

# PEAD-M R32 Ceiling Concealed Ducted System

## Standard Inverter Heat Pump (Single Phase)

The cost effective **PEAD-M Standard 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 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 (size 100-140)
- PAR-41MAA controller allows effective energy monitoring
- Improved efficiency through new fan motor
- 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

# R32



| PEAD-M - INDOOR UNITS                |                        | PEAD-M35JA2                   | PEAD-M50JA2                   | PEAD-M60JA2                   | PEAD-M71JA2                   | PEAD-M100JA2                  | PEAD-M125JA2                  | PEAD-M140JA2                  |
|--------------------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| CAPACITY (kW)                        | Heating (nominal)      | 4.1 (1.1-5.0)                 | 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)                 | 5.0 (1.7-5.6)                 | 6.1 (1.6-6.3)                 | 7.1 (2.2-8.1)                 | 9.5 (4.0-10.6)                | 12.1 (6.0-13.0)               | 13.4 (6.1-14.1)               |
|                                      | Heating (UK)           | 3.49 (0.94-4.25)              | 5.10 (1.28-6.12)              | 5.96 (1.36-6.8)               | 6.80 (1.70-8.67)              | 9.63 (2.41-10.75)             | 11.61 (3.53-12.90)            | 12.90 (3.61-13.59)            |
|                                      | Cooling (UK)           | 3.31 (0.74-3.59)              | 4.60 (1.56-5.15)              | 5.16 (1.47-5.80)              | 6.53 (2.02-7.45)              | 8.65 (3.64-9.65)              | 11.01 (5.46-11.83)            | 12.19 (5.55-12.83)            |
| SHF (nominal)                        |                        | 0.85                          | 0.84                          | 0.83                          | 0.80                          | 0.82                          | 0.78                          | 0.77                          |
| COP / EER (nominal)                  |                        | 4.00 / 3.90                   | 4.10 / 3.70                   | 3.80 / 3.60                   | 3.80 / 3.50                   | 3.80 / 3.30                   | 3.61 / 3.01                   | 3.61 / 2.81                   |
| SCOP (ηsh) / SEER (ηsc) (BS EN14825) |                        | 4.10 (161.8%) / 6.30 (260.9%) | 4.20 (166.9%) / 6.30 (256.9%) | 4.10 (162.4%) / 6.10 (250.5%) | 4.10 (161.6%) / 6.20 (252.7%) | 4.10 (161.4%) / 6.10 (257.3%) | 3.80 (152.1%) / 5.30 (218.5%) | 3.80 (151.9%) / 5.20 (213.3%) |
| 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-Hi               | 167-200-233                   | 200-242-283                   | 242-300-350                   | 242-300-383                   | 383-467-533                   | 467-567-617                   | 492-592-667                   |
| PIPE SIZE mm (in)                    | Gas                    | 9.52 (3/8")                   | 12.7 (1/2")                   | 15.88 (5/8")                  | 15.88 (5/8")                  | 15.88 (5/8")                  | 15.88 (5/8")                  | 15.88 (5/8")                  |
|                                      | Liquid                 | 6.35 (1/4")                   | 6.35 (1/4")                   | 6.35 (1/4")                   | 9.52 (3/8")                   | 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              | 35-50-70-100-150              | 35-50-70-100-150              | 35-50-70-100-150              | 35-50-70-100-150              |
| SOUND PRESSURE LEVEL (dBA)           | Lo-Mi-Hi               | 24-29-32                      | 27-33-35                      | 26-32-35                      | 26-32-37                      | 31-36-39                      | 35-39-41                      | 34-38-41                      |
| SOUND POWER LEVEL (dBA)              |                        | 54                            | 58                            | 56                            | 58                            | 62                            | 66                            | 66                            |
| DIMENSIONS (mm)                      | Width x Depth x Height | 900 x 732 x 250               | 900 x 732 x 250               | 1100 x 732 x 250              | 1100 x 732 x 250              | 1400 x 732 x 250              | 1400 x 732 x 250              | 1600 x 732 x 250              |
| WEIGHT (kg)                          |                        | 25                            | 26.5                          | 29.5                          | 29.5                          | 37                            | 38                            | 42                            |
| 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                             |
| WIRED REMOTE CONTROLLER REFERENCE    |                        | PAR-41MAA                     | PAR-41MAA                     | PAR-41MAA                     | PAR-41MAA                     | PAR-41MAA                     | PAR-41MAA                     | PAR-41MAA                     |

| SUZ-M / PUZ-M - OUTDOOR UNITS                                    |                           | SUZ-M35VAR2       | SUZ-M50VAR2        | SUZ-M60VAR2        | SUZ-M71VAR1        | PUZ-M100VKA2         | PUZ-M125VKA2         | PUZ-M140VKA2         |
|------------------------------------------------------------------|---------------------------|-------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|
| SOUND PRESSURE LEVEL (dBA)                                       | Heating/Cooling           | 48 / 48           | 48 / 49            | 49 / 51            | 49 / 51            | 51 / 54              | 54 / 56              | 55 / 57              |
|                                                                  | Cooling                   | 59                | 64                 | 65                 | 66                 | 70                   | 72                   | 73                   |
| WEIGHT (kg)                                                      |                           | 35                | 41                 | 54                 | 56                 | 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) | 1.025 / 0.923     | 1.463 / 1.351      | 1.842 / 1.694      | 2.105 / 2.028      | 2.947 / 2.878        | 3.739 / 4.019        | 4.155 / 4.768        |
|                                                                  | Heating/Cooling (UK)      | 0.85 / 0.84       | 1.24 / 1.19        | 1.50 / 1.56        | 1.87 / 1.72        | 2.35 / 2.47          | 3.32 / 3.41          | 3.69 / 4.05          |
| STARTING CURRENT (A)                                             |                           | 5.0               | 5.7                | 7.6                | 10.0               | 7.1                  | 2.9                  | 2.9                  |
| SYSTEM RUNNING CURRENT (A)                                       | Heating/Cooling [MAX]     | 3.69 / 3.64 [9.7] | 5.38 / 5.18 [14.9] | 6.54 / 6.78 [16.7] | 8.15 / 7.47 [16.7] | 10.23 / 10.75 [22.3] | 14.43 / 14.81 [27.8] | 16.06 / 17.62 [31.4] |
| FUSE RATING (BS88) - HRC (A)                                     |                           | 16                | 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 <sub>2</sub> 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 <sub>2</sub> EQUIVALENT (T) | R32 (GWP 675)             | 1.16 / 0.78       | 1.66 / 1.12        | 1.71 / 1.15        | 2.37 / 1.80        | 4.10 / 2.77          | 5.00 / 3.38          | 5.00 / 3.38          |

Note: No duty/standby operation on SUZ-M35/50/60/71VAR2/1.

## Accessories

### Indoor Units

#### MAC-100FT-E

Plasma Quad Connect air purifying device

#### PAC-HA31PAR

Plasma Quad Connect metal fitment

### Outdoor Units

#### MAC-881SG

Air outlet guide for SUZ-M35VAR2

#### MAC-882SG

Air outlet guide for SUZ-M50VAR2

#### MAC-886SG

Air outlet guide for SUZ-M60VAR2 / SUZ-M71VAR1

#### PAC-SH96SG

Air outlet guide for PUZ-M100-140VKA2

### 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-334IF-E

Interface for M-NET, MA remote controller (PAR-41MAA / PAR-CT01MAA), on/off input and run/fault output

#### MAC-497IF-E

Interface for MA remote controller (PAR-41MAA / PAR-CT01MAA)

#### MAC-587IF-E

Interface for connection to Wi-Fi MELCloud service

#### MELCOBEMS MINI (A1M+)

Modbus and BACnet MSTP CN105 adaptor

#### MELCORETAIL MINI

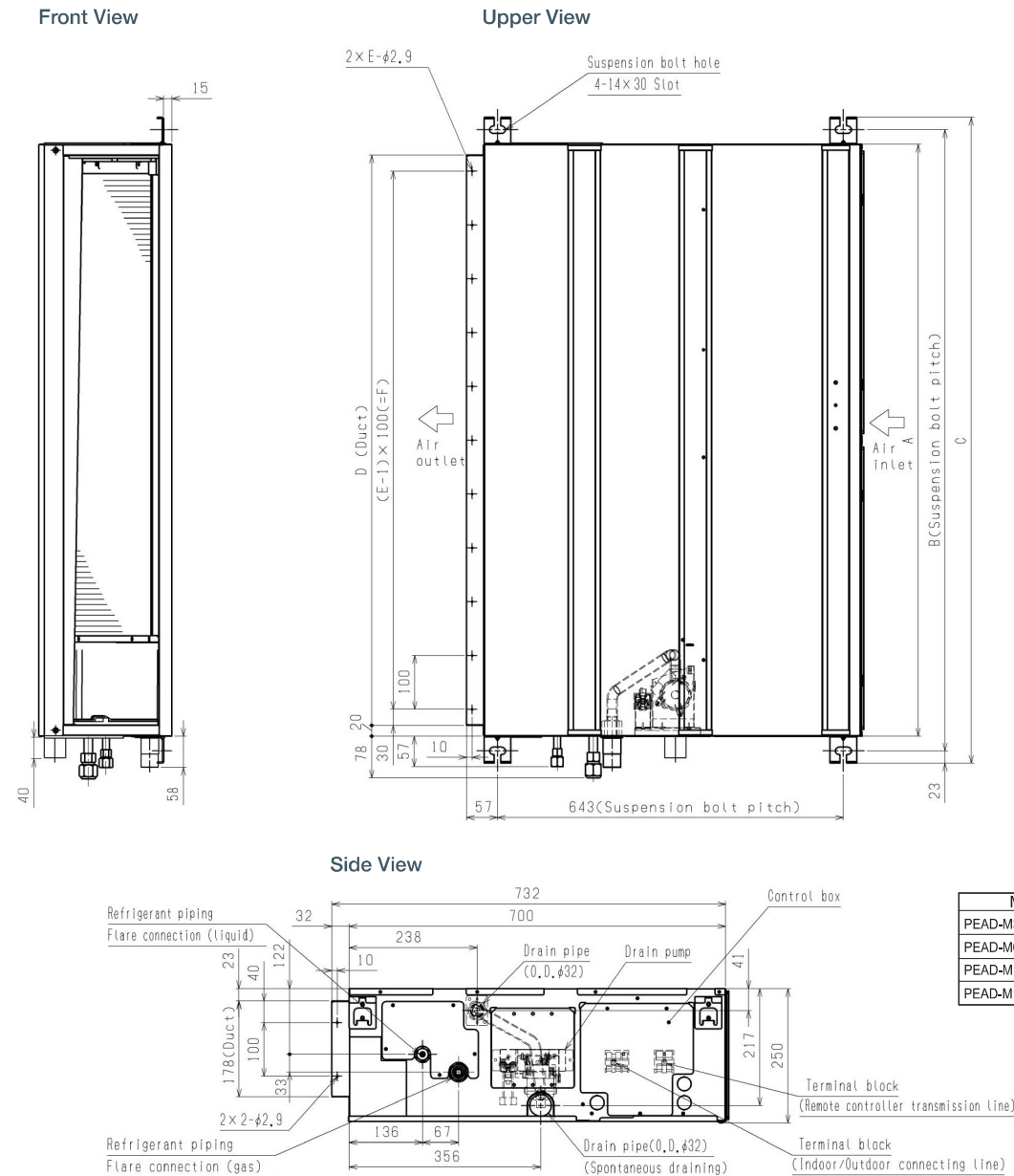
Retail control and input / output interface

#### PAC-SJ95MA

M-NET adaptor for size 100 to 140

## Product Dimensions

## PEAD-M35/50/60/71/100/125/140JA2



| Model            | A    | B    | C    | D    | E  | F    |
|------------------|------|------|------|------|----|------|
| PEAD-M35,50JA2   | 900  | 954  | 1000 | 860  | 9  | 800  |
| PEAD-M60,71JA2   | 1100 | 1154 | 1200 | 1060 | 11 | 1000 |
| PEAD-M100,125JA2 | 1400 | 1454 | 1500 | 1360 | 14 | 1300 |
| PEAD-M140JA2     | 1600 | 1654 | 1700 | 1560 | 16 | 1500 |

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