



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.

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2.COMBINATION HEAT		For medium-temperature application	For low-temperature application
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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
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	ERST30D-****D		177 114 41 - 14 14 10226 3310 1755 1434 132 223 104 130 58
	EHST17D-****D		184 134 41 - 6 6 4202 1437 1060 846 138 220 105 135 54
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PUZ-SHWM60VAA	EHST20D-****D		184 134 41 - 6 6 4202 1437 1044 841 138 220 109 139 54
	ERST20D-****D		188 134 41 - 6 6 4168 1371 1044 841 139 231 109 139 54
	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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PUZ-SHWM80VAA	EHST20D-****D	✓ L A++ A+ 8 4904 898 132 134 41 - 8 8 6705 2521 1044 841 115 167 109 139 54 ✓ L A+++ A+ 8 3530 898 18	184 134 41 - 8 8 5299 1874 1044 841 146 225 109 139 54
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	EHST30D-****D		184 123 41 - 8 8 5299 1874 1759 1176 146 225 98 149 54
	ERST30D-****D		187 123 41 - 8 8 5266 1808 1759 1176 147 233 98 149 54
	EHST17D-****D		182 134 41 - 8 8 5332 1920 1060 846 145 220 105 135 54
	ERST17D-****D		187 134 41 - 8 8 5284 1823 1060 846 146 232 105 135 54
PUZ-SHWM80YAA	ERST17D-***BD		187 134 41 - 8 8 5284 1823 1060 846 146 232 105 135 54
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	ERST20D-****D		187 134 41 - 8 8 5284 1823 1044 841 146 232 109 139 54
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	EHST20D-****D		183 134 41 - 10 10 6480 2233 1044 841 149 236 109 139 58
PUZ-SHWM100VAA	ERST20D-****D	✓ L A++ A+ 10 5881 898 138 134 41 - 10 10 8239 3138 1044 841 117 167 109 139 58 ✓ L A+++ A+ 10 4389 898 18	185 134 41 - 10 10 6447 2167 1044 841 150 244 109 139 58
FUZ-SHW M100VAA	EHST30D-****D		183 123 41 - 10 10 6480 2233 1759 1176 149 236 98 149 58
	ERST30D-****D		185 123 41 - 10 10 6447 2167 1759 1176 150 244 98 149 58
	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
	EHST30D-****D		181 123 41 - 10 10 6508 2276 1759 1176 149 232 98 149 58
	ERST30D-****D		185 123 41 - 10 10 6459 2179 1759 1176 150 242 98 149 58
1	EHST20D-****D		179 134 41 - 12 12 7843 2753 1044 841 149 232 109 139 58
PUZ-SHWM120VAA	ERST20D-****D		181 134 41 - 12 12 7810 2687 1044 841 150 238 109 139 58
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	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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PUZ-SHWM120YAA	EHST30D-****D		178 123 41 - 12 12 7868 2793 1759 1176 149 228 98 149 58
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PUZ-SHWM140VAA	ERST20D-****D		
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	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
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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 _{WA} 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 подгояване 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 movennes)	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 accessora conscionario de la	klassen for ársvírkningsgrad ved rumopvarmning och orazonage soo rosauns klassen for ársvírkningsgrad ved rumopvarmning och orazonage soo rosauns klassen for ársvírkningsgrad ved rumopvarmning och orazonage soo rosauns klassen for ársvírkningsgrad ved rumopvarmningsgrad ved	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	e 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 unit	:	PUZ-SWM80YAA			
		Indoor unit:		EHST17D-***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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	128	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio f	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatu	ure Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.19	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	5.79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
			-				
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	tive mode			Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.6	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	5053	kWh				
For heat pump combination heater:	_			, ,			
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre – Manisa, Turkey

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



Kenichi SAITO

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 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-SWM80YAA			
		Indoor unit:		EHST17D-***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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	179	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.19	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.5	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		<u> </u>		-			
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	3636	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details		1		1			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING T	JRKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – I	Manisa, Turkey
The identification and signature of the person	empowere	d to bind the	supplier;	Kenichi SAITO			

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

Manager, Quality Assuarance Department

TURKEY

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

 $[\]bullet \ \, \text{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-SWM80YAA			
		Indoor unit:		EHST17D-***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.			
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	111	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0.99	-				1
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.98	-			<u> </u>	ı
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0.95	-				!
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.45	-
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater		l .	
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P_{TO}	0.022	kW			l .	
Standby mode	P_{SB}	0.022	kW	Type of energy input	i	Electrical	
Crankcase heater mode	P _{CK}	0.000	kW		i		
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				ı
Annual energy consumption	Q_{HE}	6923	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	105	%
Daily electricity consumption	Qelec	4.820	kWh				ı
Annual electricity consumption	AEC	1060	kWh				
Contact details		1		1			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kariahi CAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	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 unit:			:	PUZ-SWM80YAA			
		Indoor unit:		EHST17D-***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.			
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	141	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj	
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.43	-
Degradation co-efficient (**)	Cdh	0.98	-				_
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	4.15	-
Degradation co-efficient (**)	Cdh	0.98	-				ı
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.45	-
Degradation co-efficient (**)	Cdh	0.97	-			<u> </u>	1
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.40	-
Degradation co-efficient (**)	Cdh	0.95	-				I
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.40	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater		l .	I
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P_{TO}	0.022	kW			l .	I
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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				1
Annual energy consumption	Q_{HE}	5493	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	105	%
Daily electricity consumption	Qelec	4.820	kWh				1
Annual electricity consumption	AEC	1060	kWh				
Contact details		1		1			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kariahi CAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Kenichi SAITO 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 unit	:	PUZ-SWM80YAA			
		Indoor unit:		EHST17D-***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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	160	%
Declared capacity for heating for part load a	t indoor	•	-	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater		1	
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	2629	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	n empowere	a to bind the	e supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	ire section.	Manager, Quality Assuarance Department			
				TURKEY			

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

 $[\]bullet \ \, \text{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-SWM80YAA				
		Indoor unit:		EHST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	214	%	
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or		
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj		
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-	
Degradation co-efficient (**)	Cdh	-	-					
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.65	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	-	
		-	•					
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C	
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than act	ive mode			Supplementary heater				
Off mode	P _{OFF}	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			•					
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L_WA	41 / 54	dB					
Annual energy consumption	Q_{HE}	1973	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	135	%	
Daily electricity consumption	Qelec	3.850	kWh					
Annual electricity consumption	AEC	846	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey	
The identification and signature of the person	n empowere	a to bind the	e supplier;	Kenichi SAITO				
The signature is signed in the average clim	ate / mediu	m-temperatu	ire section.	Manager, Quality Assuarance Department				
		1		TURKEY				

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

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

^(**) 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-SWM80YAA				
		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.				
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	128	%	
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or		
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	ıre Tj		
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.27	-	
Degradation co-efficient (**)	Cdh	0.99	-				l	
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.19	-	
Degradation co-efficient (**)	Cdh	0.98	-			-	l	
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.18	-	
Degradation co-efficient (**)	Cdh	0.98	-				!	
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	5.79	-	
Degradation co-efficient (**)	Cdh	0.96	-					
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-	
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-	
		r	1				1	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C	
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than ac	tive mode			Supplementary heater				
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.6	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								
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB					
Annual energy consumption	Q_{HE}	5053	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	134	%	
Daily electricity consumption	Qelec	4.080	kWh					
Annual electricity consumption	AEC	898	kWh					
Contact details								

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre – Manisa, Turkey

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



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 unit	:	PUZ-SWM80YAA			
		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.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	179	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.61	-
Degradation co-efficient (**)	Cdh	0.98	-			_	
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.19	-
Degradation co-efficient (**)	Cdh	0.96	-			_	
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°c
Reference design conditions for space							
heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act		T		Supplementary heater		T	· · · · ·
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.5	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				Rated air flow rate, outdoors		1	
Capacity control		variable		Nated all flow fate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q _{HE}	3636	kWh				
For heat pump combination heater:							ı
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	NUFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zoi	du Bulvari No:1	9 Yunusemre –	Manisa Turkev
The identification and signature of the person							
2 3 3 3 4 4 F 5 5 5 5	,		/	Kenichi SAITO			
The signature is signed in the average clim	nate / mediu	m-temperatu	re section	Manager, Quality Assuarance Department			

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

 $[\]bullet \ \, \text{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-SWM80YAA			
		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	8.0	kW	Seasonal space heating energy efficiency	ηs	111	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Τј			part load at indoor temperature 20 °C and outdoo	or temperatur	е Тј	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0.99	-		'		
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.98	-		'		
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0.95	-		'		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.45	-
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	6923	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	109	%
Daily electricity consumption	Qelec	4.750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details		_	_		_	_	_
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	Yunusemre – I	Manisa, Turkey
The identification and signature of the person	ı empowere	u to bind the	supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

 $[\]cdot \ \, \text{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-SWM80YAA					
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	141	%		
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	г	,		
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	е Тј			
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.43	-		
Degradation co-efficient (**)	Cdh	0.98	-		'		ı		
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	4.15	-		
Degradation co-efficient (**)	Cdh	0.98	-		·		I.		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.45	-		
Degradation co-efficient (**)	Cdh	0.97	-		'		ı		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.40	-		
Degradation co-efficient (**)	Cdh	0.95	-		'		ı		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.00	-		
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.40	-		
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater					
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	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									
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB		•		'		
Annual energy consumption	Q_{HE}	5493	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	109	%		
Daily electricity consumption	Qelec	4.750	kWh		·				
Annual electricity consumption	AEC	1044	kWh						
Contact details									
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the person	n empowere	a to bind the	e supplier;	Kenichi SAITO					
The signature is signed in the average clim	ate / mediu	m-temperatu	ıre 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 unit	:	PUZ-SWM80YAA			
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	160	%
Declared capacity for heating for part load a	t indoor	•	-	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Τј		_	part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater		1	
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	2629	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	ire section.	Manager, Quality Assuarance Department			
-		-		TURKEY			

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

 $[\]bullet \ \, \text{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-SWM80YAA			
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	214	%
Declared capacity for heating for part load a	t indoor	•	-	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тј		_	part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode	ı		Supplementary heater		1	
Off mode	P _{OFF}	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	1973	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	i empowere	u io bilia the	s supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	ire section.	Manager, Quality Assuarance Department			
			<u> </u>	TURKEY			

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

 $[\]bullet \ \, \text{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-SWM80YAA			
		Indoor unit:		EHST20D-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:				yes			
Parameters for				medium-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	128	%
Declared capacity for heating for part load a	nt indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.19	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	5.79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater		<u> </u>	
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.6	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		•					
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	5053	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre – Manisa, Turkey

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



Kenichi SAITO

Manager, Quality Assuarance Department

TURKEY

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

[•] 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 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-SWM80YAA			
		Indoor unit:		EHST20D-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:				yes			
Parameters for				low-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	179	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatui	те Тј	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.20	-
Degradation co-efficient (**)	Cdh	0.99	-			•	!
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.19	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-
							•
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.5	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	3636	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	Yunusemre – I	Manisa, Turkey
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-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.

 $[\]bullet \ \, \text{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-SWM80YAA			
		Indoor unit:		EHST20D-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:				yes			
Parameters for				medium-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	111	%
Declared capacity for heating for part load at	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.60	_
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.45	-
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P _{TO}	0.022	kW		1	I.	
Standby mode	P_SB	0.022	kW	Type of energy input	i	Electrical	
Crankcase heater mode	P_{CK}	0.000	kW		i		
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				ı
Annual energy consumption	Q_{HE}	6923	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	109	%
Daily electricity consumption	Qelec	4.750	kWh			l	ı
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No:19	9 Yunusemre –	Manisa, Turkey
The identification and signature of the persor	empowered	d to bind the	supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediur	n-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.

 $[\]bullet \ \, \text{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-SWM80YAA			
		Indoor unit:		EHST20D-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:				yes			
Parameters for				low-temperature application.			
Parameters for				colder climate conditions.			
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	141	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj	
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.43	-
Degradation co-efficient (**)	Cdh	0.98	-				1
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	4.15	-
Degradation co-efficient (**)	Cdh	0.98	-				1
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.45	-
Degradation co-efficient (**)	Cdh	0.97	-			<u> </u>	ı
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.40] -
Degradation co-efficient (**)	Cdh	0.95	-				1
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.40	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater		l .	
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	kW
Thermostat-off mode	P_{TO}	0.022	kW			l .	
Standby mode	P_{SB}	0.022	kW	Type of energy input	i	Electrical	
Crankcase heater mode	P _{CK}	0.000	kW		i		
Other items			l l				
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				1
Annual energy consumption	Q_{HE}	5493	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	109	%
Daily electricity consumption	Qelec	4.750	kWh				1
Annual electricity consumption	AEC	1044	kWh				
Contact details		1	1				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kariahi CAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	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 unit	:	PUZ-SWM80YAA			
		Indoor unit:		EHST20D-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:				yes			
Parameters for				medium-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	160	%
Declared capacity for heating for part load a	t indoor	•	-	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гj		_	part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode	ı		Supplementary heater		1	
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	2629	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	139	%
Daily electricity consumption	Qelec	3.820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	n empowere	u to bind the	e supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	ire section.	Manager, Quality Assuarance Department			
				TURKEY			

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

 $[\]bullet \ \, \text{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-SWM80YAA			
		Indoor unit:		EHST20D-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:				yes			
Parameters for				low-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	214	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatui	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				ı
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.65	-
Degradation co-efficient (**)	Cdh	0.99	-			<u> </u>	!
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-
Degradation co-efficient (**)	Cdh	0.98	-				ı
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-
Degradation co-efficient (**)	Cdh	0.97	-				<u>!</u>
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	1973	kWh				
For heat pump combination heater:		'					
Declared load profile		L		Water heating energy efficiency	ηwh	139	%
Daily electricity consumption	Qelec	3.820	kWh				1
Annual electricity consumption	AEC	841	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zo	lu Bulvari No:19	9 Yunusemre – I	Manisa, Turkey
The identification and signature of the person	n empowere	d to bind the	supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			

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

 $[\]bullet \ \, \text{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-SWM80YAA			
		Indoor unit:		ERST17D-***BD			
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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	130	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio f	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatu	ure Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.19	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	5.79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
		1	1				
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	tive mode			Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.6	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	4972	kWh				
For heat pump combination heater:	_						
Declared load profile		L	1	Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey

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



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 unit	:	PUZ-SWM80YAA					
		Indoor unit:		ERST17D-***BD					
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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	183	%		
Declared capacity for heating for part load a	t indoor	-		Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj			
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.20	-		
Degradation co-efficient (**)	Cdh	0.99	-						
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-		
Degradation co-efficient (**)	Cdh	0.98	-						
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.61	-		
Degradation co-efficient (**)	Cdh	0.98	-						
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.19	-		
Degradation co-efficient (**)	Cdh	0.96	-				1		
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-		
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C		
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode	-1		Supplementary heater					
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.5	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									
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				•		
Annual energy consumption	Q_{HE}	3555	kWh						
For heat pump combination heater:				•					
Declared load profile		L		Water heating energy efficiency	ηwh	134	%		
Daily electricity consumption	Qelec	4.000	kWh				•		
Annual electricity consumption	AEC	880	kWh						
Contact details									
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No:19	9 Yunusemre – I	Manisa, Turkey		
The identification and signature of the person	n empowere	a to bind the	supplier;	Kenichi SAITO					
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department					

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

 $[\]cdot \ \, \text{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-SWM80YAA			
		Indoor unit:		ERST17D-***BD			
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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	112	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0.99	-				1
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.98	-			-	1
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.45	-
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	6875	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	105	%
Daily electricity consumption	Qelec	4.820	kWh				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre – I	Manisa, Turkey
The identification and signature of the person	n empowere	u to bind the	supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

[•] 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-SWM80YAA					
		Indoor unit:		ERST17D-***BD					
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.					
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	142	%		
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj			
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.43	-		
Degradation co-efficient (**)	Cdh	0.98	-				1		
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	4.15	-		
Degradation co-efficient (**)	Cdh	0.98	-			ı	ı		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.45	-		
Degradation co-efficient (**)	Cdh	0.97	-			<u> </u>	ı		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.40	-		
Degradation co-efficient (**)	Cdh	0.95	-				!		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.00	-		
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.40	-		
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater		l .			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	kW		
Thermostat-off mode	P_{TO}	0.022	kW			l .			
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	-	2220	m³/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				ı		
Annual energy consumption	Q_{HE}	5444	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	105	%		
Daily electricity consumption	Qelec	4.820	kWh				ı		
Annual electricity consumption	AEC	1060	kWh						
Contact details		1		1					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kariahi CAITO					
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	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 unit	:	PUZ-SWM80YAA			
		Indoor unit:		ERST17D-***BD			
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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	166	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гj			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
heating Power consumption in modes other than act	ive mode	ı		Supplementary heater		1	
Off mode	P _{OFF}	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	2532	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							_
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	i empowere	u io biiia the	s supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
				TURKEY			

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^(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

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

Model(s):		Outdoor unit	:	PUZ-SWM80YAA			
		Indoor unit:		ERST17D-***BD			
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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	225	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	-
		<u> </u>	i				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	1876	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	ıı empowere	u io dina the	supplier;	Kenichi SAITO			
The signature is signed in the average clim	nate / mediu	m-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-SWM80YAA			
		Indoor unit:		ERST17D-***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.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	130	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	ıre Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.99	-				ļ.
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.19	-
Degradation co-efficient (**)	Cdh	0.98	-			-	l
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.98	-				!
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	5.79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
heating Power consumption in modes other than ac	tive mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P_{TO}	0.022	kW			I	
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	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	4972	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre – Manisa, Turkey

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



Kenichi SAITO

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

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-SWM80YAA			
		Indoor unit:		ERST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	183	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoor	or temperatui	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.61	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.19	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ve mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.5	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	3555	kWh				
For heat pump combination heater:		•					
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre – I	Manisa, Turkey
The identification and signature of the person	n empowere	d to bind the	supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-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-SWM80YAA					
		Indoor unit:		ERST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	112	%		
Declared capacity for heating for part load a	t indoor	!		Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 °C and outdoor temperature	Τј			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj			
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.60	-		
Degradation co-efficient (**)	Cdh	0.99	-				ļ.		
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.33	-		
Degradation co-efficient (**)	Cdh	0.98	-				ļ.		
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.80	-		
Degradation co-efficient (**)	Cdh	0.98	-				l		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.65	-		
Degradation co-efficient (**)	Cdh	0.95	-				l		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.45	-		
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.35	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.45	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode		•	Supplementary heater					
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	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									
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB						
Annual energy consumption	Q_{HE}	6875	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	105	%		
Daily electricity consumption	Qelec	4.820	kWh						
Annual electricity consumption	AEC	1060	kWh						
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING TI	JRKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – I	Manisa, Turkev		
The identification and signature of the person				,			,		
•				Kenichi SAITO					

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

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^(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

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

Model(s):	Outdoor unit:			PUZ-SWM80YAA					
		Indoor unit:		ERST17D-***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.					
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	142	%		
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	<u>, </u>		
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj			
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.43	-		
Degradation co-efficient (**)	Cdh	0.98	-				ı		
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	4.15	-		
Degradation co-efficient (**)	Cdh	0.98	-				ı		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.45	-		
Degradation co-efficient (**)	Cdh	0.97	-			μ	I.		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.40	-		
Degradation co-efficient (**)	Cdh	0.95	-			L	J		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.00	-		
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.40	-		
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater		ı			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	kW		
Thermostat-off mode	P_{TO}	0.022	kW			ı			
Standby mode	P_{SB}	0.022	kW	Type of energy input	i	Electrical			
Crankcase heater mode	P _{CK}	0.000	kW		i				
Other items			l l						
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB			L	J		
Annual energy consumption	Q_{HE}	5444	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	105	%		
Daily electricity consumption	Qelec	4.820	kWh			l	j		
Annual electricity consumption	AEC	1060	kWh						
Contact details		1		1					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the person	n empowere	d to bind the	e supplier;	Karishi CAITO					
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Kenichi SAITO Manager, Quality Assuarance Department					

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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-SWM80YAA			
		Indoor unit:		ERST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	166	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-			,	!
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-			-	!
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.97	-				!
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode	-		Supplementary heater			
Off mode	P _{OFF}	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			•				
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	2532	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – I	Manisa, Turkey
The identification and signature of the perso	ii eiiipowere	u io pina tne	s supplier;	Kenichi SAITO			
The signature is signed in the average clim	nate / mediu	m-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 unit	:	PUZ-SWM80YAA			
		Indoor unit:		ERST17D-***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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	225	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	1	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater		<u> </u>	
Off mode	P _{OFF}	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				
Annual energy consumption	Q_{HE}	1876	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							_
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey
The identification and signature of the person	i empowere	u io bina the	s supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-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.

 $[\]bullet \ \, \text{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-SWM80YAA			
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	130	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio f	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	ure Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	3.19	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	2.8	kW	Tj = +12 °C	COPd	5.79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.6	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q_{HE}	4972	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre – Manisa, Turkey

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



Kenichi SAITO

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

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-SWM80YAA			
		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.			
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	183	%
Declared capacity for heating for part load a	at indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	,
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	re Tj	_
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.61	-
Degradation co-efficient (**)	Cdh	0.98	-			_	
Tj = +12 °C	Pdh	3.0	kW	Tj = +12 °C	COPd	6.19	-
Degradation co-efficient (**)	Cdh	0.96	-			_	
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.20	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-
			İ _				l <u>-</u>
Bivalent temperature Reference design conditions for space	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	tive mode	T		Supplementary heater		,	ı
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.5	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							1
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 54	dB				
Annual energy consumption	Q _{HE}	3555	kWh				
For heat pump combination heater:	1			T 1		,	ı
Declared load profile		L		Water heating energy efficiency	ηwh	134	%
Daily electricity consumption	Qelec	4.080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details	II IEACTI IDINIC T	LIDKEY POINT OF	OCK COMPANI	Manine OCD 4 Kining Kanillian and Mark About 197	du Dudue d'Ale de	0. V	Manias Tout
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN The identification and signature of the person				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zoi	iu buivari No:19	e runusemre –	vianisa, Turkey
The identification and signature of the perso	a empowele	a to billa the	ouppliel,	Kenichi SAITO			
The signature is signed in the average clim	nate / mediu	m-temperatu	re section	Manager, Quality Assuarance Department			

Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

 $[\]cdot \ \, \text{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-SWM80YAA			
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	112	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	,
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdo	or temperatui	re Tj	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0.99	-			l .	ı
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.98	-			l	I.
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.98	-				ı
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0.95	-				ı
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.45	-
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	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							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				'
Annual energy consumption	Q_{HE}	6875	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	109	%
Daily electricity consumption	Qelec	4.750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey
The identification and signature of the person	n empowere	a to bind the	e supplier;	Kenichi SAITO			
The signature is signed in the average clim	ate / mediu	m-temperatu	ıre section.	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 unit:			PUZ-SWM80YAA					
		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.					
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit		
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	142	%		
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	<u>, </u>		
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj			
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.43	-		
Degradation co-efficient (**)	Cdh	0.98	-				ı		
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	4.15	-		
Degradation co-efficient (**)	Cdh	0.98	-				ı		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.45	-		
Degradation co-efficient (**)	Cdh	0.97	-			<u> </u>	I.		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.40	-		
Degradation co-efficient (**)	Cdh	0.95	-				J		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.00	-		
Tj = operation limit temperature (***)	Pdh	4.7	kW	Tj = operation limit temperature (***)	COPd	1.40	-		
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	ive mode			Supplementary heater		l .			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	3.3	kW		
Thermostat-off mode	P_{TO}	0.022	kW			l .			
Standby mode	P_{SB}	0.022	kW	Type of energy input	ì	Electrical			
Crankcase heater mode	P _{CK}	0.000	kW		ì				
Other items									
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB				I.		
Annual energy consumption	Q_{HE}	5444	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	109	%		
Daily electricity consumption	Qelec	4.750	kWh				j		
Annual electricity consumption	AEC	1044	kWh						
Contact details		1		1					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	UFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey		
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kariahi CAITO					
The signature is signed in the average clim	ate / mediu	m-temperatu	re section.	Kenichi SAITO 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 unit:		PUZ-SWM80YAA				
		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	ltem	Symbol	Value	Unit	
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηѕ	166	%	
Declared capacity for heating for part load a	t indoor	•	Declared coefficient of performance or primary energy ratio for					
temperature 20 °C and outdoor temperature T j				part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = - 7 °C	Pdh	1	kW	Tj = - 7 °C	COPd	-	-	
Degradation co-efficient (**)	Cdh	-	-					
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	2.00	-	
Degradation co-efficient (**)	Cdh	1.00	-					
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	=	
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C	
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than act	Supplementary heater							
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P_{TO}	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		•	<u> </u>					
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB					
Annual energy consumption	Q_{HE}	2532	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	139	%	
Daily electricity consumption	Qelec	3.820	kWh					
Annual electricity consumption	AEC	841	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre – N	Manisa, Turkey	
The identification and signature of the person	n empowere	d to bind the	e supplier;	Kenichi SAITO				
The signature is signed in the average clim	Manager, Quality Assuarance Department							
<u> </u>				TURKEY				

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

 $[\]bullet \ \, \text{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):	OMENTATIO	Outdoor unit	:	PUZ-SWM80YAA				
		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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	225	%	
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or		
temperature 20 °C and outdoor temperature T j				part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-	
Degradation co-efficient (**)	Cdh	-	-					
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.65	-	
Degradation co-efficient (**)	Cdh	0.99	-			•		
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.65	-	
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C	
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	P _{OFF}	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								
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dB					
Annual energy consumption	Q_{HE}	1876	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	139	%	
Daily electricity consumption	Qelec	3.820	kWh					
Annual electricity consumption	AEC	841	kWh					
Contact details	_	_						
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:19	9 Yunusemre –	Manisa, Turkey	
The identification and signature of the perso	n empowere	u to billa the	s supplier;	Kenichi SAITO				
The signature is signed in the average climate / medium-temperature section.				Manager, Quality Assuarance Department				
				TURKEY				

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

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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.