PLA-ZM SERIES

POWER INVERTER

Type													
Indoor Unit				PLA-ZM35EA3	PLA-ZM50EA3	PLA-ZM60EA3	PLA-ZM71EA3	PLA-ZM100EA3	PLA-ZM100EA3	PLA-ZM125EA3	PLA-ZM125EA3	PLA-ZM140EA3	PLA-ZM140EA3
Outdoor Unit				PUZ-ZM35VKA3	PUZ-ZM50VKA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM100YDA2	PUZ-ZM125VDA2	PUZ-ZM125YDA2	PUZ-ZM140VDA2	PUZ-ZM140YDA2
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 - 6.5	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	0.706	1.107	1.453	1.652	2.160	2.160	3.473	3.473	3.622	3.622
	EER			5.10	4.52	4.20	4.30	4.40	4.40	3.60	3.60	3.70	3.70
	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	168	230	296	327	426	436	1003	1010	1087	1094
	SEER [*4]			7.5	7.6	7.2	7.6	7.8	7.6	7.48	7.43	7.39	7.35
		Energy efficiency class		A++	A++	A++	A++	A++	A++	–	–	–	–
	ηsc		%	–	–	–	–	–	–	296.2%	294.1%	292.8%	290.9%
Heating	Capacity	Rated	kW	4.1	6.0	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 - 7.3	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	0.820	1.364	1.708	1.819	2.667	2.667	3.889	3.889	4.572	4.572
	COP			5.00	4.40	4.10	4.40	4.20	4.20	3.60	3.60	3.50	3.50
	Design load		kW	2.7	3.8	4.4	5.3	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)	5.3 (-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)	5.3 (-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	2.1 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.4 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	7.0 (-20°C)	7.0 (-20°C)	7.9 (-20°C)	7.9 (-20°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	804	1086	1339	1544	2273	2274	2752	2753	3203	3204
	SCOP [*4]			4.7	4.9	4.6	4.8	4.8	4.8	4.73	4.73	4.63	4.63
		Energy efficiency class		A++	A++	A++	A++	A++	A++	–	–	–	–
	ηsh		%	–	–	–	–	–	–	186.2%	186.2%	182.3%	182.3%
Operating Current (Max)			A	13.2	13.2	19.2	19.3	270	8.5	270	9.5	30.7	9.7
Indoor Unit	Input [Cooling/Heating]	Rated	kW	0.03 / 0.03	0.03 / 0.03	0.03 / 0.03	0.05 / 0.05	0.07 / 0.07	0.07 / 0.07	0.08 / 0.08	0.08 / 0.08	0.10 / 0.10	0.10 / 0.10
	Operating Current (Max)		A	0.21	0.22	0.22	0.34	0.47	0.47	0.52	0.52	0.66	0.66
	Dimensions	H*W*D	mm	258 - 840 - 840	258 - 840 - 840	258 - 840 - 840	298 - 840 - 840	298 - 840 - 840	298 - 840 - 840	298 - 840 - 840	298 - 840 - 840	298 - 840 - 840	298 - 840 - 840
	Weight		kg	21	21	21	24	26	26	26	26	26	26
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	11 - 13 - 15 - 16	12 - 14 - 16 - 18	12 - 14 - 16 - 18	17 - 19 - 21 - 23	19 - 22 - 25 - 28	19 - 22 - 25 - 28	21 - 24 - 26 - 29	21 - 24 - 26 - 29	24 - 26 - 29 - 32	24 - 26 - 29 - 32
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	26 - 28 - 29 - 31	27 - 29 - 31 - 32	27 - 29 - 31 - 32	28 - 30 - 33 - 36	31 - 34 - 37 - 40	31 - 34 - 37 - 40	33 - 36 - 39 - 41	33 - 36 - 39 - 41	36 - 39 - 42 - 44	36 - 39 - 42 - 44
	Sound Level (PWL)		dB(A)	51	54	54	57	61	61	62	62	65	65
Outdoor Unit	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
		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
	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
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	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 (Outdoor)		Cooling [*3]	°C	-15 ~ 46	-15 ~ 46	-15 ~ 46	-15 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 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 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 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. 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.