annual electricity consumption⁽²⁾		kWh/a	2799	
	SCOP⁽⁴⁾		4.0	
	Energy efficiency class		A+	
Operating Current(Max)		A	12.1	
Indoor Unit	Input (cooling / Heating)	Rated	kW	0.08 / 0.07
	Operating Current(Max)		A	0.57
	Dimensions	H*W*D	mm	365-1170-295
	Weight		kg	21
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	20-23-26
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	41-45-49
	Sound Level (PWL)		dB(A)	65
	Dimensions	H*W*D	mm	981-1050-330
	Weight		kg	76
	Air Volume	Cooling	m³/min	79
	Heating	m³/min	79	
Sound Level (SPL)	Cooling	dB(A)	51	
	Heating	dB(A)	54	
Sound Level (PWL)	Cooling	dB(A)	70	
Operating Current(Max)		A	11.5	
Breaker Size		A	32	
Ext.Piping	Diameter⁽⁵⁾	Liquid/Gas	mm	9.52 / 15.88
	Max.Length	Out-In	m	50
	Max.Height	Out-In	m	30
Guaranteed Operating Range (Outdoor)	Cooling ⁽³⁾	°C	-15 ~ +46	
	Heating	°C	-15 ~ +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 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012. ⁵ Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.