



PUZ-SWM120VAA

PUZ-SWM120YAA

UZ-SWM140VAA

0117-SWM140VAA UZ-SHWM60VAA

UZ-SHWM80VAA

UZ-SHWM80YAA PUZ-SHWM100VAA

PUZ-SHWM100YAA

ERSD-****C

EHSD-****D

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

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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 813/2013. 1.SPACE HEATER For medium-temperature application
3 6 8 11 9 13 15 16 21 22 17 18 25 4 6 8 11 For low-temperature application
9 13 15 16 21 22 17 18 25 space space | A++ | 6 | 126 | 3834 | 41 | 6 | 6 | 111 | 150 | 5181 | 2003 | 54 | ✓ | A++ | 6 | 181 | 2701 | 41 | 6 | 6 | 135 | 208 | 4284 | 1519 | 54 |
| ✓ | A++ | 8 | 129 | 5016 | 41 | 8 | 8 | 112 | 167 | 6857 | 2517 | 54 | ✓ | A++ | 8 | 184 | 3543 | 41 | 8 | 8 | 142 | 227 | 5427 | 1862 | 54 |
| ✓ | A++ | 8 | 130 | 4961 | 41 | 8 | 8 | 112 | 167 | 6857 | 2517 | 54 | ✓ | A++ | 8 | 184 | 3543 | 41 | 8 | 8 | 142 | 227 | 5427 | 1862 | 54 EHSD-****D PUZ-SWM60VAA UZ-SWM80VAA ERSD-***D PUZ-SWM80YAA
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25 het geluidsvermogensniveau L _{WA} buiten äänitehotaso L _{WA} ulkona	Sound power level Lw. outdoor	24 de energie-efficientie voor waterverwarming onder warmere klimaatomstandigheden vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa	Water heating energy efficiency under warmer climate conditions	23 de energie-efficientie voor waterverwarming onder koudere klimaatomstandigheden vedenl\(\text{amin}\) mityksen energiatehokkuus kylmiss\(\text{a}\) ilmasto-olosuhteissa	Water heating energy efficiency under colder clima	tilalämmityksen kausittainen energiatehokkuus lämpimissä ilmasto-olosuhteissa	22 de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	Seasonal space heating energy efficiency under warmer climate conditions	tilalämmityksen kausittainen energiatehokkuus kylmissä ilmasto-olosuhteissa	de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	Seasonal space heating energy efficiency under colder climate conditions	veder	20 voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere	For water heating, annual energy consumption under warmer climate conditions	klimaalomstandigheden vedenlämmityksestä vuotuinen sähkönkulutus kylmissä ilmasto-olosuhteissa	yoor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere	For water heating, annual energy consumption under colder climate conditions	18 Klimaatomstandigheden Klimaatomstandigheden Itlalämmityksestä vuotuinen enerajankulutus lämpimissä ilmasto-olosuhteissa	<u> </u>	Ilmasto-olosunia	17 Voor ruimteverwarming, net jaariijkse energieverbruik onder koudere klimaatomstandigheden klinimaatomstandigheden klinimaat	nsumption under colder clir	nimellislämpöteho, lämpimissä ilmasto-olosuhteissa	Rated heat output under warmer climate conditions de nominale warmteafoiffe, onder warmere klimaatomstandicheden	de nominale warmteafgifte, onder koudere klimaatomstandigheden nimellislämpöteho, kylmissä ilmasto-olosuhteissa	Rated heat output under colder cli	Werken uitsluitend in de dallura	äänitehotaso L _{WA} sisi	Sound power level L _{WA} indoor 13 het geluidsvermogensniveau L _{WA} binnen	12 de ei lei gle-emicieli ile voor watervei warning onder gerindoelde minadorinskal digneder; vedenlämmityksen energiatehokkuus(keskimääräisissä ilmasto-olosuhteissa)	water neamly energy enioency under average crimate conductors	tilalammityksen kausittainen energiatenokkuus(keskimaaraisissa ilmasto-olosunteissa) Mater heating energy efficiency under guerone elimate conditione	de selzoensgebonden energie-efficientie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	cienc	vedenlämmityksestä vuotuinen sähkönkulutus(keskimääräisissä ilmasto-olosuhteissa)	voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandigheden)	For water heating, annual electricity consumption under average climate conditions	tilalämmityksestä vuotuinen energiankulutus(keskimääräisissä ilmasto-olosuhteissa)	yoor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden)	For space heating, annual energy consumption under average climate conditions	de nominale warmteafgifte(onder gemiddelde klimaatomstandigheden) nimellislämpöteho(keskimääräisissä ilmasto-olosuhteissa)	vedenlämmityksen energiatehokkuusluokka Rated heat output under average climate conditions	Water heating energy efficiency class 7 de energie-efficiëntieklasse voor waterverwarming	6 de seizoensgebonden energie-efficiëntieklasse voor ruimteverwarming tilalämmityksen kausittainen energiatehokkuusluokka	Seasonal space heating energy eff	Opgegeven capacitisprofiel Ilmoitettu kuormitusareriiii	matalanlämpötilan sovellus Declared load nrofile	Low-temperature application 4 lagetemperatuur-toepassing	keskilämpötilan sovellus	Medium-temperature application	2 binnenunit Sisävksikkö	Ulkoyksikkö Indoor unit	Outdoor unit buitenunit	Nederlands suomi	English
Ljudeffektníván L _{WA} i útomhus hladína akustického výkonu L _{WA} ve venkovním prostoru	der Schallleistungspegel L.w., im Freien	Energieffektívítet vid vattenuppvármning under varmare klimatförhállanden energetická účinnost ohřevu vody za teplejších klimatických podmínek	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	Energieffektívítet vát vattenuppvármning under kallare klimatforhállanden energetická účinnost ohřevu vody za chladnějších klimatických podmínek	die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen	ergetická účinnost vytápění za teplejších k	Säsongsmedelverkningsgrad för rumsuppvärmning under varmare klimatförhållanden	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	sezonní energetická účinnost vyťapění za chladnějších klimatických podmínek	Säsongsmedelverkningsgrad för rumsuppvärmning under kallare klimatförhållanden	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen	pro ohřev vody – roční spotřeba elektrické energie za teplejších klimatických podmínek	Itnissen För vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden	für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhä	pro ohřev vody – roční spotřeba elektrické energie za chladnějších klimatických podmínek	uppvärmning, årlig elförbrukning	für die Warmwasserbereitung, der jährliche Stromverbrauch bei kälteren Klimaverhä	pro vylápění – roční spotřeba energie za teplejších klimatických podmínek	iui de Nadiilletzülig, dei jaliilidie Elietgeverbladdi bei wallieteti Nilliavettallinssett	vytapeni – rocni s		aumheizung, d	enovitý tepelný výkon za teplejších klimatických podmínek	die Wärmenennleistung bei wärmeren Klimaverhältnissen Nominell avolven värmeeffekt vid varmare klimatförhållanden	Nominell avgiven värmeeffekt vid kallare klimatförhållanden jmenovitý tepelný výkon za chladnějších klimatíckých podmínek	die Wärmenennleistung bei kälteren Klimaverhältnissen	drivas uteslutande under perioder med låg belastning	hadina akustického výkonu L _{WA} ve vnitřním prostoru dass sin ausschliedlicher Bertieb des Kombiboizneršies 71 Schwachlastzeiten	der Schallleistungspegel L _{wA} , in Gebäuden Ljudeffektnivå L _{wA} i inomhus	n) Erietgeriekwitet vor vatteriuppvarminitg/vor genoristimutga kintatioritatianitetri) energetická účinnost ohřevu vody za průměrných klimatických podmínek	1 9	2 %	delverkningsgrad för rumsu	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhä Itnissen	klimatických podr	vattenuppvärmning, årlig elförbrukning(vid genomsnittliga klim	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	pro vytápění – roční spotřeba energie za průměrných klimatických podmínek	För rumsuppvärmning, årlig energiförbrukning(vid genomsnittliga klimatförhållanden)	für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhä Itnissen	Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden) imenovitý tepelný výkon(za průměrných klimatíckých podmínek)	třída energetické účinnosti ohřevu vody die Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	die Klasse für die Warmwasserbereitungs-Energieeffizienz energieffektivitetsklass vid vattenuppvärmning	säsongsrelaterade energieffektivítetsklass vid rumsuppvärmning Ifrida sezonní energetické účinnosti vytápění	die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz	Deklareraniya zatezenek	nizkoteplotní aplikace Angerehanes i astrodi	Niedertemperaturanwendung lägtemperaturapplikation	středněteplotní aplikace	Mitteltemperaturanwendung modi unterspecturenelization	Inomhusenhet Vniffni iednolka	Venkovní jednotka Innengerät	Außengerät Utomhusenhet	Öeština	Deutsch
lydeffektniveau L _{WA} i ude нивото на звуковата мощност L _{WA} на открито	rieur	energiaffektiviteten ved vandopvarmning under varmere klimaforhold енергийната ефективност при подгряване на вода при по-топли климатични условия	l'ifficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	energieffektiviteten ved vandopvarmning under koldere klimaforhold енергийната ефективност при подгряване на вода при по-студени климатични услови я	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	сезонната енергийна ефективност при отопление при по-топли климатични условия	årsvirkningsgraden ved rumopvarmning under varmere klimaforhold	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus chaudes	сезонната енергийна ефективност при отопление при по-студени климатични услових	arsvirkningsgraden ved rumopvarmning under koldere klimaforhold	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus froides	за подгряване на вода, годишното потребление на електроенергия при по-топли климатични условия	climatiques plus chaudes for vandopvarmning det årlige elforbrug under varmere klimaforhold	иматични условия pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions	за подгряване на вода, годишното потребление на електроенергия при по-студени кл		pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions	за отопление, годишното потребление на енергия при по-топли климатични условия	pour le cileutage des locaux, la consonimation affiniere d'eneigne, dans les conduitors climatiques plus chaudes for nunonvariant det àdice energifiche de trader vermans l'impéritored for nunonvariant det àdice energifiche de trader vermans l'impéritored.	ного погреоление на енергия при по-студени климатич	pyarmning det artige energitorbrug under koldere klimatornold	pour le chauffage des locaux, la consommation annuelle d'energie, dans les conditions climatiques plus froides		la puissance thermique nominale, dans les conditions climatiques plus chaudes den nominelle nytteeffekt under varmere klimatorhold	den nominelle nytteeffekt under koldere klimaforhold номиналната топлинна мощност при по-студени климатични условия	la puissance thermique nominale, dans les conditions climatiques plus froides	fungere uden for spitches destructions and the spitches destruction of the spitches de	нивото на звуковата мощност L _{IVIA} на закрито	le niveau de puissance acoustique L_{WA} , à l'intérieur lydeffektniveauet L_{WA} i inde	енеі увенежильне і чео чапофиятів іні успава увенентя інщі у кіппаютной і енергийната ефективност при подгряване на вода(при средни климатични условия)	noyennes moyennes de condesse de constant	сезонната енергиина ефективност при отопление(при средни климатични условия) Гоббрасті 6 Anaroditivus pour la chauffasa de l'apuldans les conditions climativuse	arsvirkningsgraden ved rumopvarmning(under gennemsnitlige klimaforhold)	l'efficacité énergétique saisonnière pour le chauffage des locaux(dans les conditions climatiques moyennes)	а, годишното потребление(при средни	for vandopvarmning det årlige elforbrug(under gennemsnitlige klimaforhold)	pour le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions climatiques moyennes)	за отопление, годишното потребление на енергия(при средни климатични условия)	for rumopvarmning det årlige energiforbrug(under gennemsnitlige klimaforhold)	pour le chauffage des locaux, la consommation annuelle d'énergie (dans les conditions climatiques movennes)	den nominelle nytteeffekt(under gennemsnitlige klimaforhold) номиналната топлинна мощност(при средни климатични условия)	класът на енергийната ефективност при подгряване на вода la puissance thermique nominale dans les conditions climatiques moyennes	la classe d'efficacité énergétique, pour le chauffage de l'eau klassen for ársvirkningsgrad ved vandopvarmning	Klassen for arsvirkningsgrad ved rumopvarmning класът на сезонната отоплителна енертийна ефективност	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	Angivet forbrowsprofil Angivet reprosprofil Obsessed reprofil Obsessed reprosprofil Obsessed reprosprofil Obsessed reprofil Obse	нискотемпературни приложения Profil de soutirage déclaré	l'application à basse température lavtemperaturanvendelsen	ппоичентиретацитатичетновиет среднотемпературното приложение	Population may a moyenne température	Indenders enhed Bhroeiling 1900	Външно тяло unité intérieure	unité extérieure Udendørs enhed	Български	Français
O nível de poléncia sonora L _{IMA} no exterior poziom mocy akustycznej L _{IMA} na zewnątrz	il livello di potenza sonora L.w. all'esterno	a eficiência energética do aquecimento de água em condições climáticas mais quentes efektywność energetyczna poddrzewania wody w warunkach klimatu cieplego	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più calde	a eficiência energética do aquecimento de água em condições climáticas mais frias a efektywność energetyczna podgrzewania wody w warunkach klimatu chłodnego	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde	sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu ciepł ego	A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais quentes	l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più calde	sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu chł odnego	A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais frias	l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più fredde	mais quenies i do podgrzewania wody, roczne zużycie energii elektrycznej w warunkach klimatu ciepłego	calde para o aquecimento de água, o consumo anual de eletricidade em condições climáticas	klimatu chodnego kimatu chodnego per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più	. ≤ 3	fredde para o aquecimento de água, o consumo anual de eletricidade em condições climáticas	cieplego per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più	quentes quentes w odniesieniu do oarzewania pomieszczeń, roczne zużycie energii w warunkach klimatu	dalielio dalibielie, il consulto allito di energia, il colidizioni cilinaticie solimanto ambianta o consumo anual da anarcia am condições climáticas	w odniesienu do ogrzewania pomieszczen, roczne zużycie energii w warunkach kilmologo łodnego and identification in application	Para o aquecimento ambiente, o consumo anual de energia em condições cilmaticas frias	idamento d'ambiente, il consumo annuo di energia, in condizioni climatiche	znamionowa moc cieplna w warunkach klimatu cieplego	la potenza termica nominale, in condizioni climatiche più calde A potenzia calorifica nominal em condicões climaticas mais quentes	A potência calorifica nominal em condições climáticas mais frias znamionowa moc cieplna w warunkach klimatu chłodnego	la potenza termica nominale, in condizioni climatiche più fredde	de funcionario a contra de contra de pico de funcionario a contra contra de pico personario indurio a contra contra contra de pico personario indurio a contra c	poziom mocy akustycznej L _{WA} w pomieszczeniu finzione soltanto durante le cre mode	il livello di potenza sonora L _{WA} all'interno O nivel de potência sonora L _{WA} no interior	a eincierica energetyczna podgrzewania wody(w warunkach klimatu umiarkowanego)	reinderiza eneigenda di riscandamento dei acqua(in condizioni ciintatorie medie)	sc energetyczna ogrze	A eficiência energética do aquecimento ambiente sazonal (em condições climáticas mé dias)	tica stagionale di riscaldamento d'ambiente(in condizioni climatiche	grzewania v go)	para o aquecimento de água, o consumo anual de eletricidade(em condições climáticas m édias)	per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)	w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii(w warunkach klimatu umiarkowanego)	Para o aquecimento ambiente, o consumo anual de energia(em condições climáticas mé dias)	per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche medie)	A potência calorifica nominal(em condições climáticas médias) znamionowa moc cieplna(w warunkach klimatu umiarkowanego)	klasa efektywności energetycznej podgrzewania wody la potenza termica nominale(in condizioni climatiche medie)	la classe di efficienza energetica del riscaldamento dell'acqua A classe de eficiência energética do aquecimento de água	A classe de eficiência energética do aquecimento ambiente sazonal klasa sezonowej efektywności energetycznej ogrzewania pomieszczeń	la classe di efficienza energetica stagionale del riscaldamento d'ambiente	Petil de cara declarado Petil de cara declarado Deklarowany notil obciszóń	zastosowania w niskich temperaturach Profilo di carico dichiarato	le applicazioni a bassa temperatura a aplicação a baixa temperatura	d abricação a ineula terriperatura zastosowania w średnich temperaturach	pencona remissioni a media temperatura le aplicação o média temperatura	unidade interior lednostka wewnetrzna	jednostka zewnętrzna unità interna	unità esterna unidade exterior	Polski	Italiano
η στάθμη ηχητικής ισχύος L _{WA} εξωτερικού χώρου -	el nivel de potencia acústica L.w. en exteriores	η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες -	la eficiencia energética de caldeo de agua en condiciones climáticas más cálidas	η ενεργειακή απόδοση της θέρμανσης νερού υπό ψυχρότερες κλιματικές συνθήκες	la eficiencia energética de caldeo de agua en condiciones climáticas más frías		η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό θερμότερες κλιματικές συνθή κες	la eficiencia energética estacional de calefacción en condiciones climáticas más cálidas		η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό ψυχρότερες κλιματικές συνθή κες	la eficiencia energética estacional de calefacción en condiciones climáticas más frías	- OUVBIKEK	lidas για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές	para calentar agua, el consumo anual de electricidad en condiciones climáticas más cá	- Sankelykes	για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικέ	para calentar agua, el consumo anual de electricidad en condiciones climáticas más frías		para calentar espacios, el consumo anual de energia en condiciones cilinaticas mas ca lídas sua Bécunivam vidoou la crádia veranciák, can evécucior más Becunácioses y kindrukés mindiáves		για θερμανσή χωρου, η επισία καταναλωσή ενεργείας υπο ψυχροτερες κλιματικές συνθήκες	_	ι ανόβαστική ακβαίν το καρβαστάς μαθαπικός συντούμες	la potencia calorifica nominal en condiciones climáticas más cálidas η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες	η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες	la potencia calorífica nominal en condiciones climáticas más frías	λειτουργία μόνο εκτός των ωρών αιχμής	funcionar solamente dirente las horas de haja demanda	el nivel de potencia acústica L _{WA} en interiores η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου	- I svaljenikal mnodoni oshjavanik sabodinio jasosk valpanikos onavalkos)	ia enciencia eneigenca del caldeo de agualen condiciones cintadicas medias)	la oficiencia enerciática del raldao de aqualen condiciones climáticas modice.	η ενεργειακή απόδοση της εποχιακής θέρμανσης χωρου(υπό μέσες κλιματικές συνθήκες)	la eficiencia energética estacional de calefacción(en condiciones climáticas medias)		για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(υπό μέσες κλιματικές συνθήκες)	para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias)		για τη θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας(υπό μέσες κλιματικές συνθήκες)	para calentar espacios, el consumo anual de energia(en condiciones climáticas medias)	η ονομαστική θερμική ισχύς(υπό μέσες κλιματικές συνθήκες) -	la potencia calorifica nominal(en condiciones climáticas medias)	la clase de eficiencia energética del caldeo de agua η τάξη ενεργειακής απόδοσης θέρμανσης νερού	η τάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου	la clase de eficiencia energética estacional de calefacción	Δηλωμένο προφίλ φορτίου	Perfil de carna declarado	la aplicación de baja temperatura η εφαρμογή σε χαμηλή θερμοκρασία	- εφαίμογη σε μεσή σεμμοκρασία	la aplicación de media temperatura	Εσωτερική μονάδα	unidad interior	unidad exterior Εξωτερική μονάδα	- EMITVIKO	Español Estanurá

lodel(s):		Outdoor unit:		PUZ-SHWM120VAA			
		Indoor unit:		EHST20D-****D			
uir-to-water heat pump:				yes			
/ater-to-water heat pump:				no			
rine-to-water heat pump:				no			
ow-temperature heat pump:				no			
quipped with a supplementary heater:				yes			
leat pump combination heater:				yes			
arameters for				medium-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	136	%
eclared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	ary energy	ratio for	
emperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 °C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2. 13	_
Degradation co-efficient (**)	Cdh	1.00	_				
Tj = + 2 ° C	Pdh	6. 5	kW	Tj = + 2 ° C	COPd	3. 36	_
Degradation co-efficient (**)	Cdh	0. 99	_		55. 4	0.00	
Tj = + 7 ° C	Pdh	5. 0	kW	Ti = + 7 ° C	COPd	4. 75	_
Degradation co-efficient (**)	Cdh	0. 99	_		55. 4		
Tj = +12 ° C	Pdh	3. 8	kW	Tj = +12 ° C	COPd	6. 32	_
Degradation co-efficient (**)	Cdh	0. 98	_				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	1. 78	_
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	1. 78	-
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	° C	Heating water operating limit temperature	WTOL	60	°C
ower consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P_{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{T0}	0. 015	kW			•	
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0. 000	kW				
ther items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	7169	kWh				
or heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
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[·] Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

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

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

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

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

Model(s):		Outdoor uni	t:	PUZ-SHWM120VAA			
		Indoor unit	:	EHST20D-****D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				low-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	179	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	ary energy	ratio for	
temperature 20 °C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = − 7 ° C	Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2. 85	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6. 5	kW	Tj = + 2 ° C	COPd	4. 53	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6. 04	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 0	kW	Tj = +12 ° C	COPd	7. 02	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 43	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 43	-
			•				
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	T0L	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	° C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active m	ode	1	Supplementary heater		•	
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{T0}	0. 015	kW				
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0. 000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	${\rm m}^3/{\rm h}$
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	5481	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	u Bulvari No:	19 Yunusemre - Ma	anisa, Turkey
The identification and signature of th	e hei sou	empowered 1	נט טוווט נואנ	e supplier; Kenichi SAITO			
The signature is signed in the average clim	mate / medi	um-temperatu	re 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 uni	t:	PUZ-SHWM120VAA			
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	117	%
Declared capacity for heating for part	load at	indoor	<u>I</u>	Declared coefficient of performance or prim	ary energy	ratio for	
temperature 20 °C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor ter	mperature Tj	i
Tj = - 7 ° C	Pdh	7. 3	kW	Tj = - 7 ° C	COPd	2. 70	_
Degradation co-efficient (**)	Cdh	0. 99	_				
Tj = + 2 ° C	Pdh	4. 4	kW	Tj = + 2 ° C	COPd	3. 50	_
Degradation co-efficient (**)	Cdh	0. 99	_				
Tj = + 7 ° C	Pdh	3. 8	kW	Tj = + 7 ° C	COPd	4. 78	_
Degradation co-efficient (**)	Cdh	0. 98	_				
Tj = +12 ° C	Pdh	4. 4	kW	Tj = +12 ° C	COPd	7. 00	_
Degradation co-efficient (**)	Cdh	0. 98	_				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	1. 55	_
Tj = operation limit temperature (***)	Pdh	8. 2	kW	Tj = operation limit temperature (***)	COPd	1. 54	_
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 55	_
Bivalent temperature	Tbiv	-16	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-22	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than	active mo	ode	I	Supplementary heater			
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	3. 9	kW
Thermostat-off mode	P_{T0}	0. 015	kW			-	
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0. 000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	9902	kWh				
For heat pump combination heater:			,	-			
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUEACTURING T	TIDKEN TOTAL C	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Rulvari No:	10 Vununomro - I	Janica Turkov
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as and orginator of the	, , 01 3011	p = 1101 Ou	-> > ma til	Kenichi SAITO			
The signature is signed in the average clin	mate / medi	um-temperatu	re section.	Manager, Quality Assuarance Department			
				TURKEY			

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

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

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

Model(s):		Outdoor uni	t:	PUZ-SHWM120VAA			
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	149	%
Declared capacity for heating for part	load at	indoor	l	Declared coefficient of performance or prim	ary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20°C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	7. 3	kW	Tj = − 7 ° C	COPd	3. 67	-
Degradation co-efficient (**)	Cdh	0. 99	_				
Tj = + 2 ° C	Pdh	4. 5	kW	Tj = + 2 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0. 99	_				
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5. 38	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 6	kW	Tj = +12 ° C	COPd	8. 02	-
Degradation co-efficient (**)	Cdh	0. 97	_				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	2. 08	-
Tj = operation limit temperature (***)	Pdh	8. 7	kW	Tj = operation limit temperature (***)	COPd	1. 56	-
Tj = - 15 $^{\circ}$ C (if TOL $<$ - 20 $^{\circ}$ C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 04	-
Bivalent temperature	Tbiv	-16	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdes i gnh	-22	° C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	ode		Supplementary heater			
Off mode	P_{0FF}	0. 015	kW	Rated heat output (*)	Psup	3. 4	kW
Thermostat-off mode	P_{T0}	0. 015	kW				
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0. 000	kW				
Other items						T	
Capacity control		variable	ı	Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7843	kWh				
For heat pump combination heater:						Т Т	
Declared load profile		L	ı	Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	k₩h				
Annual electricity consumption	AEC	1044	kWh				
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUEACTURING	LIIBKEA IUINI 6	TUCK CUMDANIA	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	lii Riilvari Na:	10 Yunucamra - M	lanisa Turkov
The identification and signature of the					- Duivail NO.	iv iunusciiile - M	umou, rurkey
The signature is signed in the average cli	mate / medi	um-temperatu 	re section.	Kenichi SAITO Manager, Quality Assuarance Department			
				TURKEY			

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

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

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

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

Model(s):		Outdoor uni	t:	PUZ-SHWM120VAA			
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	161	%
Declared capacity for heating for part	load at	indoor	I	Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 ° C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = − 7 ° C	Pdh	-	kW	Tj = − 7 ° C	COPd	-	
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	2. 05	
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	7. 7	kW	Tj = + 7 ° C	COPd	3. 42	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	5. 2	kW	Tj = +12 ° C	COPd	5. 65	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 05	-
			J				
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	ode	I	Supplementary heater			
Off mode	P _{OFF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0. 015	kW		<u> </u>		
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0. 000	kW				
Other items			l .				
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m^3/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	3952	kWh				
For heat pump combination heater:				-			
Declared load profile		L		Water heating energy efficiency	η wh	139	%
Daily electricity consumption	Qelec	3. 820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAI				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	u Bulvari No:	19 Yunusemre - N	Manisa, Turkey
The identification and signature of th	e person	empowered	to bind th	e supplier; Kenichi SAITO			
The signature is signed in the average clim	nate / medi	um-temperatu	re section.	Manager, Quality Assuarance Department			
		-		TURKEY			

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

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

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

Model(s):		Outdoor uni	t:	PUZ-SHWM120VAA			
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	232	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 ° C and outdoor temperat	ure T j			part load at indoor temperature 20 ° C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	_	-				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5. 32	_
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4. 4	kW	Tj = +12 ° C	COPd	7. 46	-
Degradation co-efficient (**)	Cdh	0. 98	_				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	3. 30	_
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	3. 30	_
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than	active mo	ode		Supplementary heater		1	
Off mode	P _{OFF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{T0}	0. 015	kW			•	
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0. 000	kW				
Other items			Į.				
Capacity control		variable		Rated air flow rate, outdoors	_	2640	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	2753	kWh				
For heat pump combination heater:			*				
Declared load profile		L		Water heating energy efficiency	η wh	139	%
Daily electricity consumption	Qelec	3. 820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details		•	"				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No:	19 Yunusemre - Ma	anisa, Turkey
The identification and signature of th	ne person	empowered t	o bind the				
The signature is signed in the average cli	mate / medi	um-temperatu	re section	Kenichi SAITO 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-SHWM120VAA			
		Indoor unit		ERST20D-****D			
Air-to-water heat pump:				yes			
Nater-to-water heat pump:				no			
Brine-to-water heat pump:				no			
_ow-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	12. 1	kW	Seasonal space heating energy efficiency	ηs	138	%
Declared capacity for heating for par	t load at	indoor		Declared coefficient of performance or prim	ary energy	ratio for	
temperature 20 °C and outdoor tempera	ture T j			part load at indoor temperature 20 °C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2. 13	_
Degradation co-efficient (**)	Cdh	1.00	_				
T j = + 2 ° C	Pdh	6. 5	kW	Tj = + 2 ° C	COPd	3. 36	_
Degradation co-efficient (**)	Cdh	0. 99	_		55. 4	0.00	
T j = + 7 ° C	Pdh	5. 0	kW	Ti = + 7 ° C	COPd	4. 75	_
Degradation co-efficient (**)	Cdh	0.99	_		55. 4		
T j = +12 ° C	Pdh	3. 8	kW	Tj = +12 ° C	COPd	6. 32	_
Degradation co-efficient (**)	Cdh	0. 98	_		55. 4	0.02	
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	1. 78	_
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	1. 78	-
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° (
Reference design conditions for space heating	Tdes i gnh	-10	° C	Heating water operating limit temperature	WTOL	60	•
Power consumption in modes other than	active mo	ıde		Supplementary heater		1	
Off mode	P _{OFF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{T0}	0. 015	kW			!	
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0. 000	kW				
Other items		l l					
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m ³ /ł
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	7114	kWh				
For heat pump combination heater:		<u>. </u>		' '			
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual alastriaity consumption	AEC	898	kWh				
Annual electricity consumption				1 1			

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Kenichi SAITO Manager, Quality Assuarance Department TURKEY

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

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

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

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

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

Model(s):	Outdoor uni	t:	PUZ-SHWM120VAA						
		Indoor unit	:	ERST20D-****D					
Air-to-water heat pump:				yes					
Water-to-water heat pump:				no					
Brine-to-water heat pump:				no					
Low-temperature heat pump:				no					
Equipped with a supplementary heater:				yes					
Heat pump combination heater:				yes					
Parameters for				low-temperature application.					
Parameters for				average climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	181	%		
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for			
temperature 20 $^{\circ}$ C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor te	emperature Tj			
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = − 7 ° C	COPd	2. 85	-		
Degradation co-efficient (**)	Cdh	1.00	-						
Tj = + 2 ° C	Pdh	6. 5	kW	Tj = + 2 ° C	COPd	4. 53	-		
Degradation co-efficient (**)	Cdh	0. 99	-						
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6. 04	-		
Degradation co-efficient (**)	Cdh	0. 98	-						
Tj = +12 ° C	Pdh	4. 0	kW	Tj = +12 ° C	COPd	7. 02	-		
Degradation co-efficient (**)	Cdh	0. 97	-						
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 43	-		
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 43	-		
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	°C		
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than	active mo	ode		Supplementary heater		1			
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW		
Thermostat-off mode	P_{T0}	0. 015	kW						
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical			
Crankcase heater mode	P_{CK}	0.000	kW						
Other items		•							
Capacity control		variable		Rated air flow rate, outdoors	_	2640	m^3/h		
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA						
Annual energy consumption	\mathbf{Q}_{HE}	5426	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	η wh	134	%		
Daily electricity consumption	Qelec	4. 080	kWh						
Annual electricity consumption	AEC	898	kWh						
Contact details			-	-					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	u Bulvari No	:19 Yunusemre - Ma	anisa, Turkey		
The identification and signature of th	e person	empowered	to bind th	e supplier; Kenichi SAITO					
The signature is signed in the average clin	nate / medi	um-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.

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

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

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

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

Model(s):		Outdoor uni	t:	PUZ-SHWM120VAA			
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	118	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	ary energy	ratio for	
temperature 20 °C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	į
Tj = − 7 ° C	Pdh	7. 3	kW	Tj = - 7 ° C	COPd	2. 70	-
Degradation co-efficient (**)	Cdh	0. 99	_				
Tj = + 2 ° C	Pdh	4. 4	kW	Tj = + 2 ° C	COPd	3. 50	_
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	3. 8	kW	Tj = + 7 ° C	COPd	4. 78	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 4	kW	Tj = +12 ° C	COPd	7. 00	_
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	1. 55	-
Tj = operation limit temperature (***)	Pdh	8. 2	kW	Tj = operation limit temperature (***)	COPd	1. 54	-
Tj = -15 ° C (if $TOL < -20$ ° C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 55	-
Bivalent temperature	Tbiv	-16	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-22	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than	active mo	ode	l .	Supplementary heater			
Off mode	P_{0FF}	0. 015	kW	Rated heat output (*)	Psup	3. 9	kW
Thermostat-off mode	P_{T0}	0. 015	kW			-	
Standby mode	P_SB	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items			•				
Capacity control		variable		Rated air flow rate, outdoors	_	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				•
Annual energy consumption	\mathbf{Q}_{HE}	9869	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUEACTURING T	LIIDKEN IUINI G	TUCK CUMPANA	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Rulvari No:	10 Vunusamra - N	Manica Turkay
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				Kenichi SAITO			
The signature is signed in the average clin	mate / medi	um-temperatu	re section.	Manager, Quality Assuarance Department			
				TURKEY			

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

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

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

Model(s):		Outdoor uni	t:	PUZ-SHWM120VAA			
		Indoor unit	:	ERST20D-****D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				low-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	150	%
Declared capacity for heating for part	load at	indoor	I	Declared coefficient of performance or prim	ary energy	ratio for	
temperature 20 °C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	į
Tj = - 7 ° C	Pdh	7. 3	kW	Tj = - 7 ° C	COPd	3. 67	-
Degradation co-efficient (**)	Cdh	0. 99	-				ļ.
Tj = + 2 ° C	Pdh	4. 5	kW	Tj = + 2 ° C	COPd	4. 30	_
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5. 38	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 6	kW	Tj = +12 ° C	COPd	8. 02	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	2. 08	-
Tj = operation limit temperature (***)	Pdh	8. 7	kW	Tj = operation limit temperature (***)	COPd	1. 56	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 04	-
Bivalent temperature	Tbiv	-16	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-22	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than	active mo	ode		Supplementary heater			
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	3. 4	kW
Thermostat-off mode	P_{T0}	0. 015	kW			-	
Standby mode	P_SB	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	_	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				•
Annual energy consumption	\mathbf{Q}_{HE}	7810	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	TURKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - N	Manisa. Turkev
The identification and signature of the							,
g	-	•		Kenichi SAITO			
The signature is signed in the average cli	mate / medi	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
				TOTALL			

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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 uni	t:	PUZ-SHWM120VAA			
		Indoor unit	:	ERST20D-****D			
Air-to-water heat pump:				yes			
Water-to-water heat pump:				no			
Brine-to-water heat pump:				no			
Low-temperature heat pump:				no			
Equipped with a supplementary heater:				yes			
Heat pump combination heater:				yes			
Parameters for				medium-temperature application.			
Parameters for			warmer climate conditions.				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	163	%
Declared capacity for heating for part	load at	indoor	l	Declared coefficient of performance or prim	ary energy	ratio for	
temperature 20 ° C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = − 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	2. 05	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	7. 7	kW	Tj = + 7 ° C	COPd	3. 42	-
Degradation co-efficient (**)	Cdh	0. 99	_				
Tj = +12 ° C	Pdh	5. 2	kW	Tj = +12 ° C	COPd	5. 65	-
Degradation co-efficient (**)	Cdh	0. 98	_				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 05	-
			1				
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than	active mo	ode	I	Supplementary heater		1	
Off mode	P_{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{T0}	0. 015	kW			'	
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items		•					
Capacity control		variable		Rated air flow rate, outdoors	_	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	3886	kWh				
For heat pump combination heater:				-			
Declared load profile		L		Water heating energy efficiency	η wh	139	%
Daily electricity consumption	Qelec	3. 820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	u Bulvari No:	19 Yunusemre - N	Manisa, Turkey
The identification and signature of th	e person	empowered	to bind th	e supplier; Kenichi SAITO			
The signature is signed in the average clim	nate / medi	um-temperatu	re section.	Manager, Quality Assuarance Department			
		TURKEY					

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

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

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

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

Model(s):		Outdoor uni	t:	PUZ-SHWM120VAA			
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	238	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 ° C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = − 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	1. 00	-				
Tj = + 7 ° C	Pdh	7. 7	kW	Tj = + 7 ° C	COPd	5. 32	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4. 4	kW	Tj = +12 ° C	COPd	7. 46	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	3. 30	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	3. 30	-
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdes i gnh	2	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than	active mo	ode		Supplementary heater		1	
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{T0}	0. 015	kW			•	
Standby mode	P_SB	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	${\rm m}^3/{\rm h}$
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	2687	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	139	%
Daily electricity consumption	Qelec	3. 820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details	MILEACTURING 1	LIDKEN IVINE 6.	LUCK COMPANY	Manica OSR 4 Kisim Kasilikayash Mah Abmat Nazif Zari	lu Rulvari No:	10 Vunusamra - N	Janica Turkov
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA The identification and signature of th				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl e supplier:	u bulvari NO:	ıə runusemre - N	iaiiisa, Turkey
radictification and Signature of th	io per 3011	SIIIPONOI GU	LO DINU UI	Kenichi SAITO			
The signature is signed in the average clim	mate / medi	um-temperatu	re section.	Manager, Quality Assuarance Department			
				TURKEY			

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[·] 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-SHWM120VAA			
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	136	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 ° C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = − 7 ° C	COPd	2. 13	-
Degradation co-efficient (**)	Cdh	1.00	-			<u> </u>	
Tj = + 2 ° C	Pdh	6. 5	kW	Tj = + 2 ° C	COPd	3. 36	-
Degradation co-efficient (**)	Cdh	0. 99	-			<u> </u>	
Tj = + 7 ° C	Pdh	5. 0	kW	Tj = + 7 ° C	COPd	4. 75	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	3. 8	kW	Tj = +12 ° C	COPd	6. 32	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	1. 78	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	1. 78	-
			,				
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	T0L	-30	° C
Reference design conditions for space heating	Tdes i gnh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than	active mo	ode		Supplementary heater		, ,	
Off mode	P_{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{T0}	0. 015	kW				
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW		<u> </u>		
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	${\rm m}^3/{\rm h}$
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	7169	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No:	19 Yunusemre - M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	e supplier: Kenichi SAITO			
育藤健一				Manager, Quality Assuarance Department			
1-1 110, PT -				TURKEY			

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-SHWM120VAA			
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	179	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	ary energy	ratio for	
temperature 20 $^{\circ}$ C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor tem	mperature Tj	
Tj = - 7 ° C	Pdh	10. 7	kW	Tj = - 7 ° C	COPd	2. 85	-
Degradation co-efficient (**)	Cdh	1. 00	-				
Tj = + 2 ° C	Pdh	6. 5	kW	Tj = + 2 ° C	COPd	4. 53	-
Degradation co-efficient (**)	Cdh	0. 99	_				
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6. 04	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 0	kW	Tj = +12 ° C	COPd	7. 02	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 43	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 43	-
Bivalent temperature	Tbiv	-10	° C	Operation limit temperature	TOL	-30	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than	active mo	ode		Supplementary heater		I.	
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0. 015	kW			I.	
Standby mode	P_{SB}	0. 015	kW	Type of energy input	i	Electrical	
Crankcase heater mode	P _{CK}	0. 000	kW		ı		
Other items			Į.	,			
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	5481	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAI	NUFACTURING T	TURKEY JOINT ST	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
The identification and signature of th	e person	empowered t	to bind the	e supplier;			
				Kenichi SAITO			
The signature is signed in the average clim	mate / medio	um-temperatu	re section.	Manager, Quality Assuarance Department			
				TURKEY			

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

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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 uni	t:	PUZ-SHWM120VAA				
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	117	%	
Declared capacity for heating for part	load at	indoor	ı	Declared coefficient of performance or prim	ary energy	ratio for		
temperature 20 °C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	i	
Tj = - 7 ° C	Pdh	7. 3	kW	Tj = - 7 ° C	COPd	2. 70	_	
Degradation co-efficient (**)	Cdh	0. 99	_					
Tj = + 2 ° C	Pdh	4. 4	- kW	Tj = + 2 ° C	COPd	3. 50	_	
Degradation co-efficient (**)	Cdh	0. 99	_					
Tj = + 7 ° C	Pdh	3. 8	kW	Tj = + 7 ° C	COPd	4. 78	_	
Degradation co-efficient (**)	Cdh	0. 98	_					
Tj = +12 ° C	Pdh	4. 4	kW	Tj = +12 ° C	COPd	7. 00	_	
Degradation co-efficient (**)	Cdh	0. 98	_					
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	1. 55	_	
Tj = operation limit temperature (***)	Pdh	8. 2	kW	Tj = operation limit temperature (***)	COPd	1. 54	_	
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 55	_	
Bivalent temperature	Tbiv	-16	° C	Operation limit temperature	TOL	-30	° C	
Reference design conditions for space heating	Tdesignh	-22	° C	Heating water operating limit temperature	WTOL	60	° C	
Power consumption in modes other than	active mo	ode	l	Supplementary heater				
Off mode	P _{OFF}	0. 015	kW	Rated heat output (*)	Psup	3. 9	kW	
Thermostat-off mode	P_{T0}	0. 015	kW			-		
Standby mode	P_SB	0. 015	kW	Type of energy input		Electrical		
Crankcase heater mode	P _{CK}	0. 000	kW					
Other items		•						
Capacity control		variable		Rated air flow rate, outdoors	_	2640	m^3/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				•	
Annual energy consumption	\mathbf{Q}_{HE}	9902	kWh					
For heat pump combination heater:			•	-				
Declared load profile		L		Water heating energy efficiency	η wh	109	%	
Daily electricity consumption	Qelec	4. 750	kWh					
Annual electricity consumption	AEC	1044	kWh					
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUEACTURING T	FIIDVEY INTINT C	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Rulvari No:	10 Vununomro - I	Janica Turkov	
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as and orginator of the	, , 01 3011	po#010u	-> 2 ma til	Kenichi SAITO				
The signature is signed in the average clin	mate / medi	um-temperatu	ire section.					
				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 uni	t:	PUZ-SHWM120VAA				
		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.				
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	149	%	
Declared capacity for heating for part	t load at	indoor	l	Declared coefficient of performance or prim	nary energy	ratio for		
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20°C and	outdoor te	mperature Tj		
Tj = - 7 ° C	Pdh	7. 3	kW	Tj = − 7 ° C	COPd	3. 67	-	
Degradation co-efficient (**)	Cdh	0. 99	_					
Tj = + 2 ° C	Pdh	4. 5	kW	Tj = + 2 ° C	COPd	4. 30	-	
Degradation co-efficient (**)	Cdh	0. 99	_			<u> </u>		
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5. 38	-	
Degradation co-efficient (**)	Cdh	0. 98	-			<u> </u>		
Tj = +12 ° C	Pdh	4. 6	kW	Tj = +12 ° C	COPd	8. 02	-	
Degradation co-efficient (**)	Cdh	0. 97	_			<u></u>		
Tj = bivalent temperature	Pdh	10. 2	kW	Tj = bivalent temperature	COPd	2. 08	-	
Tj = operation limit temperature (***)	Pdh	8. 7	kW	Tj = operation limit temperature (***)	COPd	1. 56	-	
Tj = - 15 $^{\circ}$ C (if TOL $<$ - 20 $^{\circ}$ C)	Pdh	9. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 04	-	
Bivalent temperature	Tbiv	-16	° C	Operation limit temperature	T0L	-30	° C	
Reference design conditions for space heating	Tdesignh	-22	° C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than	active mo	ode		Supplementary heater				
Off mode	P_{0FF}	0. 015	kW	Rated heat output (*)	Psup	3. 4	kW	
Thermostat-off mode	P_{T0}	0. 015	kW					
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical		
Crankcase heater mode	P _{CK}	0.000	kW					
Other items	I							
Capacity control		variable	ı	Rated air flow rate, outdoors	-	2640	m³/h	
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA					
Annual energy consumption	Q _{HE}	7843	kWh					
For heat pump combination heater:	Γ					T T		
Declared load profile		L	ı	Water heating energy efficiency	η wh	109	%	
Daily electricity consumption	Qelec	4. 750	k₩h					
Annual electricity consumption	AEC	1044	kWh					
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	WILE VETTIBLING A	LIIBKEA IUINI o	TUCK CUMDANIA	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	lu Rulvari Na:	19 Yunusamra - M	lanisa Turkov	
The identification and signature of the					u Duivati NO.	10 Tuliusellife - M	unisa, lurkey	
The signature is signed in the average cli	mate / medi	um-temperatu	re section.	Kenichi SAITO n. 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 uni	t:	PUZ-SHWM120VAA			
		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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12. 1	kW	Seasonal space heating energy efficiency	ηs	161	%
Declared capacity for heating for part	load at	indoor	l	Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	_	kW	Tj = − 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	_	_				
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	2. 05	-
Degradation co-efficient (**)	Cdh	1.00	_				
Tj = + 7 ° C	Pdh	7. 7	kW	Tj = + 7 ° C	COPd	3. 42	-
Degradation co-efficient (**)	Cdh	0. 99	_				
Tj = +12 ° C	Pdh	5. 2	kW	Tj = +12 ° C	COPd	5. 65	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	2. 05	-
			-				
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	T0L	-30	° C
Reference design conditions for space heating	Tdes i gnh	2	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than	active mo	ode		Supplementary heater		1	
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{T0}	0. 015	kW			•	
Standby mode	P_SB	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0. 000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	${\rm m}^3/{\rm h}$
Sound power level, indoors/outdoors	L_{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	3952	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	139	%
Daily electricity consumption	Qelec	3. 820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	MUEACTURING 1	LIIDKEA IUINI S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	lu Rulvari No:	10 Vunusamra - N	Nanica Turkov
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	F - 1 00.1			Kenichi SAITO			
The signature is signed in the average clim	mate / medi	um-temperatu	re section.				
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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 uni	t:	PUZ-SHWM120VAA				
		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	12. 1	kW	Seasonal space heating energy efficiency	ηs	232	%	
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	ary energy	ratio for		
temperature 20 ° C and outdoor temperatu	re T j			part load at indoor temperature 20 °C and	outdoor ter	mperature Tj		
Tj = - 7 ° C	Pdh	-	kW	Tj = − 7 ° C	COPd	-	_	
Degradation co-efficient (**)	Cdh	-	-					
Tj = + 2 ° C	Pdh	12. 1	kW	Tj = + 2 ° C	COPd	3. 30	_	
Degradation co-efficient (**)	Cdh	1. 00	-					
Tj = + 7 ° C	Pdh	7. 7	kW	Tj = + 7 ° C	COPd	5. 32	_	
Degradation co-efficient (**)	Cdh	0. 99	-					
Tj = +12 ° C	Pdh	4. 4	kW	Tj = +12 ° C	COPd	7. 46	-	
Degradation co-efficient (**)	Cdh	0. 98	-					
Tj = bivalent temperature	Pdh	12. 1	kW	Tj = bivalent temperature	COPd	3. 30	-	
Tj = operation limit temperature (***)	Pdh	12. 1	kW	Tj = operation limit temperature (***)	COPd	3. 30	_	
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-30	° C	
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than	active mo	de		Supplementary heater		I I		
Off mode	P _{OFF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P_{T0}	0. 015	kW			*		
Standby mode	P_SB	0. 015	kW	Type of energy input		Electrical		
Crankcase heater mode	P_{CK}	0. 000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA					
Annual energy consumption	\mathbf{Q}_{HE}	2753	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	η wh	139	%	
Daily electricity consumption	Qelec	3. 820	kWh					
Annual electricity consumption	AEC	841	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANU				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No:	19 Yunusemre - M	lanisa, Turkey	
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^(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.