

PLA-ZM R32 4-Way Blow Ceiling Cassette System

Power Inverter Heat Pump (Three 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 (Satin finish) grille (PLP-6EA-B), 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

R32

PLA-ZM - INDOOR UNITS		PLA-ZM100EA2	PLA-ZM125EA2	PLA-ZM140EA2
CAPACITY (kW)	Heating (nominal)	11.2 (4.5-14.0)	14.0 (5.0-16.0)	16.0 (5.7-18.0)
	Cooling (nominal)	9.5 (4.9-11.4)	12.5 (5.5-14.0)	13.4 (6.2-15.0)
	Heating (UK)	9.5 (3.85-11.9)	11.9 (4.25-13.6)	13.6 (4.85-15.3)
	Cooling (UK)	9.2 (4.5-10.5)	11.5 (5.05-12.9)	12.9 (5.7-14.1)
SHF (nominal)		0.77	0.70	0.70
COP / EER (nominal)		4.30 / 4.40	3.81 / 3.70	3.71 / 3.55
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.80 / 7.50	4.70 (185.1%) / 7.20 (301.1%)	4.60 (181.1%) / 6.90 (283.9%)
ERP ENERGY EFFICIENCY CLASS	Heating/Cooling	A++ / A++	-	-
AIRFLOW (l/s)	Lo-Mi-Mi2-Hi	317-367-417-467	350-400-433-483	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-Mi-Mi2-Hi	31-34-37-40	33-36-39-41	36-39-42-44
SOUND POWER LEVEL (dBA)		61	62	65
DIMENSIONS (mm)	Width x Depth x Height (Grille)	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	26 / 5	26 / 5	26 / 5
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
GRILLE REFERENCE		PLP-6EA	PLP-6EA	PLP-6EA
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM100YKA2 ^③	PUZ-ZM125YKA2 ^③	PUZ-ZM140YKA2 ^③
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	51 / 49	52 / 50	52 / 50
SOUND POWER LEVEL (dBA)	Cooling	69	70	70
WEIGHT (kg)		111	114	118
DIMENSIONS (mm)	Width x Depth x Height	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338	1050 x 330 + 40 x 1338
ELECTRICAL SUPPLY		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE		Three	Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	2.604 / 2.065	3.674 / 3.378	4.312 / 3.772
	Heating/Cooling (UK)	2.09 / 1.77	3.27 / 2.87	3.83 / 3.15
STARTING CURRENT (A)		2.6	3.3	3.3
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	3.75 / 2.96 [8.5]	5.32 / 4.89 [10.0]	6.23 / 5.37 [13.7]
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

- PLP-6EA**
Grille for PLA-ZM100-140EA2
- PLP-6EA-B**
Black grille (Satin finish) for PLA-ZM100-140EA2
- PLP-6EAE**
3D i-see sensor grille for PLA-ZM100-140EA2
- PLP-6EAJ**
Self elevating grille for PLA-ZM100-140EA2
- PAC-SE1ME-E**
Corner panel with i-see sensor for PLA-ZM100-140EA2
- PAR-SE9FA-E**
Corner panel with signal receiver for PLA-ZM100-140EA2
- PAC-SJ37SP-E**
Shutter plate for PLA-ZM100-140EA2
- PAC-SJ41TM-E**
Multi-function casement for PLA-ZM100-140EA2
- PLP-U160ELR-E**
3D Total Airflow casement for PLA-ZM100-140EA2
- PAC-SK36HK-E**
Insulation kit (14°C cooling) for PLA-ZM100-140EA2
- PAC-SJ39HR-E**
Power supply kit for PLA-ZM100-140EA2
- PAR-SL101A-E**
Wireless remote controller for PLA-ZM100-140EA2
- PAC-SH59KF-E**
High efficiency filter for PLA-ZM100-140EA2
- PAC-SK53KF-E**
V Blocking air purifying filter for PLA-ZM100-140EA2
- PAC-SK51FT-E**
Plasma Quad Connect air purifying device for PLA-ZM100-140EA2

Outdoor Units

- PAC-SH96SG**
Air outlet guide for PUZ-ZM100-140YKA2
- PAC-SJ71FM-E**
30Pa outdoor fan motor for PUZ-ZM100-140YKA2

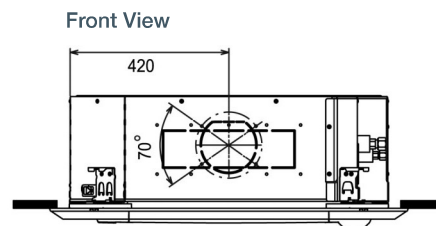
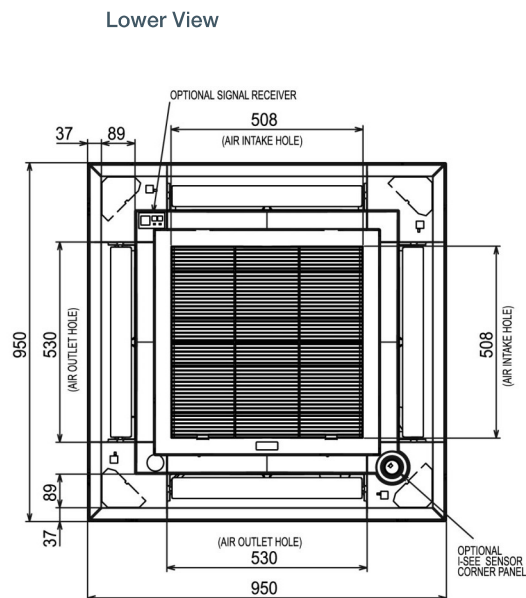
System Control Units

- 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-5871F-E**
Interface for connection to Wi-Fi MELCloud service
- MELCOBEMS MINI (A1M+)**
Retail control and input / output interface
- MELCORETAIL MINI**
Retail control and input / output interface
- PAC-SJ95MA**
M-NET adaptor for size 100 to 140

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

Product Dimensions

PLA-ZM100/125/140EA2



PLA-ZM-EA*: 100/125/140

ZM	①	②	A	B	C	D
100-140	FLARED CONNECTION 3/8"	REFRIGERANT PIPE Φ 15.88	281	298	79.5	79.5
	REFRIGERANT PIPE Φ 9.52	FLARED CONNECTION 3/8"				

