

# Air Conditioning

## Product Information

High SHF Combinations  
R410A Power Inverter  
Heat Pump Systems

Making a  
World of  
Difference

Mr.SUM.



The Power Inverter range blends a host of outstanding features with a streamlined design. Offering high seasonal efficiency, advanced control options and quiet operation, this range provides extreme flexibility and ease of installation. These combinations specifically allow high SHF's to be achieved.

### Key Features

- Improved airflow control, providing uniform air distribution
- Flush to wall installation for concealment of service connections
- Internal pipe connection to wall mounted unit for easy and neat installation
- CN22 connector as standard on wall mounted unit for connection to PAR-33MAA hard wired controller
- High / Low ceiling height modes included on ceiling suspended unit
- Replace Technology available



Cooling | Heating | Ventilation | Controls



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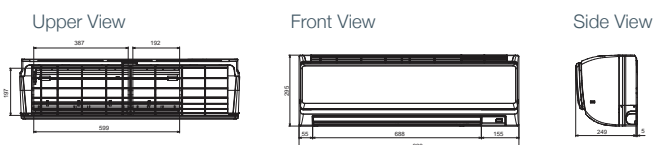
INDOOR UNITS		PKA-M50HA	PKA-M60KA	PKA-M71KA	PCA-M71KA	PCA-M100KA	PCA-M125KA	PCA-M125KA
CAPACITY (kW)	Heating (nominal)	4.1 (1.6-5.2)	6.0 (2.5-7.3)	7.0 (2.8-8.2)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (4.5-14.0)	11.2 (4.5-14.0)
	Cooling (nominal)	3.6 (1.6-4.5)	5.0 (2.3-5.6)	6.1 (2.7-6.7)	6.1 (2.7-6.7)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	9.5 (4.9-11.4)
SHF (nominal)		0.98	1.00	0.98	0.98	1.00	0.96	0.96
COP / EER (nominal)		4.38 / 4.10	4.32 / 4.02	3.57 / 3.81	3.78 / 3.62	4.16 / 3.80	4.32 / 4.28	4.32 / 4.28
SCOP / SEER (BS EN14825)		4.40 / 6.70	4.40 / 6.60	4.20 / 6.50	4.20 / 6.50	4.30 / 6.60	4.20 / 6.50	4.20 / 6.40
ErP ENERGY EFFICIENCY CLASS		Heating/Cooling	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)		Lo-Mi-Mi2-Hi	150-175-200	300-333-367	300-333-367	367-400-433-467	383-417-450-483	383-417-450-483
PIPE SIZE mm (in)	Gas	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
SOUND PRESSURE LEVEL (dBA) Lo-Mi-Mi2-Hi		36-40-43	39-42-45	39-42-45	35-37-39-41	37-39-41-43	39-41-43-45	39-41-43-45
SOUND POWER LEVEL (dBA)		60	64	64	62	63	65	65
DIMENSIONS (mm) Width x Depth x Height		899 x 249 x 295	1170 x 295 x 365	1170 x 295 x 365	1280 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230
WEIGHT (kg)		13	21	21	32	37	38	38
ELECTRICAL SUPPLY		Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6	6
INTERCONNECTING CABLE No. Cores		4	4	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE		PAR-33MAA	PAR-33MAA	PAR-33MAA	PAR-33MAA	PAR-33MAA	PAR-33MAA	PAR-33MAA

PUHZ-ZRP - OUTDOOR UNITS		PUHZ-ZRP35VKA2	PUHZ-ZRP50VKA2	PUHZ-ZRP60VHA2	PUHZ-ZRP60VHA2	PUHZ-ZRP71VHA2	PUHZ-ZRP100VKA3	PUHZ-ZRP100VKA3 <sup>③</sup>
SOUND PRESSURE LEVEL (dBA) Heating/Cooling		46 / 44	46 / 44	48 / 47	48 / 47	48 / 47	51 / 49	51 / 49
SOUND POWER LEVEL (dBA) Cooling		65	65	67	67	67	69	69
WEIGHT (kg)		43	46	67	70	70	116	123
DIMENSIONS (mm) Width x Depth x Height		809 x 300 x 630	809 x 300 x 630	950 x 330 x 943	950 x 330 x 943	950 x 330 x 943	1050 x 330 x 1338	1050 x 330 x 1338
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE		Single	Single	Single	Single	Single	Single	Three
SYSTEM POWER	Heating/Cooling (nominal)	0.94 / 0.88	1.39 / 1.24	1.96 / 1.60	1.85 / 1.69	1.92 / 1.87	2.59 / 2.22	2.59 / 2.22
	Heating/Cooling (UK)	0.79 / 0.75	1.17 / 1.05	1.64 / 1.36	1.55 / 1.44	1.61 / 1.59	2.17 / 1.89	2.17 / 1.89
STARTING CURRENT (A)		4.0	5	5	5.0	6.0	12.0	4.0
SYSTEM RUNNING CURRENT (A) Heating/Cooling [MAX]		4.22 / 3.94 [13.4]	7.23 / 6.56 [13.4]	9.26 / 8.07 [19.4]	9.26 / 8.07 [19.4]	8.75 / 7.79 [19.0]	11.35 / 11.26 [27.3]	4.06 / 4.03 [8.8]
FUSE RATING (BS88) - HRC (A)		16	16	25	25	25	32	16
MAINS CABLE No. Cores		3	3	3	3	3	3	5
MAX PIPE LENGTH (m)		50	50	50	50	50	75	75
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t)								
R410A (GWP 2088) - 30m		2.20 / 4.59	2.40 / 5.01	3.50 / 7.31	3.50 / 7.31	3.50 / 7.31	5.00 / 10.44	5.00 / 10.44
MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t)								
R410A (GWP 2088)		0.40 / 0.84	0.40 / 0.84	1.20 / 2.51	1.20 / 2.51	1.20 / 2.51	2.40 / 5.01	2.40 / 5.01

③ Three Phase Note: SHF Testing, Indoor DB 24°C, Indoor Humidity 40%, Indoor WB 15.5°C, Outdoor DB 35°C.

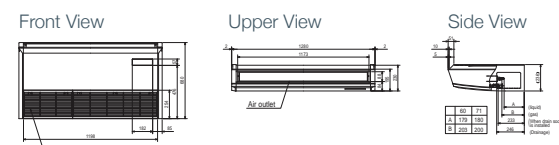
#### PRODUCT DIMENSIONS

##### PKA-M50HA



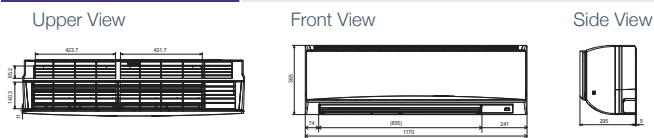
#### PRODUCT DIMENSIONS

##### PCA-M71KA



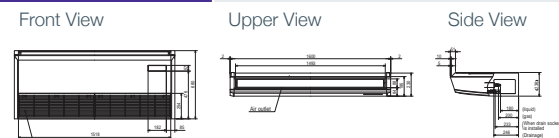
#### PRODUCT DIMENSIONS

##### PKA-M60/71/100KA



#### PRODUCT DIMENSIONS

##### PCA-M100/125KA



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774) or R134a (GWP:1430). These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows: R410A (GWP:1975), R32 (GWP: 550), R407C (GWP:1650) or R134a (GWP:1300).



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