



Client: Joseph Holts
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Equipment: 4 x Mitsubishi Air Conditioning 13.4kW Cassettes

Condition: "New"

Date: 13th May 2025

Description: Please see the following quotation plus details of the proposed new Mitsubishi Air Conditioning systems operating on R32 Refrigerant Gas (A2L Low GWP).

Install: 4 x new 13.4kW Mitsubishi 4-Way Blow Ceiling Cassette Systems with 3phase Outdoor Condensing Units, these operate on R32 refrigerant. Each system requires 30m of 5/8" copper pipework and electrics will in 3phase electrics with drainage removed by Tank Pump, 21.5mm uPVC and braided hose

Commission: The 4 x new installations will be pressure tested with OFN, charged with R32 refrigerant gas and fully commissioned.

Works will finish when we have demonstrated the systems operation and left any areas affected clean and tidy

Cost **£27,185.00**

All prices shown exclude VAT and are subject to the Acme Facilities Group T&C's

Details regarding the proposed new system can found on the following pages

Indoor Units:-

4 x Mitsubishi PLA-ZM140EA2 4 Way Blow Cassettes



Outdoor Units:-

4 x Mitsubishi PUZ-ZM140YDA TH 3phase Condensing Units (Roof Mounted on AV Feet)



Controller:-

Hard Wired Remote Controllers are included with the above system



Services:

ACR Copper Pipework in 5/8" Gas + 3/8" Liquid

Armaflex Class O Insulation 5/8" x 1/2" Thick

Electrical fixtures and NYY 3-phase cabling

Accessories:

4 x Condensate Tank Pumps



Joseph Holt at the Shamrock



Room in Metres (Length x Width x Height)

Length (m) Width (m) Height (m) Volume m³
 x x m 1050.00 M Cu Watts A (or)
ONLY enter Metres or Feet ONLY enter Metres or Feet

Additional Heat Load

Qty	Description of additional source	Watts	Total	Watts C
4	Number of Heat Gains	500	2000	
200	Customers	150	30000	
		0	0	
		0	0	
	Estimated Heat Gains	0	0	
		0	0	
Sub Total Watts C			32000	Watts C
Total Watts (A or B) + C			74.00	Kw

PLA-ZM R32

4-Way Blow Ceiling Cassette System

Power Inverter Heat Pump (Three Phase)

Mr.SLIM™

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 an extremely flexible choice for a broad number of commercial applications.

R32



Key Features & Benefits:

- Increased comfort levels through advanced airflow and smart defrost features
- Compact, single fan outdoor unit chassis across the whole range, for unobtrusive and discreet installation
- 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-41MAA or PAR-SL101A-E controller)
- Energy usage display available as standard with the PAR-41MAA controller
- Optional 3D Total Airflow casement to allow 360° directional delivery of air (requires PAR-41MAA or PAR-SL101A-E controller)
- Optional 3D i-see sensor grille (PLP-6EAE) provides customised comfort by automatically monitoring room occupancy, position and body temperatures
- Optional filter lowering operation down to 4m (PLP-6EAJ), allowing for easier maintenance
- Optional black grille (PLP-6EA-B), ideal for applications with exposed ceilings or stylish aesthetics
- Optional V Blocking filter (PAC-SK53KF-E) provides in-room air purification, neutralises viruses, bacteria, 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 (PAC-SK51FT-E)



Air Conditioning Product Information

PLA-ZM R32 4-Way Blow Ceiling Cassette System Power Inverter Heat Pump (Three Phase)

R32



PLP-6EA



PLP-6EA-B

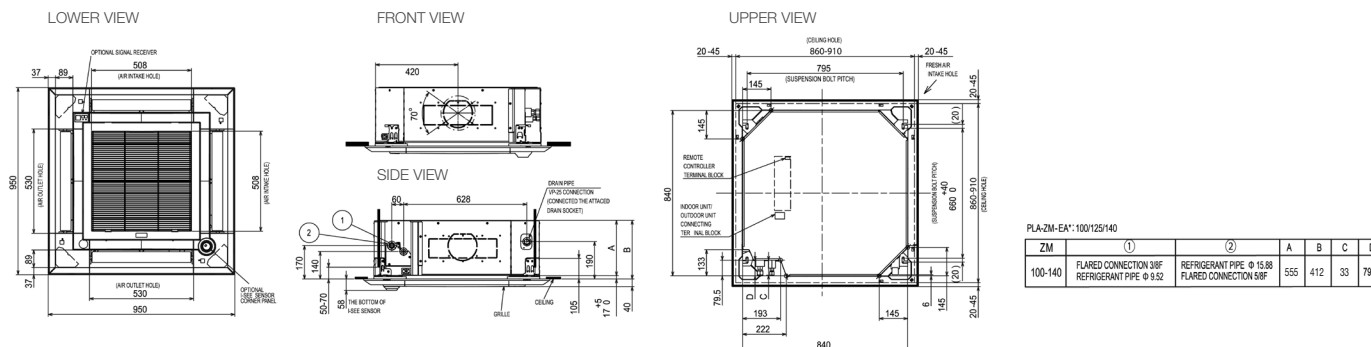


PLA-ZM INDOOR UNITS		PLA-ZM100EA2	PLA-ZM125EA2	PLA-ZM140EA2
CAPACITY (kW)	Heating (nominal)	11.2 (2.7-14.0)	14 (3.2-16.0)	16 (3.7-18.0)
	Cooling (nominal)	9.5 (4.9-11.4)	12.5 (5.1-14.0)	13.4 (5.4-15.0)
	Heating (UK)	7.95 (1.92-9.94)	9.94 (2.27-11.36)	11.36 (2.63-12.78)
	Cooling (UK)	9.03 (4.66-10.83)	11.88 (4.85-13.3)	12.73 (5.13-14.25)
SHF (nominal)		0.77	0.7	0.7
COP / EER (nominal)		4.2 / 4.4	3.6 / 3.6	3.5 / 3.7
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.8 / 7.6	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	24 / 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	White	PLP-6EA	PLP-6EA	PLP-6EA
	Black Satin	PLP-6EA-B	PLP-6EA-B	PLP-6EA-B
V BLOCKING FILTER		PAC-SK53KF-E	PAC-SK53KF-E	PAC-SK53KF-E
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA	PAR-41MAA	PAR-41MAA
WIRELESS REMOTE CONTROLLER REFERENCE		PAR-SL101A-E	PAR-SL101A-E	PAR-SL101A-E

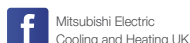
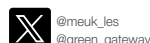
PUZ-ZM OUTDOOR UNITS		PUZ-ZM100YDA ③	PUZ-ZM125YDA ③	PUZ-ZM140YDA ③
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	48 / 44	50 / 47	51 / 49
SOUND POWER LEVEL (dBA)	Cooling	63	66	68
WEIGHT (kg)		114	116	121
DIMENSIONS (mm)	Width x Depth x Height	1110 x 460 + 45 x 870	1110 x 460 + 45 x 870	1110 x 460 + 45 x 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 / 2.16	3.889 / 3.473	4.572 / 3.622
	Heating/Cooling (UK)	2.1 / 1.79	3.0 / 2.88	3.61 / 3.01
STARTING CURRENT (A)		3.5	3.5	3.5
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	4.09 / 3.32 [8.50]	5.97 / 5.32 [9.50]	7.02 / 5.56 [9.70]
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) - 30m		3.6 / 2.43 (40m)	3.6 / 2.43 (40m)	3.6 / 2.43 (40m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) - R32 (GWP 675)		2.4 / 1.62	2.4 / 1.62	2.4 / 1.62

③ Three Phase

PLA-ZM100/125/140EA2 DIMENSIONS



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Note: The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R290 (GWP:3), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No 626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of May 2024

