

# PCA-M R32

## Ceiling Suspended System

Power Inverter Heat Pump (Three Phase)

Mr.SLIM™

The **PCA-M Power Inverter** range is a ceiling suspended system that blends a host of outstanding feature with a sophisticated streamlined design.

High seasonal efficiency, advanced control options, extended pipe runs and a wide range of external static pressure settings, make this an extremely flexible solution for commercial applications.

**R32**



### Key Features & Benefits:

- Increased comfort levels through advanced airflow and smart defrost features
- Compact, single fan outdoor unit chassis across the whole range, for unobtrusive and discreet installation
- 100m pipe run (size 100-140), increasing application capability
- Energy monitoring & 14°C set point option as standard; ideal for applications where a specialist ambient condition is required (requires PAR-41MAA controller)
- High / Low ceiling height modes
- Flush to wall installation for concealment of service connections
- Full heating capacity down to -3°C
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-41MAA controller)



## Air Conditioning Product Information

## PCA-M R32 Ceiling Suspended System Power Inverter Heat Pump (Three Phase)

# R32



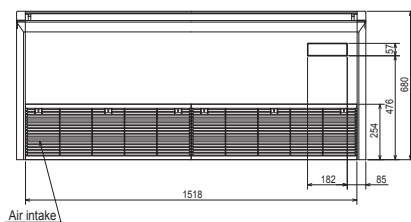
PCA-M INDOOR UNITS		PCA-M100KA2	PCA-M125KA2	PCA-M140KA2
CAPACITY (kW)	Heating (nominal)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)
	Cooling (nominal)	9.5 (4.9-11.4)	12.5 (5.1-14.0)	13.4 (5.4-15.0)
	Heating (UK)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	11.52 (2.66-12.96)
	Cooling (UK)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	12.33 (4.97-13.80)
SHF (nominal)		0.77	0.72	0.72
COP / EER (nominal)		3.60 / 4.00	3.30 / 3.30	3.40 / 3.40
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.30 / 6.20	4.34 (170.4%) / 6.35 (251.1%)	4.44 (174.7%) / 6.31 (249.5%)
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	-	-
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi	220-240-260-280	230-250-270-290	240-260-290-320
PIPE SIZE mm (in)	Gas/Liquid	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")
SOUND PRESSURE Level (dBA)	Lo-Mi1-Mi2-Hi	37-39-41-43	39-41-43-45	41-43-45-48
SOUND POWER Level (dBA)		63	65	68
DIMENSIONS (mm)	Width x Depth x Height	1600 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230
WEIGHT (kg)		37	38	40
ELECTRICAL SUPPLY		Fed by Outdoor	Fed by Outdoor	Fed by Outdoor
FUSE RATING (BS88) - HRC (A)		6	6	6
INTERCONNECTING CABLE	No. Cores	4	4	4
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL94B	PAR-SL94B	PAR-SL94B

PUZ-ZM OUTDOOR UNITS		PUZ-ZM100YDA ③	PUZ-ZM125YDA ③	PUZ-ZM140YDA ③
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	63	66	68
WEIGHT (kg)		114	116	121
DIMENSIONS (mm)	Width x Depth x Height	1100 x 460 + 45 x 870	1100 x 460 + 45 x 870	1100 x 460 + 45 x 870
ELECTRICAL SUPPLY		380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz
PHASE		Three	Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	3.112 / 2.375	4.243 / 3.788	4.706 / 3.942
	Heating/Cooling (UK)	2.55 / 2.02	3.48 / 3.22	3.86 / 3.35
STARTING CURRENT (A)		3.5	3.5	3.5
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.79 / 3.65 [8.7]	6.52 / 5.82 [9.8]	7.23 / 6.05 [9.9]
FUSE RATING (BS88) - HRC (A)		16	16	16
MAINS CABLE No. CORES		5	5	5
MAX PIPE LENGTH (m)		100	100	100
MAX HEIGHT DIFFERENCE (m)		30	30	30
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675) - 40m		3.60 / 2.43	3.60 / 2.43	3.60 / 2.43
MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675)		2.40 / 1.62	2.40 / 1.62	2.40 / 1.62

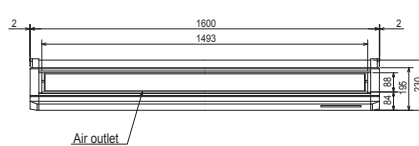
③ Three Phase

### PCA-M100/125/140KA2 DIMENSIONS

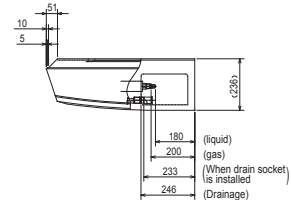
FRONT VIEW



UPPER VIEW



SIDE VIEW



Telephone: 01707 282880  
email: [air.conditioning@meuk.mee.com](mailto:air.conditioning@meuk.mee.com)  
[les.mitsubishielectric.co.uk](http://les.mitsubishielectric.co.uk)



@meuk\_les  
@green\_gateway



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Mitsubishi Electric Living  
Environmental Systems UK



[thehub.mitsubishielectric.co.uk](http://thehub.mitsubishielectric.co.uk)

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880

IRELAND Mitsubishi Electric Europe, Plunkett House, Grange Castle Business Park, Nangor Road, Dublin 22, Ireland. Telephone: (00353) 1 4198800 Email: [sales.info@meir.mee.com](mailto:sales.info@meir.mee.com) Web: [les.mitsubishielectric.ie](http://les.mitsubishielectric.ie)

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Note: The fuse rating is for guidance only and 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), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R515B (GWP:292), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). \*These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a hydrocarbon, R290 (GWP:0.02). \*These GWP values are based on IPCC 6th edition.

Effective as of April 2025



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