

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-SM71EA	PLA-SM100EA	PLA-SM100EA	PLA-SM125EA	PLA-SM125EA	PLA-SM140EA	PLA-SM140EA
CAPACITY (kW)	Heating (nominal)	8.0 (2.2-8.1)	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 (1.87-6.89)	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	3.9 (154.1%) / 5.5 (225.2%)	3.9 (154.1%) / 5.5 (225.2%)	3.9 (153.3%) / 5.5 (224.9%)	3.9 (153.3%) / 5.5 (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-M1-M12-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-M1-M12-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-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E

SUZ-SM / PUZ-SM OUTDOOR UNITS		SUZ-SM71VA	PUZ-SM100VKA2	PUZ-SM100YKA2	PUZ-SM125VKA2	PUZ-SM125YKA2	PUZ-SM140VKA2	PUZ-SM140YKA2
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)		55	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) / 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)
CO ₂ EQUIVALENT (t)								
MAX ADDITIONAL REFRIGERANT (kg) / 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
CO ₂ EQUIVALENT (t)								

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-SM71-140EA
PLP-6EAB
Black grille (Matt finish) for PLA-SM71-140EA
PLP-6EAJ
Self elevating grille for PLA-SM71-140EA
PAR-SE9FA-E
Corner panel with signal receiver for PLA-SM71-140EA
PAC-SJ37SP-E
Shutter plate for PLA-SM71-140EA
PAC-SJ41TM-E
Multi-function casement for PLA-SM71-140EA
PAC-SJ39HR-E
Power supply kit for PLA-SM71-140EA
PAR-SL101A-E
Wireless remote controller for PLA-SM71-140EA
PAC-SH59KF-E
High efficiency filter for PLA-SM71-140EA
PAC-SK53KF-E
V Blocking air purifying filter for PLA-SM71-140EA
PAC-SK51FT-E
Plasma Quad Connect air purifying device for PLA-SM71-140EA

Outdoor Units

MAC-886SG
Air outlet guide for SUZ-SM71VA
PAC-SH96SG
Air outlet guide for PUZ-SM100-140VKA2/YKA2

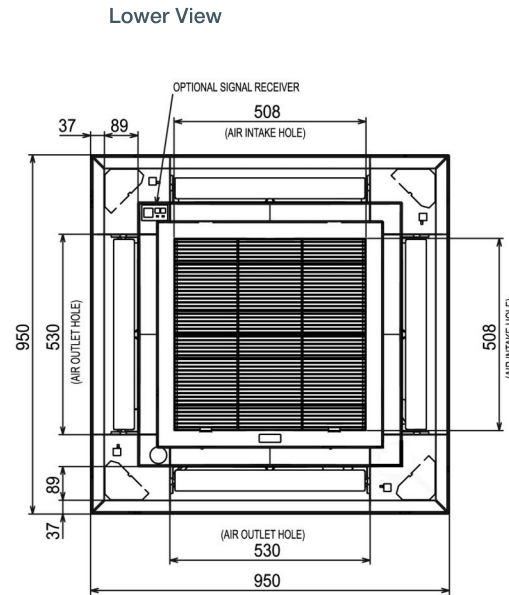
System Control Units

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-587IF-E
Interface for connection to Wi-Fi MELCloud service
MELCOBEMS MINI (A1M+)
Modbus and BACnet MSTP CN105 adaptor
MELCORETAIL MINI
Retail control and input / output interface
PAC-SJ95MA
M-NET adaptor for size 100 to 140

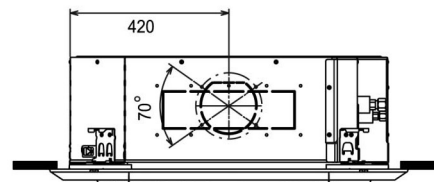
Note: Please see page 1.3.66 for the full range of accessories.

Product Dimensions

PLA-SM71/100/125/140EA

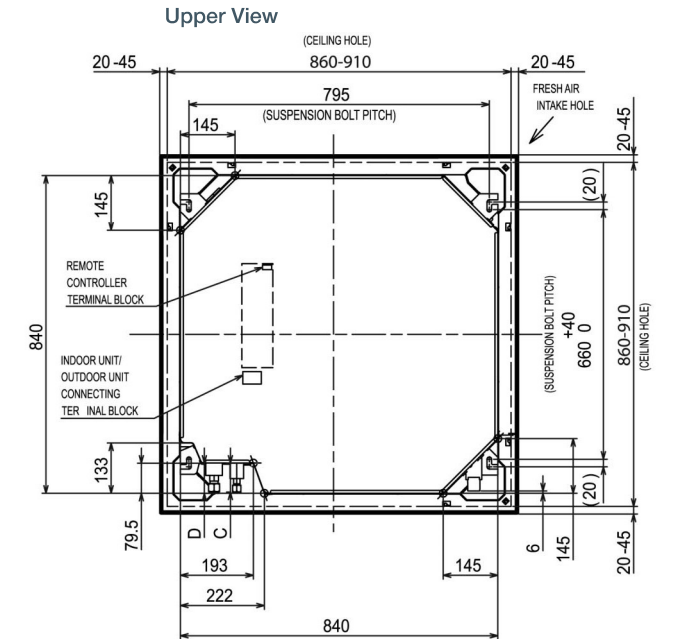


Front View



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		



Side View

