PLA-M R32 4-Way Blow Ceiling Cassette System

Standard Inverter Heat Pump
(Single Phase)

















The cost effective **PLA-M Standard Inverter** range is a ceiling cassette system that blends a host of outstanding features with a sophisticated, streamlined design. Offering advanced control options and quiet operation, this range provides extreme flexibility and ease of installation, alongside energy monitoring (via PAR-42MAAB controller) as standard.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features (size 100-140)
- 14°C set point option; ideal for applications where a specialist ambient condition is required (size 100-140; requires PAR-42MAAB or PAR-SL103A-E controller)
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (size 100-140; 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-M - INDOOR UNITS		PLA-M35EA3	PLA-M50EA3	PLA-M60EA3	PLA-M71EA3	PLA-M100EA3	PLA-M125EA3	PLA-M140EA3
CAPACITY (kW)	Heating (nominal)	4.1 (1.0-5.0)	6.0 (1.5-7.2)	7.0 (1.6-8.0)	8.0 (2.0-10.2)	11.2 (2.8-12.5)	13.5 (4.1-15.0)	15.0 (4.2-15.8)
	Cooling (nominal)	3.6 (0.8-3.9)	5.5 (1.2-5.6)	6.1 (1.6-6.3)	7.1 (2.2-8.1)	9.5 (4.0-10.6)	12.1 (5.8-13.0)	13.4 (5.8-14.1)
	Heating (UK)	3.49 (0.85-4.26)	5.11 (1.28-6.13)	6.13 (1.36-6.81)	6.81 (1.70-8.68)	9.63 (2.41-10.75)	11.49 (3.49-12.77)	12.77 (3.57-13.45)
	Cooling (UK)	3.31 (0.74-3.60)	5.06 (1.10-5.15)	5.81 (1.47-5.80)	6.53 (2.02-7.45)	8.65 (3.64 - 9.65)	11.01 (5.28-11.83)	12.19 (5.28-12.83)
SHF (nominal)		0.91	0.77	0.79	0.74	0.77	0.72	0.70
COP / EER (nominal)		4.20 / 4.00	3.46 / 3.40	3.80 / 3.30	3.61 / 3.70	3.71 / 3.50	3.71 / 3.01	3.41 / 2.70
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.70 / 7.40	4.10 / 6.70	4.40 / 6.60	4.50 / 7.50	4.60 / 7.00	4.1 (162%) / 5.6 (231.9%)	4.1 (161.3%) / 5.7 (232.7%)
ErP ENERGY EFFICIENCY CLASS	Heating/Cooling	A++ / A++	A+ / A++	A+ / A++	A+ / A++	A++ / A++	A+ / A+	A+ / A+
AIRFLOW (l/s)	Lo-Mi-Mi2-Hi	183-217-250-267	200-233-317-350	200-233-317-350	233-283-317-350	317-383-433-483	350-417-467-517	400-433-483-533
PIPE SIZE mm (in)	Gas/Liquid	9.52 (3/8") / 6.35 (1/4")	12.7 (1/2") / 6.35 (1/4")	15.88 (5/8") / 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")
SOUND PRESSURE LEVEL (dBA)	Lo-Mi-Mi2-Hi	26-28-29-31	27-29-31-32	27-29-31-32	28-30-32-34	31-34-37-40	33-37-41-44	36-39-42-44
SOUND POWER LEVEL (dBA)		51	54	54	56	61	65	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 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)
WEIGHT (kg)	Unit / Panel	19 / 5	19 / 5	21 / 5	21 / 5	24 / 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

SUZ-M / PUZ-M - OUTDOOR UNITS		SUZ-M35VA2	SUZ-M50VA2	SUZ-M60VA2	SUZ-M71VA2	PUZ-M100VKA3	PUZ-M125VKA3	PUZ-M140VKA3
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	48 / 48	48 / 49	49 / 51	49 / 51	51 / 54	54 / 56	55 / 57
SOUND POWER LEVEL (dBA)	Cooling	59	64	65	66	70	72	73
WEIGHT (kg)		35	41	53	54	76	84	84
DIMENSIONS (mm)	Width x Depth x Height	800 x 285 x 550	800 x 285 x 714	840 x 330 x 880	840 x 330 x 880	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981
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)	0.97 / 0.90	1.73 / 1.61	1.84 / 1.84	2.21 / 1.91	3.01 / 2.71	3.63 / 4.01	4.39 / 4.96
	Heating/Cooling (UK)	0.83 / 0.77	1.47 / 1.39	1.56 / 1.58	1.88 / 1.64	2.71 / 2.50	3.27 / 3.33	3.59 / 4.12
STARTING CURRENT (A)		5.0	5.7	7.6	10.0	7.1	2.9	2.9
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	5.0 / 4.1 [8.5]	8.0 / 7.1 [13.5]	9.3 / 8.4 [14.8]	9.5 / 9.1 [14.8]	13.0 / 11.7 [20]	15.6 / 17.4 [26.5]	19.0 / 21.5 [30]
FUSE RATING (BS88) - HRC (A)		10	20	20	20	32	32	40
MAINS CABLE No. Cores		3	3	3	3	3	3	3
MAX PIPE LENGTH (m)		20	30	30	30	55	65	65
MAX HEIGHT DIFFERENCE (m)		12	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R32 (GWP 675)	0.90 / 0.61 (7m)	1.20 / 0.81 (7m)	1.25 / 0.84 (7m)	1.45 / 0.98 (7m)	3.10 / 2.09 (30m)	3.60 / 2.43 (30m)	3.60 / 2.43 (30m)
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R32 (GWP 675)	1.16 / 0.78	1.66 / 1.12	1.71 / 1.15	2.37 / 1.60	4.10 / 2.77	5.00 / 3.38	5.00 / 3.38

Note: No duty/standby operation on SUZ-M35/50/60/71VA2.

Accessories

Indoor Units

PLP-6EA
Grille for PLA-M35-140EA3

PLP-6EAB
Black grille (Matt finish) for PLA-M35-140EA3

PLP-6EAE
3D i-see sensor grille for PLA-M35-140EA3

PLP-6EAJ
Self elevating grille for PLA-M35-140EA3

PAC-SE1ME-E
Corner panel with i-see sensor for PLA-M35-140EA3

PAR-SE9FA-E
Corner panel with signal receiver for PLA-M35-140EA3

PAC-SJ37SP-E
Shutter plate for PLA-M35-140EA3

PAC-SJ41TM-E
Multi-function casement for PLA-M35-140EA3

PLP-U160ELR-E
3D Total Airflow casement for PLA-M100-140EA3

PAC-SK36HK-E
Insulation kit (14°C cooling) for PLA-M100-140EA3

PAC-SJ39HR-E
Power supply kit for PLA-M35-140EA3

PAR-SL103A-E
Wireless remote controller for PLA-M35-140EA3

PAC-SH59KF-E
High efficiency filter for PLA-M35-140EA3

PAC-SK53KF-E
V Blocking air purifying filter for PLA-M35-140EA3

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-M35-140EA3

Outdoor Units

MAC-881SG
Air outlet guide for SUZ-M35VA2

MAC-882SG
Air outlet guide for SUZ-M50VA2

MAC-890SG-E
Air outlet guide for SUZ-M60VA2 / SUZ-M71VA2

PAC-SH96SG-E
Air outlet guide for PUZ-M100-140VKA3

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-334IF-E
Interface for M-NET, MA remote controller, on/off input and run/fault output

MAC-497IF-E
Interface for MA remote controller

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

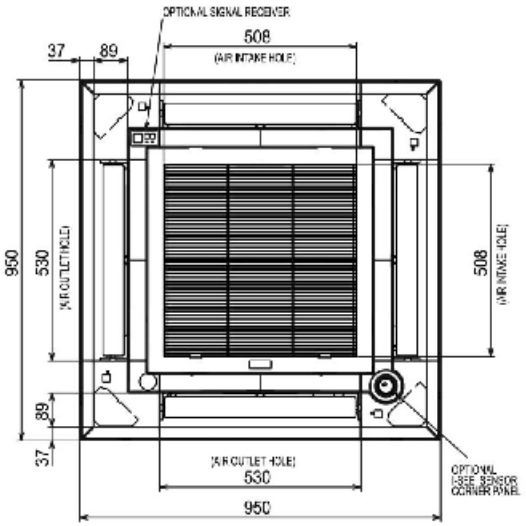
PAC-SJ95MA-E
M-NET adaptor for size 100 to 140

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

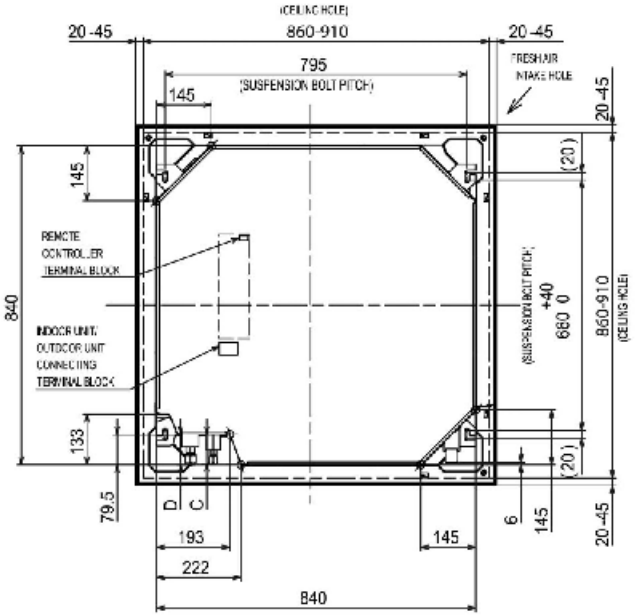
Product Dimensions

PLA-M35/50/60/71/100/125/140EA3

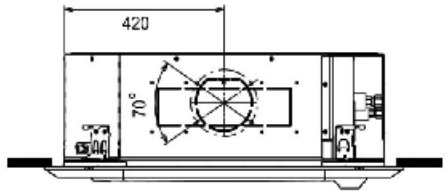
Lower View



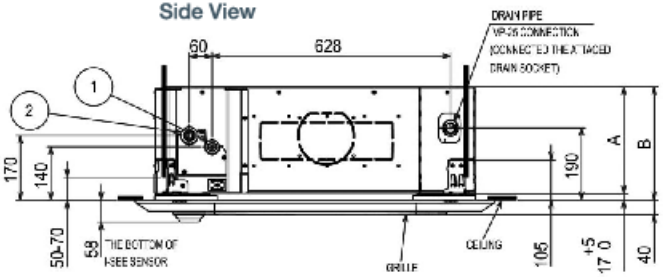
Upper View



Front View



Side View



PLA-M EA3 35/50/60/71/100/125/140

N	①	②	A	B	C	D
35/50	REFRIGERANT PIPE Φ 6.35 FLARED CONNECTION 1/4F	REFRIGERANT PIPE Φ 12.7 FLARED CONNECTION 1/2F	241	256	79	78.5
60	REFRIGERANT PIPE Φ 9.52 FLARED CONNECTION 3/8F (COMPATIBLE)	REFRIGERANT PIPE Φ 15.88 FLARED CONNECTION 5/8F			80.5	
71						79.5
100-140	REFRIGERANT PIPE Φ 6.35 FLARED CONNECTION 3/8F		281	256	79.5	