

PRODUCT INFORMATION⁽¹⁾

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

Outdoor: PUZ-M140VKA2

Indoor: PEAD-M140JAL2

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 | $\eta_{\text{s,c}}$ | 213,3 | % |
| 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_{dc} | 13,40 | kW | | $T_j = + 35 \text{ °C}$ | EER_d | 2,81 | – |
| $T_j = + 30 \text{ °C}$ | P_{dc} | 9,90 | kW | | $T_j = + 30 \text{ °C}$ | EER_d | 4,70 | – |
| $T_j = + 25 \text{ °C}$ | P_{dc} | 6,40 | kW | | $T_j = + 25 \text{ °C}$ | EER_d | 6,10 | – |
| $T_j = + 20 \text{ °C}$ | P_{dc} | 6,10 | kW | | $T_j = + 20 \text{ °C}$ | EER_d | 8,70 | – |
| | | | | | | | | |
| Degradation co-efficient for air conditioners(*) | C_{dc} | 0,25 | – | | | | | |

Power consumption in modes other than 'active mode'

| | | | | | | | | |
|---------------------|------------------|-------|----|--|-----------------------|-----------------|-------|----|
| Off mode | P_{OFF} | 0,022 | kW | | Crankcase heater mode | P_{CK} | 0,000 | kW |
| Thermostat-off mode | P_{TO} | 0,013 | kW | | Standby mode | P_{SB} | 0,022 | kW |
| | | | | | | | | |

Other items

| | | | | | | | |
|--|--|-------------|-----------------------------------|---|---|------|-------------------|
| Capacity control | variable | | | For air-to-air air conditioner: air flow rate, outdoor measured | – | 5160 | m ³ /h |
| Sound power level, indoor/outdoor | L_{WA} | 66,0 / 73,0 | dB | | | | |
| If engine driven: Emissions of nitrogen oxides | $\text{NO}_x(**)$ | – | mg/kWh fuel input GCV | | | | |
| GWP of the refrigerant | | 675 | kg CO ₂ eq (100 years) | | | | |
| Contact details | MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS 3-18-1, Oshika, Suruga-ku, Shizuoka 422-8528, Japan | | | | | | |

(*) If C_{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⁽¹⁾

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

Outdoor: PUZ-M140VKA2

Indoor: PEAD-M140JAL2

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 | $P_{rated,h}$ | 15,00 | kW | | Seasonal space heating energy efficiency | $\eta_{s,h}$ | 151,9 | % |
| 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_{dh} | 8,40 | kW | | $T_j = -7\text{ °C}$ | COP_d | 2,80 | – |
| $T_j = +2\text{ °C}$ | P_{dh} | 5,10 | kW | | $T_j = +2\text{ °C}$ | COP_d | 3,70 | – |
| $T_j = +7\text{ °C}$ | P_{dh} | 4,20 | kW | | $T_j = +7\text{ °C}$ | COP_d | 5,10 | – |
| $T_j = +12\text{ °C}$ | P_{dh} | 5,25 | kW | | $T_j = +12\text{ °C}$ | COP_d | 6,30 | – |
| T_{biv} = bivalent temperature | P_{dh} | 9,40 | kW | | T_{biv} = bivalent temperature | COP_d | 3,10 | – |
| T_{OL} = operation limit | P_{dh} | 7,00 | kW | | T_{OL} = operation limit | COP_d | 2,90 | – |
| For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$) | P_{dh} | – | kW | | For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$) | COP_d | – | – |
| Bivalent temperature | T_{biv} | -10 | °C | | For water-to-air heat pumps: Operation limit temperature | T_{oi} | – | °C |
| | | | | | | | | |
| Degradation co-efficient heat pumps(**) | C_{dh} | 0,25 | – | | | | | |
| Power consumption in modes other than 'active mode' | | | | | Supplementary heater | | | |
| Off mode | P_{OFF} | 0,022 | kW | | Back-up heating capacity (*) | elbu | 0,000 | kW |
| Thermostat-off mode | P_{TO} | 0,030 | kW | | Type of energy input | | | |
| Crankcase heater mode | P_{CK} | 0,000 | kW | | Standby mode | P_{SB} | 0,022 | kW |
| Other items | | | | | | | | |
| Capacity control | variable | | | | For air-to-air heat pumps: air flow rate, outdoor measured | – | 5520 | m ³ /h |
| Sound power level, indoor/outdoor | L_{WA} | 66,0 / 75,0 | dB | | For water/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger | – | – | m ³ /h |
| Emissions of nitrogen oxides (if applicable) | NO_x (***) | – | mg/kWh fuel input GCV | | | | | |
| GWP of the refrigerant | | 675 | kg CO ₂ eq (100 years) | | | | | |
| Contact details | MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS 3-18-1, Oshika, Suruga-ku, Shizuoka 422-8528, Japan | | | | | | | |

(*)

(**) If C_{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.

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