



# ENERG

енергия · ενεργεια

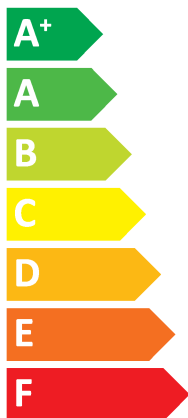


Indoor unit  
Outdoor unit

ERST20F-YM9E  
PUZ-SWM120YAA



**A<sup>++</sup>**



**A<sup>+</sup>**

Two icons showing sound power levels. The top icon shows a speaker inside a house with the text **41 dB**. The bottom icon shows a speaker outside a house with the text **58 dB**.



A legend for power consumption with three colored squares: dark blue, medium blue, and light blue. Next to each square is the text **12 kW**.

1. SPACE HEATER

|                                    |  | 1   | Outdoor unit                | PUZ-SWM120YAA |
|------------------------------------|--|---|-----------------------------|---------------|
|                                    |  | 2   | Indoor unit                 | ERST20F-YM9E  |
| For medium-temperature application | 3  | Medium-temperature application  |                             | ✓             |
|                                    | 6  | Seasonal space heating energy efficiency class                                |                             | A++           |
|                                    | 8  | Rated heat output under average climate conditions                            | kW                          | 12            |
|                                    | 11   | Seasonal space heating energy efficiency under average climate conditions     | %                           | 132           |
|                                    | 9  | For space heating, annual energy consumption under average climate conditions | kWh                         | 7381          |
|                                    | 13   | Sound power level L <sub>WA</sub> indoor                                      | dB                          | 41            |
|                                    | 15   | Rated heat output under colder climate conditions                             | kW                          | 12            |
|                                    | 16   | Rated heat output under warmer climate conditions                             | kW                          | 12            |
|                                    | 21   | Seasonal space heating energy efficiency under colder climate conditions      | %                           | 110           |
|                                    | 22   | Seasonal space heating energy efficiency under warmer climate conditions      | %                           | 157           |
|                                    | 17   | For space heating, annual energy consumption under colder climate conditions  | kWh                         | 10590         |
|                                    | 18   | For space heating, annual energy consumption under warmer climate conditions  | kWh                         | 4046          |
|                                    | 25   | Sound power level L <sub>WA</sub> outdoor                                     | dB                          | 58            |
|                                    | For low-temperature application  | 4   | Low-temperature application |               |
| 6                                  |  | Seasonal space heating energy efficiency class                                |                             | A+++          |
| 8                                  |  | Rated heat output under average climate conditions                            | kW                          | 12            |
| 11                                 |  | Seasonal space heating energy efficiency under average climate conditions     | %                           | 179           |
| 9                                  |  | For space heating, annual energy consumption under average climate conditions | kWh                         | 5495          |
| 13                                 |  | Sound power level L <sub>WA</sub> indoor                                      | dB                          | 41            |
| 15                                 |  | Rated heat output under colder climate conditions                             | kW                          | 12            |
| 16                                 |  | Rated heat output under warmer climate conditions                             | kW                          | 12            |
| 21                                 |  | Seasonal space heating energy efficiency under colder climate conditions      | %                           | 142           |
| 22                                 |  | Seasonal space heating energy efficiency under warmer climate conditions      | %                           | 227           |
| 17                                 |  | For space heating, annual energy consumption under colder climate conditions  | kWh                         | 8232          |
| 18                                 | For space heating, annual energy consumption under warmer climate conditions | kWh   | 2809                        |               |
| 25                                 | Sound power level L <sub>WA</sub> outdoor                                    | dB  | 58                          |               |

2. COMBINATION HEATER

|                                    |                                 | 1  | Outdoor unit                                   | PUZ-SWM120YAA |      |
|------------------------------------|---------------------------------|--|--|---------------|------|
|                                    |                                 | 2  | Indoor unit                                    | ERST20F-YM9E  |      |
| For medium-temperature application | 3                               | Medium-temperature application   |  | ✓             |      |
|                                    | 5                               | Declared load profile  |  | L             |      |
|                                    | 6                               | Seasonal space heating energy efficiency class                                     |  | A++           |      |
|                                    | 7                               | Water heating energy efficiency class  |  | A+            |      |
|                                    | 8                               | Rated heat output under average climate conditions                                 | kW   | 12            |      |
|                                    | 9                               | For space heating, annual energy consumption under average climate conditions      | kWh  | 7381          |      |
|                                    | 10                              | For water heating, annual electricity consumption under average climate conditions | kWh  | 796           |      |
|                                    | 11                              | Seasonal space heating energy efficiency under average climate conditions          | %  | 132           |      |
|                                    | 12                              | Water heating energy efficiency under average climate conditions                   | %  | 137           |      |
|                                    | 13                              | Sound power level L <sub>WA</sub> indoor   | dB   | 41            |      |
|                                    | 14                              | Work only during off-peak hours  |  | -             |      |
|                                    | 15                              | Rated heat output under colder climate conditions                                  | kW   | 12            |      |
|                                    | 16                              | Rated heat output under warmer climate conditions                                  | kW   | 12            |      |
|                                    | 17                              | For space heating, annual energy consumption under colder climate conditions       | kWh  | 10590         |      |
|                                    | 18                              | For space heating, annual energy consumption under warmer climate conditions       | kWh  | 4046          |      |
|                                    | 19                              | For water heating, annual energy consumption under colder climate conditions       | kWh  | 945           |      |
|                                    | 20                              | For water heating, annual energy consumption under warmer climate conditions       | kWh  | 696           |      |
|                                    | 21                              | Seasonal space heating energy efficiency under colder climate conditions           | %  | 110           |      |
|                                    | 22                              | Seasonal space heating energy efficiency under warmer climate conditions           | %  | 157           |      |
|                                    | 23                              | Water heating energy efficiency under colder climate conditions                    | %  | 115           |      |
|                                    | 24                              | Water heating energy efficiency under warmer climate conditions                    | %  | 158           |      |
|                                    | 25                              | Sound power level L <sub>WA</sub> outdoor  | dB   | 58            |      |
|                                    | For low-temperature application | 4  | Low-temperature application                    |               | ✓    |
|                                    |                                 | 5  | Declared load profile                          |               | L    |
|                                    |                                 | 6  | Seasonal space heating energy efficiency class |               | A+++ |
| 7                                  |                                 | Water heating energy efficiency class  |  | A+            |      |
| 8                                  |                                 | Rated heat output under average climate conditions                                 | kW   | 12            |      |
| 9                                  |                                 | For space heating, annual energy consumption under average climate conditions      | kWh  | 5495          |      |
| 10                                 |                                 | For water heating, annual electricity consumption under average climate conditions | kWh  | 796           |      |
| 11                                 |                                 | Seasonal space heating energy efficiency under average climate conditions          | %  | 179           |      |
| 12                                 |                                 | Water heating energy efficiency under average climate conditions                   | %  | 137           |      |
| 13                                 |                                 | Sound power level L <sub>WA</sub> indoor   | dB   | 41            |      |
| 14                                 |                                 | Work only during off-peak hours  |  | -             |      |
| 15                                 |                                 | Rated heat output under colder climate conditions                                  | kW   | 12            |      |
| 16                                 |                                 | Rated heat output under warmer climate conditions                                  | kW   | 12            |      |
| 17                                 |                                 | For space heating, annual energy consumption under colder climate conditions       | kWh  | 8232          |      |
| 18                                 |                                 | For space heating, annual energy consumption under warmer climate conditions       | kWh  | 2809          |      |
| 19                                 |                                 | For water heating, annual energy consumption under colder climate conditions       | kWh  | 945           |      |
| 20                                 |                                 | For water heating, annual energy consumption under warmer climate conditions       | kWh  | 696           |      |
| 21                                 |                                 | Seasonal space heating energy efficiency under colder climate conditions           | %  | 142           |      |
| 22                                 |                                 | Seasonal space heating energy efficiency under warmer climate conditions           | %  | 227           |      |
| 23                                 |                                 | Water heating energy efficiency under colder climate conditions                    | %  | 115           |      |
| 24                                 |                                 | Water heating energy efficiency under warmer climate conditions                    | %  | 158           |      |
| 25                                 |                                 | Sound power level L <sub>WA</sub> outdoor  | dB   | 58            |      |

|    |   |   |   |  |  |
|----|---|---|---|--|--|
|    | 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>buitenuit<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>-   |
| 2  | 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>middentemperatuur-toepassing<br>keskilämpötilan sovellus  | Mitteltemperaturanwendung<br>mediumtemperaturapplikation<br>středněteplotní aplikace  | l'application à moyenne température<br>middeltemperaturavendelsen<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>-  |
| 4  | Low-temperature application<br>lagetemperatuur-toepassing<br>matalanlämpötilan sovellus   | Niedertemperaturanwendung<br>lågtemperaturapplikation<br>nizkoteplotní aplikace   | l'application à basse température<br>lavtemperaturavendelsen<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>Обявен товаров профил  | Profilo di carico dichiarato<br>Perfil de carga declarado<br>Deklarowany profil obciążenia   | Perfil de carga declarado<br>Δηλωμένο προφίλ φορτίου<br>-  |
| 6  | Seasonal space heating energy efficiency class<br>de seizoengebonden 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 rumopvarming<br>класът 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>-  |
| 7  | 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 vandopvarming<br>класът на енергийната ефективност при подгръване 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 ilmasto-olosuhteissa)   | 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>znaniowa moc cieplna (w warunkach klimatu umiarkowanego)   | la potencia calorífica nominal (en condiciones climáticas medias)<br>η ονομαστική θερμική ισχύς (υπό μέσες κλιματικές συνθήκες)<br>-   |
| 9  | For space heating, annual energy consumption under average climate conditions<br>voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)<br>tilalämmityksestä vuotuinen energiankulutus (keskimääräisissä ilmasto-olosuhteissa)          | 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 rumopvarming 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 sähkökulutus (keskimääräisissä ilmasto-olosuhteissa) | für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen<br>För vattenuppvärmning, årlig elförbrukning (vid genomsnittliga klimatförhållanden)<br>pro ohřevu 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 vandopvarming det årlige elforbrug (under gennemsnitlige klimaforhold)<br>за подгръване 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 seizoengebonden energie-efficiëntie voor ruimteverwarming (onder gemiddelde klimaatomstandigheden)<br>tilalämmityksen kausittainen energiatehokkuus (keskimääräisissä ilmasto-olosuhteissa)     | 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 rumopvarming (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 ilmasto-olosuhteissa)   | die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen<br>Energieeffektivitet ved 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 vandopvarming (under gennemsnitlige klimaforhold)<br>енергийната ефективност при подгръване 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>Ljudeffektnivå 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>lydeeffektniveauet L <sub>WA</sub> i inde<br>ниво 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 kulutushuippujen ulkopuolella   | dass ein ausschließlicher Betrieb des Kombiheizgerätes zu Schwachlastzeiten<br>drivas uteslutande under perioder med låg belastning<br>provozu 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 ilmasto-olosuhteissa   | 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>znaniowa 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 ilmasto-olosuhteissa   | 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>znaniowa 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 ilmasto-olosuhteissa                          | für die Raumheizung, der jährliche Energieverbrauch bei kälteren Klimaverhältnissen<br>För rumsuppvärmning, årlig energiförbrukning under kallare klimatförhållanden<br>pro vytápění – roční spotřeba energie za chladnějších klimatických podmínek                                   | pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froides<br>for rumopvarming 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 ilmasto-olosuhteissa                        | 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 rumopvarming 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 sähkökulutus kylmissä ilmasto-olosuhteissa                      | für die Warmwasserbereitung, der jährliche Stromverbrauch bei kälteren Klimaverhältnissen<br>För vattenuppvärmning, årlig elförbrukning under kallare klimatförhållanden<br>pro ohřevu 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 vandopvarming det årlige elforbrug under koldere klimaforhold<br>за подгръване 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 sähkökulutus lämpimissä ilmasto-olosuhteissa                    | für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen<br>För vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden<br>pro ohřevu 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 vandopvarming det årlige elforbrug under varmere klimaforhold<br>за подгръване 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 seizoengebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden<br>tilalämmityksen kausittainen energiatehokkuus kylmissä ilmasto-olosuhteissa                     | 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 rumopvarming 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 seizoengebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden<br>tilalämmityksen kausittainen energiatehokkuus lämpimissä ilmasto-olosuhteissa                   | 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 rumopvarming 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 ilmasto-olosuhteissa   | die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen<br>Energieeffektivitet ved 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 vandopvarming under koldere klimaforhold<br>енергийната ефективност при подгръване 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 ilmasto-olosuhteissa   | die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen<br>Energieeffektivitet ved 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 vandopvarming under varmere klimaforhold<br>енергийната ефективност при подгръване 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>Ljudeffektnivå 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>lydeeffektniveau L <sub>WA</sub> i ude<br>ниво 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: | PUZ-SWM120YAA                   |
|                                       | Indoor unit:  | ERST20F-YM9E                    |
| 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 |
|---|----------------------|-------|------|
| Rated heat output (*)   | Prated               | 12.1  | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                      |       |      |
| T <sub>j</sub> = -7°C   | P <sub>dh</sub>      | 10.7  | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 1.00  |      |
| T <sub>j</sub> = +2°C   | P <sub>dh</sub>      | 6.5   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.99  |      |
| T <sub>j</sub> = +7°C   | P <sub>dh</sub>      | 5.0   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.98  |      |
| T <sub>j</sub> = +12°C  | P <sub>dh</sub>      | 3.8   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.96  |      |
| T <sub>j</sub> = bivalent temperature   | P <sub>dh</sub>      | 10.7  | kW   |
| T <sub>j</sub> = operation limit temperature(***)   | P <sub>dh</sub>      | 10.7  | kW   |
| Bivalent temperature  | T <sub>biv</sub>     | -7    | °C   |
| Reference design conditions for space heating   | T <sub>designh</sub> | -10   | °C   |
| Power consumption in modes other than active mode   |                      |       |      |
| Off mode  | P <sub>OFF</sub>     | 0.022 | kW   |
| Thermostat-off mode   | P <sub>TO</sub>      | 0.022 | kW   |
| Standby mode  | P <sub>SB</sub>      | 0.022 | kW   |
| Crankcase heater mode   | P <sub>CK</sub>      | 0.000 | kW   |

| Item  | Symbol           | Value      | Unit |
|---|------------------|------------|------|
| Seasonal space heating energy efficiency  | η <sub>s</sub>   | 132        | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |            |      |
| T <sub>j</sub> = -7°C   | COP <sub>d</sub> | 1.87       |      |
| T <sub>j</sub> = +2°C   | COP <sub>d</sub> | 3.35       |      |
| T <sub>j</sub> = +7°C   | COP <sub>d</sub> | 4.65       |      |
| T <sub>j</sub> = +12°C  | COP <sub>d</sub> | 6.20       |      |
| T <sub>j</sub> = bivalent temperature   | COP <sub>d</sub> | 1.87       |      |
| T <sub>j</sub> = operation limit temperature(***)   | COP <sub>d</sub> | 1.55       |      |
| Operation limit temperature   | TOL              | -25        | °C   |
| Heating water operating limit temperature   | WTOL             | 70         | °C   |
| Supplementary heater  |                  |            |      |
| Rated heat output(*)  | P <sub>sup</sub> | 1.4        | kW   |
| Type of energy input  |                  | Electrical |      |

| Other items                         |                 |          |     |
|-------------------------------------|-----------------|----------|-----|
| Capacity control                    |                 | variable |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 41 / 58  | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 7381     | kWh |

|                               |  |      |                   |
|-------------------------------|--|------|-------------------|
| Rated air flow rate, outdoors |  | 2640 | m <sup>3</sup> /h |
|-------------------------------|--|------|-------------------|

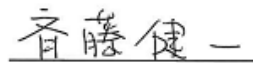
| For heat pump combination heater: |                   |       |     |
|-----------------------------------|-------------------|-------|-----|
| Declared load profile             |                   | L     |     |
| Daily electricity consumption     | Q <sub>elec</sub> | 3.620 | kWh |
| Annual electricity consumption    | AEC               | 796   | kWh |

|                                 |                 |     |   |
|---------------------------------|-----------------|-----|---|
| Water heating energy efficiency | η <sub>wh</sub> | 137 | % |
|---------------------------------|-----------------|-----|---|

## Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖKÜYÜ, YOSB Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manis

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



Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

· 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: | PUZ-SWM120YAA                |
|                                       | Indoor unit:  | ERST20F-YM9E                 |
| 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 |
|---|----------------------|-------|------|
| Rated heat output (*)   | Prated               | 12.1  | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                      |       |      |
| T <sub>j</sub> = -7°C   | P <sub>dh</sub>      | 10.7  | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.99  |      |
| T <sub>j</sub> = +2°C   | P <sub>dh</sub>      | 6.5   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.98  |      |
| T <sub>j</sub> = +7°C   | P <sub>dh</sub>      | 5.2   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.98  |      |
| T <sub>j</sub> = +12°C  | P <sub>dh</sub>      | 4.0   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.96  |      |
| T <sub>j</sub> = bivalent temperature   | P <sub>dh</sub>      | 10.7  | kW   |
| T <sub>j</sub> = operation limit temperature(***)   | P <sub>dh</sub>      | 10.7  | kW   |
| Bivalent temperature  | T <sub>biv</sub>     | -7    | °C   |
| Reference design conditions for space heating   | T <sub>designh</sub> | -10   | °C   |
| Power consumption in modes other than active mode   |                      |       |      |
| Off mode  | P <sub>OFF</sub>     | 0.022 | kW   |
| Thermostat-off mode   | P <sub>TO</sub>      | 0.022 | kW   |
| Standby mode  | P <sub>SB</sub>      | 0.022 | kW   |
| Crankcase heater mode   | P <sub>CK</sub>      | 0.000 | kW   |

| Item  | Symbol           | Value      | Unit |
|---|------------------|------------|------|
| Seasonal space heating energy efficiency  | η <sub>s</sub>   | 179        | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |            |      |
| T <sub>j</sub> = -7°C   | COP <sub>d</sub> | 2.75       |      |
| T <sub>j</sub> = +2°C   | COP <sub>d</sub> | 4.54       |      |
| T <sub>j</sub> = +7°C   | COP <sub>d</sub> | 6.00       |      |
| T <sub>j</sub> = +12°C  | COP <sub>d</sub> | 7.00       |      |
| T <sub>j</sub> = bivalent temperature   | COP <sub>d</sub> | 2.75       |      |
| T <sub>j</sub> = operation limit temperature(***)   | COP <sub>d</sub> | 2.40       |      |
| Operation limit temperature   | TOL              | -25        | °C   |
| Heating water operating limit temperature   | WTOL             | 70         | °C   |
| Supplementary heater  |                  |            |      |
| Rated heat output(*)  | P <sub>sup</sub> | 1.4        | kW   |
| Type of energy input  |                  | Electrical |      |

| Other items                         |                 |          |     |
|-------------------------------------|-----------------|----------|-----|
| Capacity control                    |                 | variable |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 41 / 58  | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 5495     | kWh |

|                               |  |      |                   |
|-------------------------------|--|------|-------------------|
| Rated air flow rate, outdoors |  | 2640 | m <sup>3</sup> /h |
|-------------------------------|--|------|-------------------|

| For heat pump combination heater: |                   |       |     |
|-----------------------------------|-------------------|-------|-----|
| Declared load profile             |                   | L     |     |
| Daily electricity consumption     | Q <sub>elec</sub> | 3.620 | kWh |
| Annual electricity consumption    | AEC               | 796   | kWh |

|                                 |                 |     |   |
|---------------------------------|-----------------|-----|---|
| Water heating energy efficiency | η <sub>wh</sub> | 137 | % |
|---------------------------------|-----------------|-----|---|

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖRKÜYÜSÜ Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa / Turkey

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

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

Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

· 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.

# PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

|                                       |               |                                 |
|---------------------------------------|---------------|---------------------------------|
| Model(s):                             | Outdoor unit: | PUZ-SWM120YAA                   |
|                                       | Indoor unit:  | ERST20F-YM9E                    |
| 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 |
|---|----------------------|-------|------|
| Rated heat output (*)   | Prated               | 12.1  | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                      |       |      |
| T <sub>j</sub> = - 7°C  | P <sub>dh</sub>      | 7.3   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.99  |      |
| T <sub>j</sub> = + 2°C  | P <sub>dh</sub>      | 4.4   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.98  |      |
| T <sub>j</sub> = + 7°C  | P <sub>dh</sub>      | 3.8   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.97  |      |
| T <sub>j</sub> = + 12°C   | P <sub>dh</sub>      | 4.4   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.97  |      |
| T <sub>j</sub> = bivalent temperature   | P <sub>dh</sub>      | 9.2   | kW   |
| T <sub>j</sub> = operation limit temperature(***)   | P <sub>dh</sub>      | 7.8   | kW   |
| T <sub>j</sub> = - 15°C (if TOL < - 20°C)   | P <sub>dh</sub>      | 8.9   | kW   |
| Bivalent temperature  | T <sub>biv</sub>     | -13   | °C   |
| Reference design conditions for space heating   | T <sub>designh</sub> | -22   | °C   |
| Power consumption in modes other than active mode   |                      |       |      |
| Off mode  | P <sub>OFF</sub>     | 0.022 | kW   |
| Thermostat-off mode   | P <sub>TO</sub>      | 0.022 | kW   |
| Standby mode  | P <sub>SB</sub>      | 0.022 | kW   |
| Crankcase heater mode   | P <sub>CK</sub>      | 0.000 | kW   |

| Item  | Symbol           | Value      | Unit |
|---|------------------|------------|------|
| Seasonal space heating energy efficiency  | η <sub>s</sub>   | 110        | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |            |      |
| T <sub>j</sub> = - 7°C  | COP <sub>d</sub> | 2.50       |      |
| T <sub>j</sub> = + 2°C  | COP <sub>d</sub> | 3.43       |      |
| T <sub>j</sub> = + 7°C  | COP <sub>d</sub> | 4.60       |      |
| T <sub>j</sub> = + 12°C   | COP <sub>d</sub> | 6.80       |      |
| T <sub>j</sub> = bivalent temperature   | COP <sub>d</sub> | 1.47       |      |
| T <sub>j</sub> = operation limit temperature(***)   | COP <sub>d</sub> | 1.30       |      |
| T <sub>j</sub> = - 15°C (if TOL < - 20°C)   | COP <sub>d</sub> | 1.42       |      |
| Operation limit temperature   | TOL              | -25        | °C   |
| Heating water operating limit temperature   | WTOL             | 70         | °C   |
| Supplementary heater  |                  |            |      |
| Rated heat output(*)  | P <sub>sup</sub> | 4.3        | kW   |
| Type of energy input  |                  | Electrical |      |

| Other items                         |                 |          |     |
|-------------------------------------|-----------------|----------|-----|
| Capacity control                    |                 | variable |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 41 / 58  | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 10590    | kWh |

|                               |  |      |                   |
|-------------------------------|--|------|-------------------|
| Rated air flow rate, outdoors |  | 2640 | m <sup>3</sup> /h |
|-------------------------------|--|------|-------------------|

| For heat pump combination heater: |                   |       |     |
|-----------------------------------|-------------------|-------|-----|
| Declared load profile             |                   | L     |     |
| Daily electricity consumption     | Q <sub>elec</sub> | 4.290 | kWh |
| Annual electricity consumption    | AEC               | 945   | kWh |

|                                 |                 |     |   |
|---------------------------------|-----------------|-----|---|
| Water heating energy efficiency | η <sub>wh</sub> | 115 | % |
|---------------------------------|-----------------|-----|---|

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖRKÜYÜSÜ Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manis

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

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

Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

· 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.

# PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

|                                       |               |                              |
|---------------------------------------|---------------|------------------------------|
| Model(s):                             | Outdoor unit: | PUZ-SWM120YAA                |
|                                       | Indoor unit:  | ERST20F-YM9E                 |
| 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 |
|---|----------------------|-------|------|
| Rated heat output (*)   | Prated               | 12.1  | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                      |       |      |
| T <sub>j</sub> = -7°C   | P <sub>dh</sub>      | 7.3   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.99  |      |
| T <sub>j</sub> = +2°C   | P <sub>dh</sub>      | 4.5   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.98  |      |
| T <sub>j</sub> = +7°C   | P <sub>dh</sub>      | 3.9   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.97  |      |
| T <sub>j</sub> = +12°C  | P <sub>dh</sub>      | 5.5   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.97  |      |
| T <sub>j</sub> = bivalent temperature   | P <sub>dh</sub>      | 10.2  | kW   |
| T <sub>j</sub> = operation limit temperature(***)   | P <sub>dh</sub>      | 8.0   | kW   |
| T <sub>j</sub> = -15°C (if TOL < -20°C)   | P <sub>dh</sub>      | 9.9   | kW   |
| Bivalent temperature  | T <sub>biv</sub>     | -16   | °C   |
| Reference design conditions for space heating   | T <sub>designh</sub> | -22   | °C   |
| Power consumption in modes other than active mode   |                      |       |      |
| Off mode  | P <sub>OFF</sub>     | 0.022 | kW   |
| Thermostat-off mode   | P <sub>TO</sub>      | 0.022 | kW   |
| Standby mode  | P <sub>SB</sub>      | 0.022 | kW   |
| Crankcase heater mode   | P <sub>CK</sub>      | 0.000 | kW   |

| Item  | Symbol           | Value | Unit |
|---|------------------|-------|------|
| Seasonal space heating energy efficiency  | η <sub>s</sub>   | 142   | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |       |      |
| T <sub>j</sub> = -7°C   | COP <sub>d</sub> | 3.50  |      |
| T <sub>j</sub> = +2°C   | COP <sub>d</sub> | 4.03  |      |
| T <sub>j</sub> = +7°C   | COP <sub>d</sub> | 5.20  |      |
| T <sub>j</sub> = +12°C  | COP <sub>d</sub> | 7.50  |      |
| T <sub>j</sub> = bivalent temperature   | COP <sub>d</sub> | 1.97  |      |
| T <sub>j</sub> = operation limit temperature(***)   | COP <sub>d</sub> | 1.50  |      |
| T <sub>j</sub> = -15°C (if TOL < -20°C)   | COP <sub>d</sub> | 2.02  |      |
| Operation limit temperature   | TOL              | -25   | °C   |
| Heating water operating limit temperature   | WTOL             | 70    | °C   |
| Supplementary heater  |                  |       |      |
| Rated heat output(*)  | P <sub>sup</sub> | 4.1   | kW   |
| Type of energy input  | Electrical       |       |      |

| Other items                         |                 |         |     |
|-------------------------------------|-----------------|---------|-----|
| Capacity control                    | variable        |         |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 41 / 58 | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 8232    | kWh |

|                               |      |                   |
|-------------------------------|------|-------------------|
| Rated air flow rate, outdoors | 2640 | m <sup>3</sup> /h |
|-------------------------------|------|-------------------|

| For heat pump combination heater: |                   |       |     |
|-----------------------------------|-------------------|-------|-----|
| Declared load profile             | L                 |       |     |
| Daily electricity consumption     | Q <sub>elec</sub> | 4.290 | kWh |
| Annual electricity consumption    | AEC               | 945   | kWh |

|                                 |                 |     |   |
|---------------------------------|-----------------|-----|---|
| Water heating energy efficiency | η <sub>wh</sub> | 115 | % |
|---------------------------------|-----------------|-----|---|

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖKÜYÜ, YOSB Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa / Turkey

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

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

Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

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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: | PUZ-SWM120YAA                   |
|                                       | Indoor unit:  | ERST20F-YM9E                    |
| 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 |
|---|----------------------|-------|------|
| Rated heat output (*)   | Prated               | 12.1  | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                      |       |      |
| T <sub>j</sub> = - 7°C  | P <sub>dh</sub>      | -     | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | -     |      |
| T <sub>j</sub> = + 2°C  | P <sub>dh</sub>      | 12.1  | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 1.00  |      |
| T <sub>j</sub> = + 7°C  | P <sub>dh</sub>      | 7.7   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.99  |      |
| T <sub>j</sub> = + 12°C   | P <sub>dh</sub>      | 5.2   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.98  |      |
| T <sub>j</sub> = bivalent temperature   | P <sub>dh</sub>      | 12.1  | kW   |
| T <sub>j</sub> = operation limit temperature(***)   | P <sub>dh</sub>      | 12.1  | kW   |
| Bivalent temperature  | T <sub>biv</sub>     | 2     | °C   |
| Reference design conditions for space heating   | T <sub>designh</sub> | 2     | °C   |
| Power consumption in modes other than active mode   |                      |       |      |
| Off mode  | P <sub>OFF</sub>     | 0.022 | kW   |
| Thermostat-off mode   | P <sub>TO</sub>      | 0.022 | kW   |
| Standby mode  | P <sub>SB</sub>      | 0.022 | kW   |
| Crankcase heater mode   | P <sub>CK</sub>      | 0.000 | kW   |

| Item  | Symbol           | Value      | Unit |
|---|------------------|------------|------|
| Seasonal space heating energy efficiency  | η <sub>s</sub>   | 157        | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |            |      |
| T <sub>j</sub> = - 7°C  | COP <sub>d</sub> | -          |      |
| T <sub>j</sub> = + 2°C  | COP <sub>d</sub> | 1.95       |      |
| T <sub>j</sub> = + 7°C  | COP <sub>d</sub> | 3.32       |      |
| T <sub>j</sub> = + 12°C   | COP <sub>d</sub> | 5.41       |      |
| T <sub>j</sub> = bivalent temperature   | COP <sub>d</sub> | 1.95       |      |
| T <sub>j</sub> = operation limit temperature(***)   | COP <sub>d</sub> | 1.95       |      |
| Operation limit temperature   | TOL              | -25        | °C   |
| Heating water operating limit temperature   | WTOL             | 70         | °C   |
| Supplementary heater  |                  |            |      |
| Rated heat output(*)  | P <sub>sup</sub> | 0.0        | kW   |
| Type of energy input  |                  | Electrical |      |

| Other items                         |                 |          |     |
|-------------------------------------|-----------------|----------|-----|
| Capacity control                    |                 | variable |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 41 / 58  | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 4046     | kWh |

|                               |  |      |                   |
|-------------------------------|--|------|-------------------|
| Rated air flow rate, outdoors |  | 2640 | m <sup>3</sup> /h |
|-------------------------------|--|------|-------------------|

| For heat pump combination heater: |                   |       |     |
|-----------------------------------|-------------------|-------|-----|
| Declared load profile             |                   | L     |     |
| Daily electricity consumption     | Q <sub>elec</sub> | 3.160 | kWh |
| Annual electricity consumption    | AEC               | 696   | kWh |

|                                 |                 |     |   |
|---------------------------------|-----------------|-----|---|
| Water heating energy efficiency | η <sub>wh</sub> | 158 | % |
|---------------------------------|-----------------|-----|---|

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY ANON İŞTİRLİK VE TİCARET A.Ş. Yabancı Sanayi Bölgeleri Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa

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

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

Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

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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: | PUZ-SWM120YAA                |
|                                       | Indoor unit:  | ERST20F-YM9E                 |
| 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 |
|---|----------------------|-------|------|
| Rated heat output (*)   | Prated               | 12.1  | kW   |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                      |       |      |
| T <sub>j</sub> = - 7°C  | P <sub>dh</sub>      | -     | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | -     |      |
| T <sub>j</sub> = + 2°C  | P <sub>dh</sub>      | 12.1  | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.99  |      |
| T <sub>j</sub> = + 7°C  | P <sub>dh</sub>      | 7.7   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.98  |      |
| T <sub>j</sub> = + 12°C   | P <sub>dh</sub>      | 4.4   | kW   |
| Degradation co-efficient(**)  | C <sub>dh</sub>      | 0.96  |      |
| T <sub>j</sub> = bivalent temperature   | P <sub>dh</sub>      | 12.1  | kW   |
| T <sub>j</sub> = operation limit temperature(***)   | P <sub>dh</sub>      | 12.1  | kW   |
| Bivalent temperature  | T <sub>biv</sub>     | 2     | °C   |
| Reference design conditions for space heating   | T <sub>designh</sub> | 2     | °C   |
| Power consumption in modes other than active mode   |                      |       |      |
| Off mode  | P <sub>OFF</sub>     | 0.022 | kW   |
| Thermostat-off mode   | P <sub>TO</sub>      | 0.022 | kW   |
| Standby mode  | P <sub>SB</sub>      | 0.022 | kW   |
| Crankcase heater mode   | P <sub>CK</sub>      | 0.000 | kW   |

| Item  | Symbol           | Value      | Unit |
|---|------------------|------------|------|
| Seasonal space heating energy efficiency  | η <sub>s</sub>   | 227        | %    |
| Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub> |                  |            |      |
| T <sub>j</sub> = - 7°C  | COP <sub>d</sub> | -          |      |
| T <sub>j</sub> = + 2°C  | COP <sub>d</sub> | 3.10       |      |
| T <sub>j</sub> = + 7°C  | COP <sub>d</sub> | 5.15       |      |
| T <sub>j</sub> = + 12°C   | COP <sub>d</sub> | 7.12       |      |
| T <sub>j</sub> = bivalent temperature   | COP <sub>d</sub> | 3.10       |      |
| T <sub>j</sub> = operation limit temperature(***)   | COP <sub>d</sub> | 3.10       |      |
| Operation limit temperature   | TOL              | -25        | °C   |
| Heating water operating limit temperature   | WTOL             | 70         | °C   |
| Supplementary heater  |                  |            |      |
| Rated heat output(*)  | P <sub>sup</sub> | 0.0        | kW   |
| Type of energy input  |                  | Electrical |      |

| Other items                         |                 |          |     |
|-------------------------------------|-----------------|----------|-----|
| Capacity control                    |                 | variable |     |
| Sound power level, indoors/outdoors | L <sub>WA</sub> | 41 / 58  | dB  |
| Annual energy consumption           | Q <sub>HE</sub> | 2809     | kWh |

|                               |  |      |                   |
|-------------------------------|--|------|-------------------|
| Rated air flow rate, outdoors |  | 2640 | m <sup>3</sup> /h |
|-------------------------------|--|------|-------------------|

| For heat pump combination heater: |                   |       |     |
|-----------------------------------|-------------------|-------|-----|
| Declared load profile             |                   | L     |     |
| Daily electricity consumption     | Q <sub>elec</sub> | 3.160 | kWh |
| Annual electricity consumption    | AEC               | 696   | kWh |

|                                 |                 |     |   |
|---------------------------------|-----------------|-----|---|
| Water heating energy efficiency | η <sub>wh</sub> | 158 | % |
|---------------------------------|-----------------|-----|---|

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖKÜYÜ, YOSB Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa

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Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

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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.