

# PKA-M R32

## Wall Mounted System

### Power Inverter Heat Pump

**Mr.SLIM™**

The **PKA-M Power Inverter** range is a wall mounted 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 extremely flexible.

**R32****POWER INVERTER**

#### Key Features & Benefits:

- Improved airflow control, including adjustable louvres for uniform air distribution
- Internal pipe connection to wall mounted unit for easy and neat installation
- CN22 connector as standard for connection to PAR-40MAA hard wired controller
- Full heating capacity down to -3°C
- 100m pipe run (Size 100)
- Replace Technology available



# Air Conditioning Product Information

## PKA-M R32 Wall Mounted System Power Inverter Heat Pump

**R32**



| PKA-M INDOOR UNITS                   |                        | PKA-M35LA           | PKA-M50LA           | PKA-M60KA           | PKA-M71KA           | PKA-M100KA          | PKA-M100KA          |
|--------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| CAPACITY (kW)                        | Heating (nominal)      | 4.1 (1.6-5.2)       | 5.0 (2.5-7.3)       | 7.0 (2.8-8.2)       | 8.0 (3.5-10.2)      | 11.2 (4.5-14.0)     | 11.2 (4.5-14.0)     |
|                                      | Cooling (nominal)      | 3.6 (1.6-4.5)       | 4.6 (2.3-5.6)       | 6.1 (2.7-6.7)       | 7.1 (3.3-8.1)       | 9.5 (4.9-11.4)      | 9.5 (4.9-11.4)      |
|                                      | Heating (UK)           | 3.5 (1.35-4.4)      | 4.25 (2.15-6.2)     | 5.95 (2.4-6.95)     | 6.8 (3.0-8.65)      | 9.5 (3.85-11.9)     | 9.5 (3.85-11.9)     |
|                                      | Cooling (UK)           | 3.3 (1.45-4.15)     | 4.23 (2.1-5.15)     | 5.5 (2.5-6.15)      | 6.55 (3.05-7.45)    | 9.2 (4.5-10.5)      | 9.2 (4.5-10.5)      |
| SHF (nominal)                        |                        | 0.74                | 0.66                | 0.86                | 0.78                | 0.73                | 0.73                |
| COP / EER (nominal)                  |                        | 3.94 / 4.20         | 3.72 / 3.71         | 4.04 / 3.91         | 3.78 / 3.81         | 3.61 / 3.95         | 3.61 / 3.95         |
| SCOP (ηsh) / SEER (ηsc) (BS EN14825) |                        | 4.0 / 6.5           | 4.3 / 6.6           | 4.2 / 6.8           | 4.3 / 6.8           | 4.4 / 6.5           | 4.4 / 6.4           |
| ErP ENERGY EFFICIENCY CLASS          | Heating/Cooling        | A+ / A++            | A+ / A++            | A+ / A++            | A+ / A++            | A+ / A++            | A+ / A++            |
| AIRFLOW (l/s)                        | Lo-Mi2-Mi1-Hi          | 125-137-153-182     | 125-137-153-182     | 300-333-367         | 300-333-367         | 333-383-433         | 333-383-433         |
| PIPE SIZE mm (in)                    | Gas                    | 12.7 (1/2")         | 12.7 (1/2")         | 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")         | 9.52 (3/8")         | 9.52 (3/8")         | 9.52 (3/8")         | 9.52 (3/8")         |
| SOUND PRESSURE LEVEL (dBA)           | Lo-Mi2-Mi1-Hi          | 34-37-40-43         | 34-37-40-43         | 39-42-45            | 39-42-45            | 41-45-49            | 41-45-49            |
| SOUND POWER LEVEL (dBA)              |                        | 60                  | 60                  | 64                  | 64                  | 65                  | 65                  |
| DIMENSIONS (mm)                      | Width x Depth x Height | 898 x 237 x 299     | 898 x 237 x 299     | 1170 x 295 x 365    | 1170 x 295 x 365    | 1170 x 295 x 365    | 1170 x 295 x 365    |
| WEIGHT (kg)                          |                        | 12.6                | 12.6                | 21                  | 21                  | 21                  | 21                  |
| 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 |
| FUSE RATING (BS88) - HRC (A)         |                        | 6                   | 6                   | 6                   | 6                   | 6                   | 6                   |
| INTERCONNECTING CABLE No. CORES      |                        | 4                   | 4                   | 4                   | 4                   | 4                   | 4                   |
| WIRED REMOTE CONTROLLER REFERENCE    |                        | PAR-40MAA           | PAR-40MAA           | PAR-40MAA           | PAR-40MAA           | PAR-40MAA           | PAR-40MAA           |
| WIRELESS REMOTE CONTROLLER REFERENCE |                        | PAR-FL32MA          | PAR-FL32MA          | PAR-FL32MA          | PAR-FL32MA          | PAR-FL32MA          | PAR-FL32MA          |

| PUZ-ZM OUTDOOR UNITS                                                             |                           | PUZ-ZM35VKA        | PUZ-ZM50VKA        | PUZ-ZM60VHA          | PUZ-ZM71VHAR1        | PUZ-ZM100VKAR1         | PUZ-ZM100VKAR1 ③       |
|----------------------------------------------------------------------------------|---------------------------|--------------------|--------------------|----------------------|----------------------|------------------------|------------------------|
| SOUND PRESSURE LEVEL (dBA)                                                       | Heating/Cooling           | 46 / 44            | 46 / 44            | 49 / 47              | 49 / 47              | 51 / 49                | 51 / 49                |
| SOUND POWER LEVEL (dBA)                                                          | Cooling                   | 65                 | 65                 | 67                   | 67                   | 69                     | 69                     |
| WEIGHT (kg)                                                                      |                           | 46                 | 46                 | 70                   | 70                   | 116                    | 123                    |
| DIMENSIONS (mm)                                                                  | Width x Depth x Height    | 809 x 300 x 630    | 809 x 300 x 630    | 950 x 330 + 25 x 943 | 950 x 330 + 25 x 943 | 1050 x 330 + 40 x 1338 | 1050 x 330 + 40 x 1338 |
| ELECTRICAL SUPPLY                                                                |                           | 220-240v, 50Hz     | 220-240v, 50Hz     | 220-240v, 50Hz       | 220-240v, 50Hz       | 220-240v, 50Hz         | 380-415v, 50Hz         |
| PHASE                                                                            |                           | Single             | Single             | Single               | Single               | Single                 | Three                  |
| SYSTEM POWER INPUT (kW)                                                          | Heating/Cooling (nominal) | 1.040 / 0.869      | 1.347 / 1.239      | 1.732 / 1.560        | 2.116 / 1.863        | 3.102 / 2.405          | 3.102 / 2.405          |
|                                                                                  | Heating/Cooling (UK)      | 0.81 / 0.84        | 1.12 / 1.12        | 1.25 / 1.65          | 1.54 / 1.92          | 2.47 / 2.06            | 2.47 / 2.06            |
| STARTING CURRENT (A)                                                             |                           | 5.0                | 5.0                | 6.0                  | 6.0                  | 13.0                   | 6.0                    |
| SYSTEM RUNNING CURRENT (A)                                                       | Heating/Cooling [MAX]     | 4.97 / 4.31 [13.4] | 5.98 / 5.57 [13.4] | 7.41 / 6.65 [19.4]   | 9.10 / 7.96 [19.4]   | 13.46 / 10.45 [27.1]   | 4.49 / 5.45 [8.6]      |
| FUSE RATING (BS88) - HRC (A)                                                     |                           | 16                 | 16                 | 25                   | 25                   | 32                     | 16                     |
| MAINS CABLE No. CORES                                                            |                           | 3                  | 3                  | 3                    | 3                    | 3                      | 5                      |
| MAX PIPE LENGTH (m)                                                              |                           | 50                 | 50                 | 55                   | 55                   | 100                    | 100                    |
| MAX HEIGHT DIFFERENCE (m)                                                        |                           | 30                 | 30                 | 30                   | 30                   | 30                     | 30                     |
| CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675) - 30m   |                           | 2.0 / 1.35         | 2.00 / 1.35        | 2.80 / 1.89          | 2.80 / 1.89          | 4.00 / 2.70            | 4.00 / 2.70            |
| MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (t) - R32 (GWP 675) |                           | 0.30 / 0.20        | 0.30 / 0.20        | 0.80 / 0.54          | 0.80 / 0.54          | 2.80 / 1.89            | 2.80 / 1.89            |

③ Three Phase

| PKA-M35/50LA DIMENSIONS |  |            |  | PKA-M60/71/100KA DIMENSIONS |  |            |  |
|-------------------------|--|------------|--|-----------------------------|--|------------|--|
| UPPER VIEW              |  | FRONT VIEW |  | UPPER VIEW                  |  | FRONT VIEW |  |
|                         |  |            |  |                             |  |            |  |
| SIDE VIEW               |  |            |  | SIDE VIEW                   |  |            |  |
|                         |  |            |  |                             |  |            |  |



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**Note:** The fuse rating is for guidance only. 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), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), 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).

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