

PLA-ZM R32 4-Way Blow Ceiling Cassette System

Power Inverter Heat Pump (Single Phase)



The **PLA-ZM Power Inverter** range is a ceiling cassette 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 extremely flexible, and also provides energy monitoring (via PAR-41MAA controller) as standard.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run (size 100-140), 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)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D i-see sensor grille provides energy efficient, customised comfort by automatically monitoring room occupancy, position and body temperatures (PLP-6EAE)
- Optional filter-lowering operation, down to 4m (PLP-6EAJ)
- Optional black (Matt finish) grille (PLP-6EAB), for environments that desire a premium quality feel
- Optional V Blocking filter provides in-room air purification, neutralising viruses, allergens, dust and mould
- 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



PLA-ZM - INDOOR UNITS		PLA-ZM35EA2	PLA-ZM50EA2	PLA-ZM60EA2	PLA-ZM71EA2	PLA-ZM100EA2	PLA-ZM125EA2	PLA-ZM140EA2
CAPACITY (kW)	Heating (nominal)	4.1 (1.6-5.2)	6.0 (2.5-7.3)	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)	3.6 (1.6-4.5)	5.0 (2.3-5.6)	6.1 (2.7-6.5)	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)	3.5 (1.35-4.4)	5.1 (2.15-6.2)	6.0 (2.38-6.97)	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)	3.3 (1.45-4.15)	4.6 (2.1-5.15)	5.6 (2.48-5.98)	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)		0.95	0.85	0.77	0.72	0.77	0.70	0.70
COP / EER (nominal)		5.00 / 5.10	4.40 / 4.52	4.10 / 4.20	4.40 / 4.30	4.20 / 4.40	3.60 / 3.60	3.50 / 3.70
SCOP (nsh) / SEER (nsc) (BS EN14825)		4.70 / 7.50	4.90 / 7.60	4.60 / 7.20	4.80 / 7.60	4.80 / 7.80	4.73 (186.2%) / 7.48 (296.2%)	4.63 (182.3%) / 7.40 (292.8%)
ERP ENERGY EFFICIENCY CLASS Heating/Cooling		A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++	-	-
AIRFLOW (l/s) Lo-Mi-Mi2-Hi		183-217-250-267	200-233-267-300	200-233-267-300	283-317-350-383	317-367-417-467	350-400-433-483	400-433-483-533
PIPE SIZE MM (in) Gas/Liquid		12.7 (1/2") / 6.35 (1/4")	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-Mi-Mi2-Hi		26-28-29-31	27-29-31-32	27-29-31-32	28-30-33-36	31-34-37-40	33-36-39-41	36-39-42-44
SOUND POWER LEVEL (dBA)		51	54	54	57	61	62	65
DIMENSIONS (mm) Width x Depth x Height (Grille)		840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 258 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)
WEIGHT (kg) Unit / Grille		21 / 5	21 / 5	21 / 5	24 / 5	26 / 5	26 / 5	26 / 5
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	Fed by Outdoor Unit
FUSE RATING (BS88) - HRC (A)		6	6	6	6	6	6	6
INTERCONNECTING CABLE NO. CORES		4	4	4	4	4	4	4
GRILLE REFERENCE		PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VDA	PUZ-ZM125VDA	PUZ-ZM140VDA
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	46 / 44	49 / 47	49 / 47	48 / 44	50 / 47	51 / 49
	Cooling	65	65	67	67	63	66	68
WEIGHT (kg)		46	46	67	67	107	107	107
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	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	220-240v, 50Hz
PHASE		Single	Single	Single	Single	Single	Single	Single
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	0.820 / 0.705	1.363 / 1.106	1.707 / 1.452	1.818 / 1.651	2.667 / 2.160	3.889 / 3.473	4.572 / 3.622
	Heating/Cooling (UK)	0.73 / 0.59	1.21 / 0.94	1.43 / 1.15	1.61 / 1.39	2.19 / 1.84	3.19 / 2.95	3.75 / 3.08
STARTING CURRENT (A)		4.3	4.3	5.3	5.3	11.9	11.9	11.9
SYSTEM RUNNING CURRENT (A) Heating/Cooling [MAX]		3.89 / 3.51 [13.2]	6.05 / 5.00 [13.2]	7.39 / 6.31 [19.2]	7.79 / 7.06 [19.3]	12.35 / 9.99 [27.0]	17.99 / 16.05 [27.0]	21.14 / 16.74 [30.7]
FUSE RATING (BS88) - HRC (A)		16	16	25	25	32	32	40
MAINS CABLE NO. CORES		3	3	3	3	3	3	3
MAX PIPE LENGTH (m)		50	50	55	55	100	100	100
MAX HEIGHT DIFFERENCE (m)		30	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)	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	2.40 / 1.62

Accessories

Indoor Units

- PLP-6EA**
Grille for PLA-ZM35-140EA2
- PLP-6EAB**
Black grille (Matt finish) for PLA-ZM35-140EA2
- PLP-6EAE**
3D i-see sensor grille for PLA-ZM35-140EA2
- PLP-6EAJ**
Self elevating grille for PLA-ZM35-140EA2
- PAC-SE1ME-E**
Corner panel with i-see sensor for PLA-ZM35-140EA2
- PAR-SE9FA-E**
Corner panel with signal receiver for PLA-ZM35-140EA2
- PAC-SJ37SP-E**
Shutter plate for PLA-ZM35-140EA2
- PAC-SJ41TM-E**
Multi-function casement for PLA-ZM35-140EA2
- PLP-U160ELR-E**
3D Total Airflow casement for PLA-ZM35-140EA2
- PAC-SK36HK-E**
Insulation kit (14°C cooling) for PLA-ZM35-140EA2
- PAC-SJ39HR-E**
Power supply kit for PLA-ZM35-140EA2
- PAR-SL101A-E**
Wireless remote controller for PLA-ZM35-140EA2
- PAC-SH59KF-E**
High efficiency filter for PLA-ZM35-140EA2
- PAC-SK53KF-E**
V Blocking air purifying filter for PLA-ZM35-140EA2
- PAC-SK51FT-E**
Plasma Quad Connect air purifying device for PLA-ZM35-140EA2

Outdoor Units

- PAC-SJ07SG**
Air outlet guide for PUZ-ZM35-50VKA2
- PAC-SG59SG**
Air outlet guide for PUZ-ZM60-71VHA2
- PAC-SL12SG-E**
Air outlet guide for PUZ-ZM100-140VDA

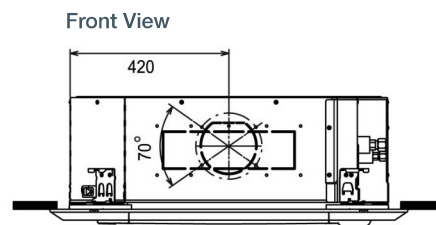
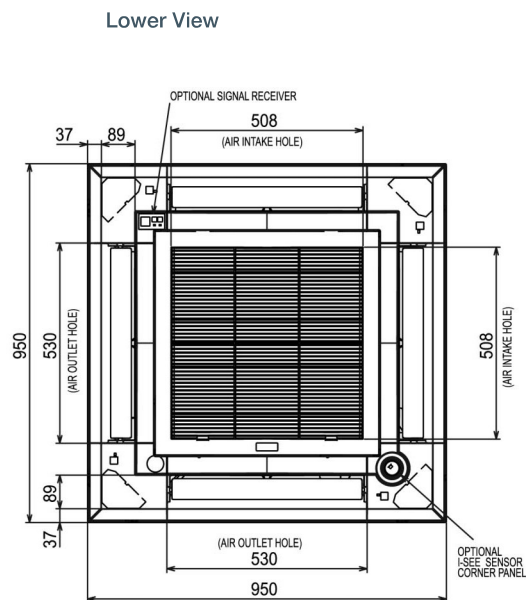
System Control Units

- 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 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

PLA-ZM35/50/60/71/100/125/140EA2



PLA-ZM-EA*:35/50/60/71/100/125/140

ZM	①	②	A	B	C	D
35/50	REFRIGERANT PIPE Φ 6.35 FLARED CONNECTION 1/4"	REFRIGERANT PIPE Φ 12.7 FLARED CONNECTION 1/2"			76	76.5
60	FLARED CONNECTION 3/8"	REFRIGERANT PIPE Φ 15.88 FLARED CONNECTION 3/8"	241	258	79.5	79.5
71	REFRIGERANT PIPE Φ 9.52		281	298		
100-140						

