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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 813/2013.

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Barter de Bar	tilalämmityks Water heatin	3 0	класът на сезонната отоплителна енергийна ефективност la rlasse rl'efficacité énercéticue. cour le chaufface de l'eau
Constraint         Constraint <thconstraint< th="">         Constraint         Constrai</thconstraint<>	de energie-et	energieffektivitetsklass vid vattenuppvärmning	- arsvirkningsgrad ved vandopvarmning
Bern Reserved Subjects         Bern Reserved Subjects<	vedenlä Rated h	třída energetické účinnosti ohřevu vody die Wärmenennleistung bei durchschnittlichen Klimaverhältnissen	енергийната ефективност при подгряване ce thermique nominale dans les conditions cli
Construction         Construction<	de nominale warmteafgifte(onder gemiddelde klimaat	Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden)	elle nytteeffekt(under gennemsnitlige klimafo
Number         Number<	inmasto-olosunte	vykon(za prumernych kiimatickych podminek) ing, den jährlichen Energieverbrauch bei durchschnittlichen Klim	ата топлинна мощност(при средни климатични условия) uffage des locaux, la consommation annuelle d'énergie(dans
Numerical (No. 1)         Contrast (No. 1) <thcontrast (no.="" 1)<="" th=""> <thcontrast (no.="" 1)<="" <="" td=""><td>voor niimtevenvarmino het iaarliikse energieverbruik(onder gemiddelde</td><td>suppyärmning ärlig energiförbri kning/vid genomsnittling klimatförbållande</td><td>s moyennes) armning det årlige energiforbrug(under gennemsnitlige klimaf</td></thcontrast></thcontrast>	voor niimtevenvarmino het iaarliikse energieverbruik(onder gemiddelde	suppyärmning ärlig energiförbri kning/vid genomsnittling klimatförbållande	s moyennes) armning det årlige energiforbrug(under gennemsnitlige klimaf
Name         Name <th< td=""><td>voor iumiteveri wainimis, iret jaanijkse energijeveruruik(viriver germuuerve klimaatomstandigheden) viria materia gebeden</td><td>supprentiming, and energinoronaning via genoritoritoritaria.</td><td>runiopvaniming aat aninga anarginon nagumara gammananiminga kiintaron noon)</td></th<>	voor iumiteveri wainimis, iret jaanijkse energijeveruruik(viriver germuuerve klimaatomstandigheden) viria materia gebeden	supprentiming, and energinoronaning via genoritoritoritaria.	runiopvaniming aat aninga anarginon nagumara gammananiminga kiintaron noon)
Sector         Sector<	skimääräisissä ilmasto-olosuhteissa)	roční spotřeba energie za průměrných klima	отопление, годишното потребление на енергия(при средни климатични условия)
Numery of weight weig	annual electricity consumption under average climate conditions	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	ur le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions natiques moyennes)
Construction </td <td>voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandicheden)</td> <td>ärmning, årlig elförbruknir</td> <td>vandopvarmning det</td>	voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandicheden)	ärmning, årlig elförbruknir	vandopvarmning det
Constrained by any direct years of priority for any opping	mmaatomasamagineaan) vedenlänmityksestä vuotuinen sähkönkulutus(keskimääräisissä ilmasto-olosuhteissa)	ohřev vody – roční spotřeba elektrické energie za	за подгряване на вода, годишното потребление(при средни климатични условия)
Construction </td <td></td> <td>jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klima</td> <td>ve saisonnière pour le chauffage des locaux(dans les</td>		jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klima	ve saisonnière pour le chauffage des locaux(dans les
NetworkAnd service of a service	de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder	medelverkningsgrad för rumsuppvärmning(vid genomsnittliga klimatförhållar	es) ved rumopvarmning(under gennemsnitlige klimaforhold)
Operation         Operation <t< td=""><td>klimaatomstandigheden) tilalämmityksen kausittainen energiatehokkuus(keskimääräisissä ilm</td><td>nnost vytápění za průměrných klimatických podmínek</td><td>на ефективност при отопление(при средни климатични условия)</td></t<>	klimaatomstandigheden) tilalämmityksen kausittainen energiatehokkuus(keskimääräisissä ilm	nnost vytápění za průměrných klimatických podmínek	на ефективност при отопление(при средни климатични условия)
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Description of the property of the pro	<	průměrných klimatických podmír	ефективност при подгряване на вода(при средни климатични услов
But And Constraint Service         But Service Service         But Service Service         But Service Service         But Service Service         Service Service Service         Service Service Service         Service Service Service         Service Service Service Service         Service Servic	Sound power level L <sub>WA</sub> indoor	der Schallleistungspegel L <sub>WA</sub> , in Gebäuden	le niveau de puissance acoustique L wa , à l'intérieur
Marcine unity on an environmentBuild and selection belonging in the selection	13 het geluidsvermogensniveau L <sub>WA</sub> binnen äänitehotaso L <sub>WA</sub> sisällä	Ljudeftektnivá L <sub>WA</sub> i inomhus hladina akustického výkonu L <sub>WA</sub> ve vniťňním prostoru	lydeffektniveauet L <sub>WA</sub> i inde нивото на звуковата мощност L <sub>WA</sub> на закрито
Burger and Labor. Many and Burger and Labor. Since and	Work only during off-peak hours	dass ein ausschließlicher Betrieb des Kombiheizgerätes zu Schwachlastzeiten	fonctionner qu'en heures creuses
Balance and and an and a series of an analysis of an analy	14 werken utsluttend in de daluren toimimaan ainoastaan kulutushuippujen ulkopuolella	drīvas uteslutande under perioder med lag belastning provozu pouze mimo špičku	Tungere uden tor spidsbelastningsperioder работи само в часовете извън върховото натоварване
Citery and with a binary balance from an under the second of the seco	Rated heat output under colder climate conditions 15 Ide nominale warmteafgifte, onder koudere klimaatomstandigheden	die Wärmenennleistung bei kälteren Klimaverhältnissen Nominell avgiven värmeeffekt vid kallare klimatförhållanden	la puissance thermique nominale, dans les conditions climatiques plus froides den nominelle nytteeffekt under koldere klimaforhold
Constraint         Constra	nimellislämpöteho, kylmissä	chladnějších klimati	номиналната топлинна мощност при по-студени климатични усповия la ruissance therminue nominale dance les conditions climaticues plus chaudes
Construction         Construction<	de nominale warmteafgifte,	ekt vid varmare klima	lia puissance mermique nominale, dans les conditions climatiques plus chaudes den nominelle nytteeffekt under varmere klimaforhold
number of a number	nimellislämpöteho, lämpimissä ilmasto-olosuhteissa Eor space heating annual energy consumption under colder clin	výkon za teplejších klimatických podmínek una der išbrliche Energieverbrauch hei kálteren Klimaverbá	та топлинна мощност при по-топли климатични условия #ало des locality. la consommation annuelle d'énercie, dans les
converte converte converte supercharance superchara	· · · · · · · · · · · · · · · · · · ·		plus froides
Instrume         Instrum         Instrume         Instrume	voor runnieverwanning, net jaariijkse energieverbruik onber klimaatomstandigheden		aer suide eireidiioi nind midei kondere viimaionnoid
For proor handly, a mult energy consumption under warmer dinate conditions         End of a family and under grant dinate conditions	tilalämmityksestä vuotuinen energiankulutus kylmissä ilmasto-olosuhteissa		эние, годишното потребление на енергия при по-студени климатични услови
Curr universandEdit number of a number of	rgy consumption under warmer cl	umheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	ffage des locaux, la consommation annuelle d'énergie, dans les conditions
Immune membranden intermentational         investigation	voor ruimteverwarming, het jaarlijkse energieverbruik on	uppvärmning, årlig energiförbrukning under varmare klimatförhållanden	mning det årlige energiforbrug under varmere klimaforhold
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Non-vene-venering: het jaarlike eelkrichekverbrak onder kondere         Instance	For water heating, annual energy consumption under colder climate conditions	Warmwasserbereitung, der jährliche	e l'eau, la consommation annuelle d'électricité, dans les conditions
Instrumentangingenin         Instrumen	voor waterverv	ssen vattenuppvärmning, årlig elförbrukning	g det årlige elforbrug under koldere klimaforhold
Construction         Constructin         Construction         Construction </td <td>klimaatomstandigheden vedenlämmitvksestä vuotuinen sähkönkulutus kvimissä ilmasto-olosu</td> <td>vodv – roční spotřeba elektrické energie za chladnějších klimati</td> <td>вода, годишното потребление на електроенергия при по-студени кл</td>	klimaatomstandigheden vedenlämmitvksestä vuotuinen sähkönkulutus kvimissä ilmasto-olosu	vodv – roční spotřeba elektrické energie za chladnějších klimati	вода, годишното потребление на електроенергия при по-студени кл
Name         Instant         I	nergy consumption under warmer climate	rmwasserbereitung, der jährliche Stromverbrauch bei wärmeren	ни условия ни условия chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions
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wdenilimmitykastä wuluinen sähkörikuluus lämpinisal innasto-olsuhteisapro ohiev vody - notri spotfeba elektride energie za teplejäch kimalickych podminekan narpmaene ne spat, namunoro norpeforeme energiene on podraze nergiene on podraze neregiene on po	voor waterverwarming, net jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	huppvarmning, arlig eltorbrukning under varma	vandopvarmning det arlige elfororug under varmere klimatorhold
Seasonal space hading energy efficiency under coder climate conditions         de jahreszeibednege Effizientis voor ruintevervarming onder koudere         Bisangsmedie/koude         Ferdige effizientis voor ruintevervarming onder koudere         Ferdige effizientis voor ruintevervarming onder koudere konder koudere koud	vedenlämmityksestä vuotuinen sähkönkulutus lämpimissä ilmasto-olosuhteissa	ohřev vody – roční spotřeba elektrické energie za teplejších klimatických podmír	зане на вода, годишното потребление на електроенергия при по-топли клим повия
Geschenzigsborden erergierficiente voor uninterververming onder koudere         Sisongsmedelverkningsgreid for rumsupprämming under kalare klimatichallanden         ensisteringsgreiden verzingsgreiden verzingereiden verzingsgreiden verzingsgreiden verzingerzing	Seasonal space heating energy efficiency under colder climate conditions	dingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnis:	énergétique saisonnière pour le chauffage des locaux, dans les conditions
Image: Instance         Sezonni energieticki účinnost vylapeni za chladnějšich klimatických podmínek         Cesonera enerpieticki energieticki v protene npm no-cryzem vrumare vruma voroem klimatorich podmínek         Cesonera enerpieticki v protene npm no-cryzem vrumare         Inflienza energietica sag           Ge seconeragebonden energie efficiente voor rulmitevervarming onder varmere         Gis porgsmedelverkningsgrad für rumsupprämning under varmare klimatoristanden         Feficacité énergiétics pour le chauffage des locaux, dans les conditions         Feficienza energiética do           Valar heating energy efficiency under colder climate conditions         Gis porgsmedelverkningsgrad für rumsupprämning under varmare klimatoristanden         Aeriknalogsgraden ved rumpovarming under varmere klimatoristanden         Aeriknal energietica di klimatickych podminek         Ceonergietica di klimatoristanden         Aeriknal energietica di klimatoristanden         Aeriknale energietica energietica di klimatoristanden         Aeriknale energietica di klimatoristanden         Aeriknale energietica di klimatori klimatori klimatori klimatori klimatori klimato	de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder	smedelverkningsgrad för rumsuppvärmni	ved rumopvarmnir
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escoresignedclimatiques plus chardesclimatiques plus chardes	mer climate	jahreszelthedinate Raumheizrungs-Energieeffizienz hei wärmeren Klimaverhältniss	ue saisonnière nour le chauffane des locaux dans les conditions
de selzcensgebonden energie-efficientie voor ruimteverwarming onder warmere         Sasongsmedelverkningsgrad für rumsupprämming under varmare klimatförhållanden         årsvirkningsgraden ved rumspvarming under varmere klimatforhold         A eficieria energietica do           tillamatomstandigheden         sezonni energietick úcinnost vytapéni za teplejšich klimatických podminek         cesonwar eseptiva do         geno	Seasonal space heating energy efficiency under warmer climate conditions	jahreszeitbedingte Raumheizungs-Energieettizienz bei warmeren Klimaverhaltniss	ue saisonnière pour le chautfage des locaux, dans les conditions audes
Natistationen energiatehokkus lämpinissä ilmasto-olosuhteissa         sezonni energetick ücinnost vytäpěni za teplejšich klimatických podmínek         cesonhara eneprviha edekrivehocr npv oronnenve npv no-ronnv krivmatriveh ycnoeva         sezonova elektywność en           Vater heating energie-efficiéntie voor waterverwarming onder koudere klimaatomstandigheden         Genergiefficienz bei kälteren Klimaverhältnissen         I efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         I efficienza energetica di redise           Vater heating energie-efficiéntie voor waterverwarming onder koudere klimaatomstandigheden         Energiefficienz bei vainnost ohrevu vody za chladnějšich klimatických podmínek         I energiefficientie ved vandoprarmning under koldere klimatorny morornyee va sopa npo-cryzee krivnekocr npv nogrpase va sopa npv no-cryzee krivnekocr npv nogrpase va sopa npv no-crvnev krivnekocr energietica do craudes varinde var	klir de	medelverkningsgrad för rumsuppvärmning under varmare klimatförhållan	ved rumopvarmning under varmere klimaforhold
Water heating energy efficiency under colder climate conditions         die Warnwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen         reficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         reficienz energetica di ré           de energie-efficientle voor waterverwarning onder koudere klimaatomstandigheden         Energieffektivitet vid vatteruppvärmning under kallare klimatforhållanden         energiefektivitet vid vatteruppvärmning under kallare klimatforhållanden         energiefektivitet vid vatteruppvärmning under kallare klimatforhållanden         energiefektivitet vid varterververververververververververververve	tilalämmityksen kausittainen energiatehokkuus lämpimissä ilmasto-olosuhteissa	energetická účinnost vytápění za teplejších klim	енергийна ефективност при отопление при по-топли климатични усл
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Verdenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa         energieticki učinnost ohfevu vody za chladnějšich klimatických podminek         energieticki vod vantovenou cover vantovenou covervantovane vantovenou cover vantovenou cover vantovenou cover v			teten ved vandonvarmning under koldere klimaforhold
Water heating energy efficiency under warmer climate conditions         die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen         Pafficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         Pafficienza energetica di ris           Vater heating energy efficiency under warmer climate conditions         die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen         Pafficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         Pafficienza energetica di ris           de energie-efficientie voor waterverwarming onder warmere klimaato-olosubtiessa         Energieffektivitet vid vartenuppvärmning under varmare klimatförhållanden         energiefektiviteten ved vandopvarmning under varmere klimatorhold         a eficiência energética do i           vedenlämmit/ksen energiatehokkuus lämpimissä ilmasto-olosubteissa         energetická účinnost ohřevu vody za teplejších klimatičkých podmínek         energiefektiviteten ved vandopvarmning under varmere kapa npu no-ronnu knuwaruv+uv ycnoeux         efektywność energetyczna           Sound power level L <sub>WA</sub> outdoor         der Schallleistungspegel L <sub>WA</sub> im Freien         le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur         il ivello di poterza sonora           Net gluidsvermogensniveau L <sub>WA</sub> bulten         Ljudefektrivián L <sub>WA</sub> i udorhuka         lorvel de poténcia sonora         On rivel de poténcia sonora			енен уей уапооруантный иноет консете кы эфективност при подгряване на вода при
de energie-efficiêntie voor waterverwarming onder warmere klimaatomstandigheden Energiefiektivitet vid vattenuppvärmning under varmare klimaaförhållanden energiefiektiviteten ved vandopvarmning under varmere klimatorhöld vedenlämmityksen energiatehökkuus lämpimissa ilmasto-olosuhteissa energiefiekta üčinnost ohřev vody za teplejšich klimatických podmínek energiefiektiviteten ved vandopvarmning under varmere klimatorhöld Sound power level L <sub>WA</sub> outdoor der Schallleistungspegel L <sub>WA</sub> im Freien energienstiveau L <sub>WA</sub> butlen ka textérieur Integluidsvernogenstriveau L <sub>WA</sub> butlen L_WA butlen L_WA i l'extérieur	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	chauffage de l'eau, dans le
vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa energetická účinnost ohřevu vody za teplejšich klimatických podmínek енергийната ефективност при подгряване на вода при по-топли климатични условия Sound power level L <sub>WA</sub> outdoor der Schallleistungspegel L <sub>WA</sub> im Freien le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur ledeluidsvermogenstriveau L <sub>WA</sub> buiten L <sub>WA</sub> buiten L <sub>WA</sub> i Udonflue	de eneraie-	opvärmn	
Image: Sound power level L <sub>WA</sub> outdoor     der Schallteistungspegel L <sub>WA</sub> im Freien     le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur       Sound power level L <sub>WA</sub> outdoor     Ljudeffektnivân L <sub>WA</sub> i utomhus     lydeffektnivân L <sub>WA</sub> i utomhus	vedenlämmi	vody za	ефективност при подгряване на вода при по-топли климатични
het geluidsvermogensniveau L <sub>WA</sub> buiten L <sub>WA</sub> i ude Ljudeffektnivån L <sub>WA</sub> i utomhus			-
		ien	acoustique L WA à l'extérieur

	Fenañol
	EAAŋvıká
	unidad exterior Eξωτερική μονάδα
	unidad interior Ecrumpokh μονάδα
	- la aplicación de media temperatura In εφαριμογή σε μέση θεριμοκρασία
	- la aplicación de baja temperatura η εφαρμογή σε χαμηλή θερμοκρασία
	erfil de carga declara ηλωμένο προφίλ φορ
	clase de eficiencia energética esta
	la clase de eficiencia energética estacional de calefacción η πάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου -
	la clase de eficiencia energética del caldeo de agua η τάξη εντεργειακής απόδοσης θέρμανσης νερού
	<ul> <li>a</li> <li>la policia calorífica nominal(en condiciones climáticas medias)</li> <li>n ονομαστική θεριμική ισχύς(υπό μέσες κλιματικές συνθήκες)</li> </ul>
imatiche	- para calentar espacios, el consumo anual de energía(en condiciones climáticas medias)
limáticas mé	ια τη θέρμανση χώρου
ach klimatu	
natiche medie)	para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias)
s climáticas m warunkach	για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(υπό μέσες κλιματικές συνθήκες) -
limatiche	la eficiencia energética estacional de calefacción(en condiciones climáticas medias)
náticas mé	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου(υπό μέσες κλιματικές συνθήκες)
n klimatu edie)	ficiencia energética del caldeo de aqua(en condiciones climáticas medias)
édias) owanego)	η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) -
	el nivel de potencia acústica L <sub>WA</sub> en interiores η στάθμη ηχητικής ισχύος L <sub>WA</sub> εσωτερικού χώρου
	funcionar solamente durante las horas de baja demanda λεπουργία μόνο εκτός των ωρών αιχμής
	a per la policia calorífica nominal en condiciones climáticas más frías η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες
	la potencia calorífica nominal en condiciones climáticas más cálidas η ονοματική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες
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다	
limatiche più limáticas mais	para calentar espacios, el consumo anual de energía en condiciones climáticas más cá lidas vird Brunovn vilnou i a rrhona kornováhvon svérovara umó Broulótaner klumtkér mivBriker
atu	
matiche più	para calentar agua, el consumo anual de electricidad en condiciones climáticas más frías
s climáticas	για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικέ ς συνθήκες
warunkach matiche più	<ul> <li>para calentar agua, el consumo anual de electricidad en condiciones climáticas más cá</li> </ul>
s climáticas	indas για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές ισινθήκες
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auche piu	inergenca estacional de caletacción en condiciones climaticas mas in renéferences estacional de caletacción en condiciones climaticas mas in
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limatiche più	eficiencia energética estacional de calefacción en condiciones climática
náticas mais n klimatu ciepł	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό θερμότερες κλιματικές συνθή κες -
ı fredde	la eficiencia energética de caldeo de agua en condiciones climáticas más frías
ais frias ego	
ı calde	eficiencia energética de caldeo de agua en condiciones climáticas má
is quentes lo	η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες -
	el nivel de potencia acústica L <sub>vin</sub> , en exteriores η στάθμη ηχητικής ισχύος L <sub>vin</sub> εξωτερικού χώρου

Model(s):	Outdoor unit:	PUZ-SHWM60VAA
	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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	129	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	2. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 1	kW	Tj = + 7 ° C	COPd	4. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 7	kW	Tj = +12 ° C	COPd	5.87	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
			-				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		·	
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	$L_{WA}$	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	3761	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 000	k₩h				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
The identification and signature of th	he person	empowered	to bind th	e supplier: Kenichi SAITO			
百藤建一				Manager, Quality Assuarance Department			
M MOLT DE -				TURKEY			
Details and propertiens on installation maintance	•			installation and or operation manuals			

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

 $\cdot$  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-SHWM60VAA
	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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	184	%
Declared capacity for heating for part	t load at	indoor		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 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	3. 39	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 2 ° C	Pdh	4.8	kW	Tj = + 2 ° C	COPd	4. 76	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 7 ° C	Pdh	4.9	kW	Tj = + 7 ° C	COPd	5.90	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	2. 74	-
Tj = operation limit temperature (***)	Pdh	6.0	kW	Tj = operation limit temperature (***)	COPd	2. 74	-
			•				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	Q <sub>HE</sub>	2655	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
Details and precautions on installation, maintena     Details and precautions on recycling and/or dis		•		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-SHWM60VAA
	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.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	115	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 3	kW	Tj = + 7 ° C	COPd	4.89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°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	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	2. 0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	4993	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	105	%
Daily electricity consumption	Qelec	4. 820	kWh				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	lanisa, Turkey
The identification and signature of th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate ∕ mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
	,			TURKEY			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
$\cdot$ Details and precautions on recycling and/or dis	posal 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-SHWM60VAA
	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.

Rated heat output (*) Declared capacity for heating for part	Prated						
Declared capacity for heating for part		6.0	kW	Seasonal space heating energy efficiency	η s	138	%
	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperatu	re Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	3. 8	kW	Tj = +2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-			<u>_</u>	
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-			<u>_</u>	
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7. 56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
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 a	active mo	de		Supplementary heater			
Off mode	P <sub>OFF</sub>	0. 015	kW	Rated heat output (*)	Psup	2.9	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0. 000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	$L_{WA}$	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	4202	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	105	%
Daily electricity consumption	Qelec	4. 820	kWh				
Annual electricity consumption	AEC	1060	kWh				
Contact details				·			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANU	JFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	19 Yunusemre – M	anisa, Turkey
The identification and signature of the	person	empowered t	o bind the				
The eigneture is eigned in the everage elime	ata / madiu	m tomporatu	ra anation	Kenichi SAITO Manager, Quality Assuarance Department			
The signature is signed in the average clima	ate / meult	m - Lemperatu		TURKEY			
· Details and precautions on installation, maintenand	ce and asse	embly can be	found in the				

(\*) 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-SHWM60VAA
	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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	159	%
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	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	3. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6.16	-
Degradation co-efficient (**)	Cdh	0.98	-			L]	
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	6.0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
			1				
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	de		Supplementary heater			
Off mode	P <sub>OFF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW			ļļ	
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	Р <sub>ск</sub>	0.000	kW				
Other items			II.				
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	Q <sub>HE</sub>	1980	kWh				
For heat pump combination heater:		1	ιι				
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details			II				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
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The simulation is simulationally the				Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
Details and precautions on installation, maintena	ince and ass	embly can be	found in the				

· 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-SHWM60VAA
	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	6. 0	kW	Seasonal space heating energy efficiency	ηs	220	%
Declared capacity for heating for part	: load at	indoor	•	Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	perature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	3.80	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	5. 10	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.46	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	3.80	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	3.80	-
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	de		Supplementary heater		1 1	
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	1437	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶	19 Yunusemre – M	anisa, Turkey
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 $\cdot$  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-SHWM60VAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6. 0	kW	Seasonal space heating energy efficiency	η s	129	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	2. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 1	kW	Tj = + 7 ° C	COPd	4. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 7	kW	Tj = +12 ° C	COPd	5. 87	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
			-				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	3761	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 080	k₩h				
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
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百藤建一				Manager, Quality Assuarance Department			
1-1 ridi b+				TURKEY			
Details and pressutions on installation maintana				installation and or approxim manuals			

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

 $\cdot$  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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	η s	184	%
Declared capacity for heating for part	t load at	indoor		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 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	3. 39	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.8	kW	Tj = + 2 ° C	COPd	4. 76	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 7 ° C	Pdh	4. 9	kW	Tj = + 7 ° C	COPd	5. 90	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2. 74	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2. 74	-
			•				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	$L_{WA}$	41 / 54	dBA				
Annual energy consumption	Q <sub>HE</sub>	2655	k₩h				
For heat pump combination heater:							
Declared load profile		L	-	Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 080	k₩h				
Annual electricity consumption	AEC	898	k₩h				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	lanisa, Turkey
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Details and precautions on installation, maintena     Details and precautions on recycling and/or dis				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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	η s	115	%
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 Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°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	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	2.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	4993	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ 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	URKEY JOINT S	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	19 Yunusemre – M	anisa, Turkey
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· Details and precautions on installation, maintena	nce and asso	embly can be	found in the				
· Details and precautions on recycling and/or disp	oosal 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	η s	138	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
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	de	-	Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	2.9	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable	-	Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	4202	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – N	lanisa, Turkey
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$\cdot$ Details and precautions on recycling and/or dis	posal at end-	of-life can be	e 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-SHWM60VAA
	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.

Prated						
	6.0	kW	Seasonal space heating energy efficiency	η s	159	%
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
re Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	6.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Cdh	1.00	-				
Pdh	4.0	kW	Tj = + 7 ° C	COPd	3. 28	-
Cdh	0. 99	-				
Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 16	-
Cdh	0. 98	-				
Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2. 10	-
Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0.015	kW				
P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Рск	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
L <sub>WA</sub>	41 / 54	dBA				
Q <sub>HE</sub>	1980	kWh				
	L		Water heating energy efficiency	$\eta$ wh	139	%
Qelec	3.820	kWh				
AEC	841	kWh				
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person	empowered t	to bind the				
te / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
	Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh Pdh Tbiv Tdesignh active mo Porr Pro PsB PcK LWA QHE Qelec AEC FACTURING TH person	Pdh         -           Cdh         -           Pdh         6.0           Cdh         1.00           Pdh         4.0           Cdh         0.99           Pdh         4.5           Cdh         0.99           Pdh         6.0           Pdh         0.015           Prof         0.015           PsB         0.015           PcK         0.000           variable           L         Qelec           AEC         841           FACTURING TURKEY JOINT ST           person         empowered         1	Pdh         -         kW           Cdh         -         -           Pdh         6.0         kW           Cdh         1.00         -           Pdh         4.0         kW           Cdh         0.99         -           Pdh         4.5         kW           Cdh         0.99         -           Pdh         4.5         kW           Cdh         0.98         -           Pdh         6.0         kW           Pdh         0.015         kW           Pro         0.015         kW           PsB         0.015         kW           PcK         0.000         kW           Cartiale           L         Qelec         3.820           At1 / 54         dBA           QHE         1980           FACTURING TURKEY JOINT STOCK COMPANY           person         empowered         to            bind	Pdh-KWTj = -7 ° CCdhPdh6.0KWCdh1.00-Pdh4.0KWCdh0.99Pdh4.5KWCdh0.99Pdh4.5KWCdh0.98Pdh6.0KWPdh6.0KWTj = bivalent temperatureTbiv2° CTdesignh2 ° CTdesignh2 ° CPorr0.015KWPorr0.015KWPox0.000KWType of energy inputPox0.000KWRated air flow rate, outdoorsLKWhAEC841KWhKWhAEC841KWhKWhFACTURING TURKEY JOINT STOCK COMPANYManisa 0SB 4. Kisim Kecilikoyosh Mah. Atmet Nazif Zorperson empowered to bind the supplier:Kenichi SAITO	Pdh-KWTj = -7 ° CCOPdCdhPdh6.0KWTj = + 2 ° CCOPdCdh1.00Pdh4.0KWTj = + 7 ° CCOPdCdh0.99Pdh4.5KWTj = + 12 ° CCOPdCdh0.98Pdh6.0KWTj = bivalent temperatureCOPdTbiv2° COperation limit temperatureCOPdTbiv2° COperation limit temperatureTOLHeatingwater operating limitWTOLtemperatureSupplementary heaterPorr0.015KWPorr0.000KWPorr0.000KWPorr0.000KWPorr0.000KWPorr0.000KWPorr0.000KWPorr0.000KWPorr0.000KWPorr0.000KWPorr0.000KWPorr0.000KWPorr0.000KWhAEC841KWhAEC841KWhFACTURING TURKEY JOINT STOCK COMPANYManisa 088 4.Kisim Kecilikoyash Mah. Annet Nazif Zorlu Bulvari No:person empowered to bind the supplier: Kenichi SAITOManager, Quality Assuarance Department TURKEYte / medium-temperature section.Manager, Quality Assuarance Department TURKEY	Pdh-KWTj = -7 ° CCOPd-Pdh6.0KWTj = + 2 ° CCOPd2.10Cdh1.00-Tj = + 7 ° CCOPd3.28Cdh0.99-Tj = + 7 ° CCOPd6.16Cdh0.99-Tj = +12 ° CCOPd6.16Cdh0.98-Tj = bivalent temperatureCOPd2.10Pdh6.0KWTj = operation limit temperatureCOPd2.10Pdh6.0KWTj = operation limit temperatureCOPd2.10Tbiv2 ° COperation limit temperatureTOL-30Tdesignh2 ° CHeating water operating limitWTOL60SupplementarybeaterSupplementaryElectricalPorr0.015KWType of energy inputElectricalPox0.000KWType of energy inputElectricalLVariableRated air flow rate, outdoors-2220Lax41 / 54dBAMWhAnisa 088 4.Kisin Kecilikoyob Meh. Amet Nazif Zarlu Bulvari No:19 Youuseere - WPoson empowered to bind thesupplier:Kenichi SAITOKenichi SAITOte / medium-temperature section.Manager, Quality Assurance DepartmentTURKEY

 $\cdot$  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-SHWM60VAA
	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.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	6.0	kW	Seasonal space heating energy efficiency	η s	220	%
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	6.0	kW	Tj = + 2 ° C	COPd	3.80	-
Cdh	0.99	-				
Pdh	4.4	kW	Tj = + 7 ° C	COPd	5. 10	-
Cdh	0.98	-				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.46	-
Cdh	0.98	-				
Pdh	6.0	kW	Tj = bivalent temperature	COPd	3.80	-
Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	3.80	-
		1			LJ	
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de	1	Supplementary heater		1	
P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0. 015	kW				
$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Рск	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
L <sub>WA</sub>	41 / 54	dBA				
$Q_{HE}$	1437	kWh				
			•			
	L		Water heating energy efficiency	$\eta$ wh	139	%
Qelec	3. 820	kWh				
AEC	841	k₩h				
NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	9 Yunusemre - Ma	anisa, Turkey
e person	empowered	to bind the				
nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
	Prated I load at ure T j Pdh Cdh PoFF Pro Cw Cw Cw Cw Cw Cw Cw Cw Cw Cw	Prated         6.0           load at indoor         indoor           ure T j         Pdh         -           Cdh         -         Pdh           Cdh         -         Pdh           Cdh         0.99         Pdh           Pdh         4.4         O.99           Pdh         4.7         O.98           Pdh         4.7         O.98           Pdh         6.0         O.015           Pdh         0.015         P           PorF         0.015         O.015           PSB         0.015         O.000           variable           L         Qelec         3.820           AEC         841         NUFACTURING TURKEY JOINT S           e         person         empowered         T	Prated         6.0         kW           load at indoor         ure T j           Pdh         -         kW           Cdh         -         -           Pdh         6.0         kW           Cdh         -         -           Pdh         6.0         kW           Cdh         0.99         -           Pdh         4.4         kW           Cdh         0.98         -           Pdh         4.7         kW           Cdh         0.98         -           Pdh         6.0         kW           Olit         kW         -           Pdh         2         ° C           active mode         -         -           PorF         0.015         kW           PogK         0.000         kW           PogK         0.000         kW      L <td>Prated6.0kWPrated6.0kWIoad at indoorenergy efficiencyure T jpdh-Pdh-KWCdhPdh6.0kWCdh0.99-Pdh4.4kWCdh0.98-Pdh4.7kWCdh0.98-Pdh6.0kWPdh6.0kWFdh4.7kWCdh0.98-Pdh6.0kWFdh2° CTbiv2° Cactive modeSuplementary heaterPorF0.015kWPorF0.015kWPorF0.000kWVariableRated air flow rate, outdoorsLWater heating energy efficiencyQelec3.820kWhAEC841KWhManisa OSB 4.Kisim Kecilikoyoeb Mah. Ahmet Nazif Zore person empowered to bind the supplier:Kenichi SAITOmate / medium-temperature section.Manager, Quality Assuarance Department</td> <td>Prated6.0kWPrated6.0kWIoad at indoorindoorPdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh4.4KWCdh0.99Pdh4.4KWCdh0.98Pdh4.7KWCdh0.98Pdh6.0KWCdh0.98Pdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPare0.015KWPare0.015KWPox0.000KWPox0.015KWPox0.000<td>Prated6.0KWIoad at indoorSeasonal epace heating energy efficiency<math>\eta</math> s220Used at indoorDeclared coefficient of performance or primary energy ratio for per load at indoor temperature 20 °C and outdoor temperature Tj Tj = -7 °CCond ()PdhCond ()Pdh6.0KWTj = + 2 °CCond (-)CdhPdh6.0KWTj = + 7 °CCond (-)Cdh0.99Pdh4.4KWTj = + 12 °CCond (-)Cdh0.98Pdh6.0KWTj = operation limit temperatureCOPd (-)Cdh0.98Pdh6.0KWTj = operation limit temperatureCOPd (-)Rdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWTbiv2°CC-DeparationImit temperatureTOL-30Heating water operating limitWTOL60sative modeSupplementary heater-Pas0.015KW-Pas0.000KWPas0.000KWPas0.000KWQeilec3.820KWh<!--</td--></td></td>	Prated6.0kWPrated6.0kWIoad at indoorenergy efficiencyure T jpdh-Pdh-KWCdhPdh6.0kWCdh0.99-Pdh4.4kWCdh0.98-Pdh4.7kWCdh0.98-Pdh6.0kWPdh6.0kWFdh4.7kWCdh0.98-Pdh6.0kWFdh2° CTbiv2° Cactive modeSuplementary heaterPorF0.015kWPorF0.015kWPorF0.000kWVariableRated air flow rate, outdoorsLWater heating energy efficiencyQelec3.820kWhAEC841KWhManisa OSB 4.Kisim Kecilikoyoeb Mah. Ahmet Nazif Zore person empowered to bind the supplier:Kenichi SAITOmate / medium-temperature section.Manager, Quality Assuarance Department	Prated6.0kWPrated6.0kWIoad at indoorindoorPdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh4.4KWCdh0.99Pdh4.4KWCdh0.98Pdh4.7KWCdh0.98Pdh6.0KWCdh0.98Pdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPare0.015KWPare0.015KWPox0.000KWPox0.015KWPox0.000 <td>Prated6.0KWIoad at indoorSeasonal epace heating energy efficiency<math>\eta</math> s220Used at indoorDeclared coefficient of performance or primary energy ratio for per load at indoor temperature 20 °C and outdoor temperature Tj Tj = -7 °CCond ()PdhCond ()Pdh6.0KWTj = + 2 °CCond (-)CdhPdh6.0KWTj = + 7 °CCond (-)Cdh0.99Pdh4.4KWTj = + 12 °CCond (-)Cdh0.98Pdh6.0KWTj = operation limit temperatureCOPd (-)Cdh0.98Pdh6.0KWTj = operation limit temperatureCOPd (-)Rdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWTbiv2°CC-DeparationImit temperatureTOL-30Heating water operating limitWTOL60sative modeSupplementary heater-Pas0.015KW-Pas0.000KWPas0.000KWPas0.000KWQeilec3.820KWh<!--</td--></td>	Prated6.0KWIoad at indoorSeasonal epace heating energy efficiency $\eta$ s220Used at indoorDeclared coefficient of performance or primary energy ratio for per load at indoor temperature 20 °C and outdoor temperature Tj Tj = -7 °CCond ()PdhCond ()Pdh6.0KWTj = + 2 °CCond (-)CdhPdh6.0KWTj = + 7 °CCond (-)Cdh0.99Pdh4.4KWTj = + 12 °CCond (-)Cdh0.98Pdh6.0KWTj = operation limit temperatureCOPd (-)Cdh0.98Pdh6.0KWTj = operation limit temperatureCOPd (-)Rdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWTbiv2°CC-DeparationImit temperatureTOL-30Heating water operating limitWTOL60sative modeSupplementary heater-Pas0.015KW-Pas0.000KWPas0.000KWPas0.000KWQeilec3.820KWh </td

· 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-SHWM60VAA
	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.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	131	%
Declared capacity for heating for part	t load at	indoor	1	Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 °C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	2. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 1	kW	Tj = + 7 ° C	COPd	4. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 7	kW	Tj = +12 ° C	COPd	5. 87	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
			-				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	3706	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 000	k₩h				
Annual electricity consumption	AEC	880	kWh				
Contact details							<u> </u>
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind th				
百藤建一				Kenichi SAITO Manager, Quality Assuarance Department			
12 HOLE DE -				TURKEY			
· Dataile and proceptions on installation maintang			farmal in the	installation and or operation manuals			

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

 $\cdot$  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-SHWM60VAA
	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.

Rated heat output (*)Prated6.0kWSeasonal paper Pating energy efficiency $\eta$ s188Declared capacity for heating for part load at indoortemperature 20 °C and outdoor temperature T jDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T jT j = -7 °CPdh5.3kWDegradation co-efficient (**)Odh0.99-T j = +2 °CPdh4.8KWDegradation co-efficient (**)Odh0.99-T j = +7 °CPdh4.9KWDegradation co-efficient (**)Odh0.99-T j = +12 °CPdh4.9KWDegradation co-efficient (**)Odh0.97-T j = bivalent temperaturePdh6.0KWT j = operation limit temperaturePdh6.0KWT j = operation limit temperatureCOPd2.74T j = operation limit temperatureT j = 0-Bivalent temperatureT j = 0.015KWT j = operation limit temperatureT j = 0.015Power consumption in modes other than active modeSupplementary heaterOff modePar0.015Other items-Capacity controlvariableSound power level, indoors/outdoorsLCapacity controlQuelecAnnual energy consumptionQuelecAnual energy consumptionQuelecAnual energy consumptionQuelecAnual energy consumptionQuelec </th <th>Unit</th> <th>Value</th> <th>Symbol</th> <th>Item</th> <th>Unit</th> <th>Value</th> <th>Symbol</th> <th>Item</th>	Unit	Value	Symbol	Item	Unit	Value	Symbol	Item
temperature 20 ° C and outdoor temperature T jT j = -7 ° CPdh5.3KNDegradation co-efficient (**)Cdh0.99-T j = + 2 ° CPdh4.8KNDegradation co-efficient (**)Cdh0.99-T j = + 2 ° CPdh4.8KNDegradation co-efficient (**)Cdh0.99-T j = + 7 ° CPdh4.8KNDegradation co-efficient (**)Cdh0.99-T j = + 12 ° CPdh3.0KNDegradation co-efficient (**)Cdh0.97-T j = + 12 ° CPdh3.0KNDegradation co-efficient (**)Pdh6.0KNT j = bivalent temperatureCOPd2.74T j = operation limit temperaturePdh6.0KNT j = operation limit temperatureCOPd2.74T j = operation limit temperature (***)Pdh6.0KNT j = operation limit temperatureCOPd2.74T j = operation limit temperatureToL-30Power consumption in modes other than active modeSupplementary heaterOff modePower0.015Crancease heater modePox0.005Crancease heater modePox0.015Other itemsCapacity controlVariableSound power level, indoors/outdorsLas41 / 54Annual energy consumptionQelec4.000MithNeter heating energy efficiency7 whDelared lo	%	188	η s	5	kW	6.0	Prated	Rated heat output (*)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		ratio for	nary energy			indoor	t load at	Declared capacity for heating for par
Degradationco-efficient (**)Cdh0.99-Tj = + 2 ° CCCOPd4.76Degradationco-efficient (**)Cdh0.99-Tj = + 7 ° CPdh4.9KWTj = + 7 ° CCOPdDegradationco-efficient (**)Cdh0.98-Tj = + 12 ° CCPdh3.0KWDegradationco-efficient (**)Cdh0.97Tj = +12 ° CPdh6.0KWTj = operationImmeraturePdh6.0KWTj = operation limit temperatureCOPd2.74Tj = operationTo immerature (***)Pdh6.0Bivalent temperatureTbiv-10° CReference design conditions for spaceTdesignh-10° CPowerConsumption in modesPdr0.015KWOff modePdr0.015KWType of energy inputElectricalCanacase heater mode0.000KWType of energy inputElectricalCapacity controlvariable2000KWStandby mode $Q_{gc}$ 2000KWCapacity control $Q_{ec}$ 2000KWSound power level, indoors/outdoors $L_{gA}$ 41 / 54dBAAnnual energy consumption $Q_{ec}$ 2000KWDaily electricity consumption $Q_{ec}$ 400KWDaily electricity consumption $Q_{ec}$ 400KWContext detailsVariable800KW <td></td> <td>perature Tj</td> <td>outdoor tem</td> <td>part load at indoor temperature 20 <math>^\circ</math> C and</td> <td></td> <td></td> <td>ture T j</td> <td>temperature 20 °C and outdoor tempera</td>		perature Tj	outdoor tem	part load at indoor temperature 20 $^\circ$ C and			ture T j	temperature 20 °C and outdoor tempera
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	3. 39	COPd	Tj = − 7 ° C	kW	5.3	Pdh	Tj = - 7 ° C
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					-	0.99	Cdh	Degradation co-efficient (**)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-	4. 76	COPd	Tj = + 2 ° C	kW	4.8	Pdh	Tj = + 2 ° C
Degradationco-efficient (**)Cdh0.98-Tj = +12 ° CPdh3.0kWTj = +12 ° CCOPd6.52Degradationco-efficient (**)Cdh0.97-TTj = bivalent temperaturePdh6.0KWTj = bivalent temperatureCOPd2.74Tj = operation limit temperature (***)Pdh6.0KWTj = operation limit temperatureCOPd2.74Bivalent temperatureTbiv-10° COperation limit temperatureTOL-30Reference design conditions for spaceTdesignh-10° CHeating water operating limitWTOL60Powerconsumptionin modesotherno0.015kWRated heat output (*)Psup0.0PowerconsumptionPage0.015kWType of energy inputElectricalCrankcase heatermodePox0.000kWhPage2220Sound power level, indoors/outdoorsLas41 / 54dBAAnnual energy consumption-2220Sound power level, indoors/outdoorsLas41 / 54dBAWater heating energy efficiency7 wh134Porteriotity consumptionQele4.000kWhWater heating energy efficiency7 wh134Contact detailsContact detailsS800kWhContact detailsContact detailsContact details					-	0.99	Cdh	Degradation co-efficient (**)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-	5.90	COPd	Tj = + 7 ° C	kW	4. 9	Pdh	Tj = + 7 ° C
Degradation co-efficient (**)Cdh $0.97$ F-Tj = bivalent temperaturePdh $6.0$ kWTj = bivalent temperatureOOPd $2.74$ Tj = operation limit temperature (***)Pdh $6.0$ kWTj = operation limit temperature (***)COPd $2.74$ Bivalent temperatureTbiv $-10$ ° COperation limit temperature (***)COPd $2.74$ Bivalent temperatureTbiv $-10$ ° COperation limit temperature (***)TOL $-30$ Reference design conditions for spaceTdesignh $-10$ ° CHeating water operating limitWTOL $60$ Power consumption in modes other than active modeSupplementary heaterSupplementary heaterSupplementary heater $Rated heat output (*)$ Psup $0.0$ Thermostat-off mode $P_{0FF}$ $0.015$ kWType of energy inputElectricalCrankcase heater mode $P_{0K}$ $0.000$ kWType of energy inputElectricalOther itemsCapacity controlvariable $air$ $flow$ rate, outdoors $ 2220$ Sound power level, indoors/outdoors $L_{M}$ $41/54$ $dBA$ $Airairairnual energy efficiencynwh134Daily electricity consumptionAEC880kWhWater heating energy efficiencynwh134$					-	0. 98	Cdh	Degradation co-efficient (**)
Tj = bivalent temperaturePdh6.0kWTj = bivalent temperatureOOPd2.74Tj = operation limit temperature (****)Pdh6.0kWTj = operation limit temperature (****)OOPd2.74Bivalent temperatureTbiv-10° COperation limit temperature (****)OOPd2.74Bivalent temperatureTbiv-10° COperation limit temperature (****)OOPd2.74Bivalent temperatureToiv-10° COperation limit temperatureTOL-30Reference design conditions for spaceTdesignh-10° CHeating water operating limitWTOL60Power consumption in modes other than active modeSupplementary heaterSupplementary heater000.01FWThermostat-off modePor0.015kWRated heat output (*)Psup0.0FeatureCrankcase heater modePox0.000kWType of energy inputElectricalCapacity controlvariableSecond-2220Sound power level, indoors/outdoorsLw,41 / 54dBAAnnual energy consumption-2220For heat pump combination heater:Declared load profileLWater heating energy efficiency7 wh134Daily electricity consumptionQelec4.000kWhKWhContact details70 kW	-	6. 52	COPd	Tj = +12 ° C	kW	3.0	Pdh	Tj = +12 ° C
Tj = operation limit temperature (***)Pdh6.0kWTj = operation limit temperature (***)COPd2.74Bivalent temperature heatingToiv-10° COperation limit temperatureTOL-30Reference design conditions for space heatingTdesignh-10° CHeating water operating limit temperatureTOL-30Power consumption in modes other than active modeSupplementary heater6060Off mode Thermostat-off modePorF0.015kWRated heat output (*)Psup0.0Standby mode Crankcase heater modePos0.000kWType of energy inputElectricalOther itemsCapacity control Sound power level, indoors/outdoors Annual energy consumption Daily electricity consumption $Qelec$ 4.000Rated air flow rate, outdoors kWh-2220For heat pump combination heater:Declared load profile Delared load profileL Mater heating energy efficiency $\eta$ wh134Contact detailsAEC880kWhKWhKWhKWhKWh					-	0.97	Cdh	Degradation co-efficient (**)
Bivalent temperature heating       Tbiv Tdesignh       -10       ° C r       Operation limit temperature Heating water operating limit temperature       TOL       -30         Power consumption in modes other than active mode       ° C       ° C       Heating water operating limit temperature       TOL       -30         Power consumption in modes other than active mode       0.015       kW       Supplementary heater       Supplementary heater         Off mode       PorF       0.015       kW       Rated heat output (*)       Psup       0.0         Thermostat-off mode       Por       0.015       kW       Type of energy input       Electrical         Crankcase heater mode       Pox       0.000       kW       Type of energy input       Electrical         Other items       Capacity control       variable       Rated air flow rate, outdoors       -       2220         Sound power level, indoors/outdoors       LmA       41 / 54       dBA       -       -       2220         For heat pump combination heater:       Declared load profile       L       Water heating energy efficiency       7,wh       134         Daily electricity consumption       Qelec       4.000       kWh       KWh       Contact details       -       2220	-	2. 74	COPd	Tj = bivalent temperature	kW	6. 0	Pdh	Tj = bivalent temperature
Reference design conditions for space heatingTdesignh-10° CHeating water operating limit temperatureWTOL60Power consumption in modes other than active modeOff modePorF0.015kWSupplementary heaterSupplementary heaterOff modePorF0.015kWRated heat output (*)Psup0.0Thermostat-off modePor0.015kWType of energy inputElectricalCrankcase heater modePor0.000kWType of energy inputElectricalOther itemsCapacity controlvariableRated air flow rate, outdoors-2220Sound power level, indoors/outdoorsLmA41 / 54dBAKWhFor heat pump combination heater:-2220Declared load profileLLWater heating energy efficiency $\eta$ wh134Daily electricity consumptionQelec4.000kWhKWhContact detailsSasokWh	-	2. 74	COPd	Tj = operation limit temperature (***)	kW	6. 0	Pdh	Tj = operation limit temperature (***)
Reference design conditions for space heatingTdesignh-10° CHeating water operating limit temperatureWTOL60Power consumption in modes other than active modeOff modePorF0.015kWSupplementary heaterSupplementary heaterOff modePorF0.015kWRated heat output (*)Psup0.0Thermostat-off modePor0.015kWType of energy inputElectricalCrankcase heater modePor0.000kWType of energy inputElectricalOther itemsCapacity controlvariableRated air flow rate, outdoors-2220Sound power level, indoors/outdoorsLmA41 / 54dBAKWhFor heat pump combination heater:-2220Declared load profileLLWater heating energy efficiency $\eta$ wh134Daily electricity consumptionQelec4.000kWhKWhContact detailsSasokWh								
heatingIdesign-10Ctemperaturewith60Power consumption in modes other than active modeSupplementary heaterSupplementary heaterOff modePorf0.015kWThermostat-off modePro0.015kWStandby modePsg0.015kWCrankcase heater modePox0.000kWOther itemsCapacity controlvariableRated air flow rate, outdoors-Sound power level, indoors/outdoorsL <sub>MA</sub> 41 / 54dBAAnnual energy consumption-2220For heat pump combination heater:Declared load profileLWater heating energy efficiency $\eta$ wh134Daily electricity consumptionQelec4.000kWhKWhContact details	°C	-30	TOL	Operation limit temperature	°C	-10	Tbiv	Bivalent temperature
Power consumption in modes other than active mode       Supplementary heater         Off mode       PoFF       0.015       kW         Thermostat-off mode       Pro       0.015       kW         Standby mode       PsB       0.015       kW         Crankcase heater mode       PoK       0.000       kW         Other items       0.000       kW       Type of energy input       Electrical         Capacity control       variable       said       -       2220         Sound power level, indoors/outdoors       L <sub>WA</sub> 41 / 54       dBA       dBA         Annual energy consumption       Q <sub>HE</sub> 2600       kWh       Water heating energy efficiency $\eta$ wh       134         Daily electricity consumption       Qelec       4.000       kWh       KWh       Contact details       -       2220	°C	60	WTOL		°C	-10	Tdes i gnh	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Supplementary heater		de	active mo	Power consumption in modes other than
Standby mode $P_{SB}$ $0.015$ kWType of energy inputElectricalCrankcase heater mode $P_{CK}$ $0.000$ kWType of energy inputElectricalOther items $0.000$ kWRated air flow rate, outdoors $-$ 2220Sound power level, indoors/outdoors $L_{MA}$ $41/54$ dBA $-$ 2220Sound power level, indoors/outdoors $L_{MA}$ $41/54$ dBA $ 2220$ For heat pump combination heater: $0.000$ kWh $ 134$ Declared load profileLWater heating energy efficiency $\eta$ wh $134$ Daily electricity consumptionQelec $4.000$ kWh $kWh$ $-$ Contact details $   -$	kW	0.0	Psup	Rated heat output (*)	kW	0. 015	P <sub>0FF</sub>	Off mode
Crankcase heater mode       P <sub>OK</sub> 0.000       kW         Other items         Capacity control       variable       Rated air flow rate, outdoors       -       2220         Sound power level, indoors/outdoors       L <sub>WA</sub> 41 / 54       dBA       -       2220         Annual energy consumption       Q <sub>HE</sub> 2600       kWh       -       2220         For heat pump combination heater:       Declared load profile       L       Water heating energy efficiency       7 wh       134         Daily electricity consumption       Qelec       4.000       kWh       KWh       -       -       -         Contact details       S80       kWh       -					kW	0.015	P <sub>T0</sub>	Thermostat-off mode
Other items     Variable     Rated air flow rate, outdoors     2220       Sound power level, indoors/outdoors     L <sub>WA</sub> 41 / 54     dBA     -     2220       Sound power level, indoors/outdoors     L <sub>WA</sub> 41 / 54     dBA     -     2220       Annual energy consumption     Q <sub>HE</sub> 2600     kWh     -     2220       For heat pump combination heater:     Declared load profile     L     Water heating energy efficiency $\eta$ wh     134       Daily electricity consumption     Qelec     4.000     kWh     KWh     -     -       Contact details     Gottact details     -     -     -     -     -		Electrical		Type of energy input	kW	0.015	P <sub>SB</sub>	Standby mode
Capacity control     variable     Rated air flow rate, outdoors     2220       Sound power level, indoors/outdoors     L <sub>WA</sub> 41 / 54     dBA       Annual energy consumption     Q <sub>HE</sub> 2600     kWh       For heat pump combination heater:     Declared load profile     L       Daily electricity consumption     Qelec     4.000     kWh       Annual electricity consumption     AEC     880     kWh					kW	0.000	Рск	Crankcase heater mode
Capacity control       Variable       2220         Sound power level, indoors/outdoors $L_{WA}$ $41 / 54$ $dBA$ Annual energy consumption $Q_{HE}$ $2600$ kWh         For heat pump combination heater:       Declared load profile       L       Water heating energy efficiency $\eta$ wh       134         Daily electricity consumption       Qelec       4.000       kWh       KWh       Contact details								Other items
Annual energy consumption     Q <sub>HE</sub> 2600     kWh       For heat pump combination heater:       Declared load profile       Daily electricity consumption       Qelec       4.000       kWh       Annual electricity consumption       AEC       880       kWh	m³/h	2220	-	Rated air flow rate, outdoors		variable		Capacity control
For heat pump combination heater:       Declared load profile     L       Daily electricity consumption     Qelec       Annual electricity consumption     AEC       880     kWh					dBA	41 / 54	L <sub>WA</sub>	Sound power level, indoors/outdoors
Declared load profile     L     Water heating energy efficiency     η wh     134       Daily electricity consumption     Qelec     4.000     kWh       Annual electricity consumption     AEC     880     kWh       Contact details     Contact details     Contact details					kWh	2600	$Q_{HE}$	Annual energy consumption
Daily electricity consumption     Qelec     4.000     kWh       Annual electricity consumption     AEC     880     kWh       Contact details     Contact details     Contact details								For heat pump combination heater:
Annual electricity consumption AEC 880 kWh Contact details	%	134	$\eta$ wh	Water heating energy efficiency		L		Declared load profile
Contact details					kWh	4.000	Qelec	Daily electricity consumption
					kWh	880	AEC	Annual electricity consumption
					·			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 - Man	isa, Turkey	9 Yunusemre – Man	lu Bulvari No:1					
The identification and signature of the person empowered to bind the supplier; Kenichi SAITO					to bind the	empowered t	ne person	The identification and signature of the
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY					re section.	um-temperatu	mate / mediu	The signature is signed in the average cli
· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.				installation and or operation manuals.	found in the	embly can be	ance and asse	· Details and precautions on installation, maintena

· 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	η s	116	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = − 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 3	kW	Tj = + 7 ° C	COPd	4. 89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°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	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	2.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	4960	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	105	%
Daily electricity consumption	Qelec	4. 820	k₩h				
Annual electricity consumption	AEC	1060	kWh				
Contact details				·			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ie person	empowered	to bind the				
The signature is signed in the average cli	nate / mediu	ım-temperatu	re section	Kenichi SAITO Manager, Quality Assuarance Department			
				TURKEY			
· Details and precautions on installation, maintena	nce and asso	embly can be	found in the				
· Details and precautions on recycling and/or disp	oosal 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-SHWM60VAA
	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.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	ηs	139	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
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	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	2. 9	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	4168	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	105	%
Daily electricity consumption	Qelec	4. 820	k₩h				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comporatu		TURKEY			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
$\cdot$ Details and precautions on recycling and/or disp	posal 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	ηs	165	%
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 Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	3. 28	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 16	-
Degradation co-efficient (**)	Cdh	0. 98	-			. <u> </u>	
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
			-			. <u> </u>	
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	de		Supplementary heater		1 1	
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	1914	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of the	ie person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
Details and precautions on installation, maintena     Details and precautions on recycling and/or dis		,		installation and or operation manuals.			

 $\cdot$  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-SHWM60VAA
	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.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	6.0	kW	Seasonal space heating energy efficiency	η s	231	%
: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	6. 0	kW	Tj = + 2 ° C	COPd	3.80	-
Cdh	0.99	_				
Pdh	4.4	kW	Tj = + 7 ° C	COPd	5. 10	-
Cdh	0. 98	_				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.46	-
Cdh	0. 98	_				
Pdh	6. 0	kW	Tj = bivalent temperature	COPd	3.80	-
Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	3.80	-
		-				
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0.015	kW				
$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
P <sub>CK</sub>	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
L <sub>WA</sub>	41 / 54	dBA				
$\mathbf{Q}_{HE}$	1371	kWh				
			•			
	L		Water heating energy efficiency	$\eta$ wh	135	%
Qelec	3. 850	kWh				
AEC	846	kWh				
NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
ie person	empowered	to bind the				
nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
	Prated Frated Frated Frated Pdh Cdh PoFF Pro PsB PcK Cdh PcK Cdh PcK PcK Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh Cdh PcK Cdh Cdh PcK Cdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh	Prated         6.0           Ioad at indoor           ure T j           Pdh           Cdh           Pdh           6.0           Cdh           Pdh           6.0           Cdh           Pdh           6.0           Cdh           Pdh           6.0           Cdh           0.99           Pdh           4.4           Cdh           0.98           Pdh           6.0           Tdesignh           2           active mode           Por           Por           0.015           PsB           0.015           Pox           0.000           variable           L           Qelec <td< td=""><td>Prated         6.0         kW           Ioad at indoor        </td><td>Prated6.0kWPrated6.0kWi load at indoorenergy efficiencyure T jpath-Pdh-kWCdhPdh6.0kWCdhPdh6.0kWCdh0.99-Pdh4.4kWCdh0.98Pdh4.7kWCdh0.98Pdh6.0kWPdh6.0kWPdh6.0kWPdh6.0kWPdh6.0kWPdh6.0kWPdh2° Cactive mode° CPorr0.015kWPorr0.015kWPox0.000kWType of energy inputvariableRated air flow rate, outdoorsLWater heating energy efficiencyQelec3.850A46kWhAEC846KWhManisa OSB 4.Kisim Kecilikoyoab Mah. Amet Nazif Zorne person empowered to bind the supplier:Manager, Quality Assuarance Department</td><td>Prated6.0kWSeasonal space heating energy efficiency7 sPrated6.0kWSeasonal space heating energy efficiency7 sPahkWDeclared coefficient of performance or primary energy part load at indoor temperature 20 ° C and outdoor tem T j = - 7 ° CPahPah6.0kWT j = - 7 ° CCOPdCdhPah4.4kWT j = + 2 ° CCOPdCdh0.99Pdh4.7kWT j = + 7 ° CCOPdCdh0.98Pdh6.0kWT j = + 12 ° CCOPdCdh0.98Pdh6.0kWT j = bivalent temperatureCOPdCdh0.98Pdh6.0kWT j = operation limit temperatureCOPdCdh0.98Tbiv2° C0peration limit temperatureTOLHeating water operating limitWTOLSupplementary heater-Porr0.015KWType of energy input-Pas0.000kWhPas1371kWhQelec3.850kWhAetNutfortRING TURKEY JOINT STOCK COMPANYManager, Quality Assuarance DepartmentNUFACTURING TURKEY JOINT STOCK COMPANYManager, Quality Assuarance Department</td></td<> <td>Prated6.0KW10ad at indoorIndoorure T jpart load at indoorPdh-Cdh-Pdh-Rdd-Pdh-Cdh-Pdh6.0KWCdh-Pdh6.0KWCdh-Pdh6.0KWCdh0.99-Pdh4.4KWCdh0.98-Pdh4.7KWCdh0.98-Pdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdr0.015KWPars0.015KWPro0.015KWPro0.015KWPro0.015KWPars0.00KWPars0.00KWPars0.00KWPro0.015</td>	Prated         6.0         kW           Ioad at indoor	Prated6.0kWPrated6.0kWi load at indoorenergy efficiencyure T jpath-Pdh-kWCdhPdh6.0kWCdhPdh6.0kWCdh0.99-Pdh4.4kWCdh0.98Pdh4.7kWCdh0.98Pdh6.0kWPdh6.0kWPdh6.0kWPdh6.0kWPdh6.0kWPdh6.0kWPdh2° Cactive mode° CPorr0.015kWPorr0.015kWPox0.000kWType of energy inputvariableRated air flow rate, outdoorsLWater heating energy efficiencyQelec3.850A46kWhAEC846KWhManisa OSB 4.Kisim Kecilikoyoab Mah. Amet Nazif Zorne person empowered to bind the supplier:Manager, Quality Assuarance Department	Prated6.0kWSeasonal space heating energy efficiency7 sPrated6.0kWSeasonal space heating energy efficiency7 sPahkWDeclared coefficient of performance or primary energy part load at indoor temperature 20 ° C and outdoor tem T j = - 7 ° CPahPah6.0kWT j = - 7 ° CCOPdCdhPah4.4kWT j = + 2 ° CCOPdCdh0.99Pdh4.7kWT j = + 7 ° CCOPdCdh0.98Pdh6.0kWT j = + 12 ° CCOPdCdh0.98Pdh6.0kWT j = bivalent temperatureCOPdCdh0.98Pdh6.0kWT j = operation limit temperatureCOPdCdh0.98Tbiv2° C0peration limit temperatureTOLHeating water operating limitWTOLSupplementary heater-Porr0.015KWType of energy input-Pas0.000kWhPas1371kWhQelec3.850kWhAetNutfortRING TURKEY JOINT STOCK COMPANYManager, Quality Assuarance DepartmentNUFACTURING TURKEY JOINT STOCK COMPANYManager, Quality Assuarance Department	Prated6.0KW10ad at indoorIndoorure T jpart load at indoorPdh-Cdh-Pdh-Rdd-Pdh-Cdh-Pdh6.0KWCdh-Pdh6.0KWCdh-Pdh6.0KWCdh0.99-Pdh4.4KWCdh0.98-Pdh4.7KWCdh0.98-Pdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdr0.015KWPars0.015KWPro0.015KWPro0.015KWPro0.015KWPars0.00KWPars0.00KWPars0.00KWPro0.015

· 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	η s	131	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	2. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 1	kW	Tj = + 7 ° C	COPd	4. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 7	kW	Tj = +12 ° C	COPd	5.87	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
			•				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$Q_{HE}$	3706	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ 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	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
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百藤健一				Kenichi SAITO Manager, Quality Assuarance Department			
12 1971 DE -				Manager, Quality Assuarance Department TURKEY			
· Dataile and proceptions on installation maintang				installation and or operation manuals			

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

 $\cdot$  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-SHWM6OVAA
	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	6.0	kW	Seasonal space heating energy efficiency	η s	188	%
Declared capacity for heating for part	t load at	indoor		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 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	5.3	kW	Tj = - 7 ° C	COPd	3. 39	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.8	kW	Tj = + 2 ° C	COPd	4. 76	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.9	kW	Tj = + 7 ° C	COPd	5.90	-
Degradation co-efficient (**)	Cdh	0. 98	-			I	
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 52	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6.0	kW	Tj = bivalent temperature	COPd	2. 74	-
Tj = operation limit temperature (***)	Pdh	6.0	kW	Tj = operation limit temperature (***)	COPd	2. 74	-
			Į			I	
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	de		Supplementary heater		II	
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW			1	
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items			II.				
Capacity control		variable		Rated air flow rate, outdoors	_	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	Q <sub>HE</sub>	2600	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh			<u> </u>	
Annual electricity consumption	AEC	898	kWh				
Contact details			<u> </u>				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	ANUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / medi	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
· Details and precautions on installation, maintena		,					

· 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	η s	116	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = − 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°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	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	2. 0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	4960	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ 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	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
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The signature is signed in the average clin	nate / medit	um comperatu		TURKEY			
· Details and precautions on installation, maintena	nce and ass	embly can be	found in the				
· Details and precautions on recycling and/or dis	posal 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	ηs	139	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7. 56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
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	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	2.9	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	4168	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ 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	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
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The signature is signed in the average clin	male / medil	um-remperatu		TURKEY			
· Details and precautions on installation, maintena	nce and asso	embly can be	found in the				
· Details and precautions on recycling and/or dis							

(\*) 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-SHWM60VAA
	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.

Rated heat output (*)	Durit						
	Prated	6.0	kW	Seasonal space heating energy efficiency	η s	165	%
Declared capacity for heating for part	t load at	indoor		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 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	3. 28	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 16	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	1914	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	139	%
Daily electricity consumption	Qelec	3. 820	kWh				
Annual electricity consumption	AEC	841	k₩h				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
· Details and precautions on installation, maintena	ance and asse	embly can be	found in the				

 $\cdot$  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-SHWM60VAA
	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.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	6.0	kW	Seasonal space heating energy efficiency	η s	231	%
: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	6. 0	kW	Tj = + 2 ° C	COPd	3.80	-
Cdh	0.99	_				
Pdh	4.4	kW	Tj = + 7 ° C	COPd	5. 10	-
Cdh	0. 98	_				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.46	-
Cdh	0. 98	_				
Pdh	6. 0	kW	Tj = bivalent temperature	COPd	3.80	-
Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	3.80	-
		-				
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0.015	kW				
$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
P <sub>CK</sub>	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
L <sub>WA</sub>	41 / 54	dBA				
$\mathbf{Q}_{HE}$	1371	kWh				
			•			
	L		Water heating energy efficiency	$\eta$ wh	139	%
Qelec	3. 820	kWh				
AEC	841	kWh				
NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
le person	empowered	to bind the				
nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
	Prated Frated Frated Frated Pdh Cdh PoFF Pro PsB PcK Cdh PcK Cdh PcK PcK Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh PcK Cdh Cdh PcK Cdh Cdh PcK Cdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh	Prated         6.0           Ioad at indoor           ure T j           Pdh           Cdh           Pdh           6.0           Cdh           Pdh           Cdh           Pdh           6.0           Cdh           Pdh           6.0           Cdh           0.99           Pdh           4.4           Cdh           0.98           Pdh           6.0           Tdesignh           2           active mode           PorF           0.015           PsB           0.015           PsB           0.015           Pock           0.000           variable           L           Qelec           3.820           AEC           841	Prated         6.0         kW           Ioad at indoor	Prated       6.0       kW         Prated       6.0       kW         i load at indoor       energy efficiency         ure T j       -       kW         Pdh       -       kW         Cdh       -       -         Pdh       6.0       kW         Cdh       -       -         Pdh       6.0       kW         Cdh       0.99       -         Pdh       4.4       kW         Cdh       0.98       -         Pdh       6.0       kW         Cdh       0.98       -         Pdh       6.0       kW         Tj = +7       ° C         Cdh       0.98       -         Pdh       6.0       kW         Tj = operation limit temperature       Tj = operation limit temperature         Heating water operating limit       temperature         active mode       Supplementary heater         Porr       0.015       kW         Pos       0.000       kW         Pox       0.000       kW         Variable       Rated air flow rate, outdoors         Law       41 / 54       dBA	Prated6.0kWPrated6.0kWPrated6.0kWcload at indoorindoorPdhPdhPdhPdhPdh6.0kWCdh-Pdh6.0kWCdh0.99Pdh4.4KWTj = - 7 ° CCdh0.99Pdh4.4KWTj = + 7 ° CCdh0.98Pdh4.7KWTj = + 12 ° CCdh0.98Pdh6.0KWTj = bivalent temperatureCdh0.98Pdh6.0KWTj = operation limit temperatureCdh0.98Pdh6.0KWYCdh0.015KWYPdr0.015KWPorPorr0.015VariableRated air flow rate. outdoorsVariableRated air flow rate. outdoorsLVariableVariableRated air flow rate. outdoorsLLQelec3.820Al1kWhNUFACTURING TURKEY JOINT STOCK COMPANYMarker / medium-temperature section.Manager, Quality Assuarance Department	Prated6.0KW10ad at indoorIndoorure T jpdfPdh-KW-Odh-Pdh-Rdh-Pdh-CdhPdh6.0KWTj = -7 ° CCdh0.99Pdh4.4KWCdh0.98Pdh4.7KWCdh0.98Pdh6.0KWPdh6.0KWCdh0.98-Pdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdh6.0KWPdr0.015KWPro0.015Pro0.015Pro0.015Pro0.015Pro0.015KWPro0.015Rated air flow rate. outdoors-2220LKWhQelec3.820AddKWhAEC841KWh <t< td=""></t<>

· 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	η s	129	%
Declared capacity for heating for part	: load at	indoor	1	Declared coefficient of performance or prin	mary 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	5.3	kW	Tj = - 7 ° C	COPd	2. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 1	kW	Tj = + 7 ° C	COPd	4. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	2. 7	kW	Tj = +12 ° C	COPd	5. 87	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	3761	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ 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	lu Bulvari No:	19 Yunusemre - Ma	anisa, Turkey
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百藤建一				Kenichi SAITO Manager, Quality Assuarance Department			
17 MULE DE -				TURKEY			
· Details and precautions on installation maintena	nee and eee	ambly can be	found in the	-			

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

 $\cdot$  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-SHWM60VAA
	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.

Prated oad at T j Pdh	6.0 indoor	kW	Seasonal space heating energy efficiency Declared coefficient of performance or prim	η s	184	%
Тj	indoor		Declared coefficient of performance or prim			
-				nary energy	ratio for	
Pdh			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
	5.3	kW	Tj = - 7 ° C	COPd	3. 39	-
Cdh	0.99	-			. <u> </u>	
Pdh	4.8	kW	Tj = + 2 ° C	COPd	4. 76	-
Cdh	0. 99	_				
Pdh	4. 9	kW	Tj = + 7 ° C	COPd	5. 90	-
Cdh	0. 98	-				
Pdh	3. 0	kW	Tj = +12 ° C	COPd	6. 52	-
Cdh	0.97	-				
Pdh	6.0	kW	Tj = bivalent temperature	COPd	2. 74	-
Pdh	6.0	kW	Tj = operation limit temperature (***)	COPd	2. 74	-
Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
les i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
tive mo	de		Supplementary heater			
P <sub>0FF</sub>	0.015	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0. 015	kW				
$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
P <sub>CK</sub>	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
$L_{WA}$	41 / 54	dBA				
$Q_{HE}$	2655	kWh				
	L		Water heating energy efficiency	$\eta$ wh	134	%
Qelec	4. 080	kWh				
AEC	898	kWh				
				lu Bulvari No∶1	19 Yunusemre – M	anisa, Turkey
person	empowered t	o bind the	e supplier; Kenichi SAITO			
e / mediu	m-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
	Cdh Pdh Cdh Pdh Cdh Pdh Pdh Tbiv esignh tive mo PoFF PTO PSB PCK PTO PSB PCK CURING TO Delec AEC CTURING TO Derson ( / mediu	Cdh         0.99           Pdh         4.9           Cdh         0.98           Pdh         3.0           Cdh         0.97           Pdh         6.0           Pdh         0.015           Pro         0.015           PGK         0.000           Variable         L           L         2655           L         2655           L         2655           CTURING TURKEY JOINT ST           person empowered to         1           / medium-temperature         1           and assembly can be         1	Cdh         0.99         -           Pdh         4.9         kW           Cdh         0.98         -           Pdh         3.0         kW           Cdh         0.97         -           Pdh         6.0         kW           Porr         0.015         kW           Pck         0.000         kW           Pck         0.000         kW           L         Variable         L           L         L         L           Delec         4.080         kWh           AEC         898         kWh           CTURING TURKEY JOINT STOCK COMPANY         Derson empowered to bind the           / medium-temperature section.	Cdh $0.99$ -Pdh $4.9$ kWCdh $0.98$ -Pdh $3.0$ kWCdh $0.98$ -Pdh $3.0$ kWCdh $0.97$ -Pdh $6.0$ kWPdh $6.0$ kWTbiv $-10$ ° Cesignh $-10$ ° CHating water operating limitCoperation limit temperatureHeating water operating limitEmperatureSupplementary heaterSupplementary heaterPorr $0.015$ kWPas $0.015$ kWPork $0.000$ kWVariableRated air flow rate, outdoorsLVariableRated air flow rate, outdoorsLUWater heating energy efficiencyCTURING TURKEY JOINT STOCK COMPANYManisa 0S8 4.Kisim Kecilikoyosh Mah. Ahmet Nazif Zorperson empowered to bind the supplier: Kenichi SAITOManager, Quality Assuarance Department	Cdh $0.99$ -Pdh $4.9$ KWCdh $0.98$ -Pdh $3.0$ KWTj = +12 ° CCOPdCdh $0.97$ -Pdh $6.0$ KWPdh $6.0$ KWTj = bivalent temperatureCOPdPdh $6.0$ KWTj = operation limit temperature (***)COPdTbiv $-10$ ° CPorr $0.015$ KWPorr $0.015$ KWPorr $0.015$ KWPass $0.015$ KWPorr $0.015$ KWPorr $0.015$ KWPorr $0.000$ KWPro $0.015$ KWPorr $0.000$ KWPorr $0.000$ KWPorr $0.015$ KWPorr $0.015$ KWPorr $0.000$ KWPorr $0.015$ KWPorr $0.000$ KWPorr $0.000$ KWPorr $0.000$ KWPorr $0.000$ KWPorr $0.000$ KWPorr $0.000$	Cdh $0.99$ -TPdh $4.9$ kWTCdh $0.98$ -Pdh $3.0$ kWTPdh $6.0$ kWNOLPdh $6.0$ kWNOLPdf $0.015$ kWRated heat output (*)PsupPor $0.015$ kWType of energy inputElectricalPox $0.000$ kWType of energy inputElectricalPox $0.000$ kWWater heating energy efficiency $\eta$ wh134Pelec $4.080$ kWhManisa 0SB 4.Kisim Kecilikoyoab Mah. Atmet Nazif Zorlu Bulvari No:19 Yunuseme - MDelec $4.080$ kWhManisa 0SB 4.Kisim Kecilikoyoab Mah. Atmet Nazif Zorlu Bulvari No:19 Yunuseme - MCURING TURKEY JOINT STOCK COMPANYManisa 0SB 4.Kisim Kecilikoyoab Mah. Atmet Nazif Zorlu Bulvari No:19 Yunuseme - MDereson empowered to bind the supplier: kenichi SAITOKenichi SAITO/ medium-temperature section.Manager, Qualit

· 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	η s	115	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = − 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	2. 55	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 2 ° C	Pdh	3.6	kW	Tj = + 2 ° C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 89	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	4. 9	kW	Tj = bivalent temperature	COPd	1. 75	-
Tj = operation limit temperature (***)	Pdh	4. 0	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 75	-
Bivalent temperature	Tbiv	-15	°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	de		Supplementary heater			
Off mode	$P_{0FF}$	0.015	kW	Rated heat output (*)	Psup	2.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	Q <sub>HE</sub>	4993	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – N	lanisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section	Manager, Quality Assuarance Department			
	,			TURKEY			
· Details and precautions on installation, maintena	ance and ass	embly can be	found in the	installation and or operation manuals.			
$\cdot$ Details and precautions on recycling and/or dis	posal 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	ηs	138	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	3.6	kW	Tj = - 7 ° C	COPd	3. 21	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 42	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7.56	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	5. 1	kW	Tj = bivalent temperature	COPd	2. 05	-
Tj = operation limit temperature (***)	Pdh	3. 1	kW	Tj = operation limit temperature (***)	COPd	1. 42	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	4. 9	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
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	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	2. 9	kW
Thermostat-off mode	P <sub>T0</sub>	0.015	kW				
Standby mode	$P_{SB}$	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	4202	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ wh	109	%
Daily electricity consumption	Qelec	4. 750	k₩h				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comporatu		TURKEY			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
$\cdot$ Details and precautions on recycling and/or dis	posal 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-SHWM60VAA
	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	6.0	kW	Seasonal space heating energy efficiency	ηs	159	%
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 temperature T j				part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	6.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	3. 28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6. 16	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	6. 0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	6. 0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		II	
Off mode	P <sub>0FF</sub>	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 54	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	1980	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	$\eta$ 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 Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
Details and precautions on installation, maintena     Details and precautions on recycling and/or dis		,		installation and or operation manuals.			

 $\cdot$  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-SHWM60VAA
	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.

	6.0 indoor	kW	Seasonal space heating energy efficiency	η s	220	%	
	indoor						
j			Declared coefficient of performance or prim	nary energy	ratio for		
	temperature 20 $^\circ$ C and outdoor temperature T j			part load at indoor temperature 20 $^\circ$ C and outdoor temperature Tj			
lh	-	kW	Tj = - 7 ° C	COPd	-	-	
lh	-	-					
lh	6. 0	kW	Tj = + 2 ° C	COPd	3.80	-	
lh	0. 99	-					
lh	4. 4	kW	Tj = + 7 ° C	COPd	5. 10	-	
lh	0. 98	-					
lh	4. 7	kW	Tj = +12 ° C	COPd	7.46	-	
lh	0. 98	-					
lh	6. 0	kW	Tj = bivalent temperature	COPd	3.80	-	
lh	6. 0	kW	Tj = operation limit temperature (***)	COPd	3.80	-	
iv	2	°C	Operation limit temperature	TOL	-30	°C	
i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
ve mo	de		Supplementary heater				
FF	0.015	kW	Rated heat output (*)	Psup	0.0	kW	
0	0.015	kW					
B	0.015	kW	Type of energy input		Electrical		
ж	0.000	kW					
	variable		Rated air flow rate, outdoors	-	2220	m³/h	
IA	41 / 54	dBA					
E	1437	kWh					
	L		Water heating energy efficiency	$\eta$ wh	139	%	
ec	3. 820	kWh					
C	841	kWh					
				lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey	
son	empowered t	o bind the					
mediu	ım-temperatu	re section.	Manager, Quality Assuarance Department				
	DFF TO SB CK WA HE EC EC JRING T rson ' mediu	dh     0.99       dh     4.4       dh     0.98       dh     4.7       dh     0.98       dh     6.0       dh     6.0       dh     6.0       dh     2       ignh     2       ve     mode       OFF     0.015       0.015     0.015       SB     0.015       CK     0.000       Variable       MA     41 / 54       HE     1437       L       Iec     3.820       EC     841       JRING TURKEY JOINT ST       rson     empowered t       '' medium-temperatu	dh       0.99       -         dh       4.4       kW         dh       0.98       -         dh       4.7       kW         dh       0.98       -         dh       6.0       kW         dh       2       ° C         ignh       2       ° C         ve mode       -       -         0.015       kW       -         SB       0.015       kW         ck       0.000       kW         var i able       -         WA       41 / 54       dBA         HE       1437       kWh         L       -       -         Lec       3.820       kWh         JRING TURKEY JOINT STOCK COMPANY       rson empowered to bind the         ' medium-temperature section.       -	dh $0.99$ $-$ dh $4.4$ kW $Tj = +7 ° C$ dh $0.98$ $-$ dh $4.7$ kWdh $6.0$ kWdh $2 ° C$ $0$ operationlimit temperatureHeating water operating limit temperatureSupplementary heaterSupplementary heaterSupplementary heaterFF $0.015$ kW $0.000$ kWType of energy input $ox$ $0.000$ kW $ax$ $41/54$ dBA kWhtec $3.820$ kWhLWater heating energy efficiencylec $3.820$ kWhRING TURKEY JOINT STOCK COMPANYManisa 0SB 4.Kisim Kecilikoyosb Mah. Anmet Nazif Zorrson empowered to bind the supplier: Kenichi SAITO	dh       0.99       -         dh       4.4       kW         dh       0.98       -         dh       4.7       kW         dh       4.7       kW         dh       0.98       -         dh       6.0       kW         dh       6.0       kW         iv       2       ° C         ignh       2       ° C         vermode       Supplementary heater       TOL         Heating water operating limit emperature       WTOL         vermode       Supplementary heater         Vermode       Supplementary heater         variable       Rated heat output (*)       Psup         variable       Rated air flow rate, outdoors       -         wa       41 / 54       dBA         veriable       Water heating energy efficiency       7wh         lec       3.820       kWh       KWh         RING TURKEY JOINT STOCK COMPANY       Manisa 0S8 4.Kisin Kecilikeyosh Mah. Atmet Nazif Zorlu Bulvari No:         reson empowered to bind the supplier:       Kenichi SAITO         'medium-temperature section.       Manager, Quality Assuarance Department         TURKEY       Vassection.       Manager, Quality Assu	dh       0.99       -         dh       4.4       kW         fh       0.98       -         dh       0.98       -         fh       4.7       kW         fh       0.98       -         dh       0.98       -         fh       0.98       -         dh       0.98       -         dh       6.0       kW         fill       6.0       kW         fill       6.0       kW         fill       6.0       kW         fill       fill       fill         fill       6.0       kW         fill       fill       fill         fill       fi	

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