PCA-M R32 Ceiling Suspended System

Power Inverter Heat Pump
(Single 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 (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-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-M50KA3	PCA-M60KA3	PCA-M71KA3	PCA-M100KA3	PCA-M125KA3	PCA-M140KA3
CAPACITY (kW)	Heating (nominal)	5.5 (2.5-6.6)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)
	Cooling (nominal)	5.0 (2.3-5.6)	6.1 (2.7-6.7)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	12.5 (5.1-14.0)	13.4 (5.4-15.0)
	Heating (UK)	4.7 (2.15-5.6)	5.95 (2.4-6.95)	6.8 (3.0-8.65)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	11.52 (2.66-12.96)
	Cooling (UK)	4.6 (2.1-5.15)	5.5 (2.5-6.15)	6.55 (3.05-7.45)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	12.33 (4.97-13.80)
SHF (nominal)		0.79	0.81	0.76	0.77	0.72	0.72
COP / EER (nominal)		4.04 / 4.00	4.01 / 4.01	3.71 / 3.88	3.60 / 4.00	3.30 / 3.30	3.40 / 3.40
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.20 / 6.70	4.10 / 6.50	4.20 / 6.70	4.30 / 6.40	4.34 (170.5%) / 6.39 (252.6%)	4.44 (174.7%) / 6.35 (250.9%)
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	A+ / A++	A+ / A++	-	-
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi	167-183-217-250	250-267-283-317	267-283-300-333	367-400-433-467	383-417-450-483	400-433-483-533
PIPE SIZE MM (in)	Gas/Liquid	12.7 (1/2") / 6.35 (1/4")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")	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	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45	41-43-45-48
SOUND POWER LEVEL (dBA)		60	60	62	63	65	68
DIMENSIONS (mm)	Width x Depth x Height	960 x 680 x 230	1280 x 680 x 230	1280 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230	1600 x 680 x 230
WEIGHT (kg)		26	32	32	37	38	40
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
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6
INTERCONNECTING CABLE	No. Cores	4	4	4	4	4	4
WIRED REMOTE CONTROLLER REFERENCE		PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E	PAR-SL95B-E

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM50VKA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM125VDA2	PUZ-ZM140VDA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	49 / 47	49 / 47	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	65	67	67	63	66	68
WEIGHT (kg)		46	67	67	107	107	107
DIMENSIONS (mm)	Width x Depth x Height	809 x 300 x 630	950 x 330+25 x 943	950 x 330+25 x 943	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE		Single	Single	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	1.361 / 1.25	1.745 / 1.521	2.156 / 1.829	3.112 / 2.375	4.243 / 3.788	4.706 / 3.942
	Heating/Cooling (UK)	1.21 / 1.06	1.55 / 1.29	1.92 / 1.55	2.55 / 2.02	3.48 / 3.22	3.86 / 3.35
STARTING CURRENT (A)		4.3	5.3	5.3	11.9	11.9	11.9
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	5.95 / 5.37 [13.4]	7.43 / 6.48 [19.4]	9.23 / 7.81 [19.4]	14.39 / 10.99 [27.2]	19.63 / 17.52 [27.3]	21.77 / 18.23 [30.9]
FUSE RATING (BS88) - HRC (A)		16	25	25	32	32	40
MAINS CABLE NO. CORES		3	3	3	3	3	3
MAX PIPE LENGTH (m)		50	55	55	100	100	100
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R32 (GWP 675)	2.00 / 1.35 (30m)	2.80 / 1.89 (30m)	2.80 / 1.89 (30m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)	3.60 / 2.43 (40m)
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R32 (GWP 675)	0.30 / 0.20	0.80 / 0.54	0.80 / 0.54	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62

Accessories

Indoor Units

PAR-SL95B-E

Wireless remote controller and adaptor for PCA-M50-140KA3

Outdoor Units

PAC-SJ07SG-E

Air outlet guide for PUZ-ZM50VKA3

PAC-SG59SG-E

Air outlet guide for PUZ-ZM60-71VHA3

PAC-SL12SG-E

Air outlet guide for PUZ-ZM100-140VDA2

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-SK15MA-E

M-NET adaptor for size 50

PAC-SJ95MA-E

M-NET adaptor for size 60 and 71

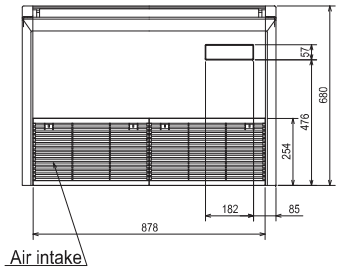
PAC-SL16MA-E

M-NET Adaptor for size 100 to 140

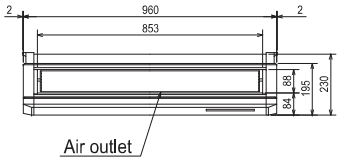
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PCA-M50KA3

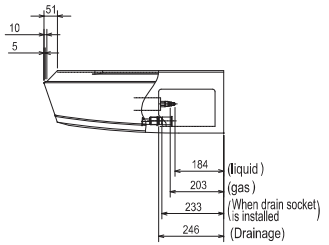
Lower View



Front View

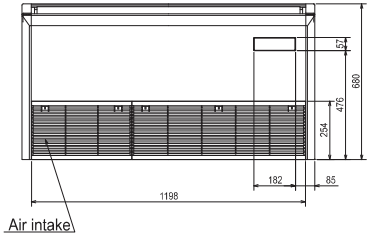


Side View

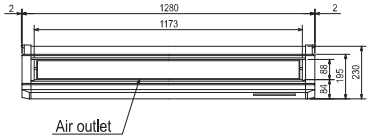


Product Dimensions PCA-M60/71KA3

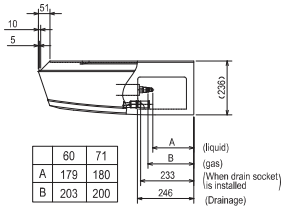
Lower View



Front View



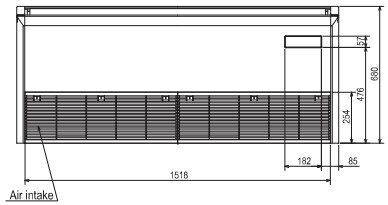
Side View



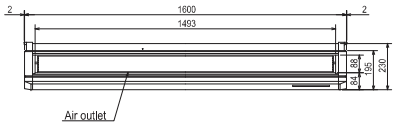
	60	71
A	179	180
B	203	200

Product Dimensions PCA-M100/125/140KA3

Lower View



Front View



Side View

