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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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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
de energie-efficiêntie voor waterverwarming onder koudere klimaatomstandigheden Energieffektivitet vid vattenuppvärmning under kallare klimatforhållanden energiefektiviteten ved vandopvarmning under koldere klimatforhållanden energietica os vedenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa energieffektivitet vid vattenuppvärmning under kallare klimatforhållanden energieffektiviteten ved vandopvarmning under koldere klimatforhållanden energiefektiviteten ved vandopvarmning under koldere klimatforhållanden energiefektiviteten ved vandopvarmning under kallare klimatforhållanden energiefektiviteten ved vandopvarmning under varmer klimatforhållanden fefficienze energietica do s de energie-efficientie voor waterverwarming onder warmere klimatofugheden Energiefektivitet vid vattenuppvärmning under varmare klimatforhållanden energiefektiviteten ved vandopvarmning under varmere klimatorhold a eficiencia energietica do s vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa Energiefektivitet vod vattenuppvärmning under varmare klimatforhållanden energiefektiviteten ved vandopvarmning under varmere klimatorhold eefktywność eneregietica do s Soun	Water heating energy efficiency under colder climate conditions	ass	pour le chauffage de l'eau, dans les conditions clim
Vedenlämmlyksen energiatehokkus kylmissä ilmasto-olosuhteissa energetickå učinnost ohfevu vody za chladnějšich klimatických podminek energienterview or vedenlämmityksen energiatehokkus kylmissä ilmasto-olosuhteissa energietická učinnost ohfevu vody za chladnějšich klimatických podminek energietická učinnost ohfevu vody za teplejšich klimatických podminek energietická učinnost ohfevu vody za teplejšich klimatických podminek energieticki vod varance varance klimatorhold energietická učinnost ohfevu vody za teplejšich klimatických podminek energieticki vod varance varance klimatorhold energietická učinnost ohfevu vody za teplejšich klimatických podminek energietická učinnost ohfevu vody za teplej			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 _{WA} outdoor der Schallleistungspegel L _{WA} im Freien le niveau de puissance acoustique L _{WA} à l'extérieur il ivello di poterza sonora Net gluidsvermogensniveau L _{WA} bulten Ljudefektrivián L _{WA} i udomhus On rivel de poterica sonora On rivel de poterica 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 _{WA} outdoor der Schallleistungspegel L _{WA} im Freien energienstiveau L _{WA} butlen ka textérieur Integluidsvernogenstriveau L _{WA} 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 _{WA} outdoor der Schallleistungspegel L _{WA} im Freien le niveau de puissance acoustique L _{WA} à l'extérieur ledelivermogenstriveau L _{WA} buiten L _{WA} buiten L _{WA} i udontus	de eneraie-	opvärmn	
Image: Sound power level L _{WA} outdoor der Schallteistungspegel L _{WA} im Freien le niveau de puissance acoustique L _{WA} à l'extérieur Sound power level L _{WA} outdoor Ljudeffektnivân L _{WA} i utomhus lydeffektnivân L _{WA} i utomhus	vedenlämmi	vody za	ефективност при подгряване на вода при по-топли климатични
het geluidsvermogensniveau L _{WA} buiten L _{WA} i ude Ljudeffektnivån L _{WA} i utomhus			-
		ien	acoustique L WA à l'extérieur

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	- la aplicación de media temperatura In εφαριμογή σε μέση θεριμοκρασία
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	 a la policia calorífica nominal(en condiciones climáticas medias) n ονομαστική θεριμική ισχύς(υπό μέσες κλιματικές συνθήκες)
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natiche medie)	para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias)
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náticas mé	η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου(υπό μέσες κλιματικές συνθήκες)
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édias) owanego)	η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) -
	el nivel de potencia acústica L _{WA} en interiores η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	funcionar solamente durante las horas de baja demanda λεπουργία μόνο εκτός των ωρών αιχμής
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	la potencia calorífica nominal en condiciones climáticas más cálidas η ονοματική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες
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다	
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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 _{vin} , en exteriores η στάθμη ηχητικής ισχύος L _{vin} εξωτερικού χώρου

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	EHSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	η s	135	%
Declared capacity for heating for part	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 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	8.9	kW	Tj = - 7 ° C	COPd	2.19	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 2 ° C	COPd	3. 38	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.8	kW	Tj = + 7 ° C	COPd	4. 62	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	2. 9	kW	Tj = +12 ° C	COPd	6.30	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	10.0	kW	Tj = bivalent temperature	COPd	1.69	-
Tj = operation limit temperature (***)	Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	1.69	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space 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_{OFF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	5972	k₩h				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	_	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶	19 Yunusemre – M	anisa, Turkey
The identification and signature of the	he person	empowered	to bind th	e supplier: Kenichi SAITO			
百藤正一				Manager, Quality Assuarance Department			
				TURKEY			
			6	A state of the sta			

· 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-SHWM100YAA
	Indoor unit:	EHSD-****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:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	181	%
load at	indoor			nary energy	ratio for	
ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Pdh	8.9	kW	Tj = - 7 ° C	COPd	3. 10	-
Cdh	0.99	-				
Pdh	5.4	kW	Tj = + 2 ° C	COPd	4. 62	-
Cdh	0. 98	-				
Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6.00	-
Cdh	0. 98	-				
Pdh	3. 2	kW	Tj = +12 ° C	COPd	6.96	-
Cdh	0.95	-				
Pdh	10.0	kW	Tj = bivalent temperature	COPd	2. 49	-
Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	2. 49	-
Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
P _{T0}	0. 022	kW				
P _{SB}	0. 022	kW	Type of energy input		Electrical	
Рск	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2640	m³/h
L _{WA}	41 / 58	dBA				
\mathbf{Q}_{HE}	4480	k₩h				
	-		Water heating energy efficiency	η wh	-	%
Qelec	-	k₩h				
AEC	-	kWh				
NUFACTURING T	URKEY JOINT S	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
ne person	empowered 1	to bind the	supplier; Kenichi SAITO			
mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
	Prated t load at ture T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Cdh Pdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh C	Prated 10.0 t load at indoor ture T j Pdh 8.9 Cdh 0.99 Pdh 5.4 Cdh 0.98 Pdh 5.2 Cdh 0.98 Pdh 5.2 Cdh 0.98 Pdh 3.2 Cdh 0.95 Pdh 10.0 Pdh 10.0 Tbiv -10 active mode POFF POFF 0.022 PSB 0.022 PSB 0.022 PCK 0.000 Variable LHA LHA 41 / 58 QHE 4480 C - AEC - AEC - AEC -	Prated 10.0 kW t load at indoor ture T j Pdh 8.9 kW Cdh 0.99 - Pdh 5.4 kW Cdh 0.98 - Pdh 5.2 kW Cdh 0.98 - Pdh 5.2 kW Cdh 0.98 - Pdh 5.2 kW Cdh 0.98 - Pdh 10.0 kW Cdh 0.95 - Pdh 10.0 kW Pdh 10.0 kW Pdh 10.0 kW Pdh 10.0 kW Pgh 0.022 kW Pgo 0.022 kW PGK 0.000 kW PGK 0.000 kW PGK 0.000 kW QHE 41 / 58 dBA QHE -	Prated10.0KWL load at indoorKWture T jPdh8.9KWCdh0.99Pdh5.4KWCdhCdh0.98Pdh5.2KWCdhCdh0.98Pdh5.2KWTj = + 7 ° CCdh0.98Pdh3.2KWTj = +12 ° CCdh0.95Pdh10.0KWKWPdh10.0KWTj = operation limit temperaturePdh10.0KWTj = operation limit temperatureHeating water operating limittemperaturePorr0.022KWNupplementary heaterPorr0.022KWPor0.022KWPor0.022KWPor0.022KWPor0.022KWPor0.022KWPor0.000KWPor0.022KWPor0.022KWPor0.000KWhAECLugaAI / 58GBAQelec-KWhAECCKWhAECKWhAECKWhAECKWhAECKWhAECKWhManager, Quality Assua	Prated10.0kWPrated10.0kWt load at indoormergy efficiency7 senergy efficiency7 sPdh8.9kWCdh0.99-Pdh5.4kWCdh0.98-Pdh5.2kWCdh0.98-Pdh3.2kWCdh0.95-Pdh10.0kWCdh0.95-Pdh10.0kWTbiv-10° CTdesignh-10° Cactive modeSuplementary heaterPar0.022kWPar0.022kWPar0.022kWPar0.000kWPar0.022kWPar0.022kWPar0.022kWPar0.000kWPar0.000kWPar0.022kWPar0.022kWPar0.000WurfACTURING TURKEY JOINT STOCK COMPANYManisa OSB 4. Kisim Kecilikoyob Mah. Amet Mazif Zarlu Bulvari Mo:WurfACTURING TURKEY JOINT STOCK COMPANYManisa OSB 4. Kisim Kecilikoyob Mah. Amet Mazif Zarlu Bulvari Mo:NurfACTURING TURKEY JOINT STOCK COMPANYManisa OSB 4. Kisim Kecilikoyob Mah. Amet Mazif Zarlu Bulvari Mo:mate / medium-temperature section.Manager, Quality Assuarance Department	Prated 10.0 KW Prated 10.0 KW Load at indoor Declared coefficiency 7 s 181 Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj Declared coefficiency Tj = -7 ° C COPd 3.10 Pdh 8.9 KW Tj = -7 ° C COPd 4.62 Cdh 0.99 - Tj = + 2 ° C COPd 6.00 Cdh 0.98 - Tj = + 7 ° C COPd 6.00 Cdh 0.98 - Tj = + 12 ° C COPd 6.00 Cdh 0.98 - Tj = + 12 ° C COPd 6.96 Cdh 0.98 - Tj = operation limit temperature COPd 2.49 Toiv -10 * C Operation limit temperature ToL -30 Heating water operating limit WTOL 60 60 active mode 0.022 KW Rated air flow rate, outdoors 2640 Pas 0.022 KW Type of energy input Electrical Pas

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	EHSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	η s	116	%
Declared capacity for heating for part	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 tem	perature Tj	
Tj = - 7 ° C	Pdh	6. 1	kW	Tj = - 7 ° C	COPd	2. 62	-
Degradation co-efficient (**)	Cdh	0. 99	-			<u>_</u>	
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	3.8	kW	Tj = + 7 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	6.88	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.4	kW	Tj = bivalent temperature	COPd	1. 57	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1. 59	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8. 2	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 57	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	2.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	8298	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	_	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS 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 th	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 		•					

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	EHSD-****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:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	149	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary 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	6. 2	kW	Tj = - 7 ° C	COPd	3. 71	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	4. 1	kW	Tj = + 2 ° C	COPd	4. 35	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5.34	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	7. 50	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	8.4	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	7.7	kW	Tj = operation limit temperature (***)	COPd	1.57	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8. 2	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P_{0FF}	0. 022	kW	Rated heat output (*)	Psup	2.3	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	_	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	6508	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	lanisa, Turkey
The identification and signature of th	ne person	empowered	to bind the				
The signature is signed in the average clin	mate / mediu	um-temperatu	re section.	Kenichi SAITO Manager, Quality Assuarance Department TURKEY			
Details and precautions on installation, maintena Details and precautions on recycling and/or displayed and/or displ		•		•			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	EHSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	η s	162	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature T	j
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	10.0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	3. 53	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4. 2	kW	Tj = +12 ° C	COPd	5.75	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = bivalent temperature	Pdh	10. 0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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 _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0. 0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	3246	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre –	Manisa, Turkey
The identification and signature of th	ie person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average cli	nate / mediu	um-temperatu	re section.	Kenichi SATTO Manager, Quality Assuarance Department TURKEY			
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-SHWM100YAA
	Indoor unit:	EHSD-****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:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	η s	232	%
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 ten	nperature T	j
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	_				
Tj = + 2 ° C	Pdh	10. 0	kW	Tj = + 2 ° C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	_				1
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.55	-
Degradation co-efficient (**)	Cdh	0. 98	_			L	1
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.54	-
Degradation co-efficient (**)	Cdh	0.96	_			L	1
Tj = bivalent temperature	Pdh	10.0	kW	Tj = bivalent temperature	COPd	3.50	-
Tj = operation limit temperature (***)	Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	3. 50	-
			J			L	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	1	Supplementary heater		1	
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW			Ļ	ł
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items			11				
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA			L	1
Annual energy consumption	Q _{HE}	2276	kWh				
For heat pump combination heater:		1	· · ·	•			
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh			L	1
Annual electricity consumption	AEC	-	kWh				
Contact details			1 1				
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 -	Manisa, Turkey
The identification and signature of th	ne person	empowered	to bind the				
The signature is signed in the average cli	mata / modiu	m_tomporatu	ura sastion	Kenichi SAITO Manager, Quality Assuarance Department			
	nate / medit	am comperatu		TURKEY			
· Details and precautions on installation, maintena	nce and ass	embly can be	e found in the	installation and or operation manuals.			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	ERSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	η s	137	%
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 te	mperature Tj	
Tj = - 7 ° C	Pdh	8. 9	kW	Tj = - 7 ° C	COPd	2. 19	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 2 ° C	COPd	3. 38	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.8	kW	Tj = + 7 ° C	COPd	4. 62	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	2. 9	kW	Tj = +12 ° C	COPd	6.30	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	10.0	kW	Tj = bivalent temperature	COPd	1.69	-
Tj = operation limit temperature (***)	Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	1.69	-
			-				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°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. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW			•	
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	5891	k₩h				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind th	e supplier: Kenichi SAITO			
百藤建一				Manager, Quality Assuarance Department			
1-1 ridie 134				TURKEY			

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	ERSD-****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:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

	Value	Unit	Item	Symbol	Value	Unit
Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	185	%
load at	indoor			nary energy	ratio for	
ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Pdh	8.9	kW	Tj = − 7 ° C	COPd	3. 10	-
Cdh	0.99	-				
Pdh	5.4	kW	Tj = + 2 ° C	COPd	4. 62	-
Cdh	0. 98	-				
Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6.00	-
Cdh	0. 98	-				
Pdh	3. 2	kW	Tj = +12 ° C	COPd	6.96	-
Cdh	0.95	-				
Pdh	10. 0	kW	Tj = bivalent temperature	COPd	2.49	-
Pdh	10. 0	kW	Tj = operation limit temperature (***)	COPd	2.49	-
Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
P _{T0}	0. 022	kW				
P_{SB}	0. 022	kW	Type of energy input		Electrical	
Рск	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2640	m³/h
L_{WA}	41 / 58	dBA				
Q_{HE}	4399	kWh				
	-		Water heating energy efficiency	η wh	-	%
Qelec	-	kWh				
AEC	-	kWh				
NUFACTURING T	URKEY JOINT ST	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – Ma	anisa, Turkey
e person	empowered t	to bind the				
nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
	I load at ure T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Cdh Pdh Cdh Cdh Pdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh C	I load at indoor ure T j Pdh 8.9 Cdh 0.99 Pdh 5.4 Cdh 0.98 Pdh 5.2 Cdh 0.98 Pdh 3.2 Cdh 0.98 Pdh 3.2 Cdh 0.95 Pdh 10.0 Pdh 10.0 Pdh 10.0 Pdh 10.0 Pdh 10.0 Pdh 0.022 PGK 0.022 P _{SB} 0.022 P _{SB} 0.022 P _{CK} 0.000 Variable L _{WA} 41 / 58 Q _{HE} 4399 	Ioad at indoor ure T j Pdh 8.9 KW Cdh 0.99 Pdh 5.4 KW Cdh 0.98 Pdh 5.2 KW Cdh 0.98 Pdh 5.2 KW Cdh 0.98 Pdh 5.2 KW Cdh 0.98 Pdh 3.2 KW Cdh 0.95 Pdh 10.0 KW Pomoter 0.022 KW Pomoter 0.022 KW Pock 0.000 KW QHE 4399 KWh AEC - KWh KWh	I actual10.0KWenergy efficiencyI load at indoorImage: energy efficiencyDeclared coefficient of performance or print part load at indoor temperature 20 ° C and T j = -7 ° CPdh 8.9 KWT j = -7 ° CCdh 0.99 -T j = +7 ° CPdh 5.4 KWT j = +7 ° CCdh 0.98 -T j = +7 ° CPdh 3.2 KWT j = +12 ° CCdh 0.98 -T j = +12 ° CPdh 3.2 KWT j = operation limit temperaturePdh 10.0 KWT j = operation limit temperature (***)Tbiv -10 ° COperation limit temperatureTosignh -10 ° CSupplementary heaterPorr 0.022 KWRated heat output (*)Porr 0.022 kWType of energy inputPox 0.000 kWType of energy inputPox 0.000 kWhNet heating energy efficiencyVariable-Water heating energy efficiencyUPIcturing TURKEY JOINT STOCK COMPANYManisa OSB 4.Kisim Kecilikoyob Mah. Amet Nazif Zore person empowered to bind the supplier: Kenichi SAITOManager, Quality Assuarance Department	I lacu10.0NVenergyefficiency7/8I load at indoorI load at indoorI load at indoor temperature 20 ° C and outdoor 20 ° C and 0.98 ° - 10 ° C C TdesignhTbiv-10° CTj = +7 ° CCOPdTbiv-10° COperation limit temperature 20 ° C and 0.99 ° C C OPdTj = operation limit temperature 20 ° C COPdTbiv-10° COperation limit temperature 20 ° C COPdTo L Heating water operating limit WTOLactive modeSupplementary heaterSupplementary heaterPerf0.022KWType of energy input-Pass0.022KWType of energy input-Pass0.022KWhWiter heating energy efficiency 7 wh-Qelec-KWhKele air flow rate, outdoorsWater heating energy efficiency 7 wh-Qelec-kWhKele Aisin Keellikoyeb Mah. Amet Mazif Zorlu Bulvar	InductInductInductInductI load at indoorIndoorDeclared coefficient of performance or primary energy ratio forPath8.9KWTj = -7 ° CCoPdPath5.4KWTj = -7 ° CCOPd4.62Odh0.99-Tj = + 2 ° CCOPd6.00Path5.2KWTj = + 7 ° CCOPd6.00Odh0.98-Tj = + 7 ° CCOPd6.00Odh0.98-Tj = +12 ° CCOPd6.96Odh0.98-Tj = operation limit temperatureCOPd2.49Odh0.95-Tj = operation limit temperatureCOPd2.49Tbiv-10° COperation limit temperatureTOL-30Heating water operating limitWTOL60100100aotive modeSupplementry heaterRated heat output (*)Psup0.0Pare0.022KWType of energy inputElectricalPare0.000KWType of energy efficiency η wh-Qelec-KWhWater heating energy efficiency η wh-Qelec-KWhMariaa OSB 4.Kisim Kecilikoyab Mah. Amet Mazif Zorlu Bulvari No:19 Yunuseme - Weperson empowered to bind the supplier:Kenichi SAITOMater / medium-temperature section.Manager, Quality Assuarance Department

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	ERSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η s	117	%
Declared capacity for heating for par	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor tempera	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	6. 1	kW	Tj = - 7 ° C	COPd	2. 62	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	3.8	kW	Tj = + 7 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	6. 88	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8. 4	kW	Tj = bivalent temperature	COPd	1. 57	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1. 59	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8. 2	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.57	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de	-	Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	2.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	8250	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	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
The identification and signature of the second s	he person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / medi	um-temperatu	re section.	Kenichi SATTO Manager, Quality Assuarance Department TURKEY			
 Details and precautions on installation, maintena 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-SHWM100YAA
	Indoor unit:	ERSD-****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:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	150	%
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 tem	nperature Tj	
Tj = - 7 ° C	Pdh	6. 2	kW	Tj = - 7 ° C	COPd	3. 71	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4. 1	kW	Tj = + 2 ° C	COPd	4. 35	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5. 34	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	7. 50	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	8.4	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	7.7	kW	Tj = operation limit temperature (***)	COPd	1.57	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8. 2	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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_{OFF}	0. 022	kW	Rated heat output (*)	Psup	2. 3	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	6459	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING 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 th	ne person	empowered	to bind the				
The signature is signed in the average cli	mate / medi	um-temperatu	re section.	Kenichi SAITO Manager, Quality Assuarance Department TURKEY			
 Details and precautions on installation, maintena 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-SHWM100YAA
	Indoor unit:	ERSD-****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:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Rated heat output (*) Declared capacity for heating for part temperature 20 °C and outdoor temperat	Prated	10. 0	kW	Seasonal space heating			
			NII	energy efficiency	ηs	167	%
temperature 20°C and outdoor temperat	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
Lemperature 20 6 and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature T <u>.</u>	i
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	10. 0	kW	Tj = + 2 ° C	COPd	2.10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	3. 53	-
Degradation co-efficient (**)	Cdh	0. 99	-			L	
Tj = +12 ° C	Pdh	4. 2	kW	Tj = +12 ° C	COPd	5.75	_
Degradation co-efficient (**)	Cdh	0.97	-			L	
Tj = bivalent temperature	Pdh	10. 0	kW	Tj = bivalent temperature	COPd	2.10	-
Tj = operation limit temperature (***)	Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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	
Off mode	P _{0FF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW			4	L
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items			I I				
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
L Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	3149	kWh				
For heat pump combination heater:			4	-			
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh			L	
Annual electricity consumption	AEC	-	kWh				
Contact details			I				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u Bulvari No:	19 Yunusemre - I	Manisa, Turkey
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The eigneture is signed in the everyone elig	mata / madiu		ve eestion	Kenichi SAITO			
The signature is signed in the average clir	male / medil	um-cemperatu	re section.	Manager, Quality Assuarance Department TURKEY			
Details and precautions on installation, maintena	nce and asso	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-SHWM100YAA
	Indoor unit:	ERSD-****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:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

10. 0 ndoor - 10. 0 0. 99 6. 4 0. 98 4. 4 0. 96	kW - kW - kW -	Seasonal space heating energy efficiencyDeclared coefficient of performance or prin part load at indoor temperature 20 ° C and Tj = -7 ° CTj = + 2 ° CTj = +7 ° C	outdoor ter COPd COPd		% - -
- 10. 0 0. 99 6. 4 0. 98 4. 4		Declared coefficient of performance or prin part load at indoor temperature 20 ° C and Tj = - 7 ° C Tj = + 2 ° C	outdoor ter COPd COPd	mperature Tj	-
- 10. 0 0. 99 6. 4 0. 98 4. 4		Tj = -7 °C Tj = +2 °C	COPd COPd	-	-
- 10. 0 0. 99 6. 4 0. 98 4. 4		Tj = + 2 ° C	COPd		-
10. 0 0. 99 6. 4 0. 98 4. 4	-			3. 50	-
0. 99 6. 4 0. 98 4. 4	-			3.50	-
6. 4 0. 98 4. 4	I	Tj = + 7 ° C			
0. 98 4. 4	kW -	Tj = + 7 ° C			
4.4	_	I Contraction of the second	COPd	5. 55	-
0.96	kW	Tj = +12 ° C	COPd	7. 54	-
	-				
10.0	kW	Tj = bivalent temperature	COPd	3. 50	-
10.0	kW	Tj = operation limit temperature (***)	COPd	3. 50	-
	-				
2	°C	Operation limit temperature	TOL	-30	°C
2	°C	Heating water operating limit temperature	WTOL	60	°C
		Supplementary heater			
0. 022	kW	Rated heat output (*)	Psup	0.0	kW
0. 022	kW				
0. 022	kW	Type of energy input		Electrical	
0.000	kW				
variable		Rated air flow rate, outdoors	-	2640	m³/h
41 / 58	dBA				
2179	kWh				
-		Water heating energy efficiency	η wh	-	%
-	kWh				
_	kWh				
		-	lu Bulvari No:	19 Yunusemre – Ma	nisa, Turkey
powered	to bind the				
-temperatu	ire section.	Manager, Quality Assuarance Department			
		TURKEY			
<	variable 41 / 58 2179 - - - EY JOINT S powered temperatu	variable 41 / 58 dBA 2179 kWh - - kWh - kWh kWh EY JOINT STOCK COMPANY powered to bind the temperature section.	rariable Rated air flow rate, outdoors 41 / 58 dBA 2179 kWh - - - kWh EY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zor powered to bind the supplier; Kenichi SAITO temperature section. Manager, Quality Assuarance Department	variable Rated air flow rate, outdoors	rariable Rated air flow rate, outdoors _ 2640 41 / 58 dBA _ _ 2640

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η s	135	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or pri	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	8.9	kW	Tj = − 7 ° C	COPd	2.19	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 2 ° C	COPd	3. 38	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4. 8	kW	Tj = + 7 ° C	COPd	4. 62	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	2. 9	kW	Tj = +12 ° C	COPd	6.30	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	10. 0	kW	Tj = bivalent temperature	COPd	1.69	-
Tj = operation limit temperature (***)	Pdh	10. 0	kW	Tj = operation limit temperature (***)	COPd	1.69	-
			1				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	ode		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	5972	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind th				
百藤健一				Kenichi SAITO			
H HUY DF				Manager, Quality Assuarance Department			
· Details and pressutions on installation maintene			6				

· 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-SHWM100YAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	η s	181	%
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 ter	nperature Tj	
Tj = - 7 ° C	Pdh	8.9	kW	Tj = - 7 ° C	COPd	3. 10	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 2 ° C	COPd	4. 62	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 2	kW	Tj = +12 ° C	COPd	6.96	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	10. 0	kW	Tj = bivalent temperature	COPd	2. 49	-
Tj = operation limit temperature (***)	Pdh	10. 0	kW	Tj = operation limit temperature (***)	COPd	2. 49	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	_	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	4480	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered t	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediı	um-temperatu	re section	Manager, Quality Assuarance Department			
	,			TURKEY			
· Details and precautions on installation, maintena	ince 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-SHWM100YAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	116	%
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 °C and	outdoor ten	nperature Tj	
Tj = - 7 ° C	Pdh	6. 1	kW	Tj = - 7 ° C	COPd	2. 62	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	3.8	kW	Tj = + 7 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	6.88	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = bivalent temperature	Pdh	8.4	kW	Tj = bivalent temperature	COPd	1.57	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1. 59	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8. 2	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.57	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	2. 0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	8298	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				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 cli	mate / medi	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-SHWM100YAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	149	%
Declared capacity for heating for part	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	6. 2	kW	Tj = - 7 ° C	COPd	3. 71	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4. 1	kW	Tj = + 2 ° C	COPd	4. 35	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5.34	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	7.50	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	8. 4	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	7.7	kW	Tj = operation limit temperature (***)	COPd	1.57	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8. 2	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P_{0FF}	0. 022	kW	Rated heat output (*)	Psup	2.3	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	6508	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
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The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Kenichi SAITO Manager, Quality Assuarance Department TURKEY			
 Details and precautions on installation, maintena 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-SHWM100YAA	
	Indoor unit:	EHSD-MED	
Air-to-water heat pump:		yes	
Water-to-water heat pump:		no	
Brine-to-water heat pump:		no	
Low-temperature heat pump:		no	
Equipped with a supplementary heater:		no	
Heat pump combination heater:		no	
Parameters for		medium-temperature application.	
Parameters for		warmer climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	162	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-			L1	
Tj = + 2 ° C	Pdh	10. 0	kW	Tj = + 2 ° C	COPd	2. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	3. 53	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4. 2	kW	Tj = +12 ° C	COPd	5.75	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.0	kW	Tj = bivalent temperature	COPd	2. 10	-
Tj = operation limit temperature (***)	Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	2. 10	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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 _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	$Q_{\rm HE}$	3246	kWh				
For heat pump combination heater:							
Declared load profile		-	-	Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
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	ie 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 ass	embly can be	found in the	installation and or operation manuals.			
· 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-SHWM100YAA
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	232	%
Declared capacity for heating for part	t 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 ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	10. 0	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5. 55	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7. 54	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10. 0	kW	Tj = bivalent temperature	COPd	3. 50	-
Tj = operation limit temperature (***)	Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	3. 50	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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 _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	2276	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT ST	FOCK 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 cli	mate / mediu	ım-temperatu	re section	Kenichi SAITO Manager, Quality Assuarance Department			
		am comperatu		TURKEY			
Details and precautions on installation, maintena	ince and asse	embly can be	found in the				
\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-SHWM100YAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	η s	137	%
Declared capacity for heating for part	t load at	indoor	1	Declared coefficient of performance or pri	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	8.9	kW	Tj = − 7 ° C	COPd	2.19	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 2 ° C	COPd	3. 38	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4. 8	kW	Tj = + 7 ° C	COPd	4. 62	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	2. 9	kW	Tj = +12 ° C	COPd	6.30	-
Degradation co-efficient (**)	Cdh	0. 95	-				
Tj = bivalent temperature	Pdh	10.0	kW	Tj = bivalent temperature	COPd	1.69	-
Tj = operation limit temperature (***)	Pdh	10. 0	kW	Tj = operation limit temperature (***)	COPd	1.69	-
			-				
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de	-	Supplementary heater			
Off mode	P_{OFF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	5891	k₩h				
For heat pump combination heater:							
Declared load profile		_		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – N	lanisa, Turkey
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· 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-SHWM100YAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	185	%
load at	indoor			nary energy	ratio for	
ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Pdh	8.9	kW	Tj = − 7 ° C	COPd	3. 10	-
Cdh	0.99	_				
Pdh	5.4	kW	Tj = + 2 ° C	COPd	4. 62	-
Cdh	0. 98	_				
Pdh	5. 2	kW	Tj = + 7 ° C	COPd	6.00	-
Cdh	0. 98	_				
Pdh	3. 2	kW	Tj = +12 ° C	COPd	6.96	-
Cdh	0.95	_				
Pdh	10. 0	kW	Tj = bivalent temperature	COPd	2. 49	-
Pdh	10. 0	kW	Tj = operation limit temperature (***)	COPd	2. 49	-
		•				
Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
P _{T0}	0. 022	kW				
P_{SB}	0. 022	kW	Type of energy input		Electrical	
Рск	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2640	m³/h
L_{WA}	41 / 58	dBA				
\mathbf{Q}_{HE}	4399	kWh				
	-		Water heating energy efficiency	η wh	-	%
Qelec	-	kWh				
AEC	-	kWh				
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e person	empowered	to bind the				
nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
	Prated Frated Frated Frated Frated Frated Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Cdh Pdh Cdh Cdh Pdh Cdh Cdh Cdh Cdh Cdh Cdh Cdh C	Prated 10.0 Ioad at indoor indoor cure T j Pdh 8.9 Cdh 0.99 Pdh 5.4 Cdh 0.98 Pdh 5.2 Cdh 0.98 Pdh 5.2 Cdh 0.98 Pdh 3.2 Cdh 0.95 Pdh 10.0 Pdh 10.0 Tbiv -10 active mode POFF POFF 0.022 PsB 0.022 PsB 0.022 PcK 0.000 variable L_WA 41 / 58 QHE 4399 - Qelec - AEC - NUFACTURING TURKEY JOINT S in person empowered	Prated 10.0 kW : load at indoor : : Pdh 8.9 kW Cdh 0.99 - Pdh 5.4 kW Cdh 0.98 - Pdh 5.2 kW Cdh 0.98 - Pdh 5.2 kW Cdh 0.98 - Pdh 5.2 kW Cdh 0.98 - Pdh 3.2 kW Cdh 0.95 - Pdh 10.0 kW Pdh 10.0 kW Pdh 10.0 kW Pdh 0.022 kW Pfo 0.022 kW PGK 0.022 kW QHE 4399 kWh </td <td>Prated10.0kWPrated10.0kWi load at indoorenergy efficiencysure T jpath 8.9kWCdh0.99-Pdh5.4kWCdh0.98-Pdh5.2kWCdh0.98-Pdh5.2kWCdh0.98-Pdh3.2kWCdh0.95-Pdh10.0kWTbiv-10° CTbiv-10° CTdesignh-10° Cactive modeSupplementary heaterPorr0.022kWPox0.000kWPox0.000kWVariableRated air flow rate, outdoorsLwa41 / 58dBAQelec-kWhAEC-Where heating energy efficiencyMIFACTURING TURKEY JOINT STOCK COMPANYManager, Quality Assuarance Department</td> <td>Prated10.0kWPrated10.0kWcload at indoorindoorcload at indoorcload at indoor temperature 20 ° C and outdoor 20 ° C and 00 ° C and</td> <td>Prated10.0KWPrated10.0KWCload at indoorenergy efficiencyure T jpart load at indoor temperature 7 jPdh8.9KWCdh0.99-Pdh5.4KWCdh0.98-Pdh5.2KWCdh0.98-Pdh5.2KWCdh0.98-Pdh3.2KWCdh0.98-Pdh3.2KWCdh0.95-Pdh10.0KWPdh10.0KWPdh10.0KWPdh10.0KWPdh10.0KWPdh10.0KWPdr0.022KWPgr0.022KWPgr0.022KWPgr0.022KWPgr0.022KWPgr0.022KWPgr0.022KWPgr0.000KWPgr0.000Pgr0.000KWNEACURING TURKEY JOINT STOCK COMPANYMarisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Na</td>	Prated10.0kWPrated10.0kWi load at indoorenergy efficiencysure T jpath 8.9kWCdh0.99-Pdh5.4kWCdh0.98-Pdh5.2kWCdh0.98-Pdh5.2kWCdh0.98-Pdh3.2kWCdh0.95-Pdh10.0kWTbiv-10° CTbiv-10° CTdesignh-10° Cactive modeSupplementary heaterPorr0.022kWPox0.000kWPox0.000kWVariableRated air flow rate, outdoorsLwa41 / 58dBAQelec-kWhAEC-Where heating energy efficiencyMIFACTURING TURKEY JOINT STOCK COMPANYManager, Quality Assuarance Department	Prated10.0kWPrated10.0kWcload at indoorindoorcload at indoorcload at indoor temperature 20 ° C and outdoor 20 ° C and 00 ° C and	Prated10.0KWPrated10.0KWCload at indoorenergy efficiencyure T jpart load at indoor temperature 7 jPdh8.9KWCdh0.99-Pdh5.4KWCdh0.98-Pdh5.2KWCdh0.98-Pdh5.2KWCdh0.98-Pdh3.2KWCdh0.98-Pdh3.2KWCdh0.95-Pdh10.0KWPdh10.0KWPdh10.0KWPdh10.0KWPdh10.0KWPdh10.0KWPdr0.022KWPgr0.022KWPgr0.022KWPgr0.022KWPgr0.022KWPgr0.022KWPgr0.022KWPgr0.000KWPgr0.000Pgr0.000KWNEACURING TURKEY JOINT STOCK COMPANYMarisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yanuseme - Marisa 058 4.Kisin Keelikoyeb Mah. Amet Na

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	117	%
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	6. 1	kW	Tj = - 7 ° C	COPd	2. 62	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 ° C	Pdh	3.8	kW	Tj = + 7 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	6.88	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.4	kW	Tj = bivalent temperature	COPd	1.57	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.59	-
Tj = -15 ° C (if TOL < -20 ° C)	Pdh	8. 2	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.57	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	2.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8250	kWh				
For heat pump combination heater:				-			
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	ANUFACTURING T	URKEY JOINT S	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind th				
The signature is signed in the average cli	mate / mediu	um-temperatu	re section	Kenichi SAITO Manager, Quality Assuarance Department			
				TURKEY			
Details and precautions on installation, maintena	ance and ass	embly can be	found in the	installation and or energian manuals			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	η s	150	%
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 tem	perature Tj	
Tj = - 7 ° C	Pdh	6. 2	kW	Tj = - 7 ° C	COPd	3. 71	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	4. 1	kW	Tj = + 2 ° C	COPd	4. 35	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	3. 9	kW	Tj = + 7 ° C	COPd	5. 34	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	7. 50	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	8.4	kW	Tj = bivalent temperature	COPd	2. 00	-
Tj = operation limit temperature (***)	Pdh	7.7	kW	Tj = operation limit temperature (***)	COPd	1. 57	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8. 2	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P_{OFF}	0. 022	kW	Rated heat output (*)	Psup	2. 3	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	$Q_{\rm HE}$	6459	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	_	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	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	ince 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.			

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA	
	Indoor unit:	ERSD-MED	
Air-to-water heat pump:		yes	
Water-to-water heat pump:		no	
Brine-to-water heat pump:		no	
Low-temperature heat pump:		no	
Equipped with a supplementary heater:		no	
Heat pump combination heater:		no	
Parameters for		medium-temperature application.	
Parameters for		warmer climate conditions.	

kW - kW - kW - kW kW kW	Seasonal space heating energy efficiencyDeclared coefficient of performance or prin part load at indoor temperature 20 ° C and Tj = -7 ° CTj = + 2 ° CTj = +7 ° CTj = +12 ° CTj = +12 ° CTj = bivalent temperature			% - -
- kW - kW - kW	Declared coefficient of performance or prin part load at indoor temperature 20 ° C and Tj = - 7 ° C Tj = + 2 ° C Tj = + 7 ° C Tj = +12 ° C	outdoor ter COPd COPd COPd	Imperature Tj	-
- kW - kW - kW	Tj = -7 ° C Tj = +2 ° C Tj = +7 ° C Tj = +12 ° C	COPd COPd COPd	 2. 10 3. 53	-
- kW - kW - kW	Tj = + 2 ° C Tj = + 7 ° C Tj = +12 ° C	COPd COPd	2. 10	-
- kW - kW - kW	Tj = + 7 ° C Tj = +12 ° C	COPd	3. 53	-
- kW - kW - kW	Tj = + 7 ° C Tj = +12 ° C	COPd	3. 53	-
kW - kW - kW	Tj = +12 ° C			-
- kW - kW	Tj = +12 ° C			-
- kW		COPd	5. 75	
- kW		COPd	5. 75	
	Tj = bivalent temperature			-
	Tj = bivalent temperature			
kW		COPd	2. 10	-
	Tj = operation limit temperature (***)	COPd	2. 10	-
°C	Operation limit temperature	TOL	-30	°C
°C	Heating water operating limit temperature	WTOL	60	°C
1	Supplementary heater		II	
kW	Rated heat output (*)	Psup	0. 0	kW
kW				
kW	Type of energy input		Electrical	
kW				
	Rated air flow rate, outdoors	-	2640	m³/h
dBA				
kWh				
	Water heating energy efficiency	η wh	_	%
kWh				
kWh				
TOCK COMPANY		lu Bulvari No:	19 Yunusemre - Ma	nisa, Turkey
to bind the				
nre section.	Manager, Quality Assuarance Department			
	kW dBA kWh kWh TOCK COMPANY to bind the	kW Rated air flow rate, outdoors dBA kWh kWh Water heating energy efficiency kWh KWh COCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zor to bind the supplier; Kenichi SAITO	kW Rated air flow rate, outdoors dBA kWh kWh Water heating energy efficiency η wh kWh KWh kWh KWh kWh Kater heating energy efficiency η wh kWh KWh kWh Kanisa 0SB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No: to bind the supplier; Kenichi SAITO Kenichi SAITO Manager, Quality Assuarance Department	kW Rated air flow rate, outdoors

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	ERSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10. 0	kW	Seasonal space heating energy efficiency	ηs	242	%
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	ure Tj			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	10. 0	kW	Tj = + 2 ° C	COPd	3. 50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5. 55	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7. 54	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10. 0	kW	Tj = bivalent temperature	COPd	3. 50	-
Tj = operation limit temperature (***)	Pdh	10. 0	kW	Tj = operation limit temperature (***)	COPd	3. 50	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	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 _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	2179	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	η wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
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