PKA-M R32 Wall Mounted System

Power Inverter Heat Pump













POWER INVERTER

The **PKA-M Power Inverter** range is a wall mounted system that blends a host of outstanding features with a sleek design. Offering high seasonal efficiency, advanced control options, extended pipe runs and energy monitoring (via PAR-42MAAB controller) as standard, this range is a flexible choice for small commercial and office applications, as well as restaurants and comms rooms.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run (size 100), increasing application capability
- 14°C set point option; ideal for applications where a specialist ambient condition is required (requires PAR-42MAAB or PAR-SL103A-E controller)
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-42MAAB controller)
- Full heating capacity down to -3°C
- Internal pipe connection for ease of installation
- Compatible with Plasma Quad Connect - an innovative, bolt-on air purifying device which neutralises viruses, bacteria, allergens, PM2.5, mould and dust. For more information, please refer to page 1.1.7

R32

PKA-M - INDOOR UNITS		PKA-M35LA3	PKA-M50LA3	PKA-M60KA3	PKA-M71KA3	PKA-M100KA3	PKA-M100KA3
CAPACITY (kW)	Heating (nominal)	4.1 (1.6-5.2)	5.0 (2.5-7.3)	7.0 (2.8-8.2)	8.0 (3.5-10.2)	11.2 (2.7-14.0)	11.2 (2.7-14.0)
	Cooling (nominal)	3.6 (1.6-4.5)	4.6 (2.3-5.6)	6.1 (2.7-6.7)	7.1 (3.3-8.1)	9.5 (4.9-11.4)	9.5 (4.9-11.4)
	Heating (UK)	3.5 (1.35-4.4)	4.25 (2.15-6.2)	5.95 (2.4-6.95)	6.8 (3.0-8.65)	8.06 (1.94-10.08)	8.06 (1.94-10.08)
	Cooling (UK)	3.3 (1.45-4.15)	4.23 (2.1-5.15)	5.5 (2.5-6.15)	6.55 (3.05-7.45)	8.74 (4.51-10.49)	8.74 (4.51-10.49)
SHF (nominal)		0.74	0.66	0.86	0.78	0.73	0.73
COP / EER (nominal)		3.94 / 4.20	3.72 / 3.71	4.04 / 3.91	3.78 / 3.81	3.61 / 3.90	3.61 / 3.90
SCOP / SEER (BS EN14825)		4.00 / 6.50	4.30 / 6.60	4.20 / 6.80	4.30 / 6.80	4.40 / 6.50	4.40 / 6.40
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi	125-137-153-182	125-137-153-182	300-333-367	300-333-367	333-383-433	333-383-433
PIPE SIZE MM (in)	Gas	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Liquid	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
SOUND PRESSURE LEVEL (dBA)	Lo-Mi1-Mi2-Hi	34-37-40-43	34-37-40-43	39-42-45	39-42-45	41-45-49	41-45-49
SOUND POWER LEVEL (dBA)		60	60	64	64	65	65
DIMENSIONS (mm)	Width x Depth x Height	898 x 237 x 299	898 x 237 x 299	1170 x 295 x 365	1170 x 295 x 365	1170 x 295 x 365	1170 x 295 x 365
WEIGHT (kg)		12.6	12.6	21	21	21	21
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-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA	PAR-SL103A-E / PAR-FL32MA

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM35VKA3	PUZ-ZM50VKA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM100YDA2 [3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	46 / 44	49 / 47	49 / 47	48 / 44	48 / 44
SOUND POWER LEVEL (dBA)	Cooling	65	65	67	67	63	63
WEIGHT (kg)		46	46	67	67	107	114
DIMENSIONS (mm)	Width x Depth x Height	809 x 300 x 630	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
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE		Single	Single	Single	Single	Single	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	1.040 / 0.869	1.347 / 1.239	1.732 / 1.560	2.116 / 1.863	3.103 / 2.436	3.103 / 2.436
	Heating/Cooling (UK)	0.81 / 0.84	1.12 / 1.12	1.25 / 1.65	1.54 / 1.92	2.54 / 2.07	2.54 / 2.07
STARTING CURRENT (A)		4.3	4.3	5.3	5.3	11.9	3.5
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.97 / 4.31 [13.4]	5.98 / 5.57 [13.4]	7.41 / 6.65 [19.4]	9.10 / 7.96 [19.4]	14.35 / 11.27 [27.1]	4.77 / 3.74 [8.6]
FUSE RATING (BS88) - HRC (A)		16	16	25	25	32	16
MAINS CABLE NO. CORES		3	3	3	3	3	5
MAX PIPE LENGTH (m)		50	50	55	55	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)	2.00 / 1.35 (30m)	2.80 / 1.89 (30m)	2.80 / 1.89 (30m)	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	0.30 / 0.20	0.80 / 0.54	0.80 / 0.54	2.40 / 1.62	2.40 / 1.62

[3] Three Phase

Accessories

Indoor Units

PAR-FL32MA

Wireless remote controller for PKA-M35-100LA3/KA3

PAR-SL103A-E

Wireless remote controller for PKA-M35-100LA3/KA3

MAC-100FT-E

Plasma Quad Connect air purifying device

Outdoor Units

PAC-SJ07SG-E

Air outlet guide for PUZ-ZM35-50VKA3

PAC-SG59SG-E

Air outlet guide for PUZ-ZM60-71VHA3

PAC-SL12SG-E

Air outlet guide for PUZ-ZM100VDA2/YDA2

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 35 and 50

PAC-SJ95MA-E

M-NET adaptor for size 60 and 71

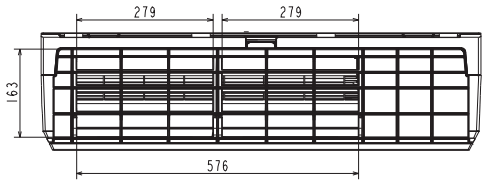
PAC-SL16MA-E

M-NET Adaptor for size 100

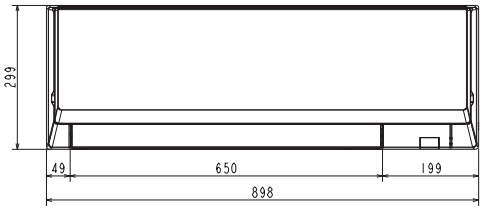
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PKA-M35/50LA3

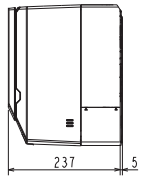
Upper View



Front View

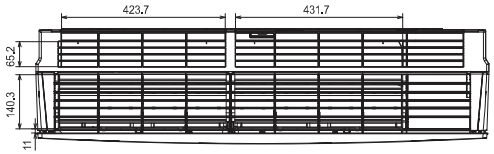


Side View

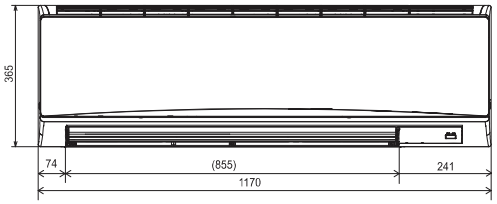


Product Dimensions PKA-M60/71/100KA3

Upper View



Front View



Side View

