

## PRODUCT INFORMATION<sup>(1)</sup>

Model(s): Information to identify the model(s) to which the information relates:

Outdoor: PUZ-M140YKA

Indoor: PCA-M140KA

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven vapour compression

If applicable: driver of compressor: electric motor

| Item  | Symbol               | Value | Unit |  | Item   | Symbol                  | Value | Unit |
|---|----------------------|-------|------|--|--|-------------------------|-------|------|
| Rated cooling capacity  | $P_{\text{rated,c}}$ | 13,40 | kW   |  | Seasonal space cooling energy efficiency   | $\eta_{\text{s,c}}$     | 208,0 | %    |
| Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27°/19 °C (dry/wet bulb) |                      |       |      |  | Declared energy efficiency ratio for part load at given outdoor temperatures $T_j$ |                         |       |      |
| $T_j = + 35 \text{ °C}$   | $P_{\text{dc}}$      | 13,40 | kW   |  | $T_j = + 35 \text{ °C}$  | $\text{EER}_{\text{d}}$ | 2,50  | –    |
| $T_j = + 30 \text{ °C}$   | $P_{\text{dc}}$      | 9,90  | kW   |  | $T_j = + 30 \text{ °C}$  | $\text{EER}_{\text{d}}$ | 4,30  | –    |
| $T_j = + 25 \text{ °C}$   | $P_{\text{dc}}$      | 6,40  | kW   |  | $T_j = + 25 \text{ °C}$  | $\text{EER}_{\text{d}}$ | 6,50  | –    |
| $T_j = + 20 \text{ °C}$   | $P_{\text{dc}}$      | 5,70  | kW   |  | $T_j = + 20 \text{ °C}$  | $\text{EER}_{\text{d}}$ | 9,30  | –    |
| Degradation co-efficient for air conditioners(*)  | $C_{\text{dc}}$      | 0,25  | –    |  |  |                         |       |      |

### Power consumption in modes other than 'active mode'

|                     |                  |       |    |  |                       |                 |       |    |
|---------------------|------------------|-------|----|--|-----------------------|-----------------|-------|----|
| Off mode            | $P_{\text{OFF}}$ | 0,020 | kW |  | Crankcase heater mode | $P_{\text{CK}}$ | 0,000 | kW |
| Thermostat-off mode | $P_{\text{TO}}$  | 0,073 | kW |  | Standby mode          | $P_{\text{SB}}$ | 0,020 | kW |

### Other items

|  |  |           |                                       |  |   |   |      |                       |
|--|--|-----------|---------------------------------------|--|---|---|------|-----------------------|
| Capacity control                               | variable   |           |                                       |  | For air-to-air air conditioner: air flow rate, outdoor measured | – | 5160 | $\text{m}^3/\text{h}$ |
| Sound power level, indoor/outdoor              | $L_{\text{WA}}$  | 68,0/73,0 | dB                                    |  |   |   |      |                       |
| If engine driven: Emissions of nitrogen oxides | $\text{NO}_x(\text{**})$   | –         | mg/kWh fuel input GCV                 |  |   |   |      |                       |
| GWP of the refrigerant                         |  | 675       | kg $\text{CO}_2\text{eq}$ (100 years) |  |   |   |      |                       |
| Contact details                                | MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS 3-18-1, Oshika, Suruga-ku, Shizuoka 422-8528, Japan |           |                                       |  |   |   |      |                       |

(\*) If  $C_{\text{dc}}$  is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.

(\*\*) From 26 September 2018.

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

(1) This information is based on COMMISSION REGULATION (EU) 2016/2281

### Recycle

Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and reused.

Electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please, dispose of this equipment at your local community waste collection/recycling center.

In the European Union there are separate collection systems for used electrical and electronic product.

Please, help us to conserve the environment we live in!

## PRODUCT INFORMATION<sup>(1)</sup>

Information to identify the model(s) to which the information relates:

Outdoor: PUZ-M140YKA

Indoor: PCA-M140KA

Outdoor side heat exchanger of heat pump: air

Indoor side heat exchanger of heat pump: air

Indication if the heater is equipped with a supplementary heater: no

If applicable: driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Item  | Symbol   | Value     | Unit                                  | Item   | Symbol              | Value | Unit                  |
|---|--|-----------|---------------------------------------|--|---------------------|-------|-----------------------|
| Rated heating capacity  | $P_{\text{rated,h}}$   | 15,00     | kW                                    | Seasonal space heating energy efficiency   | $\eta_{\text{s,h}}$ | 158,7 | %                     |
| Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature $T_j$ |  |           |                                       | Declared coefficient of performance for part load at given outdoor temperatures $T_j$          |                     |       |                       |
| $T_j = -7\text{ °C}$  | $P_{\text{dh}}$  | 8,40      | kW                                    | $T_j = -7\text{ °C}$   | $\text{COP}_d$      | 2,80  | –                     |
| $T_j = +2\text{ °C}$  | $P_{\text{dh}}$  | 5,10      | kW                                    | $T_j = +2\text{ °C}$   | $\text{COP}_d$      | 4,00  | –                     |
| $T_j = +7\text{ °C}$  | $P_{\text{dh}}$  | 4,20      | kW                                    | $T_j = +7\text{ °C}$   | $\text{COP}_d$      | 5,30  | –                     |
| $T_j = +12\text{ °C}$   | $P_{\text{dh}}$  | 4,90      | kW                                    | $T_j = +12\text{ °C}$  | $\text{COP}_d$      | 6,50  | –                     |
| $T_{\text{biv}}$ = bivalent temperature   | $P_{\text{dh}}$  | 9,40      | kW                                    | $T_{\text{biv}}$ = bivalent temperature  | $\text{COP}_d$      | 2,30  | –                     |
| $T_{\text{OL}}$ = operation limit   | $P_{\text{dh}}$  | 7,00      | kW                                    | $T_{\text{OL}}$ = operation limit  | $\text{COP}_d$      | 2,00  | –                     |
| For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $T_{\text{OL}} < -20\text{ °C}$ )          | $P_{\text{dh}}$  | –         | kW                                    | For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{\text{OL}} < -20\text{ °C}$ )       | $\text{COP}_d$      | –     | –                     |
| Bivalent temperature  | $T_{\text{biv}}$   | -10       | °C                                    | For water-to-air heat pumps: Operation limit temperature                                       | $T_{\text{ol}}$     | –     | °C                    |
| Degradation co-efficient heat pumps(**)   | $C_{\text{dh}}$  | 0,25      | –                                     |  |                     |       |                       |
| Power consumption in modes other than 'active mode'   |  |           |                                       | Supplementary heater   |                     |       |                       |
| Off mode  | $P_{\text{OFF}}$   | 0,020     | kW                                    | Back-up heating capacity (*)   | $e_{\text{bu}}$     | 0,000 | kW                    |
| Thermostat-off mode   | $P_{\text{TO}}$  | 0,072     | kW                                    | Type of energy input   |                     |       |                       |
| Crankcase heater mode   | $P_{\text{CK}}$  | 0,000     | kW                                    | Standby mode   | $P_{\text{SB}}$     | 0,020 | kW                    |
| Other items   |  |           |                                       |  |                     |       |                       |
| Capacity control  | variable   |           |                                       | For air-to-air heat pumps: air flow rate, outdoor measured                                     | –                   | 5520  | $\text{m}^3/\text{h}$ |
| Sound power level, indoor/outdoor   | $L_{\text{WA}}$  | 68,0/75,0 | dB                                    | For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger | –                   | –     | $\text{m}^3/\text{h}$ |
| Emissions of nitrogen oxides (if applicable)  | $\text{NO}_x(\text{***})$  | –         | mg/kWh fuel input GCV                 |  |                     |       |                       |
| GWP of the refrigerant  |  | 675       | kg $\text{CO}_2\text{eq}$ (100 years) |  |                     |       |                       |
| Contact details   | MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS 3-18-1, Oshika, Suruga-ku, Shizuoka 422-8528, Japan |           |                                       |  |                     |       |                       |

(\*)

(\*\*) If  $C_{\text{dh}}$  is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.

(\*\*\*) From 26 September 2018.

Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

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