PLA-ZM R32 4-Way Blow Ceiling Cassette System

Power Inverter Heat Pump
(Three 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-ZM100EA3**	**PLA-ZM125EA3**	**PLA-ZM140EA3**
CAPACITY (kW)	Heating (nominal)	11.2 (2.7-14.0)	14.0 (3.2-16.0)	16.0 (3.7-18.0)
	Cooling (nominal)	9.5 (4.9-11.4)	12.5 (5.1-14.0)	13.4 (5.4-15.0)
	Heating (UK)	8.06 (1.94-10.08)	10.08 (2.30-11.52)	11.52 (2.66-12.96)
	Cooling (UK)	8.74 (4.51-10.49)	11.50 (4.69-12.88)	12.33 (4.97-13.80)
SHF (nominal)		0.77	0.70	0.70
COP / EER (nominal)		4.20 / 4.40	3.60 / 3.60	3.50 / 3.70
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.80 / 7.60	4.73 (186.2%) / 7.43 (294.1%)	4.63 (182.3%) / 7.35 (290.9%)
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-42MAAB	PAR-42MAAB	PAR-42MAAB
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL103A-E	PAR-SL103A-E	PAR-SL103A-E

PUZ-ZM - OUTDOOR UNITS		**PUZ-ZM100YDA2** [3]	**PUZ-ZM125YDA2** [3]	**PUZ-ZM140YDA2** [3]
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	63	66	68
WEIGHT (kg)		114	116	121
DIMENSIONS (mm)	Width x Depth x Height	1100 x 460+45 x 870	1100 x 460+45 x 870	1100 x 460+45 x 870
ELECTRICAL SUPPLY		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE		Three	Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	2.667 / 2.160	3.889 / 3.473	4.572 / 3.622
	Heating/Cooling (UK)	2.19 / 1.84	3.19 / 2.95	3.75 / 3.08
STARTING CURRENT (A)		3.5	3.5	3.5
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.09 / 3.32 [8.5]	5.97 / 5.32 [9.5]	7.02 / 5.56 [9.7]
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-ZM100-140EA3

PLP-6EAB
Black grille (Matt finish) for PLA-ZM100-140EA3

PLP-6EAE
3D i-see sensor grille for PLA-ZM100-140EA3

PLP-6EAJ
Self elevating grille for PLA-ZM100-140EA3

PAC-SE1ME-E
Corner panel with i-see sensor for PLA-ZM100-140EA3

PAR-SE9FA-E
Corner panel with signal receiver for PLA-ZM100-140EA3

PAC-SJ37SP-E
Shutter plate for PLA-ZM100-140EA3

PAC-SJ41TM-E
Multi-function casement for PLA-ZM100-140EA3

PLP-U160ELR-E
3D Total Airflow casement for PLA-ZM100-140EA3

PAC-SK36HK-E
Insulation kit (14°C cooling) for PLA-ZM100-140EA3

PAC-SJ39HR-E
Power supply kit for PLA-ZM100-140EA3

PAR-SL103A-E
Wireless remote controller for PLA-ZM100-140EA3

PAC-SH59KF-E
High efficiency filter for PLA-ZM100-140EA3

PAC-SK53KF-E
V Blocking air purifying filter for PLA-ZM100-140EA3

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-ZM100-140EA3

Outdoor Units

PAC-SL12SG-E
Air outlet guide for PUZ-ZM100-140YDA2

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+)
Retail control and input / output interface

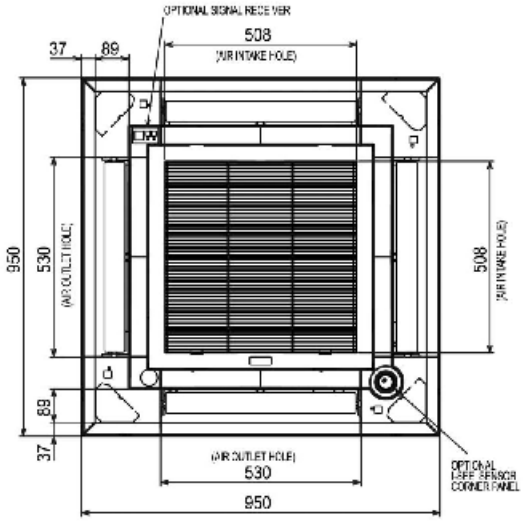
MELCORETAIL MINI
Retail control and input / output interface

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

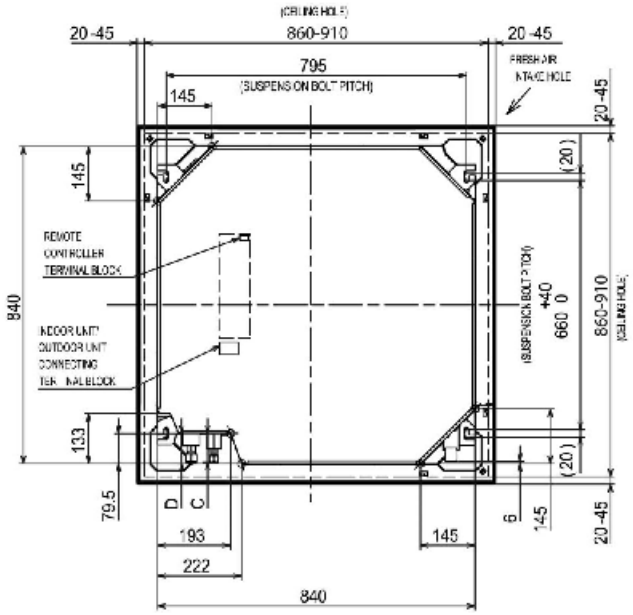
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PLA-ZM100/125/140EA3

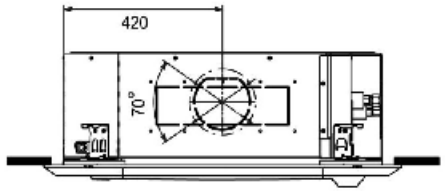
Lower View



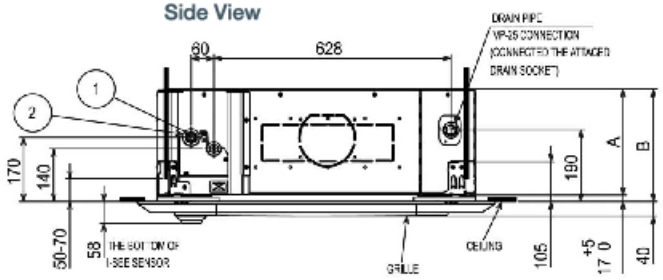
Upper View



Front View



Side View



PLA-ZM [illegible]

ZM	①	②	A	B	C	D
100~140	FLARED CONNECTION REFRIGERANT PIPE Ø 9.53	RE-REFRIGERANT PIPE Ø 15.88 FLARED CONNECTION SIDE	251	256	79.5	79.5