

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

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

Outdoor: PUMY-SM140YKM2(-BS)      Indoor: PEFY-MS71VMA-A1 ×2 units

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                                                                                          | $P_{\text{rated,c}}$ | 15,50 | kW   |  | Seasonal space cooling energy efficiency                                           | $\eta_{\text{s,c}}$ | 314,8 | %    |
| 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 $T_j$ |                     |       |      |
| $T_j = + 35 \text{ °C}$                                                                                         | $P_{\text{dc}}$      | 15,50 | kW   |  | $T_j = + 35 \text{ °C}$                                                            | $\text{EER}_d$      | 3,22  | –    |
| $T_j = + 30 \text{ °C}$                                                                                         | $P_{\text{dc}}$      | 11,42 | kW   |  | $T_j = + 30 \text{ °C}$                                                            | $\text{EER}_d$      | 5,73  | –    |
| $T_j = + 25 \text{ °C}$                                                                                         | $P_{\text{dc}}$      | 7,34  | kW   |  | $T_j = + 25 \text{ °C}$                                                            | $\text{EER}_d$      | 10,33 | –    |
| $T_j = + 20 \text{ °C}$                                                                                         | $P_{\text{dc}}$      | 5,42  | kW   |  | $T_j = + 20 \text{ °C}$                                                            | $\text{EER}_d$      | 14,64 | –    |
| Degradation co-efficient for air conditioners(*)                                                                | $C_{\text{dc}}$      | 0,25  | –    |  |                                                                                    |                     |       |      |

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

|                     |                  |       |    |  |                       |                 |       |    |
|---------------------|------------------|-------|----|--|-----------------------|-----------------|-------|----|
| Off mode            | $P_{\text{OFF}}$ | 0,015 | kW |  | Crankcase heater mode | $P_{\text{CK}}$ | 0,000 | kW |
| Thermostat-off mode | $P_{\text{TO}}$  | 0,015 | kW |  | Standby mode          | $P_{\text{SB}}$ | 0,015 | kW |
|                     |                  |       |    |  |                       |                 |       |    |

### Other items

|                                                |                      |          |                                   |  |                                                                 |   |      |                   |
|------------------------------------------------|----------------------|----------|-----------------------------------|--|-----------------------------------------------------------------|---|------|-------------------|
| Capacity control                               | variable             |          |                                   |  | For air-to-air air conditioner: air flow rate, outdoor measured | – | 4860 | m <sup>3</sup> /h |
| Sound power level, indoor/outdoor              | $L_{\text{WA}}$      | – / 74,0 | dB                                |  |                                                                 |   |      |                   |
| If engine driven: Emissions of nitrogen oxides | $\text{NO}_x^{(**)}$ | –        | mg/kWh fuel input GCV             |  |                                                                 |   |      |                   |
| GWP of the refrigerant                         |                      | 675      | kg CO <sub>2</sub> 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!

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Outdoor: PUMY-SM140YKM2(-BS) Indoor: PEFY-MS71VMA-A1 ×2 units

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                                                                            | $P_{\text{rated,h}}$                                                                               | 17,50    | kW                                |  | Seasonal space heating energy efficiency                                                       | $\eta_{\text{s,h}}$ | 191,3 | %                 |
| 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 $T_j$          |                     |       |                   |
| $T_j = -7\text{ °C}$                                                                              | $P_{\text{dh}}$                                                                                    | 9,73     | kW                                |  | $T_j = -7\text{ °C}$                                                                           | $\text{COP}_d$      | 2,80  | —                 |
| $T_j = +2\text{ °C}$                                                                              | $P_{\text{dh}}$                                                                                    | 5,92     | kW                                |  | $T_j = +2\text{ °C}$                                                                           | $\text{COP}_d$      | 4,69  | —                 |
| $T_j = +7\text{ °C}$                                                                              | $P_{\text{dh}}$                                                                                    | 3,81     | kW                                |  | $T_j = +7\text{ °C}$                                                                           | $\text{COP}_d$      | 6,80  | —                 |
| $T_j = +12\text{ °C}$                                                                             | $P_{\text{dh}}$                                                                                    | 4,42     | kW                                |  | $T_j = +12\text{ °C}$                                                                          | $\text{COP}_d$      | 9,40  | —                 |
| $T_{\text{biv}}$ = bivalent temperature                                                           | $P_{\text{dh}}$                                                                                    | 11,00    | kW                                |  | $T_{\text{biv}}$ = bivalent temperature                                                        | $\text{COP}_d$      | 2,62  | —                 |
| $T_{\text{OL}}$ = operation limit                                                                 | $P_{\text{dh}}$                                                                                    | 8,90     | kW                                |  | $T_{\text{OL}}$ = operation limit                                                              | $\text{COP}_d$      | 2,19  | —                 |
| 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                                                                                          | $P_{\text{OFF}}$                                                                                   | 0,015    | kW                                |  | Back-up heating capacity (*)                                                                   | $e_{\text{bu}}$     | 0,000 | kW                |
| Thermostat-off mode                                                                               | $P_{\text{TO}}$                                                                                    | 0,022    | kW                                |  | Type of energy input                                                                           |                     |       |                   |
| Crankcase heater mode                                                                             | $P_{\text{CK}}$                                                                                    | 0,000    | kW                                |  | Standby mode                                                                                   | $P_{\text{SB}}$     | 0,019 | kW                |
| Other items                                                                                       |                                                                                                    |          |                                   |  |                                                                                                |                     |       |                   |
| Capacity control                                                                                  | variable                                                                                           |          |                                   |  | For air-to-air heat pumps: air flow rate, outdoor measured                                     | —                   | 4980  | m <sup>3</sup> /h |
| Sound power level, indoor/outdoor                                                                 | $L_{\text{WA}}$                                                                                    | — / 76,0 | dB                                |  | For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger | —                   | —     | m <sup>3</sup> /h |
| Emissions of nitrogen oxides (if applicable)                                                      | $\text{NO}_x(\text{***})$                                                                          | —        | mg/kWh fuel input GCV             |  |                                                                                                |                     |       |                   |
| GWP of the refrigerant                                                                            |                                                                                                    | 675      | kg CO <sub>2</sub> 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.

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