

PKA-M R32 Wall Mounted System

Power Inverter Heat Pump

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-41MAA 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-41MAA or PAR-SL101A-E controller)
- 'Backup and rotate' feature to reduce load on individual units and prolong product life (requires PAR-41MAA 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-M35LA2	PKA-M50LA2	PKA-M60KA2	PKA-M71KA2	PKA-M100KA2	PKA-M100KA2
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 (4.5-14.0)	11.2 (4.5-14.0)
	Cooling (nominal)	3.6 (1.6-4.5)	4.6 (2.3-6.6)	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)	9.5 (3.85-11.9)	9.5 (3.85-11.9)
	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)	9.2 (4.5-10.5)	9.2 (4.5-10.5)
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 / 3.95	3.61 / 3.95
SCOP / SEER (BS EN14825)		4.0 / 6.5	4.3 / 6.6	4.2 / 6.8	4.3 / 6.8	4.4 / 6.5	4.4 / 6.4
ERP ENERGY EFFICIENCY CLASS		A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)		Lo-Mi1-Mi2-Hi	Lo-Mi1-Mi2-Hi	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-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA	PAR-SL101A-E / PAR-FL32MA

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100VKA2 ^③
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	46 / 44	49 / 47	49 / 47	51 / 49	51 / 49
	Cooling	65	65	67	67	69	69
SOUND POWER LEVEL (dBA)		46	46	67	67	105	111
WEIGHT (kg)		809 x 300 x 630	809 x 300 x 630	950 x 330 + 25 x 943	950 x 330 + 25 x 943	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338
DIMENSIONS (mm) Width x Depth x Height		220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
ELECTRICAL SUPPLY		Single	Single	Single	Single	Single	Three
PHASE		1.040 / 0.869	1.347 / 1.239	1.732 / 1.560	2.116 / 1.863	3.102 / 2.405	3.102 / 2.405
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	0.81 / 0.84	1.12 / 1.12	1.25 / 1.65	1.54 / 1.92	2.47 / 2.06	2.47 / 2.06
	Heating/Cooling (UK)	4.3	4.3	5.3	5.3	10.7	2.6
STARTING CURRENT (A)		4.97 / 4.31 [13.4]	5.98 / 5.57 [13.4]	7.41 / 6.65 [19.4]	9.10 / 7.96 [19.4]	13.46 / 10.45 [27.1]	4.49 / 5.45 [8.6]
SYSTEM RUNNING CURRENT (A) Heating/Cooling [MAX]		16	16	25	25	32	16
FUSE RATING (BS88) - HRC (A)		3	3	3	3	3	5
MAINS CABLE NO. CORES		50	50	55	55	100	100
MAX PIPE LENGTH (m)		30	30	30	30	30	30
MAX HEIGHT DIFFERENCE (m)		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)
CHARGE 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
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R32 (GWP 675)							

③ Three Phase



Accessories

Indoor Units

PAR-FL32MA

Wireless remote controller for PKA-M35-100LA2/KA2

PAR-SL101A-E

Wireless remote controller for PKA-M35-100LA2/KA2

MAC-100FT-E

Plasma Quad Connect air purifying device

Outdoor Units

PAC-SJ07SG

Air outlet guide for PUZ-ZM35-50VKA2

PAC-SG59SG

Air outlet guide for PUZ-ZM60-71VHA2

PAC-SH96SG

Air outlet guide for PUZ-ZM100VKA2/YKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100VKA2/YKA2

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-587IF-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-SK15MA-E

M-NET adaptor for size 35 and 50

PAC-SJ95MA

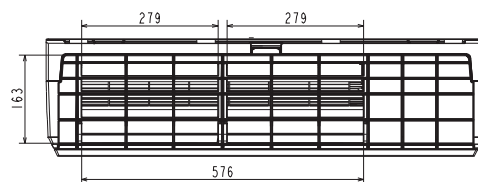
M-NET adaptor for size 60 to 100

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

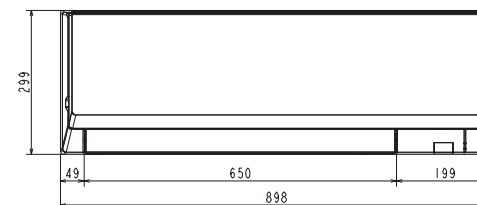
Product Dimensions

PKA-M35/50LA2

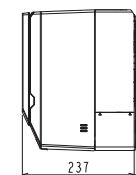
Upper View



Front View



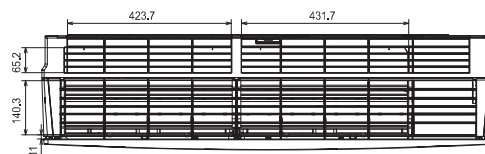
Side View



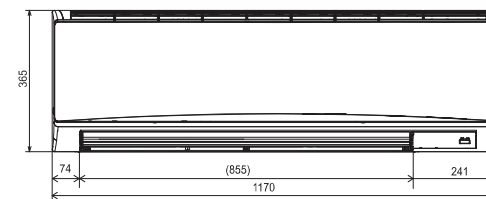
Product Dimensions

PKA-M60/71/100KA2

Upper View



Front View



Side View

