



# ENERG

енергия · ενεργεια



Indoor unit E\*ST20D-\*\*C2  
Outdoor unit PUHZ-SW50VKA(-BS)



A<sup>+++</sup>

A<sup>++</sup>

A<sup>+</sup>

A

B

C

D

A<sup>++</sup>



A<sup>+</sup>

A

B

C

D

E

F

A<sup>+</sup>



40 dB



63 dB



04 kW

04 kW

04 kW



PRODUCT FICHE

Mitsubishi Electric Erp Directive Related Product Information: [erp.mitsubishielectric.eu/erp](http://erp.mitsubishielectric.eu/erp)  
Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.  
This information is based on EU regulation No 811/2013 and No 813/2013.

| 1.SPACE HEATER    |             | For medium-temperature application |                                                |                                                    |                                                                           |                                                                               |                                          |                                                   |                                                   |                                                                          |                                                                          |                                                                              |                                                                              |                                           | For low-temperature application |                                                |                                                    |                                                                           |                                                                               |                                          |                                                   |                                                   |                                                                          |                                                                          |                                                                              |                                                                              |                                           |
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| 1                 | 2           | 3                                  | 6                                              | 8                                                  | 11                                                                        | 9                                                                             | 13                                       | 15                                                | 16                                                | 21                                                                       | 22                                                                       | 17                                                                           | 18                                                                           | 25                                        | 4                               | 6                                              | 8                                                  | 11                                                                        | 9                                                                             | 13                                       | 15                                                | 16                                                | 21                                                                       | 22                                                                       | 17                                                                           | 18                                                                           | 25                                        |
| Outdoor unit      | Indoor unit | Medium-temperature application     | Seasonal space heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | For space heating, annual energy consumption under average climate conditions | Sound power level L <sub>WA</sub> indoor | Rated heat output under colder climate conditions | Rated heat output under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | Sound power level L <sub>WA</sub> outdoor | Low-temperature application     | Seasonal space heating energy efficiency class | Rated heat output under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | For space heating, annual energy consumption under average climate conditions | Sound power level L <sub>WA</sub> indoor | Rated heat output under colder climate conditions | Rated heat output under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | Sound power level L <sub>WA</sub> outdoor |
|                   |             |                                    |                                                | kW                                                 | %                                                                         | kWh                                                                           | dB                                       | kW                                                | kW                                                | %                                                                        | %                                                                        | kWh                                                                          | kWh                                                                          | dB                                        |                                 |                                                | kW                                                 | %                                                                         | kWh                                                                           | dB                                       | kW                                                | kW                                                | %                                                                        | %                                                                        | kWh                                                                          | kWh                                                                          | dB                                        |
| PUHZ-SW50VKA(-BS) | EHSD-****C  | ✓                                  | A++                                            | 4                                                  | 125                                                                       | 2780                                                                          | 40                                       | 4                                                 | 4                                                 | 101                                                                      | 157                                                                      | 3794                                                                         | 1436                                                                         | 63                                        | ✓                               | A++                                            | 5                                                  | 163                                                                       | 2235                                                                          | 40                                       | 4                                                 | 5                                                 | 141                                                                      | 207                                                                      | 2871                                                                         | 1146                                                                         | 63                                        |
|                   | ERSD-****C  | ✓                                  | A++                                            | 4                                                  | 128                                                                       | 2722                                                                          | 40                                       | 4                                                 | 4                                                 | 103                                                                      | 161                                                                      | 3719                                                                         | 1401                                                                         | 63                                        | ✓                               | A++                                            | 5                                                  | 167                                                                       | 2183                                                                          | 40                                       | 4                                                 | 5                                                 | 145                                                                      | 214                                                                      | 2803                                                                         | 1110                                                                         | 63                                        |
|                   | EHSD-****D  | ✓                                  | A++                                            | 4                                                  | 125                                                                       | 2780                                                                          | 40                                       | 4                                                 | 4                                                 | 101                                                                      | 157                                                                      | 3794                                                                         | 1436                                                                         | 63                                        | ✓                               | A++                                            | 5                                                  | 163                                                                       | 2235                                                                          | 40                                       | 4                                                 | 5                                                 | 141                                                                      | 207                                                                      | 2871                                                                         | 1146                                                                         | 63                                        |
|                   | ERSD-****D  | ✓                                  | A++                                            | 4                                                  | 128                                                                       | 2722                                                                          | 40                                       | 4                                                 | 4                                                 | 103                                                                      | 161                                                                      | 3719                                                                         | 1401                                                                         | 63                                        | ✓                               | A++                                            | 5                                                  | 167                                                                       | 2183                                                                          | 40                                       | 4                                                 | 5                                                 | 145                                                                      | 214                                                                      | 2803                                                                         | 1110                                                                         | 63                                        |

| 2.COMBINATION HEATER |             | For medium-temperature application |                      |                                                |                                       |                                                    |                                                                               |                                                                                    |                                                                           |                                                                  |                                          |                                 |                                                   |                                                   |                                                                              |                                                                              |                                                                              |                                                                              |                                                                          |                                                                          |                                                                 |                                                                 |                                           |                             |                      |                                                | For low-temperature application       |                                                    |                                                                               |                                                                                    |                                                                           |                                                                  |                                          |                                 |                                                   |                                                   |                                                                              |                                                                              |                                                                                    |                                                                          |                                                                          |                                                                 |                                                                 |                                           |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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| 1                    | 2           | 3                                  | 5                    | 6                                              | 7                                     | 8                                                  | 9                                                                             | 10                                                                                 | 11                                                                        | 12                                                               | 13                                       | 14                              | 15                                                | 16                                                | 17                                                                           | 18                                                                           | 19                                                                           | 20                                                                           | 21                                                                       | 22                                                                       | 23                                                              | 24                                                              | 25                                        | 4                           | 5                    | 6                                              | 7                                     | 8                                                  | 9                                                                             | 10                                                                                 | 11                                                                        | 12                                                               | 13                                       | 14                              | 15                                                | 16                                                | 17                                                                           | 18                                                                           | 19                                                                                 | 20                                                                       | 21                                                                       | 22                                                              | 23                                                              | 24                                        | 25 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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| Outdoor unit         | Indoor unit | Medium-temperature application     | Dedared load profile | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | For space heating, annual energy consumption under average climate conditions | For water heating, annual electricity consumption under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level L <sub>wa</sub> indoor | Work only during off-peak hours | Rated heat output under colder climate conditions | Rated heat output under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | For water heating, annual energy consumption under colder climate conditions | For water heating, annual energy consumption under warmer climate conditions | Seasonal space heating energy efficiency under colder climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | Water heating energy efficiency under colder climate conditions | Water heating energy efficiency under warmer climate conditions | Sound power level L <sub>wa</sub> outdoor | Low-temperature application | Dedared load profile | Seasonal space heating energy efficiency class | Water heating energy efficiency class | Rated heat output under average climate conditions | For space heating, annual energy consumption under average climate conditions | For water heating, annual electricity consumption under average climate conditions | Seasonal space heating energy efficiency under average climate conditions | Water heating energy efficiency under average climate conditions | Sound power level L <sub>wa</sub> indoor | Work only during off-peak hours | Rated heat output under colder climate conditions | Rated heat output under warmer climate conditions | For space heating, annual energy consumption under colder climate conditions | For space heating, annual energy consumption under warmer climate conditions | For water heating, annual electricity consumption under average climate conditions | Seasonal space heating energy efficiency under colder climate conditions | Seasonal space heating energy efficiency under warmer climate conditions | Water heating energy efficiency under colder climate conditions | Water heating energy efficiency under warmer climate conditions | Sound power level L <sub>wa</sub> outdoor |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|                      |             |                                    |                      |                                                |                                       | kW                                                 | kWh                                                                           | kWh                                                                                | %                                                                         | %                                                                | dB                                       |                                 | kW                                                | kW                                                | kWh                                                                          | kWh                                                                          | kWh                                                                          | kWh                                                                          | %                                                                        | %                                                                        | %                                                               | %                                                               | dB                                        |                             |                      |                                                |                                       | kW                                                 | kWh                                                                           | kWh                                                                                | %                                                                         | %                                                                | dB                                       |                                 | kW                                                | kW                                                | kWh                                                                          | kWh                                                                          | kWh                                                                                | %                                                                        | %                                                                        | %                                                               | %                                                               | dB                                        |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|                      |             |                                    |                      |                                                |                                       |                                                    |                                                                               |                                                                                    |                                                                           |                                                                  |                                          |                                 |                                                   |                                                   |                                                                              |                                                                              |                                                                              |                                                                              |                                                                          |                                                                          |                                                                 |                                                                 |                                           |                             |                      |                                                |                                       |                                                    |                                                                               |                                                                                    |                                                                           |                                                                  |                                          |                                 |                                                   |                                                   |                                                                              |                                                                              |                                                                                    |                                                                          |                                                                          |                                                                 |                                                                 |                                           |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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|    |                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                    |
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|    | English<br>Nederlands<br>suomi                                                                                                                                                                                                                                                | Deutsch<br>Svenska<br>Čeština                                                                                                                                                                                                                                                       | Français<br>Dansk<br>Български                                                                                                                                                                                                                                                             | Italiano<br>Português<br>Polski                                                                                                                                                                                                                                                                              | Español<br>Ελληνικά<br>-                                                                                                                                                                           |
| 1  | Outdoor unit<br>buitenunit<br>Ulkoyksikkö                                                                                                                                                                                                                                     | Außengerät<br>Utomhusenhet<br>Venkovní jednotka                                                                                                                                                                                                                                     | unité extérieure<br>Udendørs enhed<br>Външно тяло                                                                                                                                                                                                                                          | unità esterna<br>unidade exterior<br>jednostka zewnętrzna                                                                                                                                                                                                                                                    | unidad exterior<br>Εξωτερική μονάδα<br>-                                                                                                                                                           |
|    | Indoor unit<br>binnenunit<br>Sisäyksikkö                                                                                                                                                                                                                                      | Innengerät<br>Inomhusenhet<br>Vnitřní jednotka                                                                                                                                                                                                                                      | unité intérieure<br>Indendørs enhed<br>Вътрешно тяло                                                                                                                                                                                                                                       | unità interna<br>unidade interior<br>jednostka wewnętrzna                                                                                                                                                                                                                                                    | unidad interior<br>Εσωτερική μονάδα<br>-                                                                                                                                                           |
| 3  | Medium-temperature application<br>midentemperatuur-toepassing<br>keskilämpötilan sovellus                                                                                                                                                                                     | Mitteltemperaturanwendung<br>mediumentemperatuurapplikation<br>střednětepelní aplikace                                                                                                                                                                                              | l'application à moyenne température<br>middeltemperatuurvanvendsen<br>среднотемпературното приложение                                                                                                                                                                                      | le applicazioni a media temperatura<br>a aplicação a média temperatura<br>zastosowania w średnich temperaturach                                                                                                                                                                                              | la aplicación de media temperatura<br>η εφαρμογή σε μέση θερμοκρασία<br>-                                                                                                                          |
|    | Low-temperature application<br>lagetemperatuur-toepassing<br>matalanlämpötilan sovellus                                                                                                                                                                                       | Niedertemperaturanwendung<br>lågtemperatuurapplikation<br>nízkoteplotní aplikace                                                                                                                                                                                                    | l'application à basse température<br>lavtemperatuurvanvendsen<br>нискотемпературни приложения                                                                                                                                                                                              | le applicazioni a bassa temperatura<br>a aplicação a baixa temperatura<br>zastosowania w niskich temperaturach                                                                                                                                                                                               | la aplicación de baja temperatura<br>η εφαρμογή σε χαμηλή θερμοκρασία<br>-                                                                                                                         |
| 5  | Declared load profile<br>Opgegeven capaciteitsprofiel<br>Ilmoitettu kuormitusprofiili                                                                                                                                                                                         | Angegebenes Lastprofil<br>Deklarerad belastningsprofil<br>Deklarovaný zátěžový profil                                                                                                                                                                                               | Profil de soutirage déclaré<br>Angivet forbrugsprofil<br>Объём товаров профил                                                                                                                                                                                                              | Profilo di carico dichiarato<br>Perfil de carga declarado<br>Deklarowany profil obciążeń                                                                                                                                                                                                                     | Perfil de carga declarado<br>Δηλωμένο προφίλ φορτίου<br>-                                                                                                                                          |
| 6  | Seasonal space heating energy efficiency class<br>de seizoensgebonden energie-efficiëntieklasse voor ruimteverwarming<br>tilalämmityksen kausittainen energiatehokkuusluokka                                                                                                  | die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz<br>säsongrelaterade energieeffektivitetsklass vid rumsuppvärmning<br>třída sezonní energetické účinnosti vytápění                                                                                               | la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux<br>klassen for årsvirkningsgrad ved rumopvarmning<br>классът на сезонната отоплителна енергийна ефективност                                                                                                   | la classe di efficienza energetica stagionale del riscaldamento d'ambiente<br>A classe de eficiência energética do aquecimento ambiente sazonal<br>klasa sezonowej efektywności energetycznej ogrzewania pomieszczeń                                                                                         | la clase de eficiencia energética estacional de calefacción<br>η τάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου<br>-                                                                      |
|    | Water heating energy efficiency class<br>de energie-efficiëntieklasse voor waterverwarming<br>vedenlämmityksen energiatehokkuusluokka                                                                                                                                         | die Klasse für die Warmwasserbereitungs-Energieeffizienz<br>energieeffektivitetsklass vid vattenuppvärmning<br>třída energetické účinnosti ohřevu vody                                                                                                                              | la classe d'efficacité énergétique, pour le chauffage de l'eau<br>klassen for årsvirkningsgrad ved vandopvarmning<br>классът на енергийната ефективност при подгряване на вода                                                                                                             | la classe di efficienza energetica del riscaldamento dell'acqua<br>A classe de eficiência energética do aquecimento de água<br>klasa efektywności energetycznej podgrzewania wody                                                                                                                            | la clase de eficiencia energética del caldeo de agua<br>η τάξη ενεργειακής απόδοσης θέρμανσης νερού<br>-                                                                                           |
| 8  | Rated heat output under average climate conditions<br>de nominale warmteafgifte(onder gemiddelde klimaatomstandigheden)<br>nimellislämpöteho(keskimääräisissä ilmastoloosuhteissa)                                                                                            | die Wärmenennleistung bei durchschnittlichen Klimaverhältnissen<br>Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden)<br>jmenovitý tepelný výkon(za průměrných klimatických podmínek)                                                                     | la puissance thermique nominale dans les conditions climatiques moyennes<br>den nominelle nytteeffekt(under gennemsnitlige klimaforhold)<br>номиналната топлинна мощност(при средни климатични условия)                                                                                    | la potenza termica nominale(in condizioni climatiche medie)<br>A potência calorífica nominal(em condições climáticas médias)<br>znamionowa moc cieplna(w warunkach klimatu umiarkowanego)                                                                                                                    | la potencia calorífica nominal(en condiciones climáticas medias)<br>η ονομαστική θερμική ισχύς(υπό μέσες κλιματικές συνθήκες)<br>-                                                                 |
|    | For space heating, annual energy consumption under average climate conditions<br>voor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden)<br>tilalämmityksestä vuotuinen energiankulutus(keskimääräisissä ilmastoloosuhteissa)           | für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen<br>För rumsuppvärmning, årlig energiförbrukning(vid genomsnittliga klimatförhållanden)<br>pro vytápění – roční spotřeba energie za průměrných klimatických podmínek                  | pour le chauffage des locaux, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)<br>for rumopvarmning det årlige energiforbrug(under gennemsnitlige klimaforhold)<br>за отопление, годишното потребление на енергия(при средни климатични условия)               | per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche medie)<br>Para o aquecimento ambiente, o consumo anual de energia(em condições climáticas médias)<br>w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii(w warunkach klimatu umiarkowanego)                | para calentar espacios, el consumo anual de energía(en condiciones climáticas medias)<br>για τη θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας(υπό μέσες κλιματικές συνθήκες)<br>-                  |
| 10 | For water heating, annual electricity consumption under average climate conditions<br>voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandigheden)<br>vedenlämmityksestä vuotuinen sähkönkulutus(keskimääräisissä ilmastoloosuhteissa) | für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen<br>För vattenuppvärmning, årlig elförbrukning(vid genomsnittliga klimatförhållanden)<br>pro ohřev vody – roční spotřeba elektrické energie za průměrných klimatických podmínek | pour le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions climatiques moyennes)<br>for vandopvarmning det årlige elforbrug(under gennemsnitlige klimaforhold)<br>за подгряване на вода, годишното потребление(при средни климатични условия)                  | per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)<br>para o aquecimento de água, o consumo anual de eletricidade(em condições climáticas médias)<br>w odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej(w warunkach klimatu umiarkowanego)    | para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias)<br>για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(υπό μέσες κλιματικές συνθήκες)<br>-     |
| 11 | Seasonal space heating energy efficiency under average climate conditions<br>de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)<br>tilalämmityksen kausittainen energiatehokkuus(keskimääräisissä ilmastoloosuhteissa)     | die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen<br>Säsongmedelverkningsgrad för rumsuppvärmning(vid genomsnittliga klimatförhållanden)<br>sezonní energetická účinnost vytápění za průměrných klimatických podmínek                  | l'efficacité énergétique saisonnière pour le chauffage des locaux(dans les conditions climatiques moyennes)<br>årsvirkningsgraden ved rumopvarmning(under gennemsnitlige klimaforhold)<br>сезонната енергийна ефективност при отопление(при средни климатични условия)                     | l'efficienza energetica stagionale di riscaldamento d'ambiente(in condizioni climatiche medie)<br>A eficiência energética do aquecimento ambiente sazonal(em condições climáticas médias)<br>sezonowa efektywność energetyczna ogrzewania pomieszczeń(w warunkach klimatu umiarkowanego)                     | la eficiencia energética estacional de calefacción(en condiciones climáticas medias)<br>η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου(υπό μέσες κλιματικές συνθήκες)<br>-                     |
| 12 | Water heating energy efficiency under average climate conditions<br>de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden)<br>vedenlämmityksen energiatehokkuus(keskimääräisissä ilmastoloosuhteissa)                                            | die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen<br>Energieeffektivität vid vattenuppvärmning(vid genomsnittliga klimatförhållanden)<br>energetická účinnost ohřevu vody za průměrných klimatických podmínek                                     | l'efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques moyennes)<br>energieeffektiviteten ved vandopvarmning(under gennemsnitlige klimaforhold)<br>енергийната ефективност при подгряване на вода(при средни климатични условия)                              | l'efficienza energetica di riscaldamento dell'acqua(in condizioni climatiche medie)<br>a eficiência energética do aquecimento de água(em condições climáticas médias)<br>efektywność energetyczna podgrzewania wody(w warunkach klimatu umiarkowanego)                                                       | la eficiencia energética del caldeo de agua(en condiciones climáticas medias)<br>η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες)<br>-                                          |
| 13 | Sound power level L <sub>WA</sub> indoor<br>het geluidsvermogensniveau L <sub>WA</sub> binnen<br>äänitehotaso L <sub>WA</sub> sisällä                                                                                                                                         | der Schalleistungspegel L <sub>WA</sub> in Gebäuden<br>Ljudeffektivitv L <sub>WA</sub> i inomhus<br>hladina akustického výkonu L <sub>WA</sub> ve vnitřním prostoru                                                                                                                 | le niveau de puissance acoustique L <sub>WA</sub> , à l'intérieur<br>lydeeffektiveaut L <sub>WA</sub> i inde<br>нивото на звуковата мощност L <sub>WA</sub> на закрито                                                                                                                     | il livello di potenza sonora L <sub>WA</sub> all'interno<br>O nível de potência sonora L <sub>WA</sub> no interior<br>poziom mocy akustycznej L <sub>WA</sub> w pomieszczeniu                                                                                                                                | el nivel de potencia acústica L <sub>WA</sub> en interiores<br>η στάθμη ηχητικής ισχύος L <sub>WA</sub> εσωτερικού χώρου<br>-                                                                      |
| 14 | Work only during off-peak hours<br>werken uitsluitend in de daluren<br>toimimaan ainoastaan kulutushuipujen ulkopuolella                                                                                                                                                      | dass ein ausschließlicher Betrieb des Kombiheizgerätes zu Schwachlastzeiten<br>drivas uteslutande under perioder med låg belastning<br>provazu pouze mimo špičku                                                                                                                    | fonctionner qu'en heures creuses<br>fungere uden for spidsbelastningsperioder<br>работи само в часовете извън върховото натоварване                                                                                                                                                        | funzione soltanto durante le ore morte<br>de funcionar unicamente fora das horas de pico<br>pracować jedynie w godzinach poza szczytowym obciążeniem                                                                                                                                                         | funcionar solamente durante las horas de baja demanda<br>λειτουργία μόνο εκτός των ωρών αιχμής<br>-                                                                                                |
| 15 | Rated heat output under colder climate conditions<br>de nominale warmteafgifte, onder koudere klimaatomstandigheden<br>nimellislämpöteho, kylmissä ilmastoloosuhteissa                                                                                                        | die Wärmenennleistung bei kälteren Klimaverhältnissen<br>Nominell avgiven värmeeffekt vid kallare klimatförhållanden<br>jmenovitý tepelný výkon za chladnějších klimatických podmínek                                                                                               | la puissance thermique nominale, dans les conditions climatiques plus froides<br>den nominelle nytteeffekt under koldere klimaforhold<br>номиналната топлинна мощност при по-студени климатични условия                                                                                    | la potenza termica nominale, in condizioni climatiche più fredde<br>A potência calorífica nominal em condições climáticas mais frias<br>Znamionowa moc cieplna w warunkach klimatu chłodnego                                                                                                                 | la potencia calorífica nominal en condiciones climáticas más frías<br>η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες<br>-                                                           |
| 16 | Rated heat output under warmer climate conditions<br>de nominale warmteafgifte, onder warmere klimaatomstandigheden<br>nimellislämpöteho, lämpimissä ilmastoloosuhteissa                                                                                                      | die Wärmenennleistung bei wärmeren Klimaverhältnissen<br>Nominell avgiven värmeeffekt vid varmare klimatförhållanden<br>jmenovitý tepelný výkon za teplejších klimatických podmínek                                                                                                 | la puissance thermique nominale, dans les conditions climatiques plus chaudes<br>den nominelle nytteeffekt under varmere klimaforhold<br>номиналната топлинна мощност при по-топли климатични условия                                                                                      | la potenza termica nominale, in condizioni climatiche più calde<br>A potência calorífica nominal em condições climáticas mais quentes<br>Znamionowa moc cieplna w warunkach klimatu ciepłego                                                                                                                 | la potencia calorífica nominal en condiciones climáticas más cálidas<br>η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες<br>-                                                         |
| 17 | For space heating, annual energy consumption under colder climate conditions<br>voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere klimaatomstandigheden<br>tilalämmityksestä vuotuinen energiankulutus kylmissä ilmastoloosuhteissa                         | für die Raumheizung, der jährliche Energieverbrauch bei kälteren Klimaverhältnissen<br>För rumsuppvärmning, årlig energiförbrukning under kallare klimatförhållanden<br>pro vytápění – roční spotřeba energie za chladnější klimatických podmínek                                   | pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froides<br>for rumopvarmning det årlige energiforbrug under koldere klimaforhold<br>за отопление, годишното потребление на енергия при по-студени климатични условия                | per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più fredde<br>Para o aquecimento ambiente, o consumo anual de energia em condições climáticas mais frias<br>w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii w warunkach klimatu chłodnego             | para calentar espacios, el consumo anual de energía en condiciones climáticas más frías<br>για θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες<br>-               |
| 18 | For space heating, annual energy consumption under warmer climate conditions<br>voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden<br>tilalämmityksestä vuotuinen energiankulutus lämpimissä ilmastoloosuhteissa                       | für die Raumheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen<br>För rumsuppvärmning, årlig energiförbrukning under varmare klimatförhållanden<br>pro vytápění – roční spotřeba energie za teplejších klimatických podmínek                                   | pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes<br>for rumopvarmning det årlige energiforbrug under varmere klimaforhold<br>за отопление, годишното потребление на енергия при по-топли климатични условия                  | per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più calde<br>Para o aquecimento ambiente, o consumo anual de energia em condições climáticas mais quentes<br>w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii w warunkach klimatu ciepłego             | para calentar espacios, el consumo anual de energía en condiciones climáticas más cálidas<br>για θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας υπό θερμότερες κλιματικές συνθήκες<br>-             |
| 19 | For water heating, annual energy consumption under colder climate conditions<br>voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden<br>vedenlämmityksestä vuotuinen sähkönkulutus kylmissä ilmastoloosuhteissa                    | für die Warmwasserbereitung, der jährliche Stromverbrauch bei kälteren Klimaverhältnissen<br>För vattenuppvärmning, årlig elförbrukning under kallare klimatförhållanden<br>pro ohřev vody – roční spotřeba elektrické energie za chladnějších klimatických podmínek                | pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus froides<br>for vandopvarmning det årlige elforbrug under koldere klimaforhold<br>за подгряване на вода, годишното потребление на електроенергия при по-студени климатични условия | per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde<br>para o aquecimento de água, o consumo anual de eletricidade em condições climáticas mais frias<br>w odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej w warunkach klimatu chłodnego | para calentar agua, el consumo anual de electricidad en condiciones climáticas más frías<br>για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες<br>-   |
| 20 | For water heating, annual energy consumption under warmer climate conditions<br>voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden<br>vedenlämmityksestä vuotuinen sähkönkulutus lämpimissä ilmastoloosuhteissa                  | für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen<br>För vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden<br>pro ohřev vody – roční spotřeba elektrické energie za teplejších klimatických podmínek                  | pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus chaudes<br>for vandopvarmning det årlige elforbrug under varmere klimaforhold<br>за подгряване на вода, годишното потребление на електроенергия при по-топли климатични условия   | per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più calde<br>para o aquecimento de água, o consumo anual de eletricidade em condições climáticas mais quentes<br>w odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej w warunkach klimatu ciepłego | para calentar agua, el consumo anual de electricidad en condiciones climáticas más cálidas<br>για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές συνθήκες<br>- |
| 21 | Seasonal space heating energy efficiency under colder climate conditions<br>de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden<br>tilalämmityksen kausittainen energiatehokkuus kylmissä ilmastoloosuhteissa                   | die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen<br>Säsongmedelverkningsgrad för rumsuppvärmning under kallare klimatförhållanden<br>sezonní energetická účinnost vytápění za chladnějších klimatických podmínek                                | l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus froides<br>årsvirkningsgraden ved rumopvarmning under koldere klimaforhold<br>сезонната енергийна ефективност при отопление при по-студени климатични условия                      | l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più fredde<br>A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais frias<br>sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu chłodnego                   | la eficiencia energética estacional de calefacción en condiciones climáticas más frías<br>η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό ψυχρότερες κλιματικές συνθήκες<br>-               |
| 22 | Seasonal space heating energy efficiency under warmer climate conditions<br>de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden<br>tilalämmityksen kausittainen energiatehokkuus lämpimissä ilmastoloosuhteissa                 | die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen<br>Säsongmedelverkningsgrad för rumsuppvärmning under varmare klimatförhållanden<br>sezonní energetická účinnost vytápění za teplejších klimatických podmínek                                  | l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus chaudes<br>årsvirkningsgraden ved rumopvarmning under varmere klimaforhold<br>сезонната енергийна ефективност при отопление при по-топли климатични условия                        | l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più calde<br>A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais quentes<br>sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu ciepłego                   | la eficiencia energética estacional de calefacción en condiciones climáticas más cálidas<br>η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό θερμότερες κλιματικές συνθήκες<br>-             |
| 23 | Water heating energy efficiency under colder climate conditions<br>de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden<br>vedenlämmityksen energiatehokkuus kylmissä ilmastoloosuhteissa                                                          | die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen<br>Energieeffektivität vid vattenuppvärmning under kallare klimatförhållanden<br>energetická účinnost ohřevu vody za chladnějších klimatických podmínek                                                   | l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides<br>energieeffektiviteten ved vandopvarmning under koldere klimaforhold<br>енергийната ефективност при подгряване на вода при по-студени климатични условия                               | l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde<br>a eficiência energética do aquecimento de água em condições climáticas mais frias<br>efektywność energetyczna podgrzewania wody w warunkach klimatu chłodnego                                                     | la eficiencia energética de caldeo de agua en condiciones climáticas más frías<br>η ενεργειακή απόδοση της θέρμανσης νερού υπό ψυχρότερες κλιματικές συνθήκες<br>-                                 |
| 24 | Water heating energy efficiency under warmer climate conditions<br>de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden<br>vedenlämmityksen energiatehokkuus lämpimissä ilmastoloosuhteissa                                                        | die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen<br>Energieeffektivität vid vattenuppvärmning under varmare klimatförhållanden<br>energetická účinnost ohřevu vody za teplejších klimatických podmínek                                                     | l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes<br>energieeffektiviteten ved vandopvarmning under varmere klimaforhold<br>енергийната ефективност при подгряване на вода при по-топли климатични условия                                 | l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più calde<br>a eficiência energética do aquecimento de água em condições climáticas mais quentes<br>efektywność energetyczna podgrzewania wody w warunkach klimatu ciepłego                                                     | la eficiencia energética de caldeo de agua en condiciones climáticas más cálidas<br>η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες<br>-                               |
| 25 | Sound power level L <sub>WA</sub> outdoor<br>het geluidsvermogensniveau L <sub>WA</sub> buiten<br>äänitehotaso L <sub>WA</sub> ulkona                                                                                                                                         | der Schalleistungspegel L <sub>WA</sub> im Freien<br>Ljudeffektivitv L <sub>WA</sub> i utomhus<br>hladina akustického výkonu L <sub>WA</sub> ve venkovním prostoru                                                                                                                  | le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur<br>lydeeffektiveaut L <sub>WA</sub> i ude<br>нивото на звуковата мощност L <sub>WA</sub> на открито                                                                                                                        | il livello di potenza sonora L <sub>WA</sub> all'esterno<br>O nível de potência sonora L <sub>WA</sub> no exterior<br>poziom mocy akustycznej L <sub>WA</sub> na zewnątrz                                                                                                                                    | el nivel de potencia acústica L <sub>WA</sub> en exteriores<br>η στάθμη ηχητικής ισχύος L <sub>WA</sub> εξωτερικού χώρου<br>-                                                                      |

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

|                                       |                                 |                   |
|---------------------------------------|---------------------------------|-------------------|
| Model(s):                             | Outdoor unit:                   | PUHZ-SW50VKA(-BS) |
|                                       | Indoor unit:                    | EHST20D-****C2    |
| 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:         | yes                             |                   |
| Parameters for                        | medium-temperature application. |                   |
| Parameters for                        | average climate conditions.     |                   |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol | Value | Unit |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|--------|-------|------|
| Rated heat output (*)                                                                              | Prated           | 4.3     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs     | 125   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      |
| Tj = - 7 °C                                                                                        | Pdh              | 3.8     | kW   | Tj = - 7 °C                                                                                                                      | COPd   | 2.14  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |        |       |      |
| Tj = + 2 °C                                                                                        | Pdh              | 2.3     | kW   | Tj = + 2 °C                                                                                                                      | COPd   | 3.05  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.98    | -    |                                                                                                                                  |        |       |      |
| Tj = + 7 °C                                                                                        | Pdh              | 2.2     | kW   | Tj = + 7 °C                                                                                                                      | COPd   | 4.42  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |        |       |      |
| Tj = +12 °C                                                                                        | Pdh              | 2.7     | kW   | Tj = +12 °C                                                                                                                      | COPd   | 6.37  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |        |       |      |
| Tj = bivalent temperature                                                                          | Pdh              | 3.8     | kW   | Tj = bivalent temperature                                                                                                        | COPd   | 2.14  | -    |
| Tj = operation limit temperature (***)                                                             | Pdh              | 3.6     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd   | 1.84  | -    |
|                                                                                                    |                  |         |      |                                                                                                                                  |        |       |      |
| Bivalent temperature                                                                               | Tbiv             | -7      | °C   | Operation limit temperature                                                                                                      | TOL    | -15   | °C   |
| Reference design conditions for space heating                                                      | Tdesignh         | -10     | °C   | Heating water operating limit temperature                                                                                        | WTOL   | 60    | °C   |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |        |       |      |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup   | 0.7   | kW   |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   |                                                                                                                                  |        |       |      |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   |                                                                                                                                  |        |       |      |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |        |       |      |
| Other items                                                                                        |                  |         |      |                                                                                                                                  |        |       |      |
| Capacity control                                                                                   | variable         |         |      | Rated air flow rate, outdoors                                                                                                    | -      | 2100  | m³/h |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |        |       |      |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 2780    | kWh  |                                                                                                                                  |        |       |      |

For heat pump combination heater:

|                                |       |       |     |                                 |             |     |   |
|--------------------------------|-------|-------|-----|---------------------------------|-------------|-----|---|
| Declared load profile          | L     |       |     | Water heating energy efficiency | $\eta_{wh}$ | 146 | % |
| Daily electricity consumption  | Qelec | 3.360 | kWh |                                 |             |     |   |
| Annual electricity consumption | AEC   | 740   | kWh |                                 |             |     |   |

Contact details

MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS

3-18-1, Oshika, Suruga-ku, Shizuoka 422-8528, Japan

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



 Tomoyuki MIWA  
 General Manager, Quality Assurance Department  
 Shizuoka JAPAN

\* 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.

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) 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:                | PUHZ-SW50VKA(-BS) |
|                                       | Indoor unit:                 | EHST20D-****C2    |
| 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:         | yes                          |                   |
| Parameters for                        | low-temperature application. |                   |
| Parameters for                        | average climate conditions.  |                   |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol     | Value | Unit |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|
| Rated heat output (*)                                                                              | Prated           | 4.5     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 163   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |      |
| Tj = - 7 °C                                                                                        | Pdh              | 4.0     | kW   | Tj = - 7 °C                                                                                                                      | COPd       | 2.87  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |            |       |      |
| Tj = + 2 °C                                                                                        | Pdh              | 2.4     | kW   | Tj = + 2 °C                                                                                                                      | COPd       | 4.04  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.98    | -    |                                                                                                                                  |            |       |      |
| Tj = + 7 °C                                                                                        | Pdh              | 2.3     | kW   | Tj = + 7 °C                                                                                                                      | COPd       | 5.79  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |       |      |
| Tj = +12 °C                                                                                        | Pdh              | 2.7     | kW   | Tj = +12 °C                                                                                                                      | COPd       | 7.59  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |       |      |
| Tj = bivalent temperature                                                                          | Pdh              | 4.0     | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 2.87  | -    |
| Tj = operation limit temperature (***)                                                             | Pdh              | 3.7     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd       | 2.29  | -    |
|                                                                                                    |                  |         |      |                                                                                                                                  |            |       |      |
| Bivalent temperature                                                                               | Tbiv             | -7      | °C   | Operation limit temperature                                                                                                      | TOL        | -15   | °C   |
| Reference design conditions for space heating                                                      | Tdesignh         | -10     | °C   | Heating water operating limit temperature                                                                                        | WTOL       | 60    | °C   |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |            |       |      |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup       | 0.8   | kW   |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   |                                                                                                                                  |            |       |      |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   | Type of energy input                                                                                                             | Electrical |       |      |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |            |       |      |
| Other items                                                                                        |                  |         |      |                                                                                                                                  |            |       |      |
| Capacity control                                                                                   | variable         |         |      | Rated air flow rate, outdoors                                                                                                    | -          | 2100  | m³/h |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |            |       |      |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 2235    | kWh  |                                                                                                                                  |            |       |      |

For heat pump combination heater:

|                                |                   |       |     |                                 |             |     |   |
|--------------------------------|-------------------|-------|-----|---------------------------------|-------------|-----|---|
| Declared load profile          | L                 |       |     | Water heating energy efficiency | $\eta_{wh}$ | 146 | % |
| Daily electricity consumption  | Q <sub>elec</sub> | 3.360 | kWh |                                 |             |     |   |
| Annual electricity consumption | AEC               | 740   | kWh |                                 |             |     |   |

Contact details

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Tomoyuki MIWA

The signature is signed in the average climate / medium-temperature section.

General Manager, Quality Assurance Department

Shizuoka JAPAN

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) 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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

|                                       |                                 |                   |
|---------------------------------------|---------------------------------|-------------------|
| Model(s):                             | Outdoor unit:                   | PUHZ-SW50VKA(-BS) |
|                                       | Indoor unit:                    | EHST20D-****C2    |
| 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:         | yes                             |                   |
| Parameters for                        | medium-temperature application. |                   |
| Parameters for                        | colder climate conditions.      |                   |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol     | Value | Unit              |  |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------------------|--|
| Rated heat output (*)                                                                              | Prated           | 4.0     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 101   | %                 |  |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |                   |  |
| Tj = - 7 °C                                                                                        | Pdh              | 2.4     | kW   | Tj = - 7 °C                                                                                                                      | COPd       | 2.40  | -                 |  |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |            |       |                   |  |
| Tj = + 2 °C                                                                                        | Pdh              | 1.5     | kW   | Tj = + 2 °C                                                                                                                      | COPd       | 3.10  | -                 |  |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |            |       |                   |  |
| Tj = + 7 °C                                                                                        | Pdh              | 2.2     | kW   | Tj = + 7 °C                                                                                                                      | COPd       | 4.90  | -                 |  |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |            |       |                   |  |
| Tj = +12 °C                                                                                        | Pdh              | 2.6     | kW   | Tj = +12 °C                                                                                                                      | COPd       | 6.64  | -                 |  |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |       |                   |  |
| Tj = bivalent temperature                                                                          | Pdh              | 3.3     | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 1.33  | -                 |  |
| Tj = operation limit temperature (***)                                                             | Pdh              | 3.3     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd       | 1.33  | -                 |  |
| Tj = – 15 °C (if TOL < – 20 °C)                                                                    | Pdh              | -       | kW   | Tj = – 15 °C (if TOL < – 20 °C)                                                                                                  | COPd       | -     | -                 |  |
| Bivalent temperature                                                                               | Tbiv             | -15     | °C   | Operation limit temperature                                                                                                      | TOL        | -15   | °C                |  |
| Reference design conditions for space heating                                                      | Tdesignh         | -22     | °C   | Heating water operating limit temperature                                                                                        | WTOL       | 60    | °C                |  |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |            |       |                   |  |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup       | 4.0   | kW                |  |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   |                                                                                                                                  |            |       |                   |  |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   | Type of energy input                                                                                                             | Electrical |       |                   |  |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |            |       |                   |  |
| Other items                                                                                        |                  |         |      |                                                                                                                                  |            |       |                   |  |
| Capacity control                                                                                   | variable         |         |      | Rated air flow rate, outdoors                                                                                                    | -          | 2100  | m <sup>3</sup> /h |  |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |            |       |                   |  |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 3794    | kWh  |                                                                                                                                  |            |       |                   |  |
| For heat pump combination heater:                                                                  |                  |         |      |                                                                                                                                  |            |       |                   |  |
| Declared load profile                                                                              | L                |         |      | Water heating energy efficiency                                                                                                  | ηwh        | 122   | %                 |  |
| Daily electricity consumption                                                                      | Qelec            | 3.990   | kWh  |                                                                                                                                  |            |       |                   |  |
| Annual electricity consumption                                                                     | AEC              | 878     | kWh  |                                                                                                                                  |            |       |                   |  |

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(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*) 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:                | PUHZ-SW50VKA(-BS) |
|                                       | Indoor unit:                 | EHST20D-****C2    |
| 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:         | yes                          |                   |
| Parameters for                        | low-temperature application. |                   |
| Parameters for                        | colder climate conditions.   |                   |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol     | Value | Unit              |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------------------|
| Rated heat output (*)                                                                              | Prated           | 4.2     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 141   | %                 |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |                   |
| Tj = - 7 °C                                                                                        | Pdh              | 2.5     | kW   | Tj = - 7 °C                                                                                                                      | COPd       | 3.50  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.98    | -    |                                                                                                                                  |            |       |                   |
| Tj = + 2 °C                                                                                        | Pdh              | 1.5     | kW   | Tj = + 2 °C                                                                                                                      | COPd       | 4.50  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |       |                   |
| Tj = + 7 °C                                                                                        | Pdh              | 2.3     | kW   | Tj = + 7 °C                                                                                                                      | COPd       | 6.50  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |       |                   |
| Tj = +12 °C                                                                                        | Pdh              | 2.7     | kW   | Tj = +12 °C                                                                                                                      | COPd       | 6.40  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |       |                   |
| Tj = bivalent temperature                                                                          | Pdh              | 3.4     | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 2.70  | -                 |
| Tj = operation limit temperature (***)                                                             | Pdh              | 3.4     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd       | 2.70  | -                 |
| Tj = – 15 °C (if TOL < – 20 °C)                                                                    | Pdh              | -       | kW   | Tj = – 15 °C (if TOL < – 20 °C)                                                                                                  | COPd       | -     | -                 |
| Bivalent temperature                                                                               | Tbiv             | -15     | °C   | Operation limit temperature                                                                                                      | TOL        | -15   | °C                |
| Reference design conditions for space heating                                                      | Tdesignh         | -22     | °C   | Heating water operating limit temperature                                                                                        | WTOL       | 60    | °C                |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |            |       |                   |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup       | 4.2   | kW                |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   | Type of energy input                                                                                                             | Electrical |       |                   |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   |                                                                                                                                  |            |       |                   |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |            |       |                   |
| Other items                                                                                        |                  |         |      |                                                                                                                                  |            |       |                   |
| Capacity control                                                                                   | variable         |         |      | Rated air flow rate, outdoors                                                                                                    | -          | 2100  | m <sup>3</sup> /h |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |            |       |                   |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 2871    | kWh  |                                                                                                                                  |            |       |                   |
| For heat pump combination heater:                                                                  |                  |         |      |                                                                                                                                  |            |       |                   |
| Declared load profile                                                                              | L                |         |      | Water heating energy efficiency                                                                                                  | ηwh        | 122   | %                 |
| Daily electricity consumption                                                                      | Qelec            | 3.990   | kWh  |                                                                                                                                  |            |       |                   |
| Annual electricity consumption                                                                     | AEC              | 878     | kWh  |                                                                                                                                  |            |       |                   |

**Contact details**

MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS

3-18-1, Oshika, Suruga-ku, Shizuoka 422-8528, Japan

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

Tomoyuki MIWA

The signature is signed in the average climate / medium-temperature section.

General Manager, Quality Assurance Department

Shizuoka JAPAN

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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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

|                                       |               |                                 |
|---------------------------------------|---------------|---------------------------------|
| Model(s):                             | Outdoor unit: | PUHZ-SW50VKA(-BS)               |
|                                       | Indoor unit:  | EHST20D-****C2                  |
| 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:         |               | yes                             |
| Parameters for                        |               | medium-temperature application. |
| Parameters for                        |               | warmer climate conditions.      |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol     | Value             | Unit |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|------|
| Rated heat output (*)                                                                              | Prated           | 4.3     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 157               | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |                   |      |
| Tj = - 7 °C                                                                                        | Pdh              | -       | kW   | Tj = - 7 °C                                                                                                                      | COPd       | -                 | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | -       | -    |                                                                                                                                  |            |                   |      |
| Tj = + 2 °C                                                                                        | Pdh              | 4.3     | kW   | Tj = + 2 °C                                                                                                                      | COPd       | 1.80              | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |            |                   |      |
| Tj = + 7 °C                                                                                        | Pdh              | 2.8     | kW   | Tj = + 7 °C                                                                                                                      | COPd       | 3.75              | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.98    | -    |                                                                                                                                  |            |                   |      |
| Tj = +12 °C                                                                                        | Pdh              | 2.5     | kW   | Tj = +12 °C                                                                                                                      | COPd       | 5.56              | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |            |                   |      |
| Tj = bivalent temperature                                                                          | Pdh              | 4.3     | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 1.80              | -    |
| Tj = operation limit temperature (***)                                                             | Pdh              | 4.3     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd       | 1.80              | -    |
|                                                                                                    |                  |         |      |                                                                                                                                  |            |                   |      |
| Bivalent temperature                                                                               | Tbiv             | 2       | °C   | Operation limit temperature                                                                                                      | TOL        | -15               | °C   |
| Reference design conditions for space heating                                                      | Tdesignh         | 2       | °C   | Heating water operating limit temperature                                                                                        | WTOL       | 60                | °C   |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |            |                   |      |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup       | 0.0               | kW   |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   | Type of energy input                                                                                                             | Electrical |                   |      |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   |                                                                                                                                  |            |                   |      |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |            |                   |      |
| Other items                                                                                        |                  |         |      | Rated air flow rate, outdoors                                                                                                    |            |                   |      |
| Capacity control                                                                                   | variable         |         |      | -                                                                                                                                | 2100       | m <sup>3</sup> /h |      |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |            |                   |      |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 1436    | kWh  |                                                                                                                                  |            |                   |      |
| For heat pump combination heater:                                                                  |                  |         |      | Water heating energy efficiency                                                                                                  |            |                   |      |
| Declared load profile                                                                              | L                |         |      | ηwh                                                                                                                              | 168        | %                 |      |
| Daily electricity consumption                                                                      | Qelec            | 2.920   | kWh  |                                                                                                                                  |            |                   |      |
| Annual electricity consumption                                                                     | AEC              | 643     | kWh  |                                                                                                                                  |            |                   |      |

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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.



**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

|                                       |                              |                   |
|---------------------------------------|------------------------------|-------------------|
| Model(s):                             | Outdoor unit:                | PUHZ-SW50VKA(-BS) |
|                                       | Indoor unit:                 | EHST20D-****C2    |
| 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:         | yes                          |                   |
| Parameters for                        | low-temperature application. |                   |
| Parameters for                        | warmer climate conditions.   |                   |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol     | Value             | Unit |  |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|------|--|
| Rated heat output (*)                                                                              | Prated           | 4.5     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 207               | %    |  |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |                   |      |  |
| Tj = - 7 °C                                                                                        | Pdh              | -       | kW   | Tj = - 7 °C                                                                                                                      | COPd       | -                 | -    |  |
| Degradation co-efficient (**)                                                                      | Cdh              | -       | -    |                                                                                                                                  |            |                   |      |  |
| Tj = + 2 °C                                                                                        | Pdh              | 4.5     | kW   | Tj = + 2 °C                                                                                                                      | COPd       | 2.71              | -    |  |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |            |                   |      |  |
| Tj = + 7 °C                                                                                        | Pdh              | 2.9     | kW   | Tj = + 7 °C                                                                                                                      | COPd       | 5.60              | -    |  |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |            |                   |      |  |
| Tj = +12 °C                                                                                        | Pdh              | 2.6     | kW   | Tj = +12 °C                                                                                                                      | COPd       | 6.50              | -    |  |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |                   |      |  |
| Tj = bivalent temperature                                                                          | Pdh              | 4.5     | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 2.71              | -    |  |
| Tj = operation limit temperature (***)                                                             | Pdh              | 4.5     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd       | 2.71              | -    |  |
|                                                                                                    |                  |         |      |                                                                                                                                  |            |                   |      |  |
| Bivalent temperature                                                                               | Tbiv             | 2       | °C   | Operation limit temperature                                                                                                      | TOL        | -15               | °C   |  |
| Reference design conditions for space heating                                                      | Tdesignh         | 2       | °C   | Heating water operating limit temperature                                                                                        | WTOL       | 60                | °C   |  |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |            |                   |      |  |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup       | 0.0               | kW   |  |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   |                                                                                                                                  |            |                   |      |  |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   | Type of energy input                                                                                                             | Electrical |                   |      |  |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |            |                   |      |  |
| Other items                                                                                        |                  |         |      | Rated air flow rate, outdoors                                                                                                    |            |                   |      |  |
| Capacity control                                                                                   | variable         |         |      | -                                                                                                                                | 2100       | m <sup>3</sup> /h |      |  |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |            |                   |      |  |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 1146    | kWh  |                                                                                                                                  |            |                   |      |  |

For heat pump combination heater:

|                                |                   |       |     |                                 |             |     |   |
|--------------------------------|-------------------|-------|-----|---------------------------------|-------------|-----|---|
| Declared load profile          | L                 |       |     | Water heating energy efficiency | $\eta_{wh}$ | 168 | % |
| Daily electricity consumption  | Q <sub>elec</sub> | 2.920 | kWh |                                 |             |     |   |
| Annual electricity consumption | AEC               | 643   | kWh |                                 |             |     |   |

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Shizuoka JAPAN

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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:                   | PUHZ-SW50VKA(-BS) |
|                                       | Indoor unit:                    | ERST20D-****C2    |
| 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:         | yes                             |                   |
| Parameters for                        | medium-temperature application. |                   |
| Parameters for                        | average climate conditions.     |                   |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol | Value | Unit |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|--------|-------|------|
| Rated heat output (*)                                                                              | Prated           | 4.3     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs     | 128   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      |
| Tj = - 7 °C                                                                                        | Pdh              | 3.8     | kW   | Tj = - 7 °C                                                                                                                      | COPd   | 2.14  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |        |       |      |
| Tj = + 2 °C                                                                                        | Pdh              | 2.3     | kW   | Tj = + 2 °C                                                                                                                      | COPd   | 3.06  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.98    | -    |                                                                                                                                  |        |       |      |
| Tj = + 7 °C                                                                                        | Pdh              | 2.2     | kW   | Tj = + 7 °C                                                                                                                      | COPd   | 4.41  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |        |       |      |
| Tj = +12 °C                                                                                        | Pdh              | 2.7     | kW   | Tj = +12 °C                                                                                                                      | COPd   | 6.37  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |        |       |      |
| Tj = bivalent temperature                                                                          | Pdh              | 3.8     | kW   | Tj = bivalent temperature                                                                                                        | COPd   | 2.14  | -    |
| Tj = operation limit temperature (****)                                                            | Pdh              | 3.6     | kW   | Tj = operation limit temperature (****)                                                                                          | COPd   | 1.84  | -    |
|                                                                                                    |                  |         |      |                                                                                                                                  |        |       |      |
| Bivalent temperature                                                                               | Tbiv             | -7      | °C   | Operation limit temperature                                                                                                      | TOL    | -15   | °C   |
| Reference design conditions for space heating                                                      | Tdesignh         | -10     | °C   | Heating water operating limit temperature                                                                                        | WTOL   | 60    | °C   |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |        |       |      |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup   | 0.7   | kW   |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   |                                                                                                                                  |        |       |      |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   |                                                                                                                                  |        |       |      |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |        |       |      |
| Other items                                                                                        |                  |         |      |                                                                                                                                  |        |       |      |
| Capacity control                                                                                   | variable         |         |      | Rated air flow rate, outdoors                                                                                                    | -      | 2100  | m³/h |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |        |       |      |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 2722    | kWh  |                                                                                                                                  |        |       |      |

For heat pump combination heater:

|                                |       |       |     |                                 |             |     |   |
|--------------------------------|-------|-------|-----|---------------------------------|-------------|-----|---|
| Declared load profile          | L     |       |     | Water heating energy efficiency | $\eta_{wh}$ | 146 | % |
| Daily electricity consumption  | Qelec | 3.360 | kWh |                                 |             |     |   |
| Annual electricity consumption | AEC   | 740   | kWh |                                 |             |     |   |

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 Tomoyuki MIWA  
 General Manager, Quality Assurance Department  
 Shizuoka JAPAN

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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: | PUHZ-SW50VKA(-BS)            |
|                                       | Indoor unit:  | ERST20D-****C2               |
| 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:         |               | yes                          |
| Parameters for                        |               | low-temperature application. |
| Parameters for                        |               | average climate conditions.  |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol | Value | Unit |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|--------|-------|------|
| Rated heat output (*)                                                                              | Prated           | 4.5     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs     | 167   | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |        |       |      |
| Tj = - 7 °C                                                                                        | Pdh              | 4.0     | kW   | Tj = - 7 °C                                                                                                                      | COPd   | 2.87  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |        |       |      |
| Tj = + 2 °C                                                                                        | Pdh              | 2.4     | kW   | Tj = + 2 °C                                                                                                                      | COPd   | 4.03  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.98    | -    |                                                                                                                                  |        |       |      |
| Tj = + 7 °C                                                                                        | Pdh              | 2.3     | kW   | Tj = + 7 °C                                                                                                                      | COPd   | 5.79  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |        |       |      |
| Tj = +12 °C                                                                                        | Pdh              | 2.7     | kW   | Tj = +12 °C                                                                                                                      | COPd   | 7.59  | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |        |       |      |
| Tj = bivalent temperature                                                                          | Pdh              | 4.0     | kW   | Tj = bivalent temperature                                                                                                        | COPd   | 2.87  | -    |
| Tj = operation limit temperature (***)                                                             | Pdh              | 3.7     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd   | 2.29  | -    |
|                                                                                                    |                  |         |      |                                                                                                                                  |        |       |      |
| Bivalent temperature                                                                               | Tbiv             | -7      | °C   | Operation limit temperature                                                                                                      | TOL    | -15   | °C   |
| Reference design conditions for space heating                                                      | Tdesignh         | -10     | °C   | Heating water operating limit temperature                                                                                        | WTOL   | 60    | °C   |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |        |       |      |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup   | 0.8   | kW   |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   |                                                                                                                                  |        |       |      |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   |                                                                                                                                  |        |       |      |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |        |       |      |
| Other items                                                                                        |                  |         |      |                                                                                                                                  |        |       |      |
| Capacity control                                                                                   | variable         |         |      | Rated air flow rate, outdoors                                                                                                    | -      | 2100  | m³/h |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |        |       |      |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 2183    | kWh  |                                                                                                                                  |        |       |      |
| For heat pump combination heater:                                                                  |                  |         |      |                                                                                                                                  |        |       |      |
| Declared load profile                                                                              | L                |         |      | Water heating energy efficiency                                                                                                  | ηwh    | 146   | %    |
| Daily electricity consumption                                                                      | Qelec            | 3.360   | kWh  |                                                                                                                                  |        |       |      |
| Annual electricity consumption                                                                     | AEC              | 740     | kWh  |                                                                                                                                  |        |       |      |

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**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

|                                       |                                 |                   |
|---------------------------------------|---------------------------------|-------------------|
| Model(s):                             | Outdoor unit:                   | PUHZ-SW50VKA(-BS) |
|                                       | Indoor unit:                    | ERST20D-****C2    |
| 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:         | yes                             |                   |
| Parameters for                        | medium-temperature application. |                   |
| Parameters for                        | colder climate conditions.      |                   |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol     | Value | Unit              |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------------------|
| Rated heat output (*)                                                                              | Prated           | 4.0     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 103   | %                 |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |                   |
| Tj = - 7 °C                                                                                        | Pdh              | 2.4     | kW   | Tj = - 7 °C                                                                                                                      | COPd       | 2.40  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |            |       |                   |
| Tj = + 2 °C                                                                                        | Pdh              | 1.5     | kW   | Tj = + 2 °C                                                                                                                      | COPd       | 3.18  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |            |       |                   |
| Tj = + 7 °C                                                                                        | Pdh              | 2.2     | kW   | Tj = + 7 °C                                                                                                                      | COPd       | 5.00  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |            |       |                   |
| Tj = +12 °C                                                                                        | Pdh              | 2.6     | kW   | Tj = +12 °C                                                                                                                      | COPd       | 6.64  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |       |                   |
| Tj = bivalent temperature                                                                          | Pdh              | 3.3     | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 1.33  | -                 |
| Tj = operation limit temperature (***)                                                             | Pdh              | 3.3     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd       | 1.33  | -                 |
| Tj = – 15 °C (if TOL < – 20 °C)                                                                    | Pdh              | -       | kW   | Tj = – 15 °C (if TOL < – 20 °C)                                                                                                  | COPd       | -     | -                 |
| Bivalent temperature                                                                               | Tbiv             | -15     | °C   | Operation limit temperature                                                                                                      | TOL        | -15   | °C                |
| Reference design conditions for space heating                                                      | Tdesignh         | -22     | °C   | Heating water operating limit temperature                                                                                        | WTOL       | 60    | °C                |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |            |       |                   |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup       | 4.0   | kW                |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   | Type of energy input                                                                                                             | Electrical |       |                   |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   |                                                                                                                                  |            |       |                   |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |            |       |                   |
| Other items                                                                                        |                  |         |      |                                                                                                                                  |            |       |                   |
| Capacity control                                                                                   | variable         |         |      | Rated air flow rate, outdoors                                                                                                    | -          | 2100  | m <sup>3</sup> /h |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |            |       |                   |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 3719    | kWh  |                                                                                                                                  |            |       |                   |
| For heat pump combination heater:                                                                  |                  |         |      |                                                                                                                                  |            |       |                   |
| Declared load profile                                                                              | L                |         |      | Water heating energy efficiency                                                                                                  | ηwh        | 122   | %                 |
| Daily electricity consumption                                                                      | Qelec            | 3.990   | kWh  |                                                                                                                                  |            |       |                   |
| Annual electricity consumption                                                                     | AEC              | 878     | kWh  |                                                                                                                                  |            |       |                   |

**Contact details**

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General Manager, Quality Assurance Department

Shizuoka JAPAN

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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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

|                                       |                              |                   |
|---------------------------------------|------------------------------|-------------------|
| Model(s):                             | Outdoor unit:                | PUHZ-SW50VKA(-BS) |
|                                       | Indoor unit:                 | ERST20D-****C2    |
| 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:         | yes                          |                   |
| Parameters for                        | low-temperature application. |                   |
| Parameters for                        | colder climate conditions.   |                   |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol     | Value | Unit              |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------------------|
| Rated heat output (*)                                                                              | Prated           | 4.2     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 145   | %                 |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |       |                   |
| Tj = - 7 °C                                                                                        | Pdh              | 2.5     | kW   | Tj = - 7 °C                                                                                                                      | COPd       | 3.55  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.98    | -    |                                                                                                                                  |            |       |                   |
| Tj = + 2 °C                                                                                        | Pdh              | 1.5     | kW   | Tj = + 2 °C                                                                                                                      | COPd       | 4.60  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.95    | -    |                                                                                                                                  |            |       |                   |
| Tj = + 7 °C                                                                                        | Pdh              | 2.3     | kW   | Tj = + 7 °C                                                                                                                      | COPd       | 6.50  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |       |                   |
| Tj = +12 °C                                                                                        | Pdh              | 2.7     | kW   | Tj = +12 °C                                                                                                                      | COPd       | 6.40  | -                 |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |       |                   |
| Tj = bivalent temperature                                                                          | Pdh              | 3.4     | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 2.70  | -                 |
| Tj = operation limit temperature (***)                                                             | Pdh              | 3.4     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd       | 2.70  | -                 |
| Tj = – 15 °C (if TOL < – 20 °C)                                                                    | Pdh              | -       | kW   | Tj = – 15 °C (if TOL < – 20 °C)                                                                                                  | COPd       | -     | -                 |
| Bivalent temperature                                                                               | Tbiv             | -15     | °C   | Operation limit temperature                                                                                                      | TOL        | -15   | °C                |
| Reference design conditions for space heating                                                      | Tdesignh         | -22     | °C   | Heating water operating limit temperature                                                                                        | WTOL       | 60    | °C                |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |            |       |                   |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup       | 4.2   | kW                |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   | Type of energy input                                                                                                             | Electrical |       |                   |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   |                                                                                                                                  |            |       |                   |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |            |       |                   |
| Other items                                                                                        |                  |         |      |                                                                                                                                  |            |       |                   |
| Capacity control                                                                                   | variable         |         |      | Rated air flow rate, outdoors                                                                                                    | -          | 2100  | m <sup>3</sup> /h |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |            |       |                   |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 2803    | kWh  |                                                                                                                                  |            |       |                   |
| For heat pump combination heater:                                                                  |                  |         |      |                                                                                                                                  |            |       |                   |
| Declared load profile                                                                              | L                |         |      | Water heating energy efficiency                                                                                                  | ηwh        | 122   | %                 |
| Daily electricity consumption                                                                      | Qelec            | 3.990   | kWh  |                                                                                                                                  |            |       |                   |
| Annual electricity consumption                                                                     | AEC              | 878     | kWh  |                                                                                                                                  |            |       |                   |

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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.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

|                                       |               |                                 |
|---------------------------------------|---------------|---------------------------------|
| Model(s):                             | Outdoor unit: | PUHZ-SW50VKA(-BS)               |
|                                       | Indoor unit:  | ERST20D-****C2                  |
| 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:         |               | yes                             |
| Parameters for                        |               | medium-temperature application. |
| Parameters for                        |               | warmer climate conditions.      |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol     | Value             | Unit |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|------|
| Rated heat output (*)                                                                              | Prated           | 4.3     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 161               | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |                   |      |
| Tj = - 7 °C                                                                                        | Pdh              | -       | kW   | Tj = - 7 °C                                                                                                                      | COPd       | -                 | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | -       | -    |                                                                                                                                  |            |                   |      |
| Tj = + 2 °C                                                                                        | Pdh              | 4.3     | kW   | Tj = + 2 °C                                                                                                                      | COPd       | 1.80              | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |            |                   |      |
| Tj = + 7 °C                                                                                        | Pdh              | 2.8     | kW   | Tj = + 7 °C                                                                                                                      | COPd       | 3.64              | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.98    | -    |                                                                                                                                  |            |                   |      |
| Tj = +12 °C                                                                                        | Pdh              | 2.5     | kW   | Tj = +12 °C                                                                                                                      | COPd       | 5.45              | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |            |                   |      |
| Tj = bivalent temperature                                                                          | Pdh              | 4.3     | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 1.80              | -    |
| Tj = operation limit temperature (***)                                                             | Pdh              | 4.3     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd       | 1.80              | -    |
|                                                                                                    |                  |         |      |                                                                                                                                  |            |                   |      |
| Bivalent temperature                                                                               | Tbiv             | 2       | °C   | Operation limit temperature                                                                                                      | TOL        | -15               | °C   |
| Reference design conditions for space heating                                                      | Tdesignh         | 2       | °C   | Heating water operating limit temperature                                                                                        | WTOL       | 60                | °C   |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |            |                   |      |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup       | 0.0               | kW   |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   | Type of energy input                                                                                                             | Electrical |                   |      |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   |                                                                                                                                  |            |                   |      |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |            |                   |      |
| Other items                                                                                        |                  |         |      | Rated air flow rate, outdoors                                                                                                    |            |                   |      |
| Capacity control                                                                                   | variable         |         |      | -                                                                                                                                | 2100       | m <sup>3</sup> /h |      |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |            |                   |      |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 1401    | kWh  |                                                                                                                                  |            |                   |      |

For heat pump combination heater:

|                                |       |       |     |                                 |             |     |   |
|--------------------------------|-------|-------|-----|---------------------------------|-------------|-----|---|
| Declared load profile          | L     |       |     | Water heating energy efficiency | $\eta_{wh}$ | 168 | % |
| Daily electricity consumption  | Qelec | 2.920 | kWh |                                 |             |     |   |
| Annual electricity consumption | AEC   | 643   | kWh |                                 |             |     |   |

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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: | PUHZ-SW50VKA(-BS)            |
|                                       | Indoor unit:  | ERST20D-****C2               |
| 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:         |               | yes                          |
| Parameters for                        |               | low-temperature application. |
| Parameters for                        |               | warmer climate conditions.   |

| Item                                                                                               | Symbol           | Value   | Unit | Item                                                                                                                             | Symbol     | Value             | Unit |
|----------------------------------------------------------------------------------------------------|------------------|---------|------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|------|
| Rated heat output (*)                                                                              | Prated           | 4.5     | kW   | Seasonal space heating energy efficiency                                                                                         | ηs         | 214               | %    |
| Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj |                  |         |      | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj |            |                   |      |
| Tj = - 7 °C                                                                                        | Pdh              | -       | kW   | Tj = - 7 °C                                                                                                                      | COPd       | -                 | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | -       | -    |                                                                                                                                  |            |                   |      |
| Tj = + 2 °C                                                                                        | Pdh              | 4.5     | kW   | Tj = + 2 °C                                                                                                                      | COPd       | 2.71              | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.99    | -    |                                                                                                                                  |            |                   |      |
| Tj = + 7 °C                                                                                        | Pdh              | 2.9     | kW   | Tj = + 7 °C                                                                                                                      | COPd       | 5.44              | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.97    | -    |                                                                                                                                  |            |                   |      |
| Tj = +12 °C                                                                                        | Pdh              | 2.6     | kW   | Tj = +12 °C                                                                                                                      | COPd       | 6.30              | -    |
| Degradation co-efficient (**)                                                                      | Cdh              | 0.96    | -    |                                                                                                                                  |            |                   |      |
| Tj = bivalent temperature                                                                          | Pdh              | 4.5     | kW   | Tj = bivalent temperature                                                                                                        | COPd       | 2.71              | -    |
| Tj = operation limit temperature (***)                                                             | Pdh              | 4.5     | kW   | Tj = operation limit temperature (***)                                                                                           | COPd       | 2.71              | -    |
|                                                                                                    |                  |         |      |                                                                                                                                  |            |                   |      |
| Bivalent temperature                                                                               | Tbiv             | 2       | °C   | Operation limit temperature                                                                                                      | TOL        | -15               | °C   |
| Reference design conditions for space heating                                                      | Tdesignh         | 2       | °C   | Heating water operating limit temperature                                                                                        | WTOL       | 60                | °C   |
| Power consumption in modes other than active mode                                                  |                  |         |      | Supplementary heater                                                                                                             |            |                   |      |
| Off mode                                                                                           | P <sub>OFF</sub> | 0.015   | kW   | Rated heat output (*)                                                                                                            | Psup       | 0.0               | kW   |
| Thermostat-off mode                                                                                | P <sub>TO</sub>  | 0.015   | kW   | Type of energy input                                                                                                             | Electrical |                   |      |
| Standby mode                                                                                       | P <sub>SB</sub>  | 0.015   | kW   |                                                                                                                                  |            |                   |      |
| Crankcase heater mode                                                                              | P <sub>CK</sub>  | 0.000   | kW   |                                                                                                                                  |            |                   |      |
| Other items                                                                                        |                  |         |      | Rated air flow rate, outdoors                                                                                                    |            |                   |      |
| Capacity control                                                                                   | variable         |         |      | -                                                                                                                                | 2100       | m <sup>3</sup> /h |      |
| Sound power level, indoors/outdoors                                                                | L <sub>WA</sub>  | 40 / 63 | dBA  |                                                                                                                                  |            |                   |      |
| Annual energy consumption                                                                          | Q <sub>HE</sub>  | 1110    | kWh  |                                                                                                                                  |            |                   |      |
| For heat pump combination heater:                                                                  |                  |         |      | Water heating energy efficiency                                                                                                  |            |                   |      |
| Declared load profile                                                                              | L                |         |      | ηwh                                                                                                                              | 168        | %                 |      |
| Daily electricity consumption                                                                      | Qelec            | 2.920   | kWh  |                                                                                                                                  |            |                   |      |
| Annual electricity consumption                                                                     | AEC              | 643     | kWh  |                                                                                                                                  |            |                   |      |

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