



Mitsubishi Electric Erp Directive Related Product Information: erp.mitsubishielectric.eu/erp

PRODUCT FICHE

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 813/2014.

1.SPACE HEATER 22 17 18 25 4 6 8 Ratech heat output under service and conditions output professions out Read has began under warmer compared over discovery selection of the confidence selection of the confidence selection of the confidence selection of the confidence confidence that confidence the confidence confidence that confiden Low-temperature application
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| | ERSD-****D | ✓ A++ 14 142 7965 41 14 14 116 158 11617 4649 58 ✓ A+++ 14 184 6172 41 14 14 154 230 8807 3212 58 | |
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| 2.COMBINATION HEAT | | For medium-temperature application | For low-temperature application |
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| | ERST17D-****D | ✓ L A++ A+ 6 3779 880 128 134 41 - 6 6 5147 2027 1060 846 112 155 105 135 54 ✓ L A+++ A+ 6 2646 880 18 | 184 134 41 - 6 6 4251 1453 1060 846 136 218 105 135 54 |
| | ERST17D-***BD | ✓ L A++ A+ 6 3779 880 128 134 41 - 6 6 5147 2027 1060 846 112 155 105 135 54 ✓ L A+++ A+ 6 2646 880 18 | 184 134 41 - 6 6 4251 1453 1060 846 136 218 105 135 54 |
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| | ERST20D-****D | | 184 134 41 - 6 6 4251 1453 1044 841 136 218 109 139 54 |
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| | EHST30D-****D | | |
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| | ERST30D-****D | | 178 123 41 - 12 12 8257 2816 1759 1176 141 227 98 149 58 |
| | EHST20D-****D | | 176 134 41 - 12 12 8316 2922 1044 841 140 218 109 139 58 |
| PUZ-SWM120YAA | ERST20D-****D | | 178 134 41 - 12 12 8267 2825 1044 841 141 226 109 139 58 |
| | EHST30D-****D | | 176 123 41 - 12 12 8316 2922 1759 1176 140 218 98 149 58 |
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| | EHST20D-****D | ✓ L A++ A+ 14 8438 965 134 123 41 - 14 14 8438 965 174 123 41 - 14 12843 4893 1070 888 104 150 105 130 58 ✓ L A+++ A+ 14 6483 965 176 | 175 123 41 - 14 14 10250 3367 1070 888 132 219 105 130 58 |
| PUZ-SWM140VAA | ERST20D-****D | ✓ L A++ A+ 14 8383 965 135 123 41 - 14 12810 4826 1070 888 105 152 105 130 58 ✓ L A+++ A+ 14 6428 965 17 | 177 123 41 - 14 14 10217 3301 1070 888 132 224 105 130 58 |
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| PUZ-SHWM60VAA | EHST20D-****D | | 184 134 41 - 6 6 4202 1437 1044 841 138 220 109 139 54 |
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| | EHST30D-****D | ✓ XL A++ A+ 6 3761 1417 129 123 41 - 6 6 4993 1980 1759 1176 115 159 98 149 54 ✓ XL A+++ A+ 6 2655 1417 18 | 184 123 41 - 6 6 4202 1437 1759 1176 138 220 98 149 54 |
| | ERST30D-****D | ✓ XL A++ A+ 6 3706 1417 131 123 41 - 6 6 4960 1914 1759 1176 116 165 98 149 54 ✓ XL A+++ A+ 6 2600 1417 18 | 188 123 41 - 6 6 4168 1371 1759 1176 139 231 98 149 54 |
| | EHST17D-****D | ✓ L A++ A+ 8 4904 880 132 134 41 - 8 8 6705 2521 1060 846 115 167 105 135 54 ✓ L A+++ A+ 8 3530 880 18 | 184 134 41 - 8 8 5299 1874 1060 846 146 225 105 135 54 |
| | ERST17D-***D | ✓ L A++ A+ 8 4849 880 133 134 41 - 8 8 6672 2454 1060 846 115 171 105 135 54 ✓ L A+++ A+ 8 3475 880 18 | 187 134 41 - 8 8 5266 1808 1060 846 147 233 105 135 54 |
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| | ERST17D-****D | | 187 134 41 - 8 8 5284 1823 1060 846 146 232 105 135 54 |
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| | EHST20D-****D | | 181 134 41 - 10 10 6508 2276 1044 841 149 232 109 139 58 |
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| PUZ-SHWM100YAA | ERST20D-****D | | 185 134 41 - 10 10 6459 2179 1044 841 150 242 109 139 58 |
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| PUZ-SHWM120VAA | ERST20D-****D | | 181 134 41 - 12 12 7810 2687 1044 841 150 238 109 139 58 |
| | EHST30D-****D | ✓ XL A++ A+ 12 7169 1417 136 123 41 - 12 9902 3952 1759 1176 117 161 98 149 58 ✓ XL A+++ A+ 12 5481 1417 17 117 12 12 12 12 12 12 12 14 12 14 14 12 14 12 14 14 12 14 1 | 179 123 41 - 12 12 7843 2753 1759 1176 149 232 98 149 58 |
| | ERST30D-****D | ✓ XL A++ A+ 12 714 1417 138 123 41 - 12 12 9869 386 1759 1176 118 163 98 149 58 ✓ XL A++ A+ 12 5426 1417 18 | 181 123 41 - 12 12 7810 2687 1759 1176 150 238 98 149 58 |
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| 1 | ERST30D-****D | | 181 123 41 - 12 12 7819 2696 1759 1176 150 237 98 149 58 |
| — | EHST20D-****D | | 183 123 41 - 14 14 8841 3279 1070 888 153 225 105 130 58 |
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| | EHST30D-****D | | 183 |
| | ERST30D-****D | | 184 114 41 - 14 14 8807 3212 1755 1434 154 230 104 130 58 |
| | EHST20D-****D | | 182 123 41 - 14 14 8865 3319 1070 888 153 222 105 130 58 |
| PUZ-SHWM140YAA | ERST20D-****D | | 184 123 41 - 14 14 8816 3222 1070 888 154 229 105 130 58 |
| 1 | EHST30D-****D | ✓ XL A++ A 14 8055 1610 141 114 41 - 14 11674 4757 1755 1434 115 154 104 130 58 ✓ XL A+++ A 14 6262 1610 18 | 182 114 41 - 14 14 8865 3319 1755 1434 153 222 104 130 58 |

| η σταθμη ηχητικής ισχυός L _{ww} εξωτερικου χωρου | O nivel de potencia sonora L _{WA} , no exterior n poziom mocy akustycznej L _{WA} , na zewnątrz - | lydelfektniveau L $_{WA}$ i иde нивото на звуковата мощност L $_{WA}$ на открито | Ljudelfektinvan L _{WA} , utomnus Inladina akustického výkonu L _{WA} ve venkovním prostoru | 25 fiet geliudsvermogensniveau L _{WA} bullen äänitehotaso L _{WA} ulkona |
|---|--|--|--|---|
| el nivel de potencia acústica L _{WA} en exteriores | | | der Schallleistungspegel L _{WA} im Freien | So |
| η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες - | a eficiência energética do aquecimento de água em condições climáticas mais quentes que efektywność energetyczna podgrzewania wody w warunkach klimatu ciepłego - | energieffektiviteten ved vandopvarmning under varmere kilmaforhold енергийната ефективност при подгряване на вода при по-топли климатични условия | Energieffektivítet víd vattenuppvärmning under varmare klimatförhállanden energetická účinnost ohřevu vody za teplejších klimatických podmínek | 24 de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa |
| la eficiencia energética de caldeo de agua en condiciones climáticas más cálidas | l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più calde la | l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes | die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen | Water heating energy efficiency under warmer climate conditions |
| η ενεργειακή απόδοση της θέρμανσης νερού υπό ψυχρότερες κλιματικές συνθήκες - | a eficiência energética do aquecimento de água em condições climáticas mais frias n efektywność energetyczna podgrzewania wody w warunkach klimatu chłodnego | energieffektiviteten ved vandopvarmning under koldere klimaforhold енергийната ефективност при подгряване на вода при по-студени климатични услови | Energieffektivitet vid vattenuppvärmning under kallare klimatförhållanden energetická účinnost ohfevu vody za chladnéjších klimatíckých podmínek | 23 <u>de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden</u> vedenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa |
| la eficiencia energética de caldeo de agua en condiciones climáticas más frías | refficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde la | l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides | die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen | Water heating energy effic |
| | sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu ciepł edo | сезонната енергийна ефективност при отопление при по-топли климатични условия | sezonní energetická účinnost vytápění za teplejších klimatických podmínek | tilalämmityksen kausittainen energiatehokkuus lämpimissä ilmasto-olosuhteissa |
| η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό θερμότερες κλιματικές συνθή κες | Cariue A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais nuentes | umadupes plus criadues årsvirkningsgraden ved rumopvarmning under varmere klimaforhold | Säsongsmedelverkningsgrad för rumsuppvärmning under varmare klimatförhållanden | de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden |
| la eficiencia energética estacional de calefacción en condiciones climáticas más cálidas | oonego Tefficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più la | l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions | die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen | Seasonal space heating energy efficiency under warmer climate conditions |
| - 188 | ırıds 1 sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu chi | сезонната енергийна ефективност при отопление при по-студени климатични условия | sezonní energetická účinnost vytápění za chladnějších klimatických podmínek | kiiridadunistariugineueri tilalämmityksen kausittainen energiatehokkuus kylmissä ilmasto-olosuhteissa |
| η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό ψυχρότερες κλιματικές συνθή | nreduce A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais nredicas mais no frances de constitues de consti | dinimatiques plus trotues arsvirkningsgraden ved rumopvarmning under koldere klimaforhold | Säsongsmedelverkningsgrad för rumsuppvärmning under kallare klimatförhållanden | de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder koudere |
| la eficiencia energética estacional de calefacción en condiciones climáticas más frías | stagionale di riscaldamento d'ambiente in condizioni climatiche più | атични условия l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions | die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen | Seasonal space heating energy efficiency under colder climate conditions |
| συνθήκες - | mais quentes u odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej w warunkach - telephonologiczne warunkach | за подгряване на вода, годишното потребление на електроенергия при по-топли клим | pro ohřev vody – roční spotřeba elektrické energie za teplejších klimatických podmínek | klima |
| lidas για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές | | ques plus chaudes dopvarmning det årl | ssen r vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden | se elektriciteitsverbruik onder warm |
| para calentar agua, el consumo anual de electricidad en condiciones climáticas más cá | chłodnego scaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più | 'eau, la consommation annuelle d'électricité, dans les cor | rmwas | For water heating, annual energy consumption under warmer climate conditions |
| C anglyks? | mais fras w odniesieniu do nodorzewania wody roczne zużycje energii elektrycznej w warunkach w odniesieniu do nodorzewania wody roczne zużycje energii elektrycznej w warunkach | за полгожнами высоктатурном поступени кп | nro ohřev vodv – roční spotřeha elektrické energie za chladněších klimatických podmínek | 19 |
| para carentar aguat, el consumo anual de electricidad en condiciones cimaticas mas mas via θέρμανση νερού, η επήσια καταγάλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικέ | anamento dei acqua, il consumo anuto di energia, in condizioni cimaticas più all'empero de acqua, o consumo anutal de eletricidade em condicões climáticas | pour le criadurage de l'edu, la consommation annuelle d'electricite, dans les conditions climatiques plus froides for vandopyarming det àrlige elforbrug under koldere klimatorhold | ur die warinwasserbeteilung, der Janniche Sciontwerbrauch der kalteren Nimaverna Itnissen För vattenupwärmning, ärlig elförbrukning under kallare klimatförhållanden | < 1 7 |
| | ergii w warunkach klimatu | потребление на енергия при по-топли клиг | êní – roční spotřeba energie za teplejších klimatických podmínek | jiankulutus lämpimissä ilmast |
| για θέρμανση χώρου, η επήσια κατανάλωση ενέργειας υπό θερμότερες κλιματικές συνθήκες | Para o aquecimento ambiente, o consumo anual de energia em condições climáticas mais violentes | for rumopvarmning det årlige energiforbrug under varmere klimaforhold | För rumsuppvärmning, årlig energiförbrukning under varmare klimatförhållanden | 18 voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden |
| para calentar espacios, el consumo anual de energía en condiciones climáticas más cá lidas | idamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più | pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes | für die Raumheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen | For space heating, annual energy consumption under warmer climate conditions |
| | mas w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii w warunkach klimatu ch łodneco | за отопление, годишното потребление на енергия при по-студени климатични услови я | pro vytápění – roční spotřeba energie za chladnější klimatických podmínek | tilalämmityksestä vuotuinen energiankulutus kylmissä ilmasto-olosuhteissa |
| για θέρμανση χώρου, η επήσια κατανάλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες | ucimento ambiente, o consumo anual de energia em condições climáticas mais | for rumopvarmning det årlige energiforbrug under koldere klimaforhold | För rumsuppvärmning, årlig energiförbrukning under kallare klimatförhållanden | 17 voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere |
| para calentar espacios, el consumo anual de energía en condiciones climáticas más frías | scaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più | normalizario romania modifica i par normalizario nun si materna in processo pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froibes | für die Raumheizung, der jährliche Energieverbrauch bei kälteren Klimaverhältnissen | For space heating, annual energy consumption under colder climate conditions |
| η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες - | A potência calorifica nominal em condições climáticas mais quentes namionowa mos cientra w warmkach klimátir cientego | den nominelle nytteeffekt under varmere klimaforhold | Nominell avgiven värmeeffekt vid varmare klimatförhållanden Imenovitý tenelný výkon za teoleiších klimatických nodmínek | 16 de nominale warmteafgifte, onder warmere klimaatomstandigheden nimellisjännöteho jämnimissä ilmastruoksuhteissa |
| la potencia calorífica nominal en condiciones climáticas más cálidas | znamionowa moc cieplna w warunkach Klimatu chłodnego - la potenza termica nominale, in condizioni climatiche più calde la | номиналната топлинна мощност при по-студени климатични условия la puissance thermique nominale, dans les conditions climatiques plus chaudes | jmenovitý tepelný výkon za chladnějších klimatických podmínek die Wärmenennleistung bei wärmeren Klimaverhältnissen | nimellislämpöteho, kylmissä ilmasto-olo Rated heat output under warmer climate |
| la potencia calorífica nominal en condiciones climáticas más frías η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες | la potenza termica nominale, in condizioni climatiche più fredde A potência calorifica nominal em condições climáticas mais frias n | la puissance thermique nominale, dans les conditions climatiques plus froides den nominelle nytteeffekt under koldere klimaforhold | die Wärmenennleistung bei kälteren Klimaverhältnissen Nominell avgiven värmeeffekt vid kallare klimatförhållanden | Rated heat output under colder climate conditions 15 de nominale warmteafgifte, onder koudere klimaatomstandigheden |
| νειιουργια μονο εκτος των ωρων αιχμής | de unicional unicamente rora das noras de pico pracować jedynie w godzinach poza szczyłowym obciążeniem | работи само в часовете извън върховото натоварване | provozu pouze mimo špičku | 14 Weirkeit utsitulieria in de daturen toimimaan ainoastaan kulutushuippujen ulkopuolella |
| funcionar solamente durante las horas de baja demanda | funzione soltanto durante fe ore morte | fonctionner qu'en l'entre creuses | dass ein ausschließlicher Betrieb des Kombineizgerätes zu Schwachlastzeiten | Work only during of speak hours |
| η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου | O nivel de potência sonora L _{WA} on interior noviem moru abutuvana i w nomisezozani | lydefickriveauet L _{Wk} i inde | Ljudeffektivisk _{IVM} , i noordoori Ljudeffektivisk _{IVM} , i noordoori Hadina akuslisk bho vikrout I ve vnijfnim noostoni | 13 het geluidsvermoşensiveau L _{WA} binnen äänitahotaso I skällä äänitahotaso I skällä |
| e nivel de notencia adistica I en interiores | l all'interno | le niveau de puissance acoustique à l'intérieur | der Schallleistungsnegel I in Gehällden | Sound nower level I, indoor |
| η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) - | a eficiência energética do aquecimento de água(em condições climáticas médias) neficiêntivemos energetica do aquecimento de água(em condições climáticas médias) neficiêntivemos energeticas poddrzewania wody/w warunkach klimatu umiarkowanego) | energieffekt/witeten ved vandopvarmning(under gennemsnitilge klimaforhold) енергийната ефективност при подпояване на вода(при средни климатични условия) | Energieffektivítet vid vattenuppvärmning(vid genomsnittliga klimatförhállanden) energelická účinnost phřevu vodv za průměrných klimatických podmínek | 12 de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden) vedenlämmityksen energiatehokkuus(keskimääräisissä ilmasto-olosuhteissa) |
| la eficiencia energética del caldeo de agua(en condiciones climáticas medias) | si riscaldamento dell'acqua(in condizioni climatiche medie) | l'efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques | die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen | Water heating energy efficiency under average climate conditions |
| | dias) sezonowa efektywność energetyczna ogrzewania pomieszczeń(w warunkach klimatu - | сезонната енергийна ефективност при отопление(при средни климатични условия) | natických podmínek | klimaatomstandigheden) tilalämmityksen kausittainen energia |
| η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου(υπό μέσες κλιματικές συνθήκες) | medie) A eficiência energética do aquecimento ambiente sazonal(em condições climáticas mé n | climatiques moyennes) årsvirkningsgraden ved rumopvarmning(under gennemsnitlige klimaforhold) | ltnissen Säsongsmedelverkningsgrad för rumsuppvärmning(vid genomsnittliga klimatförhållanden) | de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde |
| la eficiencia energética estacional de calefacción(en condiciones climáticas medias) |) itagionale di riscaldamento d'ambiente(in condizioni climatiche | ique saisonnière pour le chauffage des locaux(dans les con | jahreszeitbedingte Raumhelzungs-Energieeffizienz bei durchschnittlichen Klimavi | / efficiency under average climate conditions |
| αυνθήκες) - | do podgrzewania wody, roczne zużycie energii elektrycznej(w warunkach | за подгряване на вода, годишното потребление(при средни климатични условия) | ohřev vody – roční spotřeba elektrické energie za průměrných klimatický | klimaatomstandigheden) vedenlämmityksestä vuotuinen sähk |
| για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(υπό μέσες κλιματικές | _ | climatiques moyennes) for vandopvarmning det årlige efforbrug(under gennemsnitlige klimaforhold) | lförbrukning(vi | ıt jaarlijkse elektriciteitsverbruik(onder gemiddel |
| para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias) | nto dell'acqua, il consumo annuo di energia(in condizioni climatiche medie) | onsommation annuelle d'électricité(| die Warmwasserbereitung, den jährlichen Stromverbrau | under averaç |
| | | за отопление, годишното потребление на енергия(при средни климатични условия) | pro vytápění – roční spotřeba energie za průměrných klimatických podmínek | ltilalämmityksestä vuotuinen energiankulutus(keskimääräisissä ilmasto-olosuhteissa) |
| για τη θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας(υπό μέσες κλιματικές συνθήκες) | energia(em condições climáticas mé | orhold) |), årlig energiförbrukning(vid genomsnittliga klimatförhållanden) | voor ruimteverwarming, het jaarlijkse energieverbruik(|
| - para calentar espacios, el consumo anual de energía(en condiciones climáticas medias) | znamionowa moc cieplna(w warunkach klimatu umiarkowanego) per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche pa | номиналната топлинна мощност(при средни климатични условия) pour le chauffage des locaux, la consommation annuelle d'énergie(dans les conditions | jmenovitý tepelný výkon(za průměrných klimatických podmínek) für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhä | nimellislämpöteho(keskimääräisissä ilmasto-olosuhteissa) For space heating, annual energy consumption under average climate conditions |
| la potencia calorífica nominal(en condiciones climáticas medias) η ονομαστική θερμική ισχύς(υπό μέσες κλιματικές συνθήκες) | la potenza termica nominale(in condizioni climatiche medie) la Potenzia calorifica nominal(em condições climáticas médias) n | la puissance thermique nominale dans les conditions climatiques moyennes den nominelle nytteeffekt(under gennemsnitige klimaforhold) | die Wärmenenleistung bei durchschnittlichen Klimaverhältnissen Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden) | Rated heat output under average climate conditions de nominale warmteafgifte(onder gemiddelde klimaatomstandigheden) |
| η ταξη ενεργετικής αποοσσής θερμανσής νερου | A ciasse de enciencia energenca do aquecimento de agua n A ciasse de enciencia energencia de aquecimento de agua n - kiasa efektywności energencia podgrzewania wody - r | класът на енергийната ефективност при подгряване на вода | energierrektivítetsklass via vattenuppvarmning třída energetické účinnosti ohřevu vody | de energie-efficienteklasse voor waterverwarming vedenlämmityksen energiatehokkuusluokka |
| la clase de eficiencia energética del caldeo de agua | la classe di efficienza energetica del riscaldamento dell'acqua | la classe d'efficacité énergétique, pour le chauffage de l'eau | die Klasse für die Warmwasserbereitungs-Energieeffizienz | Water heating energy efficiency |
| η τάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου | A classe de eficiência energética do aquecimento a ambiente saconal A classe de eficiência energética do aquecimento a ambiente saconal A classe de eficiência energética do acceptancia conscionario de la conscionario della conscionario del | klassen for ársvírkningsgrad ved rumopvarmning och orazona sa so ococarsona och orazona och ocazona ocazona och oc | säsongsrelaterade energifektivitetsklass vid rumsuppvärmning | 6 de seizoensgebonden energie-efficiëntelkasse voor ruimteverwarming |
| la clase de eficiencia energética estacional de calefacción | Deklarowany profil obciążeń - la cłasse di efficienza enernetica stanionala del riscaldamento d'ambiente la | Обявен товаров профил а classe d'afficacité épernétique saisonnière nour le chauffage des locaux | Deklarovaný zátěžový profil die Klasse fiir die jehreszeithedingte Raumheizungs-Energieeffizienz | Ilmoitettu kuormitusprofiili |
| Perfil de carga declarado Δηλωμένο προφίλ φορτίου | Profilo di carico dichiarato Profilo de carga declarado Δ | Profil de soutirage déclaré Angivet forbrugsprofil | Angegebenes Lastprofil Deklarerad belastningsprofil | Declared load profile 5 Opgegeven capaciteitsprofiel |
| η εφαρμογή σε χαμηλή θερμοκρασία - | a aplicação a baixa temperatura zastosowania w niskich temperaturach - | lavlemperaturanvendelsen нискотемпературни приложения | lägtemperaturapplikation nizkoteplotni aplikace | 4 lagetemperatuur-toepassing matalanlämpötilan sovellus |
| la aplicación de baja temperatura | zastosowania w srednich temperaturach le applicazioni a bassa temperatura la | среднотемпературното приложение l'application à basse température | Strednetepiotri aplikace Niedertemperaturanwendung | Low-temperature application |
| η εφορμογή σε μέση θερμοκρασία | le applicazioni a media temperatura a aplicação a média temperatura n | riapplication a moyenne temperature middeltemperaturanvendelsen | Mitteltemperaturanwendung mediumtemperaturapplikation | Medium-temperature application middentemperatuur-toepassing |
| | jednostka wewnętrzna | Вътрешно тяло | Vnitřní jednotka | Sisäyksikkö |
| unidad interior Εσωτερική μονάδα | unità interna unidade interior E. | unité intérieure Indendørs enhed | Innengerät Inomhusenhet | Indoor unit binnenunit |
| Εξωτερική μονάδα | unidade exterior E: | Udendørs enhed Behulho 19/10 | Utomhusenhet Venkovní jednotka | 1 buitenunit Ulkoyksikkö |
| Lunidad exterior | Polski - unità esterna un | Български unité extérieure | Čeština Außengerät | suomi Outdoor unit |
| Español Ελληνικά | Italiano E. Português E. | Français Dansk | Deutsch Svenska | English Nederlands |
| | <u>, </u> | | | |
| | | | | I MINISORE (EXC |

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | |
|---|-------------------|-------------|------------|---|---------------|------------------|---------------|
| | | Indoor unit | : | EHST20D-****D | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | yes | | | |
| Heat pump combination heater: | | | | yes | | | |
| Parameters for | | | | medium-temperature application. | | | |
| Parameters for | | | | average climate conditions. | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | η s | 135 | % |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prim | ary energy | ratio for | |
| temperature 20 °C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor ter | mperature Tj | |
| Tj = − 7 ° C | Pdh | 8. 9 | kW | Tj = − 7 ° C | COPd | 2. 19 | _ |
| Degradation co-efficient (**) | Cdh | 1. 00 | - | | | | |
| Tj = + 2 ° C | Pdh | 5. 4 | kW | Tj = + 2 ° C | COPd | 3. 38 | _ |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = + 7 ° C | Pdh | 4. 8 | kW | Tj = + 7 ° C | COPd | 4. 62 | - |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | |
| Tj = +12 ° C | Pdh | 2. 9 | kW | Tj = +12 ° C | COPd | 6. 30 | - |
| Degradation co-efficient (**) | Cdh | 0. 95 | - | | | | |
| Tj = bivalent temperature | Pdh | 10. 0 | kW | Tj = bivalent temperature | COPd | 1. 69 | _ |
| Tj = operation limit temperature (***) | Pdh | 10.0 | kW | Tj = operation limit temperature (***) | COPd | 1. 69 | - |
| Bivalent temperature | Tbiv | -10 | ° C | Operation limit temperature | TOL | -30 | ° C |
| Reference design conditions for space | Tdesignh | -10 | ° C | Heating water operating limit | WTOL | 60 | ° C |
| heating Power consumption in modes other than | active mo | de | | temperature Supplementary heater | | <u> </u> | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Thermostat-off mode | P _{T0} | 0. 022 | kW | | | ! ! | |
| Standby mode | P_SB | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P _{CK} | 0. 000 | kW | | | | |
| Other items | | 1 | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 5972 | kWh | | | | |
| For heat pump combination heater: | | • | | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 134 | % |
| Daily electricity consumption | Qelec | 4. 080 | kWh | | | | |
| Annual electricity consumption | AEC | 898 | kWh | | | | |
| Contact details | | • | | | | | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | u Bulvari No: | 19 Yunusemre - M | lanisa, Turke |
| The identification and signature of the | e person | empowered 1 | to bind th | | | | |
| 育藤健一 | | | | Kenichi SAITO Manager, Quality Assuarance Department | | | |
| M WAR DE - | | | | TURKEY | | | |

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

^(**) 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.

| Model(s): Outdoor unit: | | | | PUZ-SHWM100YAA | | | | |
|---|-------------------|--------------|--------------|---|---------------|-------------------|---------------|--|
| | | Indoor unit | : | EHST20D-****D | | | | |
| Air-to-water heat pump: | | | | yes | | | | |
| Water-to-water heat pump: | | | | no | | | | |
| Brine-to-water heat pump: | | | | no | | | | |
| Low-temperature heat pump: | | | | no | | | | |
| Equipped with a supplementary heater: | | | | yes | | | | |
| Heat pump combination heater: | | | | yes | | | | |
| Parameters for | | | | low-temperature application. | | | | |
| Parameters for | | | | average climate conditions. | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 181 | % | |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prim | ary energy | ratio for | | |
| temperature 20 ° C and outdoor temperat | ture T j | | | part load at indoor temperature 20 ° C and | outdoor ter | mperature Tj | | |
| Tj = - 7 ° C | Pdh | 8. 9 | kW | Tj = - 7 ° C | COPd | 3. 10 | - | |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | | |
| Tj = + 2 ° C | Pdh | 5. 4 | kW | Tj = + 2 ° C | COPd | 4. 62 | - | |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | | |
| Tj = + 7 ° C | Pdh | 5. 2 | kW | Tj = + 7 ° C | COPd | 6. 00 | - | |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | | |
| Tj = +12 ° C | Pdh | 3. 2 | kW | Tj = +12 ° C | COPd | 6. 96 | - | |
| Degradation co-efficient (**) | Cdh | 0. 95 | _ | | | | | |
| Tj = bivalent temperature | Pdh | 10. 0 | kW | Tj = bivalent temperature | COPd | 2. 49 | - | |
| Tj = operation limit temperature (***) | Pdh | 10. 0 | kW | Tj = operation limit temperature (***) | COPd | 2. 49 | - | |
| | | | | | | | | |
| Bivalent temperature | Tbiv | -10 | ° C | Operation limit temperature | TOL | -30 | °C | |
| Reference design conditions for space heating | Tdes i gnh | -10 | ° C | Heating water operating limit temperature | WTOL | 60 | °C | |
| Power consumption in modes other than | active mo | ode | | Supplementary heater | | | | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW | |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | <u> </u> | | |
| Standby mode | P_{SB} | 0. 022 | kW | Type of energy input | | Electrical | | |
| Crankcase heater mode | P _{CK} | 0. 000 | kW | | | | | |
| Other items | | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | _ | 2640 | m³/h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 4480 | kWh | | | | | |
| For heat pump combination heater: | | | | | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 134 | % | |
| Daily electricity consumption | Qelec | 4. 080 | kWh | | | | | |
| Annual electricity consumption | AEC | 898 | kWh | | | | | |
| Contact details | | | ' | | | | | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | u Bulvari No: | 19 Yunusemre - Ma | anisa, Turkey | |
| The identification and signature of th | ne person | empowered t | to bind the | e supplier; Kenichi SAITO | | | | |
| The signature is signed in the average cli | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | | | | |
|--|-------------------|----------------|--------------|--|----------------|-------------------|---------------|--|--|--|
| | | Indoor unit | :: | EHST20D-****D | | | | | | |
| Air-to-water heat pump: | | | | yes | | | | | | |
| Water-to-water heat pump: | | | | no | | | | | | |
| Brine-to-water heat pump: | | | | no | | | | | | |
| Low-temperature heat pump: | | | | no | | | | | | |
| Equipped with a supplementary heater: | | | | yes | | | | | | |
| Heat pump combination heater: | | | | yes | | | | | | |
| Parameters for | | | | medium-temperature application. | | | | | | |
| Parameters for | | | | colder climate conditions. | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | | | |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 116 | % | | | |
| Declared capacity for heating for part | load at | indoor | I | Declared coefficient of performance or prim | ary energy | ratio for | | | | |
| temperature 20 °C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | | | | |
| Tj = − 7 ° C | Pdh | 6. 1 | kW | Tj = - 7 ° C | COPd | 2. 62 | - | | | |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | | | | |
| Tj = + 2 ° C | Pdh | 4. 0 | kW | Tj = + 2 ° C | COPd | 3. 50 | _ | | | |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | | | | |
| Tj = + 7 ° C | Pdh | 3. 8 | kW | Tj = + 7 ° C | COPd | 4. 59 | - | | | |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | | | | |
| Tj = +12 ° C | Pdh | 4. 4 | kW | Tj = +12 ° C | COPd | 6. 88 | _ | | | |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | | | | |
| Tj = bivalent temperature | Pdh | 8. 4 | kW | Tj = bivalent temperature | COPd | 1. 57 | _ | | | |
| Tj = operation limit temperature (***) | Pdh | 8. 0 | kW | Tj = operation limit temperature (***) | COPd | 1. 59 | - | | | |
| Tj = -15 ° C (if $TOL < -20$ ° C) | Pdh | 8. 2 | kW | Tj = - 15 ° C (if TOL < - 20 ° C) | COPd | 1. 57 | - | | | |
| Bivalent temperature | Tbiv | -16 | ° C | Operation limit temperature | TOL | -30 | ° C | | | |
| Reference design conditions for space heating | Tdes i gnh | -22 | ° C | Heating water operating limit temperature | WTOL | 60 | ° C | | | |
| Power consumption in modes other than | active mo | ode | | Supplementary heater | | | | | | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 2. 0 | kW | | | |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | | | | | |
| Standby mode | P_SB | 0. 022 | kW | Type of energy input | | Electrical | | | | |
| Crankcase heater mode | P _{CK} | 0. 000 | kW | | | | | | | |
| Other items | | • | | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | _ | 2640 | m^3/h | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 8298 | kWh | | | | | | | |
| For heat pump combination heater: | | | , | | | | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 109 | % | | | |
| Daily electricity consumption | Qelec | 4. 750 | kWh | | | | | | | |
| Annual electricity consumption | AEC | 1044 | kWh | | | | | | | |
| Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | NUEACTURING T | TIDKEN TUTNE C | TOCK COMPANY | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor | lu Rulvari No: | 10 Vununomro - I | Janica Turkov | | | |
| The identification and signature of the | | | | | u Duivari NO. | iv iunusenire - N | namoa, Turkey | | | |
| as and orginates of the | 201 3011 | p = 1101 Ou | -> > ma til | Kenichi SAITO | | | | | | |
| The signature is signed in the average clim | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model(s): | Outdoor uni | t: | PUZ-SHWM100YAA | | | | |
|---|-------------------|---------------|----------------|---|--------------|-------------------|---------------------|
| | | Indoor unit | : | EHST20D-****D | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | yes | | | |
| Heat pump combination heater: | | | | yes | | | |
| Parameters for | | | | low-temperature application. | | | |
| Parameters for | | | | colder climate conditions. | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | η s | 149 | % |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prim | ary energy | ratio for | |
| temperature 20 °C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | |
| Tj = - 7 ° C | Pdh | 6. 2 | kW | Tj = - 7 ° C | COPd | 3. 71 | - |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = + 2 ° C | Pdh | 4. 1 | kW | Tj = + 2 ° C | COPd | 4. 35 | - |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | |
| Tj = + 7 ° C | Pdh | 3. 9 | kW | Tj = + 7 ° C | COPd | 5. 34 | - |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | |
| Tj = +12 ° C | Pdh | 4. 5 | kW | Tj = +12 ° C | COPd | 7. 50 | - |
| Degradation co-efficient (**) | Cdh | 0. 96 | - | | | | |
| Tj = bivalent temperature | Pdh | 8. 4 | kW | Tj = bivalent temperature | COPd | 2. 00 | - |
| Tj = operation limit temperature (***) | Pdh | 7. 7 | kW | Tj = operation limit temperature (***) | COPd | 1. 57 | - |
| Tj = - 15 $^{\circ}$ C (if TOL $<$ - 20 $^{\circ}$ C) | Pdh | 8. 2 | kW | Tj = - 15 $^{\circ}$ C (if TOL $<$ - 20 $^{\circ}$ C) | COPd | 2. 00 | - |
| Bivalent temperature | Tbiv | -16 | ° C | Operation limit temperature | T0L | -30 | ° C |
| Reference design conditions for space heating | Tdes i gnh | -22 | °C | Heating water operating limit temperature | WTOL | 60 | ° C |
| Power consumption in modes other than | active mo | ode | | Supplementary heater | | " | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 2. 3 | kW |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | * | |
| Standby mode | P_{SB} | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P_{CK} | 0.000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | ${\rm m}^3/{\rm h}$ |
| Sound power level, indoors/outdoors | L_{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 6508 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 109 | % |
| Daily electricity consumption | Qelec | 4. 750 | kWh | | | | |
| Annual electricity consumption | AEC | 1044 | kWh | | | | |
| Contact details | NUITA OTUR | TUDICEN IONIE | TOOK COMP | W | D. 1 | .10 V | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | u Bulvari No | :19 Yunusemre - M | Manisa, Turkey |
| The identification and signature of th | e person | empowered 1 | ro bina th | e supplier; Kenichi SAITO | | | |
| The signature is signed in the average clim | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | |
|--|-------------------|-----------------|--------------|--|----------------|-------------------|---------------------|
| | | Indoor unit | : | EHST20D-****D | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | yes | | | |
| Heat pump combination heater: | | | | yes | | | |
| Parameters for | | | | medium-temperature application. | | | |
| Parameters for | | | | warmer climate conditions. | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 162 | % |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prim | ary energy | ratio for | |
| temperature 20 ° C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | |
| Tj = - 7 ° C | Pdh | - | kW | Tj = − 7 ° C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | | | | |
| Tj = + 2 ° C | Pdh | 10. 0 | kW | Tj = + 2 ° C | COPd | 2. 10 | - |
| Degradation co-efficient (**) | Cdh | 1. 00 | - | | | | |
| Tj = + 7 ° C | Pdh | 6. 4 | kW | Tj = + 7 ° C | COPd | 3. 53 | - |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = +12 ° C | Pdh | 4. 2 | kW | Tj = +12 ° C | COPd | 5. 75 | - |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | |
| Tj = bivalent temperature | Pdh | 10.0 | kW | Tj = bivalent temperature | COPd | 2. 10 | - |
| Tj = operation limit temperature (***) | Pdh | 10.0 | kW | Tj = operation limit temperature (***) | COPd | 2. 10 | - |
| | | | | | | | |
| Bivalent temperature | Tbiv | 2 | ° C | Operation limit temperature | T0L | -30 | ° C |
| Reference design conditions for space heating | Tdes i gnh | 2 | ° C | Heating water operating limit temperature | WTOL | 60 | ° C |
| Power consumption in modes other than | active mo | ode | | Supplementary heater | | | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | • | |
| Standby mode | P_SB | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P_{CK} | 0.000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | ${\rm m}^3/{\rm h}$ |
| Sound power level, indoors/outdoors | L_{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 3246 | kWh | | | | |
| For heat pump combination heater: | | | • | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 139 | % |
| Daily electricity consumption | Qelec | 3. 820 | kWh | | | | |
| Annual electricity consumption | AEC | 841 | kWh | | | | |
| Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | MILEACTURING 1 | LIDKEN IVINE 6. | LUCK COMPANY | Manica OSR 4 Kisim Kasilikayash Mah Abmat Nazif Zari | lu Rulvari No: | 10 Vunusamra - N | Janica Turkov |
| The identification and signature of the | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl e supplier: | u Duivari NO. | io iunusenire - N | iaiiisa, lurkey |
| as and orginates of the | 201 3011 | punor ou | ~ IIIM CII | Kenichi SAITO | | | |
| The signature is signed in the average clim | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance Department | | | |
| | | | | TURKEY | | | |

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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

^(**) 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.

| Model(s): Outdoor unit: | | | | PUZ-SHWM100YAA | | | | |
|---|-----------------|----------------|--------------|---|---------------|------------------|-------------------|--|
| | | Indoor unit | : | EHST20D-****D | | | | |
| Air-to-water heat pump: | | | | yes | | | | |
| Water-to-water heat pump: | | | | no | | | | |
| Brine-to-water heat pump: | | | | no | | | | |
| Low-temperature heat pump: | | | | no | | | | |
| Equipped with a supplementary heater: | | | | yes | | | | |
| Heat pump combination heater: | | | | yes | | | | |
| Parameters for | | | | low-temperature application. | | | | |
| Parameters for | | | | warmer climate conditions. | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | η s | 232 | % | |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prim | ary energy | ratio for | | |
| temperature 20 $^{\circ}$ C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | | |
| Tj = - 7 ° C | Pdh | - | kW | Tj = - 7 ° C | COPd | - | - | |
| Degradation co-efficient (**) | Cdh | - | - | | | | | |
| Tj = + 2 ° C | Pdh | 10. 0 | kW | Tj = + 2 ° C | COPd | 3. 50 | - | |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | | |
| Tj = + 7 ° C | Pdh | 6. 4 | kW | Tj = + 7 ° C | COPd | 5. 55 | - | |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | | |
| Tj = +12 ° C | Pdh | 4. 4 | kW | Tj = +12 ° C | COPd | 7. 54 | - | |
| Degradation co-efficient (**) | Cdh | 0. 96 | - | | | | | |
| Tj = bivalent temperature | Pdh | 10.0 | kW | Tj = bivalent temperature | COPd | 3. 50 | - | |
| Tj = operation limit temperature (***) | Pdh | 10.0 | kW | Tj = operation limit temperature (***) | COPd | 3. 50 | - | |
| District Assessment | TL | 0 | | 0 | TOL | 00 | 8 0 | |
| Bivalent temperature Reference design conditions for space | Tbiv | 2 | ° C | Operation limit temperature Heating water operating limit | TOL | -30 | ° C | |
| heating | Tdesignh | 2 | ° C | temperature | WTOL | 60 | ° C | |
| Power consumption in modes other than | | ode | | Supplementary heater | | 1 | | |
| Off mode | P_{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 0. 0 | kW | |
| Thermostat-off mode | P _{T0} | 0. 022 | kW | | | | | |
| Standby mode | P_{SB} | 0. 022 | kW | Type of energy input | | Electrical | | |
| Crankcase heater mode | P _{CK} | 0. 000 | kW | | | | | |
| Other items | | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | m ³ /h | |
| Sound power level, indoors/outdoors | L_{WA} | 41 / 58 | dBA | | | | | |
| Annual energy consumption | Q _{HE} | 2276 | kWh | | | | | |
| For heat pump combination heater: | | | | | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 139 | % | |
| Daily electricity consumption | Qelec | 3. 820 | kWh | | | | | |
| Annual electricity consumption | AEC | 841 | kWh | | | | | |
| Contact details | NUITA OTUBANE | TUDICEV 101117 | 100K 00M2+M; | W | D. 1 | .10 V | | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | u Bulvari No: | iy Yunusemre - M | anısa, lurkey | |
| The identification and signature of th | ie het 2011 | emboweten f | נט טוווט נח | e supprier, Kenichi SAITO | | | | |
| The signature is signed in the average cli | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model (s): | | | t: | PUZ-SHWM100YAA | | | |
|--|------------------|----------------|--------------|--|---------------|--|-------------------|
| | | Indoor unit | : | ERST20D-****D | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | yes | | | |
| Heat pump combination heater: | | | | yes | | | |
| Parameters for | | | | medium-temperature application. | | | |
| Parameters for | | | | average climate conditions. | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 137 | % |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prima | ary energy | ratio for | |
| temperature 20 °C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor ter | mperature Tj | |
| Tj = - 7 ° C | Pdh | 8. 9 | kW | Tj = − 7 ° C | COPd | 2. 19 | _ |
| Degradation co-efficient (**) | Cdh | 1.00 | - | | | | |
| Tj = + 2 ° C | Pdh | 5. 4 | kW | Tj = + 2 ° C | COPd | 3. 38 | _ |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = + 7 ° C | Pdh | 4. 8 | kW | Tj = + 7 ° C | COPd | 4. 62 | _ |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | |
| Tj = +12 ° C | Pdh | 2. 9 | kW | Tj = +12 ° C | COPd | 6. 30 | _ |
| Degradation co-efficient (**) | Cdh | 0. 95 | _ | | | | |
| Tj = bivalent temperature | Pdh | 10. 0 | kW | Tj = bivalent temperature | COPd | 1. 69 | _ |
| Tj = operation limit temperature (***) | Pdh | 10.0 | kW | Tj = operation limit temperature (***) | COPd | 1. 69 | - |
| Divolent temperature | This | 10 | l ° c | Operation limit temperature | TOI | 20 | ° C |
| Bivalent temperature Reference design conditions for space | Tbiv Tdesignh | -10 -10 | ° C | Operation limit temperature Heating water operating limit | TOL WTOL | -30 60 | °C |
| heating Power consumption in modes other than | active mo | l ode | | temperature Supplementary heater | | | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Thermostat-off mode | P _{TO} | 0. 022 | kW | [] | · · | | |
| Standby mode | P _{SB} | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P _{CK} | 0. 000 | kW | | | | |
| Other items | - OK | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | _ | 2640 | m ³ /h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | / |
| Annual energy consumption | Q _{HE} | 5891 | kWh | | | | |
| For heat pump combination heater: | IIL. | 1 | <u> </u> | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 134 | % |
| Daily electricity consumption | Qelec | 4. 080 | kWh | | • | | |
| Annual electricity consumption | AEC | 898 | kWh | | | | |
| Contact details | 0 | 1 550 | | <u> </u> | | | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | NUFACTURING T | TURKEY JOINT S | TOCK COMPANY | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | u Bulvari No: | 19 Yunusemre - M | Manisa, Tur |
| The identification and signature of th | e person | empowered | to bind th | e supplier: | | | |
| 育藤健一 | | | | Kenichi SAITO | | | |
| 时间外 | | | | Manager, Quality Assuarance Department TURKEY | | | |

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

^(**) 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.

| Model (s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | | | |
|---|-------------------|----------------|--------------|--|---------------|------------------|-------------------|--|--|
| | | Indoor unit | : | ERST20D-****D | | | | | |
| Air-to-water heat pump: | | | | yes | | | | | |
| Water-to-water heat pump: | | | | no | | | | | |
| Brine-to-water heat pump: | | | | no | | | | | |
| Low-temperature heat pump: | | | | no | | | | | |
| Equipped with a supplementary heater: | | | | yes | | | | | |
| Heat pump combination heater: | | | | yes | | | | | |
| Parameters for | | | | low-temperature application. | | | | | |
| Parameters for | | | | average climate conditions. | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | | |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 185 | % | | |
| Declared capacity for heating for part | t load at | indoor | | Declared coefficient of performance or prim | ary energy | ratio for | | | |
| temperature 20 ° C and outdoor temperat | ture T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | | | |
| Tj = − 7 ° C | Pdh | 8. 9 | kW | Tj = − 7 ° C | COPd | 3. 10 | - | | |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | | | |
| Tj = + 2 ° C | Pdh | 5. 4 | kW | Tj = + 2 ° C | COPd | 4. 62 | - | | |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | | | |
| Tj = + 7 ° C | Pdh | 5. 2 | kW | Tj = + 7 ° C | COPd | 6. 00 | - | | |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | | | |
| Tj = +12 ° C | Pdh | 3. 2 | kW | Tj = +12 ° C | COPd | 6. 96 | - | | |
| Degradation co-efficient (**) | Cdh | 0. 95 | - | | | | | | |
| Tj = bivalent temperature | Pdh | 10.0 | kW | Tj = bivalent temperature | COPd | 2. 49 | - | | |
| Tj = operation limit temperature (***) | Pdh | 10. 0 | kW | Tj = operation limit temperature (***) | COPd | 2. 49 | - | | |
| | | | • | | | | | | |
| Bivalent temperature | Tbiv | -10 | ° C | Operation limit temperature | TOL | -30 | ° C | | |
| Reference design conditions for space heating | Tdes i gnh | -10 | ° C | Heating water operating limit temperature | WTOL | 60 | ° C | | |
| Power consumption in modes other than | active mo | ode | | Supplementary heater | | | | | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW | | |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | | | | |
| Standby mode | P_{SB} | 0. 022 | kW | Type of energy input | i | Electrical | | | |
| Crankcase heater mode | P_{CK} | 0.000 | kW | | ı | | | | |
| Other items | | | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | ${ m m}^3/{ m h}$ | | |
| Sound power level, indoors/outdoors | L_{WA} | 41 / 58 | dBA | | | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 4399 | kWh | | | | | | |
| For heat pump combination heater: | | | | | | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 134 | % | | |
| Daily electricity consumption | Qelec | 4. 080 | kWh | | | | | | |
| Annual electricity consumption | AEC | 898 | kWh | | | | | | |
| Contact details | WIELGTURANG 3 | FURNEY IOLUT O | TOOK COMPANY | | | | | | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor | u Bulvari No: | 19 Yunusemre - N | nanisa, lurkey | | |
| The identification and signature of th | ie hei sou | embowet.ed 1 | ro הווום CN | e supplier; Kenichi SAITO | | | | | |
| The signature is signed in the average cli | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | | | | |
|--|-------------------|------------------|---------------|--|----------------|------------------|---------------|--|--|--|
| | | Indoor unit | :: | ERST20D-****D | | | | | | |
| Air-to-water heat pump: | | | | yes | | | | | | |
| Water-to-water heat pump: | | | | no | | | | | | |
| Brine-to-water heat pump: | | | | no | | | | | | |
| Low-temperature heat pump: | | | | no | | | | | | |
| Equipped with a supplementary heater: | | | | yes | | | | | | |
| Heat pump combination heater: | | | | yes | | | | | | |
| Parameters for | | | | medium-temperature application. | | | | | | |
| Parameters for | | | | colder climate conditions. | | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | | | |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 117 | % | | | |
| Declared capacity for heating for part | load at | indoor | I | Declared coefficient of performance or prim | nary energy | ratio for | | | | |
| temperature 20 °C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | į | | | |
| Tj = - 7 ° C | Pdh | 6. 1 | kW | Tj = - 7 ° C | COPd | 2. 62 | - | | | |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | | | | |
| Tj = + 2 ° C | Pdh | 4. 0 | kW | Tj = + 2 ° C | COPd | 3. 50 | - | | | |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | | | | |
| Tj = + 7 ° C | Pdh | 3. 8 | kW | Tj = + 7 ° C | COPd | 4. 59 | - | | | |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | | | | |
| Tj = +12 ° C | Pdh | 4. 4 | kW | Tj = +12 ° C | COPd | 6. 88 | _ | | | |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | | | | |
| Tj = bivalent temperature | Pdh | 8. 4 | kW | Tj = bivalent temperature | COPd | 1. 57 | _ | | | |
| Tj = operation limit temperature (***) | Pdh | 8. 0 | kW | Tj = operation limit temperature (***) | COPd | 1. 59 | - | | | |
| Tj = -15 ° C (if $TOL < -20$ ° C) | Pdh | 8. 2 | kW | Tj = - 15 ° C (if TOL < - 20 ° C) | COPd | 1. 57 | - | | | |
| Bivalent temperature | Tbiv | -16 | ° C | Operation limit temperature | TOL | -30 | ° 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 mo | ode | | Supplementary heater | | | | | | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 2. 0 | kW | | | |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | - | | | | |
| Standby mode | P_SB | 0. 022 | kW | Type of energy input | | Electrical | | | | |
| Crankcase heater mode | P_{CK} | 0. 000 | kW | | | | | | | |
| Other items | | • | | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | _ | 2640 | m³/h | | | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | • | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 8250 | kWh | | | | | | | |
| For heat pump combination heater: | | | • | - | | | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 109 | % | | | |
| Daily electricity consumption | Qelec | 4. 750 | kWh | | | | | | | |
| Annual electricity consumption | AEC | 1044 | kWh | | | | | | | |
| Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | NUEACTURING T | TIIDKEV INTNIT C | TUCK COMPANIA | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor | lu Rulvari No: | 10 Vunusamra - N | Manica Turkay | | | |
| The identification and signature of the | | | | | | ranasoni o - n | rurncy | | | |
| | F - 1 0017 | | | Kenichi SAITO | | | | | | |
| The signature is signed in the average clin | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model (s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | |
|---|-------------------|--------------|-------------|--|---------------|------------------|---------------------|
| | | Indoor unit | : | ERST20D-****D | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | yes | | | |
| Heat pump combination heater: | | | | yes | | | |
| Parameters for | | | | low-temperature application. | | | |
| Parameters for | | | | colder climate conditions. | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 150 | % |
| Declared capacity for heating for part | t load at | indoor | I | Declared coefficient of performance or prim | nary energy | ratio for | |
| temperature 20 °C and outdoor temperat | ture T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | |
| Tj = - 7 ° C | Pdh | 6. 2 | kW | Tj = − 7 ° C | COPd | 3. 71 | - |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = + 2 ° C | Pdh | 4. 1 | kW | Tj = + 2 ° C | COPd | 4. 35 | _ |
| Degradation co-efficient (**) | Cdh | 0. 98 | _ | | | | |
| Tj = + 7 ° C | Pdh | 3. 9 | kW | Tj = + 7 ° C | COPd | 5. 34 | _ |
| Degradation co-efficient (**) | Cdh | 0. 97 | _ | | | | |
| Tj = +12 ° C | Pdh | 4. 5 | kW | Tj = +12 ° C | COPd | 7. 50 | - |
| Degradation co-efficient (**) | Cdh | 0. 96 | _ | | | | |
| Tj = bivalent temperature | Pdh | 8. 4 | kW | Tj = bivalent temperature | COPd | 2. 00 | - |
| Tj = operation limit temperature (***) | Pdh | 7. 7 | kW | Tj = operation limit temperature (***) | COPd | 1. 57 | - |
| Tj = - 15 ° C (if TOL < - 20 ° C) | Pdh | 8. 2 | kW | Tj = - 15 ° C (if TOL < - 20 ° C) | COPd | 2. 00 | - |
| Bivalent temperature | Tbiv | -16 | ° C | Operation limit temperature | TOL | -30 | ° C |
| Reference design conditions for space heating | Tdes i gnh | -22 | ° C | Heating water operating limit temperature | WTOL | 60 | ° C |
| Power consumption in modes other than | active mo | ode | | Supplementary heater | | 1 | |
| Off mode | P _{OFF} | 0. 022 | kW | Rated heat output (*) | Psup | 2. 3 | kW |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | 1 | ' | |
| Standby mode | P_SB | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P_{CK} | 0. 000 | kW | | | | |
| Other items | | 1 | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | ${\rm m}^3/{\rm h}$ |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 6459 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 109 | % |
| Daily electricity consumption | Qelec | 4. 750 | kWh | | | | |
| Annual electricity consumption | AEC | 1044 | kWh | | | | |
| Contact details | | | | | | | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor | u Bulvari No: | 19 Yunusemre - N | Manisa, Turkey |
| The identification and signature of th | ne person | empowered | to bind th | e supplier; Kenichi SAITO | | | |
| The signature is signed in the average cli | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | |
|---|-------------------|----------------|----------------------------|---|---------------|------------------|----------------|
| | | Indoor unit | : | ERST20D-****D | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | yes | | | |
| Heat pump combination heater: | | | | yes | | | |
| Parameters for | | | | medium-temperature application. | | | |
| Parameters for | | | warmer climate conditions. | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 167 | % |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prim | nary energy | ratio for | |
| temperature 20 ° C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | |
| Tj = - 7 ° C | Pdh | - | kW | Tj = - 7 ° C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | | | | |
| Tj = + 2 ° C | Pdh | 10. 0 | kW | Tj = + 2 ° C | COPd | 2. 10 | - |
| Degradation co-efficient (**) | Cdh | 1.00 | - | | | | |
| Tj = + 7 ° C | Pdh | 6. 4 | kW | Tj = + 7 ° C | COPd | 3. 53 | - |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = +12 ° C | Pdh | 4. 2 | kW | Tj = +12 ° C | COPd | 5. 75 | - |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | |
| Tj = bivalent temperature | Pdh | 10. 0 | kW | Tj = bivalent temperature | COPd | 2. 10 | - |
| Tj = operation limit temperature (***) | Pdh | 10.0 | kW | Tj = operation limit temperature (***) | COPd | 2. 10 | - |
| | | | • | | | | |
| Bivalent temperature | Tbiv | 2 | ° C | Operation limit temperature | T0L | -30 | ° 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 mo | ode | l | Supplementary heater | | | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | | |
| Standby mode | P_SB | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P_{CK} | 0.000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | _ | 2640 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 3149 | kWh | | | | |
| For heat pump combination heater: | | | | • | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 139 | % |
| Daily electricity consumption | Qelec | 3. 820 | kWh | | | | |
| Annual electricity consumption | AEC | 841 | kWh | | | | |
| Contact details | NUCAOTUDINO 3 | FUDIEV IOINT O | TOOK COMPANY | N : 000 4 K : K : H : H : H : K : T : | | .10 V | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA The identification and signature of th | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | u Duivari No: | าง runusemre - N | nanisa, lurkey |
| THE THEFT TO ALTON AND SIGNATURE OF THE | ic het 2011 | CHIPOWEI EU | co billa Ell | Kenichi SAITO | | | |
| The signature is signed in the average clir | mate / medi | um-temperatu | re section. | | | | |
| | | | | 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

^(**) 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.

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | |
|--|-------------------|----------------|----------------------------|---|----------------|----------------------|---------------------|
| | | Indoor unit | : | ERST20D-****D | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | yes | | | |
| Heat pump combination heater: | | | | yes | | | |
| Parameters for | | | | low-temperature application. | | | |
| Parameters for | | | warmer climate conditions. | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10.0 | kW | Seasonal space heating energy efficiency | ηs | 242 | % |
| Declared capacity for heating for part | load at | indoor | l | Declared coefficient of performance or prim | nary energy | ratio for | |
| temperature 20 ° C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | |
| Tj = - 7 ° C | Pdh | - | kW | Tj = - 7 ° C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | | | | |
| Tj = + 2 ° C | Pdh | 10. 0 | kW | Tj = + 2 ° C | COPd | 3. 50 | - |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = + 7 ° C | Pdh | 6. 4 | kW | Tj = + 7 ° C | COPd | 5. 55 | - |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | |
| Tj = +12 ° C | Pdh | 4. 4 | kW | Tj = +12 ° C | COPd | 7. 54 | - |
| Degradation co-efficient (**) | Cdh | 0. 96 | - | | | | |
| Tj = bivalent temperature | Pdh | 10.0 | kW | Tj = bivalent temperature | COPd | 3. 50 | - |
| Tj = operation limit temperature (***) | Pdh | 10.0 | kW | Tj = operation limit temperature (***) | COPd | 3. 50 | - |
| | | | • | | | | |
| Bivalent temperature | Tbiv | 2 | ° C | Operation limit temperature | T0L | -30 | ° 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 mo | ode | | Supplementary heater | | - | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | 1 | • | |
| Standby mode | P_{SB} | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P _{CK} | 0. 000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | ${\rm m}^3/{\rm h}$ |
| Sound power level, indoors/outdoors | L_{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 2179 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | | L | | Water heating energy efficiency | η wh | 139 | % |
| Daily electricity consumption | Qelec | 3. 820 | kWh | | | | |
| Annual electricity consumption | AEC | 841 | kWh | | | | |
| Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | NUFACTURING 1 | TURKEY JOINT S | TOCK COMPANY | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | lu Bulvari No: | :19 Yunusemre - N | Manisa Turkey |
| The identification and signature of the | | | | | | .5 . G. IGOOMII O II | raincy |
| | F - 1 00.1 | | | Kenichi SAITO | | | |
| The signature is signed in the average clim | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | |
|---|-------------------|-------------|------------|---|---------------|------------------|----------------|
| | | Indoor unit | :: | EHSD-MED | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | no | | | |
| Heat pump combination heater: | | | | no | | | |
| Parameters for | | | | medium-temperature application. | | | |
| Parameters for | | | | average climate conditions. | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | η s | 135 | % |
| Declared capacity for heating for part | load at | indoor | • | Declared coefficient of performance or prim | ary energy | ratio for | |
| temperature 20 ° C and outdoor temperat | ture T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | j |
| Tj = − 7 ° C | Pdh | 8. 9 | kW | Tj = − 7 ° C | COPd | 2. 19 | _ |
| Degradation co-efficient (**) | Cdh | 1.00 | - | | | | |
| Tj = + 2 ° C | Pdh | 5. 4 | kW | Tj = + 2 ° C | COPd | 3. 38 | _ |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = + 7 ° C | Pdh | 4. 8 | kW | Tj = + 7 ° C | COPd | 4. 62 | _ |
| Degradation co-efficient (**) | Cdh | 0. 98 | _ | | | | |
| Tj = +12 ° C | Pdh | 2. 9 | kW | Tj = +12 ° C | COPd | 6. 30 | - |
| Degradation co-efficient (**) | Cdh | 0. 95 | _ | | | | |
| Tj = bivalent temperature | Pdh | 10. 0 | kW | Tj = bivalent temperature | COPd | 1. 69 | _ |
| Tj = operation limit temperature (***) | Pdh | 10. 0 | kW | Tj = operation limit temperature (***) | COPd | 1. 69 | _ |
| | | | 1 | | | | |
| Bivalent temperature | Tbiv | -10 | ° C | Operation limit temperature | TOL | -30 | ° C |
| Reference design conditions for space heating | Tdes i gnh | -10 | ° C | Heating water operating limit temperature | WTOL | 60 | ° C |
| Power consumption in modes other than | active mo | ode | | Supplementary heater | | <u>I</u> | |
| Off mode | P _{OFF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | • | |
| Standby mode | P_SB | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P_{CK} | 0. 000 | kW | | | | |
| Other items | | • | • | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | _ | 2640 | m^3/h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 5972 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | | - | | Water heating energy efficiency | η wh | | % |
| Daily electricity consumption | Qelec | - | kWh | | | | |
| Annual electricity consumption | AEC | - | kWh | | | | |
| Contact details | | | | | | | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | u Bulvari No: | 19 Yunusemre - N | Manisa, Turkey |
| The identification and signature of the | ne person | empowered | to bind th | | | | |
| 香藤健一 | | | | Kenichi SAITO Manager, Quality Assuarance Department | | | |
| 17 11/11 Dr - | | | | TUDICE | | | |

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.

| Model(s): | | Outdoor unit: | | PUZ-SHWM100YAA | | | |
|--|--|---------------|-----------------------------|---|--------------|--------------------|---------------|
| | | Indoor unit | : | EHSD-MED | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | no | | | |
| Heat pump combination heater: | | | | no | | | |
| Parameters for | | | | low-temperature application. | | | |
| Parameters for | | | average climate conditions. | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 181 | % |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prim | ary energy | ratio for | |
| temperature 20 $^{\circ}$ C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor te | emperature Tj | |
| Tj = - 7 ° C | Pdh | 8. 9 | kW | Tj = − 7 ° C | COPd | 3. 10 | - |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = + 2 ° C | Pdh | 5. 4 | kW | Tj = + 2 ° C | COPd | 4. 62 | - |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | |
| Tj = + 7 ° C | Pdh | 5. 2 | kW | Tj = + 7 ° C | C0Pd | 6. 00 | - |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | |
| Tj = +12 ° C | Pdh | 3. 2 | kW | Tj = +12 ° C | C0Pd | 6. 96 | - |
| Degradation co-efficient (**) | Cdh | 0. 95 | - | | | | |
| Tj = bivalent temperature | Pdh | 10.0 | kW | Tj = bivalent temperature | COPd | 2. 49 | - |
| Tj = operation limit temperature (***) | Pdh | 10. 0 | kW | Tj = operation limit temperature (***) | C0Pd | 2. 49 | - |
| | | | | | | | |
| Bivalent temperature | Tbiv | -10 | ° C | Operation limit temperature | TOL | -30 | °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 mo | ode | | Supplementary heater | | <u> </u> | |
| Off mode | P _{OFF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | • | |
| Standby mode | P_{SB} | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P_{CK} | 0.000 | kW | | | | |
| Other items | | 1 | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | _ | 2640 | m^3/h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 4480 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | | - | | Water heating energy efficiency | η wh | - | % |
| Daily electricity consumption | Qelec | - | kWh | | | | |
| Annual electricity consumption | AEC | - | kWh | | | | |
| Contact details | | | | | | | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | u Bulvari No | :19 Yunusemre - Ma | anisa, Turkey |
| The identification and signature of th | e person | empowered | to bind th | e supplier; Kenichi SAITO | | | |
| The signature is signed in the average clin | Manager, Quality Assuarance Department | | | | | | |

[·] 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

^(**) 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.

| Model (s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | | |
|---|-------------------|--------------|----------------------------|---|---------------|-------------------|---------------------|--|
| | | Indoor unit | : | EHSD-MED | | | | |
| Air-to-water heat pump: | | | | yes | | | | |
| Water-to-water heat pump: | | | | no | | | | |
| Brine-to-water heat pump: | | | | no | | | | |
| Low-temperature heat pump: | | | | no | | | | |
| Equipped with a supplementary heater: | | | | no | | | | |
| Heat pump combination heater: | | | | no | | | | |
| Parameters for | | | | medium-temperature application. | | | | |
| Parameters for | | | colder climate conditions. | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | η s | 116 | % | |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prim | ary energy | ratio for | | |
| temperature 20 ° C and outdoor temperature | re T j | | | part load at indoor temperature 20 °C and | outdoor ter | mperature Tj | | |
| Tj = - 7 ° C | Pdh | 6. 1 | kW | Tj = - 7 ° C | COPd | 2. 62 | - | |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | | |
| Tj = + 2 ° C | Pdh | 4. 0 | kW | Tj = + 2 ° C | COPd | 3. 50 | - | |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | | |
| Tj = + 7 ° C | Pdh | 3.8 | kW | Tj = + 7 ° C | COPd | 4. 59 | - | |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | | |
| Tj = +12 ° C | Pdh | 4. 4 | kW | Tj = +12 ° C | COPd | 6. 88 | - | |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | | |
| Tj = bivalent temperature | Pdh | 8. 4 | kW | Tj = bivalent temperature | COPd | 1. 57 | - | |
| Tj = operation limit temperature (***) | Pdh | 8. 0 | kW | Tj = operation limit temperature (***) | COPd | 1. 59 | - | |
| Tj = - 15 $^{\circ}$ C (if TOL $<$ - 20 $^{\circ}$ C) | Pdh | 8. 2 | kW | Tj = - 15 ° C (if TOL < - 20 ° C) | COPd | 1. 57 | - | |
| Bivalent temperature | Tbiv | -16 | ° C | Operation limit temperature | T0L | -30 | ° C | |
| Reference design conditions for space heating | Tdes i gnh | -22 | ° C | Heating water operating limit temperature | WTOL | 60 | ° C | |
| Power consumption in modes other than a | active mo | ode | | Supplementary heater | | | | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 2. 0 | kW | |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | • | | |
| Standby mode | P_{SB} | 0. 022 | kW | Type of energy input | | Electrical | | |
| Crankcase heater mode | P _{CK} | 0. 000 | kW | | | | | |
| Other items | | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | ${\rm m}^3/{\rm h}$ | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 8298 | kWh | | | | | |
| For heat pump combination heater: | | | • | | | | | |
| Declared load profile | | - | | Water heating energy efficiency | η wh | - | % | |
| Daily electricity consumption | Qelec | - | kWh | | | | | |
| Annual electricity consumption | AEC | - | kWh | | | | | |
| Contact details | | | | | | | | |
| MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANU | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | u Bulvari No: | 19 Yunusemre - Ma | anisa, Turkey | |
| The identification and signature of the | person | empowered t | to bind the | e supplier; Kenichi SAITO | | | | |
| The signature is signed in the average clima | te / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | |
|--|-----------------|-----------------|---------------|---|---------------|--------------------|---------------|
| | | Indoor unit | :: | EHSD-MED | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | no | | | |
| Heat pump combination heater: | | | | no | | | |
| Parameters for | | | | low-temperature application. | | | |
| Parameters for | | | | colder climate conditions. | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 149 | % |
| Declared capacity for heating for part | load at | indoor | l | Declared coefficient of performance or prim | ary energy | ratio for | |
| temperature 20 °C and outdoor temperat | ture T j | | | part load at indoor temperature 20°C and | outdoor ter | mperature Tj | |
| Tj = - 7 ° C | Pdh | 6. 2 | kW | Tj = − 7 ° C | COPd | 3. 71 | - |
| Degradation co-efficient (**) | Cdh | 0. 99 | _ | | | | |
| Tj = + 2 ° C | Pdh | 4. 1 | kW | Tj = + 2 ° C | COPd | 4. 35 | - |
| Degradation co-efficient (**) | Cdh | 0. 98 | _ | | | | |
| Tj = + 7 ° C | Pdh | 3. 9 | kW | Tj = + 7 ° C | COPd | 5. 34 | - |
| Degradation co-efficient (**) | Cdh | 0. 97 | - | | | | |
| Tj = +12 ° C | Pdh | 4. 5 | kW | Tj = +12 ° C | COPd | 7. 50 | - |
| Degradation co-efficient (**) | Cdh | 0. 96 | _ | | | | |
| Tj = bivalent temperature | Pdh | 8. 4 | kW | Tj = bivalent temperature | COPd | 2. 00 | - |
| Tj = operation limit temperature (***) | Pdh | 7. 7 | kW | Tj = operation limit temperature (***) | COPd | 1. 57 | - |
| Tj = - 15 $^{\circ}$ C (if TOL $<$ - 20 $^{\circ}$ C) | Pdh | 8. 2 | kW | Tj = - 15 ° C (if TOL < - 20 ° C) | COPd | 2. 00 | - |
| Bivalent temperature | Tbiv | -16 | ° C | Operation limit temperature | TOL | -30 | °C |
| Reference design conditions for space heating | Tdes i gnh | -22 | ° C | Heating water operating limit temperature | WTOL | 60 | °C |
| Power consumption in modes other than | active mo | ode | | Supplementary heater | | | |
| Off mode | P_{OFF} | 0. 022 | kW | Rated heat output (*) | Psup | 2. 3 | kW |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | | |
| Standby mode | P_{SB} | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P _{CK} | 0. 000 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | m^3/h |
| Sound power level, indoors/outdoors | L_{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | Q_{HE} | 6508 | kWh | | | | |
| For heat pump combination heater: | | | | | | T | |
| Declared load profile | | - | ı | Water heating energy efficiency | η wh | - | % |
| Daily electricity consumption | Qelec | - | kWh | | | | |
| Annual electricity consumption | AEC | - | kWh | | | | |
| Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | MIEACTIDING | TIIDKEN IUINI U | TUCK CUMDANIA | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl | lu Rulvari M | 10 Vunucomes u | anica Tuekov |
| The identification and signature of the | | | | | u puivali NO. | 13 Tunusenire - Mi | annsa, Turkey |
| The signature is signed in the average cli | | | | Kenichi SAITO Manager, Quality Assuarance 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

^(**) 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.

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | | |
|---|-------------------|-----------------|----------------------------|--|---------------|------------------|----------------|--|
| | | Indoor unit | : | EHSD-MED | | | | |
| Air-to-water heat pump: | | | | yes | | | | |
| Water-to-water heat pump: | | | | no | | | | |
| Brine-to-water heat pump: | | | | no | | | | |
| Low-temperature heat pump: | | | | no | | | | |
| Equipped with a supplementary heater: | | | | no | | | | |
| Heat pump combination heater: | | | | no | | | | |
| Parameters for | | | | medium-temperature application. | | | | |
| Parameters for | | | warmer climate conditions. | | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit | |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 162 | % | |
| Declared capacity for heating for part | load at | indoor | • | Declared coefficient of performance or prim | nary energy | ratio for | | |
| temperature 20 °C and outdoor temperat | ure T j | | | part load at indoor temperature 20 °C and | outdoor te | mperature Tj | | |
| Tj = − 7 ° C | Pdh | - | kW | Tj = − 7 ° C | COPd | - | - | |
| Degradation co-efficient (**) | Cdh | - | - | | | | | |
| Tj = + 2 ° C | Pdh | 10. 0 | kW | Tj = + 2 ° C | COPd | 2. 10 | - | |
| Degradation co-efficient (**) | Cdh | 1.00 | - | | | | | |
| Tj = + 7 ° C | Pdh | 6. 4 | kW | Tj = + 7 ° C | COPd | 3. 53 | - | |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | | |
| Tj = +12 ° C | Pdh | 4. 2 | kW | Tj = +12 ° C | COPd | 5. 75 | - | |
| Degradation co-efficient (**) | Cdh | 0. 97 | _ | | | | | |
| Tj = bivalent temperature | Pdh | 10.0 | kW | Tj = bivalent temperature | COPd | 2. 10 | - | |
| Tj = operation limit temperature (***) | Pdh | 10.0 | kW | Tj = operation limit temperature (***) | COPd | 2. 10 | - | |
| | | | • | | | | | |
| Bivalent temperature | Tbiv | 2 | ° C | Operation limit temperature | TOL | -30 | ° 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 mo | ode | | Supplementary heater | | 1 | | |
| Off mode | P _{0FF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW | |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | • | | |
| Standby mode | P_SB | 0. 022 | kW | Type of energy input | i | Electrical | | |
| Crankcase heater mode | P_{CK} | 0. 000 | kW | | ı | | | |
| Other items | | | | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | - | 2640 | m^3/h | |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 3246 | kWh | | | | | |
| For heat pump combination heater: | | | | | | | | |
| Declared load profile | | - | | Water heating energy efficiency | η wh | - | % | |
| Daily electricity consumption | Qelec | - | kWh | | | | | |
| Annual electricity consumption | AEC | - | kWh | | | | | |
| Contact details | NULL ACTUALNO T | CUDICEV IOINT C | TOOK COMPANY | Marrian OCD 4 Visits Vasililarush Neb Abrack Nasif 7an | l. D. l No. | 10 V | Larias Tomban | |
| The identification and signature of th | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor ne supplier; | u bulvari NO: | ıə runusemre - N | ıanısa, Türkey | |
| | - por 0011 | 5p01101 | oo billa tii | Kenichi SAITO | | | | |
| The signature is signed in the average clim | nate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.

| Model(s): | | Outdoor uni | t: | PUZ-SHWM100YAA | | | |
|---|-------------------|-----------------|----------------------------|--|----------------|-------------------|-----------------|
| | | Indoor unit | : | EHSD-MED | | | |
| Air-to-water heat pump: | | | | yes | | | |
| Water-to-water heat pump: | | | | no | | | |
| Brine-to-water heat pump: | | | | no | | | |
| Low-temperature heat pump: | | | | no | | | |
| Equipped with a supplementary heater: | | | | no | | | |
| Heat pump combination heater: | | | | no | | | |
| Parameters for | | | | low-temperature application. | | | |
| Parameters for | | | warmer climate conditions. | | | | |
| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
| Rated heat output (*) | Prated | 10. 0 | kW | Seasonal space heating energy efficiency | ηs | 232 | % |
| Declared capacity for heating for part | load at | indoor | | Declared coefficient of performance or prim | ary energy | ratio for | |
| temperature 20 ° C and outdoor temperat | ure T j | | | part load at indoor temperature 20°C and | outdoor ter | mperature Tj | |
| Tj = - 7 ° C | Pdh | - | kW | Tj = − 7 ° C | COPd | - | - |
| Degradation co-efficient (**) | Cdh | - | - | | | | |
| Tj = + 2 ° C | Pdh | 10. 0 | kW | Tj = + 2 ° C | COPd | 3. 50 | - |
| Degradation co-efficient (**) | Cdh | 0. 99 | - | | | | |
| Tj = + 7 ° C | Pdh | 6. 4 | kW | Tj = + 7 ° C | COPd | 5. 55 | - |
| Degradation co-efficient (**) | Cdh | 0. 98 | - | | | | |
| Tj = +12 ° C | Pdh | 4. 4 | kW | Tj = +12 ° C | COPd | 7. 54 | - |
| Degradation co-efficient (**) | Cdh | 0. 96 | - | | | | |
| Tj = bivalent temperature | Pdh | 10.0 | kW | Tj = bivalent temperature | COPd | 3. 50 | - |
| Tj = operation limit temperature (***) | Pdh | 10. 0 | kW | Tj = operation limit temperature (***) | COPd | 3. 50 | - |
| | | | | | | | |
| Bivalent temperature | Tbiv | 2 | ° C | Operation limit temperature | TOL | -30 | ° 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 mo | ode | | Supplementary heater | | " | |
| Off mode | P _{OFF} | 0. 022 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Thermostat-off mode | P_{T0} | 0. 022 | kW | | | • | |
| Standby mode | P_{SB} | 0. 022 | kW | Type of energy input | | Electrical | |
| Crankcase heater mode | P_{CK} | 0.000 | kW | | | | |
| Other items | | • | | | | | |
| Capacity control | | variable | | Rated air flow rate, outdoors | _ | 2640 | m³/h |
| Sound power level, indoors/outdoors | L _{WA} | 41 / 58 | dBA | | | | |
| Annual energy consumption | \mathbf{Q}_{HE} | 2276 | kWh | | | | |
| For heat pump combination heater: | | | • | | | | |
| Declared load profile | | - | | Water heating energy efficiency | η wh | - | % |
| Daily electricity consumption | Qelec | - | kWh | | | | |
| Annual electricity consumption | AEC | | kWh | | | | |
| Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA | MULTACTUDING 1 | TIDVEN TOTAL 6. | TOOK COMPANY | Marias OSD 4 Kisim Kosilikayash Mah Abmat Nasif Tayl | lu Pulveri Ne: | 10 Vunuaamra II | Janiaa Turkay |
| The identification and signature of th | | | | Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl e supplier: | u puivari NO. | io iunusenire - M | iaiiisa, lurkey |
| a out of the organization of the | | po#0100 | ~ IIIM CII | Kenichi SAITO | | | |
| The signature is signed in the average clim | mate / medi | um-temperatu | re section. | Manager, Quality Assuarance 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

^(**) 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.