

PEAD-M R32 Ceiling Concealed Ducted System

Power Inverter Heat Pump (Three Phase)



The **PEAD-M Power Inverter** range is a ceiling concealed ducted system that blends a host of outstanding features with an unobtrusive design (only 250mm height) for easy installation and maintenance. Offering high seasonal efficiency, advanced control options and extended pipe runs, the units also come with a wide range of external static pressure settings, making this range an extremely flexible solution for applications such as light commercial, schools and warehousing.

Key Features & Benefits

- Increased comfort levels through advanced airflow and smart defrost features
- 100m pipe run, increasing application capability
- PAR-41MAA controller allows effective energy monitoring
- Improved efficiency through new fan motor
- Full heating capacity down to -3°C
- Drain pump included as standard
- 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



PEAD-M - INDOOR UNITS		PEAD-M100JA2	PEAD-M125JA2	PEAD-M140JA2
CAPACITY (kW)	Heating (nominal)	11.2 (4.5-14.0)	14.0 (5.0-16.0)	16.0 (5.7-18.0)
	Cooling (nominal)	9.5 (4.9-11.4)	12.5 (5.5-14.0)	13.4 (6.2-15.3)
	Heating (UK)	9.5 (3.85-11.9)	11.9 (4.25-13.6)	13.6 (4.85-15.3)
	Cooling (UK)	9.2 (4.5-10.5)	11.5 (5.05-12.9)	12.9 (5.7-14.1)
SHF (nominal)		0.82	0.78	0.77
COP / EER (nominal)		4.40 / 4.20	3.72 / 3.75	3.90 / 3.62
SCOP (ηsh) / SEER (ηsc) (BS EN14825)		4.4 (173.8%) / 6.5 (275%)	4.1 (163.1%) / 6.1 (254.8%)	4.1 (162.5%) / 6.1 (254%)
ERP ENERGY EFFICIENCY CLASS		Heating/Cooling A+ / A++	A+ / A++	A+ / A++
AIRFLOW (l/s)		Lo-Mi-Hi 383-467-533	467-567-617	492-592-667
PIPE SIZE MM (in)	Lo-Mi-Hi	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
	Gas	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Liquid	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
EXTERNAL STATIC PRESSURE (Pa)		35-50-70-100-150	35-50-70-100-150	35-50-70-100-150
SOUND PRESSURE LEVEL (dBA)		Lo-Mi-Hi 31-36-39	35-39-41	34-38-41
SOUND POWER LEVEL (dBA)		62	66	66
DIMENSIONS (mm)		Width x Depth x Height 1400 x 732 x 250	1400 x 732 x 250	1600 x 732 x 250
WEIGHT (kg)		37	38	42
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
WIRED REMOTE CONTROLLER REFERENCE		PAR-41MAA	PAR-41MAA	PAR-41MAA
PUZ-ZM - OUTDOOR UNITS		PUZ-ZM100YKA2 ^③	PUZ-ZM125YKA2 ^③	PUZ-ZM140YKA2 ^③
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling	51 / 49	52 / 50	52 / 50
	Cooling	69	70	70
WEIGHT (kg)		111	114	118
DIMENSIONS (mm)		Width x Depth x Height 1050 x 330 x 40 x 1338	1050 x 330 x 40 x 1338	1050 x 330 x 40 x 1338
ELECTRICAL SUPPLY		380-415v,50Hz	380-415v,50Hz	380-415v,50Hz
PHASE		Three	Three	Three
SYSTEM POWER INPUT (kW)	Heating/Cooling (nominal)	2.545 / 2.261	3.763 / 3.333	4.102 / 3.701
	Heating/Cooling (UK)	2.03 / 1.94	3.34 / 2.83	3.65 / 3.15
STARTING CURRENT (A)		2.6	3.3	3.3
SYSTEM RUNNING CURRENT (A)	Heating/Cooling [MAX]	5.08 / 4.85 [10.3]	8.35 / 7.06 [11.3]	9.12 / 7.86 [14.4]
		16	16	16
FUSE RATING (BS88) - HRC (A)		5	5	5
MAINS CABLE NO. CORES		100	100	100
MAX PIPE LENGTH (m)		30	30	30
MAX HEIGHT DIFFERENCE (m)				
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

MAC-100FT-E

Plasma Quad Connect air purifying device

PAC-HA31PAR

Plasma Quad Connect metal fitment

Outdoor Units

PAC-SH96SG

Air outlet guide for PUZ-ZM100-140YKA2

PAC-SJ71FM-E

30Pa outdoor fan motor for PUZ-ZM100-140YKA2

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

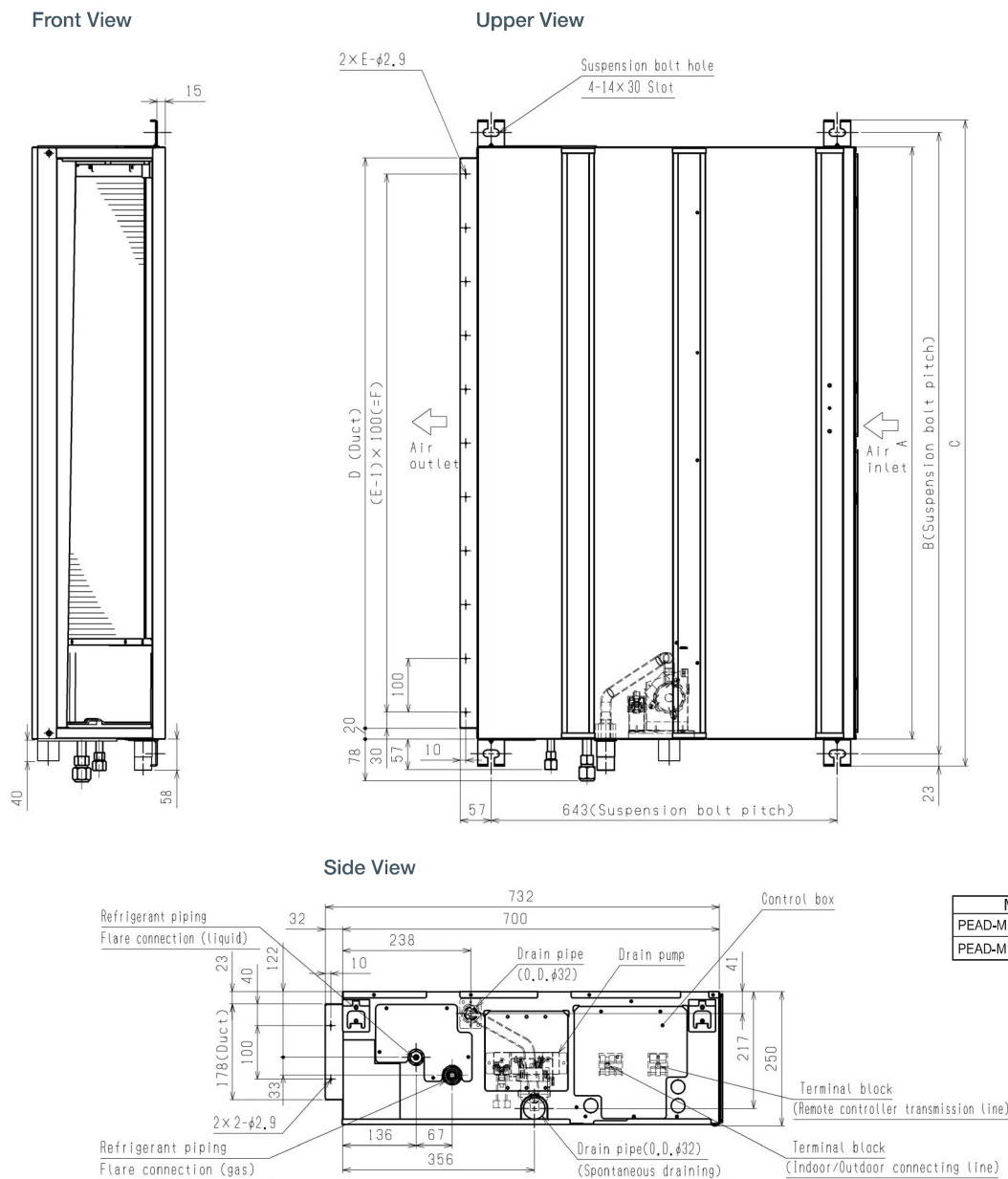
Retail control and input / output interface

PAC-SJ95MA

M-NET adaptor for size 100 to 140

Product Dimensions

PEAD-M100/125/140JA2



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