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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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Construction         Construction<	de nominale warmteafgifte(onder gemiddelde klimaat	Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden)	elle nytteeffekt(under gennemsnitlige klimafo
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Sector         Sector<	skimääräisissä ilmasto-olosuhteissa)	roční spotřeba energie za průměrných klima	отопление, годишното потребление на енергия(при средни климатични условия)
Numery of weight weig	annual electricity consumption under average climate conditions	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	ur le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions natiques moyennes)
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NetworkAnd service of a service	de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder	medelverkningsgrad för rumsuppvärmning(vid genomsnittliga klimatförhållar	es) ved rumopvarmning(under gennemsnitlige klimaforhold)
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Citery and with a binary balance from an under the second of the seco	Rated heat output under colder climate conditions 15 Ide nominale warmteafgifte, onder koudere klimaatomstandigheden	die Wärmenennleistung bei kälteren Klimaverhältnissen Nominell avgiven värmeeffekt vid kallare klimatförhållanden	la puissance thermique nominale, dans les conditions climatiques plus froides den nominelle nytteeffekt under koldere klimaforhold
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converte converte converte supercharance superchara	· · · · · · · · · · · · · · · · · · ·		plus froides
Instrume         Instrum         Instrume         Instrume	voor runnieverwanning, net jaariijkse energieverbruik onber klimaatomstandigheden		aer suide eireidiioi nind midei kondere viimaionnoid
For proor handly, a mult energy consumption under warmer dinate conditions         End of a family and under grant dinate conditions	tilalämmityksestä vuotuinen energiankulutus kylmissä ilmasto-olosuhteissa		эние, годишното потребление на енергия при по-студени климатични услови
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Non-vene-venering: het jaarlike eelkrichekverbrak onder kondere         Instance	For water heating, annual energy consumption under colder climate conditions	Warmwasserbereitung, der jährliche	e l'eau, la consommation annuelle d'électricité, dans les conditions
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Name         Instant         I	nergy consumption under warmer climate	rmwasserbereitung, der jährliche Stromverbrauch bei wärmeren	ни условия ни условия chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions
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wdenilimmitykastä wuluinen sähkörikuluus lämpinisal innasto-olsuhteisapro ohiev vody - notri spotfeba elektride energie za teplejäch kimalickych podminekan narpmaene ne spat, namunoro norpeforeme energiene on podraze nergiene on podraze neregiene on po	voor waterverwarming, net jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	huppvarmning, arlig eltorbrukning under varma	vandopvarmning det arlige elfororug under varmere klimatorhold
Seasonal space hading energy efficiency under coder climate conditions         de jahreszeibednege Effizientis voor ruintevervarming onder koudere         Bisangsmedie/koude         Ferdige effizientis voor ruintevervarming onder koudere         Ferdige effizientis voor ruintevervarming onder koudere konder koudere koud	vedenlämmityksestä vuotuinen sähkönkulutus lämpimissä ilmasto-olosuhteissa	ohřev vody – roční spotřeba elektrické energie za teplejších klimatických podmír	зане на вода, годишното потребление на електроенергия при по-топли клим повия
Geschenzigsborden erergierficiente voor uninterververming onder koudere         Sisongsmedelverkningsgreid for rumsupprämming under kalare klimatichallanden         Ensistentingsgreiden verzinzengeletentik         All ficiencia erergietentik         All ficiencia ererergietentik         All ficiencia erergietent	Seasonal space heating energy efficiency under colder climate conditions	dingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnis:	énergétique saisonnière pour le chauffage des locaux, dans les conditions
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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 klimaatomstandigheden         Energiefektivitet vid vattenuppvärmning under varmare klimatforhållanden         energieficktiviteten ved vandopvarmning under varmere klimatorhold         a eficiencia energietica do s           vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa         Energieficktivitet vid vattenuppvärmning under varmare klimatforhållanden         energieficktiviteten ved vandopvarmning under varmere klimatorhold         eerergieficktiviteten ved vandopvarmning under varmere klimat	Water heating energy efficiency under colder climate conditions	ass	pour le chauffage de l'eau, dans les conditions clim
Verdenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa         energieticki učinnost ohfevu vody za chladnějšich klimatických podminek         energieticki vod vantovenou cover vantovenou covervantovane vantovenou cover vantovenou cover vantovenou cover v			teten ved vandonvarmning under koldere klimaforhold
Water heating energy efficiency under warmer climate conditions         die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen         Pafficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         Pafficienza energetica di ris           Vater heating energy efficiency under warmer climate conditions         die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen         Pafficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus         Pafficienza energetica di ris           de energie-efficientie voor waterverwarming onder warmere klimaato-olosubtiessa         Energieffektivitet vid vartenuppvärmning under varmare klimatförhållanden         energiefektiviteten ved vandopvarmning under varmere klimatorhold         a eficiência energética do i           vedenlämmit/ksen energiatehokkuus lämpimissä ilmasto-olosubteissa         energetická účinnost ohřevu vody za teplejších klimatičkých podmínek         energiefektiviteten ved vandopvarmning under varmere kapa npu no-ronnu knuwaruv+uv ycnoeux         efektywność energetyczna           Sound power level L <sub>WA</sub> outdoor         der Schallleistungspegel L <sub>WA</sub> im Freien         le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur         il ivello di poterza sonora           Net gluidsvermogensniveau L <sub>WA</sub> bulten         Ljudefektrivián L <sub>WA</sub> i 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 <sub>WA</sub> outdoor der Schallleistungspegel L <sub>WA</sub> im Freien energienstiveau L <sub>WA</sub> butlen ka textérieur Integluidsvernogenstriveau L <sub>WA</sub> butlen L_WA butlen L_WA i l'extérieur	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	chauffage de l'eau, dans le
vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa energetická účinnost ohřevu vody za teplejšich klimatických podmínek енергийната ефективност при подгряване на вода при по-топли климатични условия Sound power level L <sub>WA</sub> outdoor Sound power level L <sub>WA</sub> outdoor Inet goludisvermogenstriveau L <sub>WA</sub> bullen L_WA i l'extérieur Inet goludisvermogenstriveau L <sub>WA</sub> bullen L_WA i l'extérieur	de eneraie-	opvärmn	
Image: Sound power level L <sub>WA</sub> outdoor     der Schallteistungspegel L <sub>WA</sub> im Freien     le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur       Sound power level L <sub>WA</sub> outdoor     Ljudeffektnivân L <sub>WA</sub> i utomhus     lydeffektnivân L <sub>WA</sub> i utomhus	vedenlämmi	vody za	ефективност при подгряване на вода при по-топли климатични
het geluidsvermogensniveau L <sub>WA</sub> buiten L <sub>WA</sub> i ude Ljudeffektnivån L <sub>WA</sub> i utomhus			-
		ien	acoustique L WA à l'extérieur

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

Model(s):	Outdoor unit:	PUZ-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	141	%
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	12. 4	kW	Tj = − 7 ° C	COPd	2. 18	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3. 49	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 7 ° C	Pdh	6.3	kW	Tj = + 7 ° C	COPd	4.85	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.9	kW	Tj = +12 ° C	COPd	6. 61	-
Degradation co-efficient (**)	Cdh	0.96	_				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1. 92	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
			_				
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	$P_{OFF}$	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	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	$Q_{HE}$	8055	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ 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 th	e supplier: Kenichi SAITO			
育藤健-				Manager, Quality Assuarance Department			
M Mar Dr				TURKEY			
			6 I	installation and an annation meaning			

· 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-SHWM140YAA
	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.

						Value	Unit
Rated heat output (*)	Prated	14. 0	kW	Seasonal space heating energy efficiency	ηs	182	%
Declared capacity for heating for par	t load at	indoor	•	Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor tempera	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = - 7 ° C	Pdh	12. 4	kW	Tj = − 7 ° C	COPd	3.00	-
Degradation co-efficient (**)	Cdh	1.00	_				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.1	kW	Tj = +12 ° C	COPd	7. 19	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	2. 55	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	2. 55	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	$P_{SB}$	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	$L_{WA}$	41 / 58	dBA				
Annual energy consumption	$Q_{HE}$	6262	k₩h				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ wh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	k₩h				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS M				Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of t	ne person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average cl	imate / mediu	um-temperatu	ire section.	Manager, Quality Assuarance Department			
				TURKEY			
<ul> <li>Details and precautions on installation, mainten</li> <li>Details and precautions on recycling and/or dis</li> </ul>							

· 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-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	115	%
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	ture Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	8.5	kW	Tj = - 7 ° C	COPd	2. 63	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3. 49	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4. 2	kW	Tj = + 7 ° C	COPd	4. 40	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 2	kW	Tj = +12 ° C	COPd	6. 92	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	1. 53	-
Tj = operation limit temperature (***)	Pdh	10. 7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 52	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	3. 3	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	P <sub>SB</sub>	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$Q_{HE}$	11674	kWh				
For heat pump combination heater:				-			
Declared load profile		_		Water heating energy efficiency	$\eta$ 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 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 asse	embly can be	found in the	installation and or operation manuals.			
Details and precautions on recycling and/or disp     (t) For both summer and summ		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-SHWM140YAA
	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	14.0	kW	Seasonal space heating energy efficiency	η s	153	%
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	8. 3	kW	Tj = - 7 ° C	COPd	3. 65	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 6	kW	Tj = + 7 ° C	COPd	5. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 3	kW	Tj = +12 ° C	COPd	8.80	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	2. 03	-
Tj = operation limit temperature (***)	Pdh	10. 7	kW	Tj = operation limit temperature (***)	COPd	1. 79	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	$P_{0FF}$	0. 022	kW	Rated heat output (*)	Psup	3. 3	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	P <sub>SB</sub>	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	8865	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ 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 the				
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Kenichi SAITO Manager, Quality Assuarance Department TURKEY			
<ul> <li>Details and precautions on installation, maintena</li> <li>Details and precautions on recycling and/or dis</li> </ul>		•					

(\*) 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-SHWM140YAA
	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.

Prated	14.0		Seasonal space heating			
		kW	energy efficiency	ηs	154	%
oad at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
e Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	14. 0	kW	Tj = + 2 ° C	COPd	2.00	-
Cdh	1.00	-				
Pdh	8. 8	kW	Tj = + 7 ° C	COPd	3. 27	-
Cdh	0.99	-				
Pdh	5.5	kW	Tj = +12 ° C	COPd	5. 50	-
Cdh	0. 98	-				
Pdh	14. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
designh	2	°C	Heating water operating limit temperature	WTOL	60	°C
ctive mo	de		Supplementary heater			
P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0. 022	kW				
$P_{SB}$	0. 022	kW	Type of energy input		Electrical	
P <sub>CK</sub>	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2640	m³/h
$L_{WA}$	41 / 58	dBA				
$\mathbf{Q}_{HE}$	4757	kWh				
	_		Water heating energy efficiency	$\eta$ wh	_	%
Qelec	-	kWh				
AEC	-	kWh				
				u Bulvari No:1	19 Yunusemre - Ma	anisa, Turkey
person	empowered t	o bind the				
e / mediu	m-temperatu	re section.	Kenichi SATU Manager, Quality Assuarance Department TURKEY			
	Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh H H Ibiv lesignh tive moo Porf PTO PSB PCK PTO PSB PCK CURING TO PCK CTURING TO PERSON	Cdh       -         Pdh       14.0         Cdh       1.00         Pdh       8.8         Cdh       0.99         Pdh       5.5         Cdh       0.98         Pdh       14.0         Pdh       0.022         PorF       0.022         PorF       0.022         PcK       0.000         variable         LmA       41 / 58         QHE       4757         -         Qelec       -         AEC       -         person       empowered       t         and assembly can be       can be	Cdh         -         -           Pdh         14.0         kW           Cdh         1.00         -           Pdh         8.8         kW           Cdh         0.99         -           Pdh         5.5         kW           Cdh         0.98         -           Pdh         14.0         kW           Cdh         0.98         -           Pdh         14.0         kW           Pdh         14.0         kW           Pdh         14.0         kW           Pdh         0.92         c           tive mode         -         -           PorF         0.022         kW           PGK         0.000         kW           Variable         -         -           LmA         41 / 58         dBA           QHE         4757         kWh           AEC         -         kWh           AEC         -         kWh           AEC         -         bind           A         -         bind         the	CdhPdh14.0kWCdh1.00-Pdh8.8kWCdh0.99-Pdh5.5kWCdh0.98-Pdh14.0kWPdh14.0kWPdh14.0kWPdh14.0kWTbiv2° CCdh0.98-Pdh14.0kWTbiv2° CDeration limit temperatureHeating water operating limittive modeSuplementary heaterPorr0.022kWPox0.000kWVariableRated air flow rate, outdoorsLmA41 / 58dBAQHE-kWhACC-CTURING TURKEY JOINT STOCK COMPANYManisa QSB 4. Kisim Kecilikoyosh Mah. Atmet Nazif Zorperson empowered to bind the supplier:Kenichi SAITOwanager, Quality Assuarance Department	CdhPdh14.0KWCdh1.00Pdh8.8KWTj = + 7° CCdh0.99Pdh5.5KWTj = +12Pdh5.5KWTj = bivalent temperatureCdh0.98Pdh14.0KWKWPdh14.0KWTj = operation limit temperature (****)COPdTbiv2° CUpplementary heaterPorf0.022KWPas0.022KWPorO.022KWPorQuezVariableCurlingRated air flow rate, outdoors-VariableCurling TURKEY JOINT STOCK COMPANYManisa QSB 4.Kisim Kecilikoyob Mah. Almet Nazif Zorlu Bulvari No:person empowered to bind the supplier: Kenichi SAITOCurling TURKEY JOINT STOCK COMPANYManager, Quality Assuarance Department TURKEYand assembly can be found in the installation and or operation manuals.	CdhPdh14.0KWTj = + 2 ° CCOPd2.00Cdh1.00Pdh8.8KWTj = + 7 ° CCOPd3.27Cdh0.99Pdh5.5KWTj = + 12 ° CCOPd5.50Cdh0.98Pdh14.0KWTj = bivalent temperatureCOPd2.00Pdh14.0KWTj = operation limit temperature (***)COPd2.00Tbiv2° COperation limit temperature is wround in temperatureTOL-30Heating water operating limitWTOL60-60Supplementary heaterPore0.022KWType of energy inputElectricalPor0.022KWType of energy inputElectrical-Pox0.000kWWType of energy inputElectricalCTURING TURKEY JOINT STOCK COMPANYManise 068 4.Kisim Kecilikoyosh Mah. Amet Nazif Zorlu Bulvari No:19 Yunuseme - NPorson empowered to bind the supplier: Kenichi SAITO c / medium-temperature section.Manise 068 4.Kisim Kecilikoyosh Mah. Amet Nazif Zorlu Bulvari No:19 Yunuseme - NCTURING TURKEY JOINT STOCK COMPANYManise 068 4.Kisim Kecilikoyosh Mah. Amet Nazif Zorlu Bulvari No:19 Yunuseme - Nperson empowered to bind the supplier: Kenichi SAITO c / medium-temperature section.Manage, Quality Assuarance Department TURKEYand 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-SHWM140YAA
	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.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	14. 0	kW	Seasonal space heating energy efficiency	ηs	222	%
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	14. 0	kW	Tj = + 2 ° C	COPd	3. 24	-
Cdh	1.00	-				
Pdh	9.0	kW	Tj = + 7 ° C	COPd	5. 15	-
Cdh	0.99	-				
Pdh	5.1	kW	Tj = +12 ° C	COPd	7. 18	-
Cdh	0.97	-				
Pdh	14.0	kW	Tj = bivalent temperature	COPd	3. 24	-
Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3. 24	-
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0. 022	kW				
$P_{SB}$	0. 022	kW	Type of energy input		Electrical	
Рск	0.000	kW				
			<u>.</u>			
	variable		Rated air flow rate, outdoors	-	2640	m³/h
$L_{WA}$	41 / 58	dBA				
$Q_{HE}$	3319	kWh				
			•			
	-		Water heating energy efficiency	$\eta$ wh	-	%
Qelec	-	kWh				
AEC	-	kWh				
NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – N	lanisa, Turkey
e person	empowered	to bind the				
nate / mediu	ım-temperatu	re section.	Kenichi SAITO Manager, Quality Assuarance Department TURKEY			
	load at ure T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Tbiv Tdesignh active mo PorF Pto PcK Pto PcK Qelec AEC	load at indoor           ure T j           Pdh         -           Cdh         -           Pdh         14.0           Cdh         9.0           Cdh         9.0           Cdh         0.02           Pdh         14.0           Cdh         0.99           Pdh         5.1           Cdh         0.97           Pdh         14.0           Pdh         14.0           Pdh         14.0           Pdh         0.022           Path         2           active mode         0.022           P <sub>SB</sub> 0.022           P <sub>SB</sub> 0.022           P <sub>CK</sub> 0.000           Variable           L <sub>MA</sub> 41 / 58           Q <sub>HE</sub> 3319           -           Qelec         -           AEC         -           AEC         -	load at indoor           ure T j           Pdh         -           Pdh         -           Pdh         14.0           KW           Cdh         -           Pdh         14.0           KW           Cdh         0.0           Pdh         9.0           KW           Cdh         0.99           Pdh         5.1           KW           Cdh         0.97           Pdh         14.0           KW           Cdh         0.97           Pdh         14.0           KW           Pdh         14.0           KW         KW           Porr         0.022           RW         0.022           KW         KW           Por         0.000           KW         KWh           QHE         3319           KWh </td <td>Prated14.0KWenergy efficiencyload at indoorImage: constraint of performance or prinure T j-KWPdh-KWCdhPdh14.0KWCdhPdh14.0KWCdh0.99-Pdh5.1KWCdh0.99-Pdh5.1KWCdh0.97-Pdh14.0KWPdh14.0KWPdh14.0KWPdh14.0KWPdh14.0KWPdh2° CTbiv2° CToiv2° Cactive modeSupplementary heaterPorr0.022kWPro0.022kWPox0.000kWVariableRated air flow rate, outdoorsLwA41 / 58dBAQHec-kWhAEC-What heating energy efficiencyWeat heating energy efficiencyWater heating energy efficiencyWater heating energy efficiencyImage: constraint of the supplier:Kenchi SAITOManager, Quality Assuarance Department</td> <td>Prateu14.0KWenergyefficiency1/3Ioad at indoorIoad at indoorIoad at indoor temperature 20 ° C and outdoor 20 ° C and 000 ° C ° C ° C ° C ° C ° C ° C ° C ° C</td> <td>Index at indoorIndex at indoorIndex at indoorIndex at indoorIndex at indoorIndex at indoorIndex at indoorImpart load at indoor temperature 20 ° C and outdoor temperature TjPdh<math>-</math>COPdPdh14.0KWTj = -7 ° CCOPd3.24Cdh<math>-</math>Pdh9.0KWTj = +7 ° CCOPd5.15Cdh0.99Pdh5.1KWTj = +12 ° CCOPd3.24Cdh0.97Pdh14.0KWTj = operation limit temperatureCOPd3.24Tbiv2° COperation limit temperatureCOL-30Heating water operating limitWTOL603.24Tbiv2° COperation limit temperatureTOL-30Heating water operating limitWTOL605060active modeSupplementry heaterRated heat output (*)Pup0.0Par0.022KWType of energy inputElectricalPar0.022KWType of energy efficiency<math>7</math> wh-Qelec-KWhMaria 0SB 4. Kisin Keelikeyeb Mah. Amet Nacif Zorlu Bulvari No:19 Yunuseme - WQelec-kWhKenchi SAITOMEACTURING TURKEY JOINT STOCK COMPANYManiae OSB 4. Kisin Keelikeyeb Mah. Amet</td>	Prated14.0KWenergy efficiencyload at indoorImage: constraint of performance or prinure T j-KWPdh-KWCdhPdh14.0KWCdhPdh14.0KWCdh0.99-Pdh5.1KWCdh0.99-Pdh5.1KWCdh0.97-Pdh14.0KWPdh14.0KWPdh14.0KWPdh14.0KWPdh14.0KWPdh2° CTbiv2° CToiv2° Cactive modeSupplementary heaterPorr0.022kWPro0.022kWPox0.000kWVariableRated air flow rate, outdoorsLwA41 / 58dBAQHec-kWhAEC-What heating energy efficiencyWeat heating energy efficiencyWater heating energy efficiencyWater heating energy efficiencyImage: constraint of the supplier:Kenchi SAITOManager, Quality Assuarance Department	Prateu14.0KWenergyefficiency1/3Ioad at indoorIoad at indoorIoad at indoor temperature 20 ° C and outdoor 20 ° C and 000 ° C ° C ° C ° C ° C ° C ° C ° C ° C	Index at indoorIndex at indoorIndex at indoorIndex at indoorIndex at indoorIndex at indoorIndex at indoorImpart load at indoor temperature 20 ° C and outdoor temperature TjPdh $-$ COPdPdh14.0KWTj = -7 ° CCOPd3.24Cdh $-$ Pdh9.0KWTj = +7 ° CCOPd5.15Cdh0.99Pdh5.1KWTj = +12 ° CCOPd3.24Cdh0.97Pdh14.0KWTj = operation limit temperatureCOPd3.24Tbiv2° COperation limit temperatureCOL-30Heating water operating limitWTOL603.24Tbiv2° COperation limit temperatureTOL-30Heating water operating limitWTOL605060active modeSupplementry heaterRated heat output (*)Pup0.0Par0.022KWType of energy inputElectricalPar0.022KWType of energy efficiency $7$ wh-Qelec-KWhMaria 0SB 4. Kisin Keelikeyeb Mah. Amet Nacif Zorlu Bulvari No:19 Yunuseme - WQelec-kWhKenchi SAITOMEACTURING TURKEY JOINT STOCK COMPANYManiae OSB 4. Kisin Keelikeyeb Mah. Amet

· 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-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	142	%
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	12. 4	kW	Tj = - 7 ° C	COPd	2. 18	-
Degradation co-efficient (**)	Cdh	1.00	-			<u></u>	
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3. 49	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	6.3	kW	Tj = + 7 ° C	COPd	4. 85	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.9	kW	Tj = +12 ° C	COPd	6. 61	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
			-				
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 <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	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	$Q_{HE}$	7974	k₩h				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ 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			
百藤正一				Manager, Quality Assuarance Department			
				TURKEY			

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

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

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

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-SHWM140YAA
	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.

			Item	Symbol	Value	Unit
Prated	14. 0	kW	Seasonal space heating energy efficiency	ηs	184	%
load at	indoor			nary energy	ratio for	
ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Pdh	12. 4	kW	Tj = − 7 ° C	COPd	3.00	-
Cdh	1.00	-				
Pdh	7.5	kW	Tj = + 2 ° C	COPd	4. 59	-
Cdh	0. 99	-				
Pdh	6.4	kW	Tj = + 7 ° C	COPd	6.00	-
Cdh	0. 98	-			. <u></u>	
Pdh	4. 1	kW	Tj = +12 ° C	COPd	7. 19	-
Cdh	0.96	-				
Pdh	14. 0	kW	Tj = bivalent temperature	COPd	2. 55	-
Pdh	14. 0	kW	Tj = operation limit temperature (***)	COPd	2. 55	-
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 <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	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				
$Q_{HE}$	6181	kWh				
	-		Water heating energy efficiency	$\eta$ 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 – M	anisa, Turkey
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nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
	load at ure T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Tbiv Tbiv Tdesignh active mo PorF Pro PSB PCK Curra Pro PSB PCK Qelec AEC	load at indoor           ure T j           Pdh         12.4           Cdh         1.00           Pdh         7.5           Cdh         0.99           Pdh         6.4           Cdh         0.98           Pdh         4.1           Cdh         0.98           Pdh         4.1           Cdh         0.98           Pdh         4.1           Cdh         0.98           Pdh         4.1           Cdh         0.98           Pdh         14.0           Pdh         14.0           Pdh         0.022           Porff         0.022           Porg         0.022           PosB         0.022           PocK         0.000           variable           L_WA         41 / 58           QHE         6181           -           Qelec         -           AEC         -           Qelec         -           Qerson         enpowered	load at indoor           ure T j           Pdh         12.4           KW           Cdh         1.00           Pdh         7.5           KW           Cdh         0.99           Pdh         6.4           KW           Cdh         0.98           Pdh         4.1           KW           Cdh         0.96           Pdh         14.0           KW           Pdh         14.0           KW         KW           Qife         0.022           KW         KW           PGK         0.022           Variable         KW           QHE         6181           KWh           <	Prated14.0KWenergy efficiencyIoad at indoorIoad at indoorure T jDeclared coefficient of performance or prinPdh12.4KWCdh1.00-Pdh7.5KWCdh0.99-Pdh6.4KWCdh0.98-Pdh4.1KWCdh0.96-Pdh14.0KWPdh14.0KWPdh14.0KWTbiv-10° CTbiv-10° CTotivmodePorf0.022kWPorf0.022kWPox0.000kWVariableRated air flow rate, outdoorsVariable-Variable-Variable-Water heating energy efficiencyOperation series (Supplementary baseVariable-Variable-Water heating energy efficiencyOperation series (Supplementary baseVariable-Water heating energy efficiencyOperation series (Supplementary baseOperation series (Supplementary baseOperation series (Supplementary baseOperation series (Supplementary basePorf0.022KWNaOperation series (Supplementary baseVariableUFACTURING TURKEY JOINT STOCK COMPANYManisa OSS 4.Kisim Kecilikoyosh Mah. Amet Nazif Zore person empowered to bind the suppl	Prateu14.0KWenergyefficiency1/3Ioad at indoorIoad at indoorIoad at indoorIoad at indoor temperature 20 ° C and outdoor 20 ° C and outdoor 20 ° C outdoor 20 ° C and outdoor 20 ° C and outdoor 20 ° C outdoo	Pricture11.0NMenergy efficiency $\eta$ is104load at indoorDeclared coefficient of performance or primary energy ratio forPdh12.4KWDeclared coefficient of performance or primary energy ratio forPdh12.4KWTj = -7 ° CCOPdCdh1.00-Pdh7.5KWTj = +7 ° CCOPdCdh0.99Pdh6.4KWTj = +7 ° CCOPdCdh0.98Pdh4.1KWTj = +12 ° CCOPdCdh0.96Pdh14.0KWTj = peration limit temperatureCOPdCdh0.96Pdh14.0KWTj = operation limit temperatureCOPdCdh0.96Pdh14.0KWTj = operation limit temperatureCOPdCdh0.96Tbiv-10° COperation limit temperatureTOLToisignh-10° CSuplematary heaterSuplematary materPare0.022KWType of energy inputElectricalPas0.022KWType of energy efficiency $\eta$ wh-Qelec-KWhMater heating energy efficiency $\eta$ wh-Qelec-kWhMater heating energy efficiency $\eta$ wh-Qelec-kWhMater heating energy efficie

· 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-SHWM140YAA
	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	14. 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	8.5	kW	Tj = - 7 ° C	COPd	2. 63	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3. 49	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4. 2	kW	Tj = + 7 ° C	COPd	4. 40	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 2	kW	Tj = +12 ° C	COPd	6. 92	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	1. 53	-
Tj = operation limit temperature (***)	Pdh	10. 7	kW	Tj = operation limit temperature (***)	COPd	1. 55	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 52	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0.022	kW	Rated heat output (*)	Psup	3. 3	kW
Thermostat-off mode	P <sub>T0</sub>	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 <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$Q_{HE}$	11625	kWh				
For heat pump combination heater:				-			
Declared load profile		-		Water heating energy efficiency	$\eta$ 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 the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
	,edit			TURKEY			
· Details and precautions on installation, maintena	ince and asse	embly can be	found in the	installation and or operation manuals.			
Details and precautions on recycling and/or disp     (t) For both summer and summ		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-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	154	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	8.3	kW	Tj = - 7 ° C	COPd	3. 65	-
Degradation co-efficient (**)	Cdh	0.99	-			<u>_</u>	
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0. 98	-			<u>_</u>	
Tj = + 7 ° C	Pdh	4.6	kW	Tj = + 7 ° C	COPd	5. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.3	kW	Tj = +12 ° C	COPd	8.80	-
Degradation co-efficient (**)	Cdh	0.96	-			<u>_</u>	
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	2. 03	-
Tj = operation limit temperature (***)	Pdh	10. 7	kW	Tj = operation limit temperature (***)	COPd	1. 79	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	3. 3	kW
Thermostat-off mode	P <sub>T0</sub>	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 <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	8816	k₩h				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ 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 1	to bind the				
The signature is signed in the average cli	nate / mediu	ım-temperatu	re section	Kenichi SAITO Manager, Quality Assuarance Department			
				TURKEY			
· Details and precautions on installation, maintena	nce and ass	embly can be	found in the				
$\cdot$ Details and precautions on recycling and/or disp	oosal at end-		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-SHWM140YAA
	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.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14. 0	kW	Seasonal space heating energy efficiency	ηs	158	%
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	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	14. 0	kW	Tj = + 2 ° C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	8.8	kW	Tj = + 7 ° C	COPd	3. 27	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	5.5	kW	Tj = +12 ° C	COPd	5.50	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	14. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	14. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>OFF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	P <sub>SB</sub>	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	4659	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ 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 – I	Manisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
Details and precautions on installation, maintena     Details and precautions on recycling and/or dis	ince and ass	embly can be	e found in the	TURKEY 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-SHWM140YAA
	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.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	14. 0	kW	Seasonal space heating energy efficiency	ηs	229	%
load at	indoor	<u> </u>		nary energy	ratio for	
ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	14.0	kW	Tj = + 2 ° C	COPd	3. 24	-
Cdh	1.00	-				
Pdh	9.0	kW	Tj = + 7 ° C	COPd	5. 15	-
Cdh	0. 99	-				
Pdh	5. 1	kW	Tj = +12 ° C	COPd	7. 18	-
Cdh	0.97	-				
Pdh	14. 0	kW	Tj = bivalent temperature	COPd	3. 24	-
Pdh	14. 0	kW	Tj = operation limit temperature (***)	COPd	3. 24	-
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de	I	Supplementary heater		11	
P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
P <sub>T0</sub>	0. 022	kW			• •	
P <sub>SB</sub>	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				
$Q_{HE}$	3222	kWh				
	-		Water heating energy efficiency	$\eta$ wh	-	%
Qelec	-	k₩h				
AEC	-	k₩h				
				u Bulvari No:	19 Yunusemre - M	anisa, Turkey
e person	empowered	to bind the				
nate / mediu	um-temperatu	re section.	Kenichi SATU Manager, Quality Assuarance Department TURKEY			
	I load at cure T j Pdh Cdh PorF Ch Cdh PorF Ch Cdh PorF Ch Ch Ch Ch Ch Ch Ch Ch Ch Ch	E load at indoor Fure T j Pdh - Cdh - Pdh 14.0 Cdh 1.00 Pdh 9.0 Cdh 0.99 Pdh 5.1 Cdh 0.97 Pdh 14.0 Pdh 14.0 Pdh 14.0 Pdh 14.0 Pdh 14.0 Pdh 2. Toiv 2 Tdesignh 2 active mode P <sub>0FF</sub> 0.022 P <sub>T0</sub> 0.022 P <sub>T0</sub> 0.022 P <sub>S8</sub> 0.022 P <sub>CK</sub> 0.000 Variable L <sub>WA</sub> 41 / 58 Q <sub>HE</sub> 3222 - Qelec - AEC - NUFACTURING TURKEY JOINT S The person empowered T	E load at indoor Sure T j Pdh - KW Cdh Pdh 14.0 KW Cdh 1.00 - Pdh 9.0 KW Cdh 0.99 - Pdh 5.1 KW Cdh 0.97 - Pdh 14.0 KW Cdh 0.97 C Pdh 14.0 KW Pdh 14.0 KW Tbiv 2 ° C Idesignh 2 ° C active mode P <sub>0FF</sub> 0.022 KW P <sub>T0</sub> 0.022 KW P <sub>T0</sub> 0.022 KW P <sub>GK</sub> 0.000 KW Variable Variable L <sub>WA</sub> 41 / 58 dBA Q <sub>HE</sub> 3222 KW AEC - KW NUFACTURING TURKEY JOINT STOCK COMPANY	Prated14.0KWenergy efficiency: load at indoor:ure T jpdh-Pdh-Pdh-Pdh14.0KWCdh-Pdh14.0KWCdh-Pdh9.0KWCdh0.99-Pdh5.1KWCdh0.99-Pdh14.0KWPdh14.0KWPdh14.0KWPdh14.0KWPdh14.0KWPdh14.0KWPdh14.0KWPorr0.022kWPorr0.022kWPorr0.022kWPorr0.022kWPorr0.022kWPorr0.022kWhPorr0.022kWhPorr0.022kWhPorr0.022kWhPorr0.022kWhPorr0.022kWhPorr0.022kWhPorr0.022kWhPorr	Prated14.0KWenergy efficiency77/8cload at indoorcode ficient of performance or primary energy part load at indoor temperature 20 ° C and outdoor terPdhPdhPdh14.0KWCdh-Pdh9.0-Fdh5.1KWCdh0.99Pdh5.1KWCdh0.97Pdh14.0KWCdh0.97Pdh14.0KWTj = +7 ° CCdh0.97Pdh14.0KWTj = bivalent temperatureCdh0.97Pdh14.0KWY = operation limit temperatureCdh0.97Pdh14.0KWY = operation limit temperatureCdh0.022KWYPdr0.022Advise-Parr0.022KWPro0.022KWPro0.022KWYpe of energy inputPariableRated air flow rate, outdoorsLw41 / 58QeleoWater heating energy efficiencyruleWater heating energy efficiencyQeleoKWhAEC-NUFACTURING TURKEY JOINT STOCK COMPANYManager, Quality Assuarance DepartmentNuFACTURING Temperature section.Manager, Qu	Prate14.0KWenergy efficiency78229: load at indoorDeclared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj part load at indoor temperature 20 °C and outdoor temperature TjPdhPdhPdh14.0KWCdhPdh14.0KWCdh0.99-Pdh5.1KWCdh0.97-Pdh14.0KWCdh0.97-Pdh14.0KWTi = +12 °CCOPdCdh0.97Pdh14.0KWPdh14.0KWPdh14.0KWTbiv2°CToiv2°CToiv2°CToiv2°CToiv2°CToiv2°CToiv2°CToiv2°CApprox0.002KWProPro0.022Pro0.022Pro0.022Pro0.00Pro0.022Pro0Pro0.022Pro0Pro0.022Pro0Pro0.022Pro0Pro0.000Pro0.000Pro0.000Pro0.000Pro0.000Pro

 $\cdot$  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-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	141	%
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	12. 4	kW	Tj = - 7 ° C	COPd	2. 18	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3. 49	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 7 ° C	Pdh	6.3	kW	Tj = + 7 ° C	COPd	4.85	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.9	kW	Tj = +12 ° C	COPd	6. 61	-
Degradation co-efficient (**)	Cdh	0.96	_				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
			_				
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	$P_{OFF}$	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	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	$Q_{HE}$	8055	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ 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 th	e supplier: Kenichi SAITO			
育藤健-				Manager, Quality Assuarance Department			
M Mar Dr				TURKEY			
			6 I	installation and an annation meaning			

· 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-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	182	%
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	mperature T <u>.</u>	i
Tj = - 7 ° C	Pdh	12. 4	kW	Tj = - 7 ° C	COPd	3.00	-
Degradation co-efficient (**)	Cdh	1.00	-				l.
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0.99	-				l.
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0. 98	-			<u>.</u>	
Tj = +12 ° C	Pdh	4. 1	kW	Tj = +12 ° C	COPd	7.19	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	2. 55	-
Tj = operation limit temperature (***)	Pdh	14. 0	kW	Tj = operation limit temperature (***)	COPd	2. 55	-
			-				
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		1	
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	P <sub>SB</sub>	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 <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	6262	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ wh	-	%
Daily electricity consumption	Qelec	-	k₩h				
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 – I	Manisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperati	ure section.	Manager, Quality Assuarance Department			
	,			TURKEY			
· Details and precautions on installation, maintena	ance and ass	embly can b	e found in the	installation and or operation manuals.			
· Details and precautions on recycling and/or dis	posal at end-	of-life can b	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-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	115	%
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 tem	nperature Tj	
Tj = - 7 ° C	Pdh	8.5	kW	Tj = - 7 ° C	COPd	2. 63	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3. 49	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4. 2	kW	Tj = + 7 ° C	COPd	4. 40	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 2	kW	Tj = +12 ° C	COPd	6. 92	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	1.53	-
Tj = operation limit temperature (***)	Pdh	10. 7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 52	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	3. 3	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	P <sub>SB</sub>	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	11674	k₩h				
For heat pump combination heater:				-			
Declared load profile		-		Water heating energy efficiency	$\eta$ wh	-	%
Daily electricity consumption	Qelec	-	k₩h				
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 th	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section	Manager, Quality Assuarance Department			
		comporatu		TURKEY			
· Details and precautions on installation, maintena	nce and ass	embly can be	found in the	installation and or operation manuals.			
$\cdot$ Details and precautions on recycling and/or disp	oosal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	ηs	153	%
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 ten	nperature Tj	
Tj = - 7 ° C	Pdh	8.3	kW	Tj = - 7 ° C	COPd	3. 65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 ° C	Pdh	4.6	kW	Tj = + 7 ° C	COPd	5. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.3	kW	Tj = +12 ° C	COPd	8.80	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	2. 03	-
Tj = operation limit temperature (***)	Pdh	10. 7	kW	Tj = operation limit temperature (***)	COPd	1. 79	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	3. 3	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	$P_{SB}$	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$Q_{HE}$	8865	kWh				
For heat pump combination heater:							
Declared load profile		_		Water heating energy efficiency	$\eta$ 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.	Kenichi SATTO Manager, Quality Assuarance Department TURKEY			
<ul> <li>Details and precautions on installation, maintena</li> <li>Details and precautions on recycling and/or dis</li> </ul>		,		· ·			

(\*) 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-SHWM140YAA	
	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	14. 0	kW	Seasonal space heating energy efficiency	ηs	154	%
Declared capacity for heating for part	load at	indoor	•	Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	14.0	kW	Tj = + 2 ° C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	8.8	kW	Tj = + 7 ° C	COPd	3. 27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	5.5	kW	Tj = +12 ° C	COPd	5. 50	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	2. 00	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
			·				
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		11	
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	P <sub>SB</sub>	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$\mathbf{Q}_{HE}$	4757	k₩h				
For heat pump combination heater:							
Declared load profile		-	-	Water heating energy efficiency	$\eta$ 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 – Ma	anisa, Turkey
The identification and signature of th	ie person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average clin	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
· Details and precautions on installation, maintena	nce and ass	embly can be	e found in the				

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SHWM140YAA
	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.

ed at j	14.0 indoor	kW	Seasonal space heating energy efficiency Declared coefficient of performance or prim	η s	222	%
j	indoor		Declared coefficient of performance or prim			
-			beerared coerrierent of performance of prim	nary energy	ratio for	
ı			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature T	j
	-	kW	Tj = − 7 ° C	COPd	-	-
ı	-	-				
ı	14. 0	kW	Tj = + 2 ° C	COPd	3. 24	-
ı	1.00	-				
ı	9.0	kW	Tj = + 7 ° C	COPd	5. 15	-
ı	0. 99	-				
ı	5. 1	kW	Tj = +12 ° C	COPd	7. 18	-
ı	0. 97	-				1
ı	14. 0	kW	Tj = bivalent temperature	COPd	3. 24	-
ı	14.0	kW	Tj = operation limit temperature (***)	COPd	3. 24	-
v	2	°C	Operation limit temperature	TOL	-30	°C
gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
e mo	de		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				
	3319	kWh				
	-		Water heating energy efficiency	$\eta$ wh	-	%
ec	-	kWh				
;	-	kWh				
				lu Bulvari No:	19 Yunusemre -	Manisa, Turkey
son	empowered t	o bind the				
mediu	m-temperatu	re section.	Manager, Quality Assuarance Department			
	FF 0 B K K K K K K K K K K K K K K K K K K	Ih       9.0         Ih       0.99         Ih       5.1         Ih       0.97         Ih       14.0         Ih       14.0         Ih       14.0         Ih       14.0         Ih       14.0         Ih       14.0         Iv       2         ignh       2         re       mode         FF       0.022         Ib       0.022         Ib       0.022         Ib       0.000         variable       -         IA       41 / 58         IE       3319         -       -         Ic       -         IC       -         RING TURKEY JOINT ST       son empowered t         medium-temperatu       -         d assembly can be       -	Ih       9.0       kW         Ih       0.99       -         Ih       5.1       kW         Ih       0.97       -         Ih       14.0       kW         Ih       0.022       kW         Ib       0.022       kW         K       0.000       kW         Ib       3319       kWh         Ib       -       -         Ib       -       kWh         Ib       -       kWh         Ib       -       kWh         Ib       -       kWh         Ib<	h9.0kWTj = + 7 ° Ch $0.99$ -h $5.1$ kW $0.97$ -h $14.0$ kWh $14.0$ kWh $14.0$ kWiv $2$ ° Cignh $2$ ° Cremodere $0.022$ kW $0.022$ kW $0.022$ kW $0.022$ kW $0.022$ kW $0.022$ kW $\infty$ $0.000$ $KW$ $\infty$ $0.000$ $KWh$ $C$ $ KWh$ $C$ $-$ <td>h9.0kWTj = +7 ° CCOPdh5.1kWTj = +12 ° CCOPdh5.1kWTj = bivalent temperatureCOPdh14.0kWTj = operation limit temperatureCOPdh14.0kWTj = operation limit temperature (***)COPdiv2° COperation limit temperature (***)COPdignh2° COperation limit temperatureTOLremodeSuplementary heaterSuplementary heaterre0.022kWType of energy inputImage: Comparison of the suplementary inputvariableRated air flow rate, outdoors-a41 / 58dBARated air flow rate, outdoors-ec-kWhWater heating energy efficiency<math>\eta</math>whc-kWhManisa 0SB 4.Kisim Kecilikoyosh Mah. Atmet Nazif Zorlu Bulvari No:rson empowered to bind the supplier: Kenichi SAITOManager, Quality Assuarance Department TURKEYd assembly can be found in the installation and or operation manuals.Final All or operation manuals.</td> <td>h9.0KWTj = +7 ° CCOPd5.15hh5.1KWTj = +12 ° CCOPd7.18hh0.97hh14.0KWTj = bivalent temperatureCOPd3.24hh14.0KWTj = operation limit temperature (****)COPd3.24iv2° COperation limit temperature (****)COPd3.24iv2° COperation limit temperature (****)COPd60ignh2° CHeating water operating limit temperatureMTOL60remodeSupplementary heater6060re0.022KWRated heat output (*)Psup0.000.022KWType of energy inputElectricalwariable2640-a41 / 58dBA-2640a41 / 58dBAec-kWhWater heating energy efficiency7/wh-c-kWh2640c-kWhc-kWhc-kWhc-kWhc-kWhc-kWhc-kWhc-kWh<tr< td=""></tr<></td>	h9.0kWTj = +7 ° CCOPdh5.1kWTj = +12 ° CCOPdh5.1kWTj = bivalent temperatureCOPdh14.0kWTj = operation limit temperatureCOPdh14.0kWTj = operation limit temperature (***)COPdiv2° COperation limit temperature (***)COPdignh2° COperation limit temperatureTOLremodeSuplementary heaterSuplementary heaterre0.022kWType of energy inputImage: Comparison of the suplementary inputvariableRated air flow rate, outdoors-a41 / 58dBARated air flow rate, outdoors-ec-kWhWater heating energy efficiency $\eta$ whc-kWhManisa 0SB 4.Kisim Kecilikoyosh Mah. Atmet Nazif Zorlu Bulvari No:rson empowered to bind the supplier: Kenichi SAITOManager, Quality Assuarance Department TURKEYd assembly can be found in the installation and or operation manuals.Final All or operation manuals.	h9.0KWTj = +7 ° CCOPd5.15hh5.1KWTj = +12 ° CCOPd7.18hh0.97hh14.0KWTj = bivalent temperatureCOPd3.24hh14.0KWTj = operation limit temperature (****)COPd3.24iv2° COperation limit temperature (****)COPd3.24iv2° COperation limit temperature (****)COPd60ignh2° CHeating water operating limit temperatureMTOL60remodeSupplementary heater6060re0.022KWRated heat output (*)Psup0.000.022KWType of energy inputElectricalwariable2640-a41 / 58dBA-2640a41 / 58dBAec-kWhWater heating energy efficiency7/wh-c-kWh2640c-kWhc-kWhc-kWhc-kWhc-kWhc-kWhc-kWhc-kWh <tr< td=""></tr<>

 $\cdot$  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-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	142	%
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	12. 4	kW	Tj = − 7 ° C	COPd	2. 18	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3. 49	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	6. 3	kW	Tj = + 7 ° C	COPd	4. 85	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 9	kW	Tj = +12 ° C	COPd	6. 61	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	14. 0	kW	Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
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 <sub>T0</sub>	0. 022	kW				
Standby mode	P <sub>SB</sub>	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 <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$Q_{HE}$	7974	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ 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				
百藤建一				Kenichi SAITO			
17 11/11 DF				Manager, Quality Assuarance Department TURKEY			

· 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-SHWM140YAA
	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.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14. 0	kW	Seasonal space heating energy efficiency	η s	184	%
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 T	i
Tj = - 7 ° C	Pdh	12. 4	kW	Tj = - 7 ° C	COPd	3.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 1	kW	Tj = +12 ° C	COPd	7.19	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	14. 0	kW	Tj = bivalent temperature	COPd	2. 55	-
Tj = operation limit temperature (***)	Pdh	14. 0	kW	Tj = operation limit temperature (***)	COPd	2. 55	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de	•	Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	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 <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$Q_{\text{HE}}$	6181	kWh				
For heat pump combination heater:				-			
Declared load profile		-		Water heating energy efficiency	$\eta$ 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 – I	Manisa, Turkey
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The signature is signed in the average cli	mate / mediu	um-temperatu	ure section.	Manager, Quality Assuarance Department			
				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 dis	oosal at end-	of-life 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-SHWM140YAA
	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	14. 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 tem	nperature Tj	
Tj = -7 °C	Pdh	8.5	kW	Tj = - 7 ° C	COPd	2. 63	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3. 49	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4. 2	kW	Tj = + 7 ° C	COPd	4. 40	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	4. 2	kW	Tj = +12 ° C	COPd	6. 92	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	1.53	-
Tj = operation limit temperature (***)	Pdh	10. 7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.52	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	3. 3	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	P <sub>SB</sub>	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 <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	11625	k₩h				
For heat pump combination heater:				-			
Declared load profile		-		Water heating energy efficiency	$\eta$ wh	-	%
Daily electricity consumption	Qelec	-	k₩h				
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
The identification and signature of th	ne person	empowered	to bind th	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediı	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.			
· 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-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	154	%
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	perature Tj	
Tj = - 7 ° C	Pdh	8.3	kW	Tj = - 7 ° C	COPd	3. 65	-
Degradation co-efficient (**)	Cdh	0. 99	-			<u>_</u>	
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	4. 59	-
Degradation co-efficient (**)	Cdh	0. 98	-			<u>_</u>	
Tj = + 7 ° C	Pdh	4.6	kW	Tj = + 7 ° C	COPd	5. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.3	kW	Tj = +12 ° C	COPd	8.80	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	2. 03	-
Tj = operation limit temperature (***)	Pdh	10. 7	kW	Tj = operation limit temperature (***)	COPd	1. 79	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 05	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	3. 3	kW
Thermostat-off mode	P <sub>T0</sub>	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 <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	$Q_{HE}$	8816	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ 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 second structure of the second	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			
<ul> <li>Details and precautions on installation, maintena</li> <li>Details and precautions on recycling and/or dis</li> </ul>		•					

(\*) 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-SHWM140YAA
	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.

	Value	Unit	Item	Symbol	Value	Unit		
Prated	14. 0	kW	Seasonal space heating energy efficiency	η s	158	%		
load at	indoor	•		nary energy	ratio for			
temperature 20 $^\circ$ C and outdoor temperature T j				part load at indoor temperature 20 $^\circ$ C and outdoor temperature Tj				
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-		
Cdh	-	-						
Pdh	14. 0	kW	Tj = + 2 ° C	COPd	2.00	-		
Cdh	1.00	-						
Pdh	8.8	kW	Tj = + 7 ° C	COPd	3. 27	-		
Cdh	0.99	-						
Pdh	5.5	kW	Tj = +12 ° C	COPd	5. 50	-		
Cdh	0. 98	-						
Pdh	14.0	kW	Tj = bivalent temperature	COPd	2.00	-		
Pdh	14. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-		
Tbiv	2	°C	Operation limit temperature	TOL	-30	°C		
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C		
active mo	de	I	Supplementary heater		LL			
P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW		
P <sub>T0</sub>	0. 022	kW						
P <sub>SB</sub>	0. 022	kW	Type of energy input		Electrical			
Рск	0.000	kW						
	variable		Rated air flow rate, outdoors	-	2640	m³/h		
L <sub>WA</sub>	41 / 58	dBA						
$Q_{HE}$	4659	kWh						
			•					
	-		Water heating energy efficiency	$\eta$ wh	-	%		
Qelec	-	kWh						
AEC	-	kWh						
				u Bulvari No:	19 Yunusemre – Ma	anisa, Turkey		
e person	empowered 1	to bind the						
nate / mediu	ım-temperatu	re section.	Kenichi SATU Manager, Quality Assuarance Department TURKEY					
	I load at cure T j Pdh Cdh PfF Pro Pro CK C C C C C C C C C C C C C	$ \begin{array}{c c c c c c c } \hline \begin{tabular}{ c c } \hline \hline \begin{tabular}{ c c } \hline tab$	E load at indoor Sure T j Pdh - KW Cdh Pdh 14.0 KW Cdh 1.00 - Pdh 8.8 KW Cdh 0.99 - Pdh 5.5 KW Cdh 0.98 - Pdh 14.0 KW Cdh 0.98 C Pdh 14.0 KW Pdh 14.0 KW Pdh 14.0 KW Tbiv 2 ° C Tdesignh 2 ° C active mode P <sub>0FF</sub> 0.022 KW P <sub>T0</sub> 0.022 KW P <sub>T0</sub> 0.022 KW P <sub>GK</sub> 0.000 KW Variable Variable Variable L <sub>WA</sub> 41 / 58 dBA Q <sub>HE</sub> 4659 KWh AEC - KWh AEC - KWh	Praced14.0KWenergy efficiencyc load at indoorDeclared coefficient of performance or primcure T j $-$ KWPdh $-$ kWCdh $ -$ Pdh14.0KWCdh $ -$ Pdh14.0KWCdh $0.99$ $-$ Pdh5.5KWCdh $0.99$ $-$ Pdh5.5KWCdh $0.98$ $-$ Pdh14.0KWPdh14.0KWTbiv2° CTdesignh2° Cactive modeSupplementary heaterPorr $0.022$ kWPorg $0.000$ kWPorg $0.022$ kW<	Prated14.0KWenergyefficiency7/3Cload at indoorenergyefficiency7/3PdhPdhPdhPdh14.0KWCdhPdh14.0KWCdhPdh8.8KWCdh0.99Pdh5.5KWCdh0.98Pdh14.0KWPdh14.0KWTj = +7 ° CCOPdCdh0.98Pdh14.0KWTj = bivalent temperatureCOPdCdh0.98Pdh14.0KWTj = operation limit temperatureCOPdCdh0.02KWPdh14.0KWY = operation limit temperatureCOPdCdh0.02KWPdh14.0KWY = operation limit temperatureCOPdTbiv2° Cactive modeSupplementary heaterPorr0.022KWPro0.022KWPro0.022KWPro0.022KWPro0.022KWPro0.022KWPro0.022KWPro0.022KWPro0.022KWhPro0.022KWhPro0.022KWhPro0.022KWhAffor energy efficiency7	PrateuIndoNMIndexIn		

· 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-SHWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	ηs	229	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperature T j				part load at indoor temperature 20 $^\circ$ C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	14. 0	kW	Tj = + 2 ° C	COPd	3. 24	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	9.0	kW	Tj = + 7 ° C	COPd	5. 15	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	5. 1	kW	Tj = +12 ° C	COPd	7. 18	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3. 24	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3. 24	-
		,					
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-30	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P <sub>0FF</sub>	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P <sub>T0</sub>	0. 022	kW				
Standby mode	P <sub>SB</sub>	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	3222	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	$\eta$ 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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	,			TURKEY			
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(\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.