

PCA-M R32 Ceiling Suspended System

Power Inverter Heat Pump (Three Phase)



The **PCA-M Power Inverter** range is a ceiling suspended system that blends a host of outstanding features with a sophisticated streamlined design. Offering high seasonal efficiency, advanced control options and extended pipe runs, this range is an extremely flexible solution for commercial applications.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run, 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)



PCA-M - INDOOR UNITS		PCA-M100KA2	PCA-M125KA2	PCA-M140KA2
CAPACITY (kW)	Heating (nominal)	11.2 (4.5-14.0)	14.0 (5.0-16.0)	16.0 (5.7-18.0)
	Cooling (nominal)	9.5 (4.9-11.4)	12.5 (5.5-14.0)	13.4 (6.2-15.0)
	Heating (UK)	9.5 (3.85-11.9)	11.9 (4.25-13.6)	13.6 (4.85-15.3)
	Cooling (UK)	9.2 (4.5-10.5)	11.5 (5.05-12.9)	12.9 (5.7-13.8)
SHF (nominal)		0.77	0.72	0.72
COP / EER (nominal)		3.71 / 4.10	3.54 / 3.25	3.61 / 3.40
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.3 / 6.3	4.3 (168.8%) / 6.1 (249.5%)	4.4 (173.5%) / 6.1 (247.6%)
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	-	-
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi	367-400-433-467	383-417-450-483	400-433-483-533
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 Unit	Fed by Outdoor Unit	Fed by Outdoor Unit
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-ZM100YKA2 ^[3]	PUZ-ZM125YKA2 ^[3]	PUZ-ZM140YKA2 ^[3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	51 / 49	52 / 50	52 / 50
SOUND POWER LEVEL (dBA)	Cooling	69	70	70
WEIGHT (kg)		111	114	118
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338
ELECTRICAL SUPPLY		380-415v,50Hz	380-415v,50Hz	380-415v,50Hz
PHASE		Three	Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	3.018 / 2.317	3.954 / 3.846	4.432 / 3.941
	Heating/Cooling (UK)	2.41 / 1.99	3.51 / 3.26	3.94 / 3.35
STARTING CURRENT (A)		2.6	3.3	3.3
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.34 / 3.31 [8.7]	5.69 / 5.54 [10.3]	6.42 / 5.71 [13.9]
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 ₂ EQUIVALENT (t)	R32 (GWP 675) - 40m	3.60 / 2.43	3.60 / 2.43	3.60 / 2.43
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t)	R32 (GWP 675)	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62

^[3] Three Phase

Accessories

Indoor Units

PAR-SL94B

Wireless remote controller and adaptor for PCA-M100-140KA2

Outdoor Units

PAC-SH96SG

Air outlet guide for PUZ-ZM100-140YKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140YKA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE41TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-41MAA

Standard wired remote controller

MAC-5871F-E

Interface for connection to Wi-Fi MELCloud service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

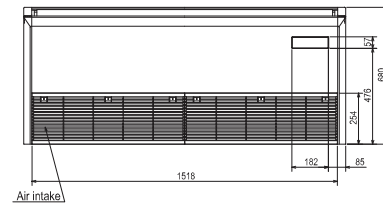
PAC-SJ95MA

M-NET adaptor for size 100 to 140

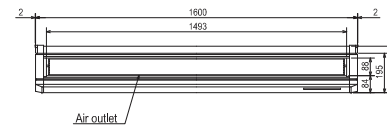
Product Dimensions

PCA-M100/125/140KA2

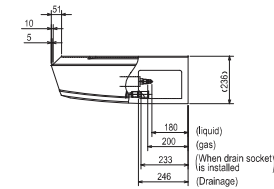
Lower View



Front View



Side View



Note: Please see page 1.3.66 for the full range of accessories.