

PCA-M KA SERIES

POWER INVERTER



Type	PCA-M35KA3 PCA-M50KA3 PCA-M60KA3 PCA-M71KA3 PCA-M100KA3 PCA-M100KA3 PCA-M100KA3 PCA-M125KA3 PCA-M125KA3 PCA-M140KA3 PCA-M140KA3															
Indoor Unit	PUZ-ZM35VKA3 PUZ-ZM50VKA3 PUZ-ZM60VHA3 PUZ-ZM71VHA3 PUZ-ZM100VDA2 PUZ-ZM100VDA2 PUZ-ZM100VDA2 PUZ-ZM125VDA2 PUZ-ZM125VDA2 PUZ-ZM140VDA2 PUZ-ZM140VDA2															
Outdoor Unit	R32															
Refrigerant ⁽¹⁾	R32															
Power Supply	Source	Outdoor power supply														
	Outdoor (V/Phase/Hz)	230/Single/50				400/Three/50				230/Single/50		400/Three/50		230/Single/50		400/Three/50
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	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	5.1 - 14.0	5.1 - 14.0	5.4 - 15.0	5.4 - 15.0			
	Total Input	Rated	kW	0.830	1.250	1.522	1.830	2.375	2.375	3.788	3.788	3.942	3.942			
	EER			4.34	4.00	4.01	3.88	4.00	4.00	3.30	3.30	3.40	3.40			
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4			
	Annual electricity consumption ⁽²⁾		kWh/a	197	260	328	371	517	528	1174	1180	1267	1274			
	SEER ⁽⁴⁾			6.4	6.7	6.5	6.7	6.4	6.2	6.39	6.35	6.35	6.31			
	Energy efficiency class			A++	A++	A++	A++	A++	A++	A++	A++	A++	A++			
	ηsc	%		—	—	—	—	—	—	252.6%	251.1%	250.9%	249.5%			
	Heating	Capacity	Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0		
		Min-Max	kW	1.6 - 5.2	2.5 - 6.6	2.8 - 8.2	3.5 - 10.2	2.7 - 14.0	2.7 - 14.0	3.2 - 16.0	3.2 - 16.0	3.7 - 18.0	3.7 - 18.0			
Total Input		Rated	kW	1.020	1.362	1.746	2.157	3.112	3.112	4.243	4.243	4.706	4.706			
COP				4.02	4.04	4.01	3.71	3.60	3.60	3.30	3.30	3.40	3.40			
Design load			kW	2.7	3.8	4.4	4.7	7.8	7.8	9.3	9.3	10.6	10.6			
Declared Capacity		at reference design temperature	kW	2.7 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-10°C)			
		at bivalent temperature	kW	2.7 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	9.3 (-10°C)	9.3 (-10°C)	10.6 (-10°C)	10.6 (-10°C)			
		at operation limit temperature	kW	2.2 (-11°C)	3.7 (-11°C)	2.8 (-12°C)	3.4 (-12°C)	5.8 (-12°C)	5.8 (-12°C)	7.0 (-12°C)	7.0 (-12°C)	7.9 (-12°C)	7.9 (-12°C)			
Back up heating capacity			kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Annual electricity consumption ⁽²⁾			kWh/a	936	1266	1501	1567	2523	2524	3002	3003	3340	3341			
SCOP ⁽⁴⁾			4.0	4.2	4.1	4.2	4.3	4.3	4.34	4.34	4.44	4.44				
Energy efficiency class			A+	A+	A+	A+	A+	A+	A+	A+	A+	A+				
ηsh	%		—	—	—	—	—	—	170.5%	170.4%	174.7%	174.7%				
Operating Current (Max)			A	13.3	13.5	19.4	19.4	27.2	8.7	27.3	9.8	30.9	9.9			
Indoor Unit	Input (Cooling/Heating)	Rated	kW	0.04 / 0.03	0.05 / 0.06	0.06 / 0.06	0.06 / 0.06	0.09 / 0.09	0.07 / 0.07	0.11 / 0.11	0.11 / 0.11	0.14 / 0.14	0.14 / 0.14			
	Operating Current (Max)		A	0.29	0.5	0.39	0.42	0.65	0.47	0.76	0.76	0.9	0.9			
	Dimensions	H*W*D	mm	230 - 960 - 680	230 - 960 - 680	230 - 1280 - 680	230 - 1280 - 680	230 - 1600 - 680	298 - 840 - 840	230 - 1600 - 680	230 - 1600 - 680	230 - 1600 - 680	230 - 1600 - 680			
	Weight		kg	25	26	32	32	37	26	38	38	40	40			
	Air Volume (Lo-Mid-Mid-Hi)		m³/min	10 - 11 - 12 - 14	10 - 11 - 13 - 15	15 - 16 - 17 - 19	16 - 17 - 18 - 20	22 - 24 - 26 - 28	19 - 22 - 25 - 28	23 - 25 - 27 - 29	23 - 25 - 27 - 29	24 - 26 - 29 - 32	24 - 26 - 29 - 32			
	Sound Level (Lo-Mid-Mid-Hi) (SPL)		dB(A)	31 - 33 - 36 - 39	32 - 34 - 37 - 43	33 - 35 - 37 - 40	35 - 37 - 39 - 41	37 - 39 - 41 - 43	31 - 34 - 37 - 40	39 - 41 - 43 - 45	39 - 41 - 43 - 45	41 - 43 - 45 - 48	41 - 43 - 45 - 48			
	Sound Level (PWL)		dB(A)	60	60	60	62	63	61	65	65	68	68			
	Dimensions	H*W*D	mm	630 - 809 - 320	630 - 809 - 320	943 - 950 - 355	943 - 950 - 355	870 - 1100 - 505	870 - 1100 - 505	870 - 1100 - 505	870 - 1100 - 505	870 - 1100 - 505	870 - 1100 - 505			
	Weight		kg	46	46	67	67	108	114	108	116	108	121			
	Air Volume	Cooling	m³/min	40	40	55	55	80	80	84	84	97	97			
Outdoor Unit		Heating	m³/min	40	34	55	55	58	58	77	77	80	80			
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	44	44	47	47	49	49			
		Heating	dB(A)	46	46	49	49	48	48	50	50	51	51			
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	63	63	66	66	68	68			
		Heating	dB(A)	65	65	67	67	63	63	66	66	68	68			
	Operating Current (Max)		A	13.0	13.0	19.0	19.0	26.5	8.0	26.5	9.0	30.0	9.0			
	Breaker Size		A	16	16	25	25	32	16	32	16	40	16			
	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	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	100			
	Max.Height	Out-In	m	30	30	30	30	30	30	30	30	30	30			
Guaranteed Operating Range		Cooling ⁽³⁾	°C	-15 ~ 46	-15 ~ 46	-15 ~ 46	-15 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46			
(Outdoor)		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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 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.