PCA-M R32 Ceiling Suspended System

Power Inverter Heat Pump
(Three Phase)







POWER INVERTER

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-42MAAB 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-42MAAB controller)

R32

PCA-M - INDOOR UNITS		PCA-M100KA3	PCA-M125KA3	PCA-M140KA3
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	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-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM100YDA2 [3]	PUZ-ZM125YDA2 [3]	PUZ-ZM140YDA2 [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_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-SL95B-E

Wireless remote controller and adaptor for PCA-M100-140KA3

Outdoor Units

PAC-SL12SG-E

Air outlet guide for PUZ-ZM100-140YDA2

System Control Units

PAC-SA89TA

Remote on/off adaptor (3 wire adaptor)

PAC-SA88HA

Run/fault adaptor (5 wire adaptor)

PAC-SE42TS-E

Remote sensor

PAR-CT01MAA-SB/PB

Touch screen wired remote controller (PB=Premium Finish)

PAR-42MAAB/MAAPB

Standard wired remote controller (MAAPB = Black Finish)

MAC-597IF-E

Interface for Wi-Fi connection to MELCloud Home service

MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

MELCORETAIL MINI

Retail control and input / output interface

PAC-SL16MA-E

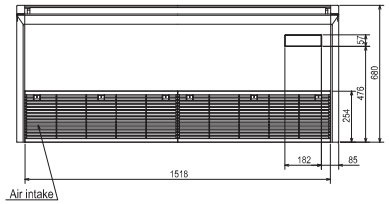
M-NET adaptor for size 100 to 140

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

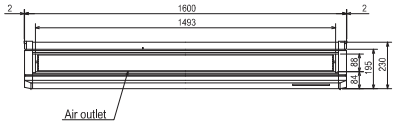
Product Dimensions

PCA-M100/125/140KA3

Lower View



Front View



Side View

