## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---|---|---|
| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
| | Indoor unit: | ERSD-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | no |
| Parameters for | | medium-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 6.0 | kW |
| **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| Tj = - 7 °C | Pdh | 5.3 | kW |
| Degradation co-efficient (**) | Cdh | 1.00 | - |
| Tj = + 2 °C | Pdh | 3.7 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 7 °C | Pdh | 3.1 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = +12 °C | Pdh | 3.9 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = bivalent temperature | Pdh | 5.3 | kW |
| Tj = operation limit temperature (***) | Pdh | 5.8 | kW |
| Bivalent temperature | Tbiv | -7 | °C |
| Reference design conditions for space heating | Tdesignh | -10 | °C |
| **Power consumption in modes other than active mode** | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| **Other items** | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 3794 | kWh |
| **For heat pump combination heater:** | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 128 | % |
| **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj** | | | |
| Tj = - 7 °C | COPd | 1.85 | - |
| Tj = + 2 °C | COPd | 3.13 | - |
| Tj = + 7 °C | COPd | 4.66 | - |
| Tj = +12 °C | COPd | 6.53 | - |
| Tj = bivalent temperature | COPd | 1.85 | - |
| Tj = operation limit temperature (***) | COPd | 1.64 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| **Supplementary heater** | | | |
| Rated heat output (*) | Psup | 0.2 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

Contact details

MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier:

Tadashi SAITO
Manager, Quality Assuarance Department
THAILAND

・ Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

・ Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

This information is based on EU regulation No 811/2013 and No 813/2013.

## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
|---|---|---|
| | Indoor unit: | ERSD-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | no |
| Parameters for | | low-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 6.1 | kW |

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j

| | | | |
|---|---|---|---|
| Tj = - 7 °C | Pdh | 5.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 2 °C | Pdh | 4.1 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = + 7 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = +12 °C | Pdh | 3.7 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = bivalent temperature | Pdh | 6.1 | kW |
| Tj = operation limit temperature (***) | Pdh | 6.1 | kW |
| Bivalent temperature | Tbiv | -10 | °C |
| Reference design conditions for space heating | Tdesignh | -10 | °C |

Power consumption in modes other than active mode

| | | | |
|---|---|---|---|
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |

Other items

| | | | |
|---|---|---|---|
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 2783 | kWh |

For heat pump combination heater:

| | | | |
|---|---|---|---|
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 178 | % |

Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj

| | | | |
|---|---|---|---|
| Tj = - 7 °C | COPd | 2.78 | - |
| Tj = + 2 °C | COPd | 4.43 | - |
| Tj = + 7 °C | COPd | 6.27 | - |
| Tj = +12 °C | COPd | 7.11 | - |
| Tj = bivalent temperature | COPd | 2.26 | - |
| Tj = operation limit temperature (***) | COPd | 2.26 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |

Supplementary heater

| | | | |
|---|---|---|---|
| Rated heat output (*) | Psup | 0.0 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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Tadashi SAITO
Manager, Quality Assuarance Department
THAILAND

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

This information is based on EU regulation No 811/2013 and No 813/2013.

## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---|---|---|
| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
| | Indoor unit: | ERSD-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | no |
| Parameters for | | medium-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 5.5 | kW |
| **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| Tj = - 7 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 2 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 7 °C | Pdh | 3.3 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = +12 °C | Pdh | 3.6 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = bivalent temperature | Pdh | 4.5 | kW |
| Tj = operation limit temperature (***) | Pdh | 4.0 | kW |
| Tj = – 15 °C (if TOL < – 20 °C) | Pdh | 4.5 | kW |
| Bivalent temperature | Tbiv | -15 | °C |
| Reference design conditions for space heating | Tdesignh | -22 | °C |
| **Power consumption in modes other than active mode** | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| **Other items** | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 5231 | kWh |
| **For heat pump combination heater:** | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 101 | % |
| **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj** | | | |
| Tj = - 7 °C | COPd | 2.17 | - |
| Tj = + 2 °C | COPd | 3.31 | - |
| Tj = + 7 °C | COPd | 5.15 | - |
| Tj = +12 °C | COPd | 6.27 | - |
| Tj = bivalent temperature | COPd | 1.15 | - |
| Tj = operation limit temperature (***) | COPd | 1.08 | - |
| Tj = – 15 °C (if TOL < – 20 °C) | COPd | 1.15 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| **Supplementary heater** | | | |
| Rated heat output (*) | Psup | 5.5 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

This information is based on EU regulation No 811/2013 and No 813/2013.

## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---|---|---|
| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
| | Indoor unit: | ERSD-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | no |
| Parameters for | | low-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 5.5 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j | | | |
| Tj = - 7 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 2 °C | Pdh | 3.6 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = + 7 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = +12 °C | Pdh | 3.7 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = bivalent temperature | Pdh | 4.5 | kW |
| Tj = operation limit temperature (***) | Pdh | 5.5 | kW |
| Tj = – 15 °C (if TOL < – 20 °C) | Pdh | 4.5 | kW |
| Bivalent temperature | Tbiv | -15 | °C |
| Reference design conditions for space heating | Tdesignh | -22 | °C |
| Power consumption in modes other than active mode | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| Other items | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 3583 | kWh |
| For heat pump combination heater: | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 148 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | COPd | 3.31 | - |
| Tj = + 2 °C | COPd | 4.56 | - |
| Tj = + 7 °C | COPd | 6.55 | - |
| Tj = +12 °C | COPd | 7.33 | - |
| Tj = bivalent temperature | COPd | 1.92 | - |
| Tj = operation limit temperature (***) | COPd | 1.71 | - |
| Tj = – 15 °C (if TOL < – 20 °C) | COPd | 1.92 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| Supplementary heater | | | |
| Rated heat output (*) | Psup | 0.0 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

This information is based on EU regulation No 811/2013 and No 813/2013.

## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
|---|---|---|
| | Indoor unit: | ERSD-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | no |
| Parameters for | | medium-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 6.0 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j | | | |
| Tj = - 7 °C | Pdh | - | kW |
| Degradation co-efficient (**) | Cdh | - | - |
| Tj = + 2 °C | Pdh | 6.0 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 7 °C | Pdh | 3.9 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = +12 °C | Pdh | 3.6 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = bivalent temperature | Pdh | 6.0 | kW |
| Tj = operation limit temperature (***) | Pdh | 6.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C |
| Reference design conditions for space heating | Tdesignh | 2 | °C |
| Power consumption in modes other than active mode | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| Other items | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 1818 | kWh |
| For heat pump combination heater: | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 173 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | COPd | - | - |
| Tj = + 2 °C | COPd | 2.47 | - |
| Tj = + 7 °C | COPd | 3.95 | - |
| Tj = +12 °C | COPd | 5.50 | - |
| Tj = bivalent temperature | COPd | 2.51 | - |
| Tj = operation limit temperature (***) | COPd | 2.51 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| Supplementary heater | | | |
| Rated heat output (*) | Psup | 0.0 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

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## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
|---|---|---|
| | Indoor unit: | ERSD-****D |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | yes |
| Heat pump combination heater: | | no |
| Parameters for | | low-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 6.0 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j | | | |
| Tj = - 7 °C | Pdh | - | kW |
| Degradation co-efficient (**) | Cdh | - | - |
| Tj = + 2 °C | Pdh | 6.0 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 7 °C | Pdh | 3.9 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = +12 °C | Pdh | 3.7 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = bivalent temperature | Pdh | 6.0 | kW |
| Tj = operation limit temperature (***) | Pdh | 6.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C |
| Reference design conditions for space heating | Tdesignh | 2 | °C |
| Power consumption in modes other than active mode | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| Other items | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 1312 | kWh |
| For heat pump combination heater: | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 241 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | COPd | - | - |
| Tj = + 2 °C | COPd | 3.67 | - |
| Tj = + 7 °C | COPd | 5.92 | - |
| Tj = +12 °C | COPd | 7.10 | - |
| Tj = bivalent temperature | COPd | 3.67 | - |
| Tj = operation limit temperature (***) | COPd | 3.67 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| Supplementary heater | | | |
| Rated heat output (*) | Psup | 0.0 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

This information is based on EU regulation No 811/2013 and No 813/2013.

## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---|---|---|
| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
| | Indoor unit: | ERSD-MED |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | no |
| Heat pump combination heater: | | no |
| Parameters for | | medium-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 6.0 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j | | | |
| Tj = - 7 °C | Pdh | 5.3 | kW |
| Degradation co-efficient (**) | Cdh | 1.00 | - |
| Tj = + 2 °C | Pdh | 3.7 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 7 °C | Pdh | 3.1 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = +12 °C | Pdh | 3.9 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = bivalent temperature | Pdh | 5.3 | kW |
| Tj = operation limit temperature (***) | Pdh | 5.8 | kW |
| Bivalent temperature | Tbiv | -7 | °C |
| Reference design conditions for space heating | Tdesignh | -10 | °C |
| Power consumption in modes other than active mode | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| Other items | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 3794 | kWh |
| For heat pump combination heater: | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 128 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | COPd | 1.85 | - |
| Tj = + 2 °C | COPd | 3.13 | - |
| Tj = + 7 °C | COPd | 4.66 | - |
| Tj = +12 °C | COPd | 6.53 | - |
| Tj = bivalent temperature | COPd | 1.85 | - |
| Tj = operation limit temperature (***) | COPd | 1.64 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| Supplementary heater | | | |
| Rated heat output (*) | Psup | 0.2 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

Contact details

MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier:

Tadashi SAITO
Manager, Quality Assuarance Department
THAILAND

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

This information is based on EU regulation No 811/2013 and No 813/2013.

## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
|---|---|---|
| | Indoor unit: | ERSD-MED |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | no |
| Heat pump combination heater: | | no |
| Parameters for | | low-temperature application. |
| Parameters for | | average climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 6.1 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j | | | |
| Tj = - 7 °C | Pdh | 5.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 2 °C | Pdh | 4.1 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = + 7 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = +12 °C | Pdh | 3.7 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = bivalent temperature | Pdh | 6.1 | kW |
| Tj = operation limit temperature (***) | Pdh | 6.1 | kW |
| Bivalent temperature | Tbiv | -10 | °C |
| Reference design conditions for space heating | Tdesignh | -10 | °C |
| Power consumption in modes other than active mode | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| Other items | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 2783 | kWh |
| For heat pump combination heater: | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 178 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | COPd | 2.78 | - |
| Tj = + 2 °C | COPd | 4.43 | - |
| Tj = + 7 °C | COPd | 6.27 | - |
| Tj = +12 °C | COPd | 7.11 | - |
| Tj = bivalent temperature | COPd | 2.26 | - |
| Tj = operation limit temperature (***) | COPd | 2.26 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| Supplementary heater | | | |
| Rated heat output (*) | Psup | 0.0 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

This information is based on EU regulation No 811/2013 and No 813/2013.

## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---|---|---|
| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
| | Indoor unit: | ERSD-MED |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | no |
| Heat pump combination heater: | | no |
| Parameters for | | medium-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 5.5 | kW |
| **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| Tj = - 7 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 2 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 7 °C | Pdh | 3.3 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = +12 °C | Pdh | 3.6 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = bivalent temperature | Pdh | 4.5 | kW |
| Tj = operation limit temperature (***) | Pdh | 4.0 | kW |
| Tj = – 15 °C (if TOL < – 20 °C) | Pdh | 4.5 | kW |
| Bivalent temperature | Tbiv | -15 | °C |
| Reference design conditions for space heating | Tdesignh | -22 | °C |
| **Power consumption in modes other than active mode** | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| **Other items** | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 5231 | kWh |
| **For heat pump combination heater:** | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 101 | % |
| **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj** | | | |
| Tj = - 7 °C | COPd | 2.17 | - |
| Tj = + 2 °C | COPd | 3.31 | - |
| Tj = + 7 °C | COPd | 5.15 | - |
| Tj = +12 °C | COPd | 6.27 | - |
| Tj = bivalent temperature | COPd | 1.15 | - |
| Tj = operation limit temperature (***) | COPd | 1.08 | - |
| Tj = – 15 °C (if TOL < – 20 °C) | COPd | 1.15 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| **Supplementary heater** | | | |
| Rated heat output (*) | Psup | 5.5 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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THAILAND

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(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

This information is based on EU regulation No 811/2013 and No 813/2013.

## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---|---|---|
| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
| | Indoor unit: | ERSD-MED |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | no |
| Heat pump combination heater: | | no |
| Parameters for | | low-temperature application. |
| Parameters for | | colder climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 5.5 | kW |
| **Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j** | | | |
| Tj = - 7 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 2 °C | Pdh | 3.6 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = + 7 °C | Pdh | 3.4 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = +12 °C | Pdh | 3.7 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = bivalent temperature | Pdh | 4.5 | kW |
| Tj = operation limit temperature (***) | Pdh | 5.5 | kW |
| Tj = – 15 °C (if TOL < – 20 °C) | Pdh | 4.5 | kW |
| Bivalent temperature | Tbiv | -15 | °C |
| Reference design conditions for space heating | Tdesignh | -22 | °C |
| **Power consumption in modes other than active mode** | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| **Other items** | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 3583 | kWh |
| **For heat pump combination heater:** | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 148 | % |
| **Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj** | | | |
| Tj = - 7 °C | COPd | 3.31 | - |
| Tj = + 2 °C | COPd | 4.56 | - |
| Tj = + 7 °C | COPd | 6.55 | - |
| Tj = +12 °C | COPd | 7.33 | - |
| Tj = bivalent temperature | COPd | 1.92 | - |
| Tj = operation limit temperature (***) | COPd | 1.71 | - |
| Tj = – 15 °C (if TOL < – 20 °C) | COPd | 1.92 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| **Supplementary heater** | | | |
| Rated heat output (*) | Psup | 0.0 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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THAILAND

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

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This information is based on EU regulation No 811/2013 and No 813/2013.

## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| | | |
|---|---|---|
| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
| | Indoor unit: | ERSD-MED |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | no |
| Heat pump combination heater: | | no |
| Parameters for | | medium-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 6.0 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j | | | |
| Tj = - 7 °C | Pdh | - | kW |
| Degradation co-efficient (**) | Cdh | - | - |
| Tj = + 2 °C | Pdh | 6.0 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 7 °C | Pdh | 3.9 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = +12 °C | Pdh | 3.6 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = bivalent temperature | Pdh | 6.0 | kW |
| Tj = operation limit temperature (***) | Pdh | 6.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C |
| Reference design conditions for space heating | Tdesignh | 2 | °C |
| Power consumption in modes other than active mode | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| Other items | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 1818 | kWh |
| For heat pump combination heater: | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 173 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | COPd | - | - |
| Tj = + 2 °C | COPd | 2.47 | - |
| Tj = + 7 °C | COPd | 3.95 | - |
| Tj = +12 °C | COPd | 5.50 | - |
| Tj = bivalent temperature | COPd | 2.51 | - |
| Tj = operation limit temperature (***) | COPd | 2.51 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| Supplementary heater | | | |
| Rated heat output (*) | Psup | 0.0 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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## PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

| Model(s): | Outdoor unit: | SUZ-SHWM60VAH(-SC) |
|---|---|---|
| | Indoor unit: | ERSD-MED |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | no |
| Heat pump combination heater: | | no |
| Parameters for | | low-temperature application. |
| Parameters for | | warmer climate conditions. |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Rated heat output (*) | Prated | 6.0 | kW |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j | | | |
| Tj = - 7 °C | Pdh | - | kW |
| Degradation co-efficient (**) | Cdh | - | - |
| Tj = + 2 °C | Pdh | 6.0 | kW |
| Degradation co-efficient (**) | Cdh | 0.99 | - |
| Tj = + 7 °C | Pdh | 3.9 | kW |
| Degradation co-efficient (**) | Cdh | 0.98 | - |
| Tj = +12 °C | Pdh | 3.7 | kW |
| Degradation co-efficient (**) | Cdh | 0.97 | - |
| Tj = bivalent temperature | Pdh | 6.0 | kW |
| Tj = operation limit temperature (***) | Pdh | 6.0 | kW |
| Bivalent temperature | Tbiv | 2 | °C |
| Reference design conditions for space heating | Tdesignh | 2 | °C |
| Power consumption in modes other than active mode | | | |
| Off mode | $P_{OFF}$ | 0.015 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.015 | kW |
| Standby mode | $P_{SB}$ | 0.015 | kW |
| Crankcase heater mode | $P_{CK}$ | 0.000 | kW |
| Other items | | | |
| Capacity control | | variable | |
| Sound power level, indoors/outdoors | $L_{WA}$ | 41 / 60 | dBA |
| Annual energy consumption | $Q_{HE}$ | 1312 | kWh |
| For heat pump combination heater: | | | |
| Declared load profile | | - | |
| Daily electricity consumption | Qelec | - | kWh |
| Annual electricity consumption | AEC | - | kWh |

| Item | Symbol | Value | Unit |
|---|---|---|---|
| Seasonal space heating energy efficiency | ηs | 241 | % |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = - 7 °C | COPd | - | - |
| Tj = + 2 °C | COPd | 3.67 | - |
| Tj = + 7 °C | COPd | 5.92 | - |
| Tj = +12 °C | COPd | 7.10 | - |
| Tj = bivalent temperature | COPd | 3.67 | - |
| Tj = operation limit temperature (***) | COPd | 3.67 | - |
| Operation limit temperature | TOL | -25 | °C |
| Heating water operating limit temperature | WTOL | 60 | °C |
| Supplementary heater | | | |
| Rated heat output (*) | Psup | 0.0 | kW |
| Type of energy input | | Electrical | |
| Rated air flow rate, outdoors | - | 2500 | $m^3/h$ |
| Water heating energy efficiency | ηwh | - | % |

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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

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