PLA-ZM R32 4-Way Blow Ceiling Cassette System

Power Inverter Heat Pump
(Single Phase)















POWER INVERTER

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-42MAAB 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-42MAAB or PAR-SL103A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (requires PAR-42MAAB or PAR-SL103A-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

R32

PLA-ZM - INDOOR UNITS		PLA-ZM35EA3	PLA-ZM50EA3	PLA-ZM60EA3	PLA-ZM71EA3	PLA-ZM100EA3	PLA-ZM125EA3	PLA-ZM140EA3
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 (ηsh) / SEER (ηsc) (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-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E

PUZ-ZM - OUTDOOR UNITS		PUZ-ZM35VKA3	PUZ-ZM50VKA3	PUZ-ZM60VHA3	PUZ-ZM71VHA3	PUZ-ZM100VDA2	PUZ-ZM125VDA2	PUZ-ZM140VDA2
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	46 / 44	46 / 44	49 / 47	49 / 47	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	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-ZM35-140EA3

PLP-6EAB
Black grille (Matt finish) for PLA-ZM35-140EA3

PLP-6EAE
3D i-see sensor grille for PLA-ZM35-140EA3

PLP-6EAJ
Self elevating grille for PLA-ZM35-140EA3

PAC-SE1ME-E
Corner panel with i-see sensor for PLA-ZM35-140EA3

PAR-SE9FA-E
Corner panel with signal receiver for PLA-ZM35-140EA3

PAC-SJ37SP-E
Shutter plate for PLA-ZM35-140EA3

PAC-SJ41TM-E
Multi-function casement for PLA-ZM35-140EA3

PLP-U160ELR-E
3D Total Airflow casement for PLA-ZM35-140EA3

PAC-SK36HK-E
Insulation kit (14°C cooling) for PLA-ZM35-140EA3

PAC-SJ39HR-E
Power supply kit for PLA-ZM35-140EA3

PAR-SL103A-E
Wireless remote controller for PLA-ZM35-140EA3

PAC-SH59KF-E
High efficiency filter for PLA-ZM35-140EA3

PAC-SK53KF-E
V Blocking air purifying filter for PLA-ZM35-140EA3

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-ZM35-140EA3

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-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 35 and 50

PAC-SJ95MA-E
M-NET adaptor for size 60 and 71

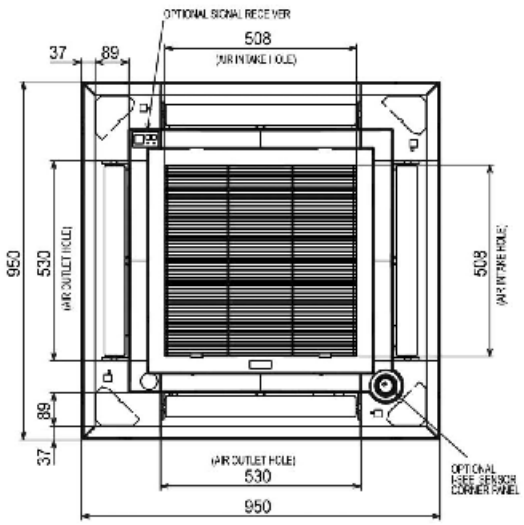
PAC-SL16MA-E
M-NET Adaptor for size 100 to 140

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

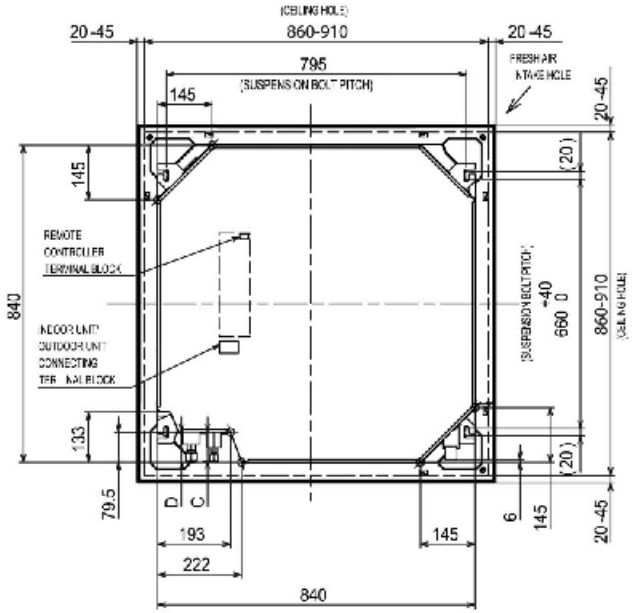
Product Dimensions

PLA-ZM35/50/60/71/100/125/140EA3

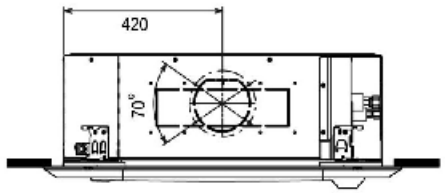
Lower View



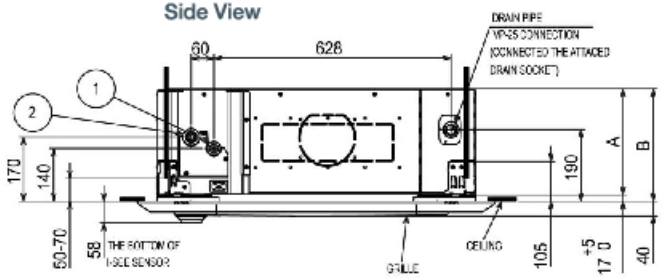
Upper View



Front View



Side View



PLA-ZM-EA□35/50/60/71/100/125/140

ZM	①	②	A	B	C	D
35/50	REFRIGERANT PIPE Φ9.53 FLARED CONNECTION NUT	REFRIGERANT PIPE Φ12.7 FLARED CONNECTION NUT	241	256	76	76.5
60	FLARED CONNECTION NUT REFRIGERANT PIPE Φ15.88	REFRIGERANT PIPE Φ15.88 FLARED CONNECTION NUT			79.0	79.0
71						
100・140			251	266		