PLA-SM R32 4-Way Blow Ceiling Cassette System

Inverter Heat Pump













The **PLA-SM Inverter** cassette range offers customers all the features and benefits of inverter technology, whilst being very cost effective. Available as a single combination only, this range offers advanced control options, extremely flexible installation and a sophisticated, streamlined design.

Key Features & Benefits

- Increased comfort levels through advanced airflow
- PAR-41MAA controller allows effective energy consumption monitoring
- Optional filter-lowering operation, down to 4m (PLP-6EAJ)
- Optional black (Matt finish) grille (PLP-6EAB), for environments that desire a premium quality feel
- Small footprint, single fan chassis across entire outdoor unit range
- 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-SM INDOOR UNITS		PLA-SM71EA3	PLA-SM100EA3	PLA-SM100EA3	PLA-SM125EA3	PLA-SM125EA3	PLA-SM140EA3	PLA-SM140EA3
CAPACITY (kW)	Heating (nominal)	8.0 (2.0-10.2)	11.2 (2.8-12.5)	11.2 (2.8-12.5)	13.5 (4.1-15.0)	13.5 (4.1-15.0)	15.0 (4.2-15.8)	15.0 (4.2-15.8)
	Cooling (nominal)	7.1 (2.2-8.1)	9.5 (4.0-10.6)	9.5 (4.0-10.6)	12.1 (5.8-13.0)	12.1 (5.8-13.0)	13.4 (5.8-14.1)	13.4 (5.8-14.1)
	Heating (UK)	6.80 (1.72-8.77)	9.63 (2.41-10.75)	9.63 (2.41-10.75)	11.61 (3.53-12.90)	11.61 (3.53-12.90)	12.90 (3.61-13.59)	12.90 (3.61-13.59)
	Cooling (UK)	6.53 (2.03-7.45)	8.55 (3.60-11.25)	8.55 (3.60-11.25)	10.89 (5.22-11.70)	10.89 (5.22-11.70)	11.61 (5.22-12.69)	11.61 (5.22-12.69)
SHF (nominal)		0.75	0.77	0.77	0.73	0.73	0.70	0.70
COP / EER (nominal)		3.50 / 3.60	3.61 / 3.40	3.61 / 3.40	3.61 / 2.90	3.61 / 2.90	3.30 / 2.61	3.30 / 2.61
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		3.90 / 6.00	4.50 / 6.00	4.50 / 6.00	3.90 (154.1%) / 5.50 (225.2%)	3.90 (154.1%) / 5.50 (225.2%)	3.90 (153.3%) / 5.50 (224.9%)	3.90 (153.3%) / 5.50 (224.9%)
ErP ENERGY EFFICIENCY CLASS Heating/Cooling		A / A+	A+ / A+	A+ / A+	A / A	A / A	A / A	A / A
AIRFLOW (l/s)	Lo-Mi1-Mi2-Hi	233-283-317-350	317-383-433-483	317-383-433-483	350-417-467-517	350-417-467-517	400-433-483-533	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")	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-Mi1-Mi2-Hi	28-30-32-34	31-34-37-40	31-34-37-40	33-37-41-44	33-37-41-44	36-39-42-44	36-39-42-44
SOUND POWER LEVEL (dBA)		56	61	61	65	65	65	65
DIMENSIONS (mm)	Width x Depth x Height (Grille)	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)	840 (950) x 840 (950) x 298 (40)	840 (950) x 840 (950) x 298 (40)
WEIGHT (kg)	Unit / Panel	21 (5)	24 (5)	24 (5)	26 (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

SUZ-SM / PUZ-SM OUTDOOR UNITS		SUZ-SM71VA2	PUZ-SM100VKA3	PUZ-SM100YKA3	PUZ-SM125VKA3	PUZ-SM125YKA3	PUZ-SM140VKA3	PUZ-SM140YKA3
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	51 / 49	54 / 51	54 / 51	56 / 54	56 / 54	57 / 55	57 / 55
SOUND POWER LEVEL (dBA)	Cooling	66	70	70	72	72	73	73
WEIGHT (kg)		54	76	78	84	85	84	85
DIMENSIONS (mm)	Width x Depth x Height	840 x 330 x 880	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981	1050 x 330 x 981
ELECTRICAL SUPPLY		220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
PHASE		Single	Single	Three	Single	Three	Single	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	2.28 / 1.97	3.10 / 2.79	3.10 / 2.79	3.73 / 4.17	3.73 / 4.17	4.54 / 5.13	4.54 / 5.13
	Heating/Cooling (UK)	1.94 / 1.70	2.64 / 2.40	2.64 / 2.40	3.17 / 3.59	3.17 / 3.59	3.87 / 4.14	3.87 / 4.14
STARTING CURRENT (A)		10.0	13.4	4.8	17.4	6.3	22.3	8.1
SYSTEM RUNNING CURRENT (A)	Heating/Cooling (MAX)	9.7 / 8.3 [14.8]	13.4 / 12.1 [20.0]	4.8 / 4.3 [11.5]	15.6 / 17.4 [26.5]	5.6 / 6.3 [11.5]	19.0 / 22.3 [30.0]	6.9 / 8.1 [11.5]
FUSE RATING (BS88) - HRC (A)		20	32	16	32	16	40	16
MAINS CABLE No. Cores		3	3	5	3	5	3	5
MAX PIPE LENGTH (m)		30	30	30	40	40	40	40
MAX HEIGHT DIFFERENCE (m)		30	30	30	30	30	30	30
CHARGE REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R32 (GWP 675)	1.45 / 0.98 (7m)	3.10 / 2.09 (30m)	3.10 / 2.09 (30m)	3.60 / 2.43 (30m)	3.60 / 2.43 (30m)	3.60 / 2.43 (30m)	3.60 / 2.43 (30m)
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t)	R32 (GWP 675)	2.37 / 1.80	N/A	3.50 / 2.36	4.00 / 2.70	4.00 / 2.70	4.00 / 2.70	4.00 / 2.70

Note: The PLP-6EAE 3D i-See sensor grille or PAC-SE1ME-E corner panel will NOT operate with this model.

Accessories

Indoor Units

PLP-6EA
Grille for PLA-SM71-140EA3

PLP-6EAB
Black grille (Matt finish) for PLA-SM71-140EA3

PLP-6EAJ
Self elevating grille for PLA-SM71-140EA3

PAR-SE9FA-E
Corner panel with signal receiver for PLA-SM71-140EA3

PAC-SJ37SP-E
Shutter plate for PLA-SM71-140EA3

PAC-SJ41TM-E
Multi-function casement for PLA-SM71-140EA3

PAC-SJ39HR-E
Power supply kit for PLA-SM71-140EA3

PAR-SL103A-E
Wireless remote controller for PLA-SM71-140EA3

PAC-SH59KF-E
High efficiency filter for PLA-SM71-140EA3

PAC-SK53KF-E
V Blocking air purifying filter for PLA-SM71-140EA3

PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-SM71-140EA3

Outdoor Units

MAC-890SG-E
Air outlet guide for SUZ-SM71VA2

PAC-SH96SG-E
Air outlet guide for PUZ-SM100-140VKA3/YKA3

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

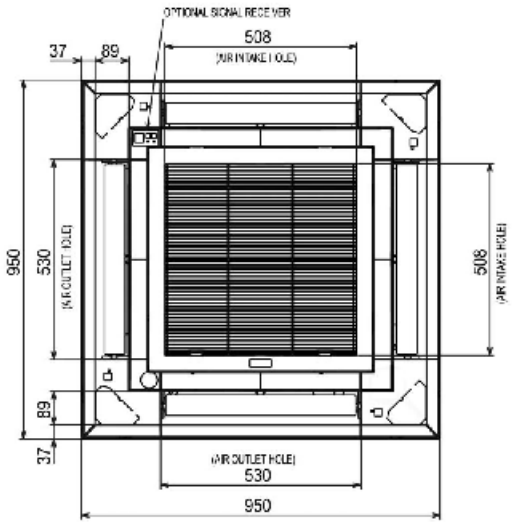
MELCORETAIL MINI
Retail control and input / output interface

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

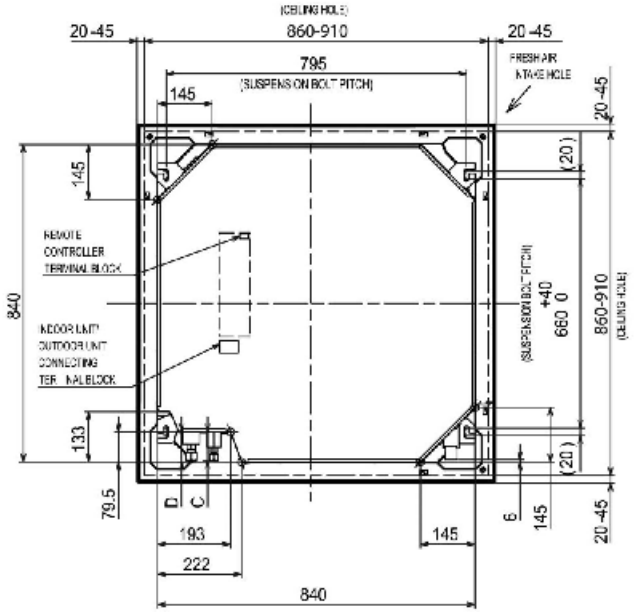
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions PLA-SM71/100/125/140EA3

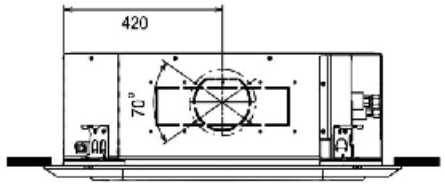
Lower View



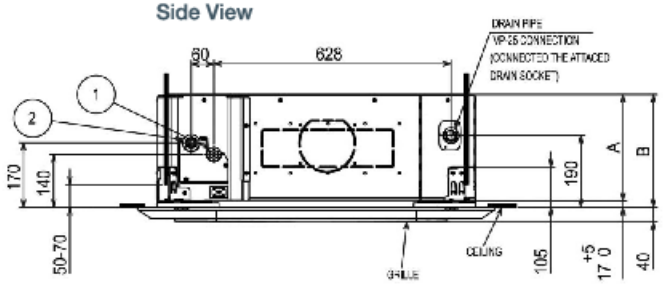
Upper View



Front View



Side View



PLA-SM71/100/125/140

SM	①	②	A	B	C	D
71	FLARED CONNECTION 3/8"REFRIGERANT PIPE Φ 9.52	REFRIGERANT PIPE Φ 15.88 FLARED CONNECTION 5/8"	241	258	79.5	79.5
100-140			281	298		