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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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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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de energie-efficiêntie voor waterverwarming onder warmere klimaatomstandigheden Energiefiektivitet vid vattenuppvärmning under varmare klimaaförhållanden energiefiektiviteten ved vandopvarmning under varmere klimatorhöld vedenlämmityksen energiatehökkuus lämpimissa ilmasto-olosuhteissa energiefiekta üčinnost ohřev vody za teplejšich klimatických podmínek energiefiektiviteten ved vandopvarmning under varmere klimatorhöld Sound power level L _{WA} outdoor der Schallleistungspegel L _{WA} im Freien energienstiveau L _{WA} butlen ka textérieur Integluidsvernogenstriveau L _{WA} butlen L_WA butlen L_WA i l'extérieur	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	chauffage de l'eau, dans le
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	- la aplicación de media temperatura In εφαριμογή σε μέση θεριμοκρασία
	- la aplicación de baja temperatura η εφαρμογή σε χαμηλή θερμοκρασία
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	 a la policia calorífica nominal(en condiciones climáticas medias) n ονομαστική θεριμική ισχύς(υπό μέσες κλιματικές συνθήκες)
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natiche medie)	para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias)
s climáticas m warunkach	για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(υπό μέσες κλιματικές συνθήκες) -
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édias) owanego)	η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) -
	el nivel de potencia acústica L _{WA} en interiores η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	funcionar solamente durante las horas de baja demanda λεπουργία μόνο εκτός των ωρών αιχμής
	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	
limatiche più limáticas mais	para calentar espacios, el consumo anual de energía en condiciones climáticas más cá lidas vird Brunovn vilnou i a rrhona kornováhvon svérovara umó Broulótaner klumtkér mivBriker
atu	
matiche più	para calentar agua, el consumo anual de electricidad en condiciones climáticas más frías
s climáticas	για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικέ ς συνθήκες
warunkach matiche più	 para calentar agua, el consumo anual de electricidad en condiciones climáticas más cá
s climáticas	indas για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές ισινθήκες
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auche piu	inergenca estacional de caletacción en condiciones climaticas mas in renéferences estacional de caletacción en condiciones climaticas mas in
naticas mais n klimatu chł	- KEC I skebkenkul anuooodi LIUS suuxianki eebhavauk Xmbon nuu hmXboisebsč kwihankes anvedi -
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 _{vin} , en exteriores η στάθμη ηχητικής ισχύος L _{vin} εξωτερικού χώρου

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	128	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	2. 27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 19	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 18	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	2. 8	kW	Tj = +12 ° C	COPd	5. 79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7. 1	kW	Tj = bivalent temperature	COPd	2. 27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	5053	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							
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 the	ne person	empowered	to bind th	e supplier: Kenichi SAITO			
百藤建一				Manager, Quality Assuarance Department			
M MOL D+				TURKEY			
· Detaile and presentions on installation maintance				installation and or operation manuals			

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	179	%
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 ten	nperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	3. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	4. 75	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	5. 61	-
Degradation co-efficient (**)	Cdh	0. 98	-			<u></u>	
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 19	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7. 1	kW	Tj = bivalent temperature	COPd	3. 20	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2. 63	-
			•				
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.5	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	3636	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4.000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS M/ The identification and signature of th	NNUFACTURING T ne person mate / mediu ance and ass	URKEY JOINT S empowered im-temperatu embly can be	TOCK COMPANY to bind the re section.	e supplier; Kenichi SAITO Manager, Quality Assuarance Department TURKEY installation and or operation manuals.	lu Bulvari No:	19 Yunusemre - M	anisa,

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	111	%
Declared capacity for heating for part	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	4.9	kW	Tj = - 7 ° C	COPd	2. 60	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 33	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 80	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0. 95	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1. 45	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	6923	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4. 820	kWh				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	lanisa, Turkey
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The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comporatu		TURKEY			
· Details and precautions on installation, maintena	ince and asse	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	141	%
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	4.8	kW	Tj = - 7 ° C	COPd	3. 43	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = +2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 45	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7. 40	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2. 00	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1.40	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	5493	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4. 820	k₩h				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
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The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comporatu		TURKEY			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Rated heat output (*)Prated8.0HWSeasonal space heating on the part load at indoor energy efficiency η s162Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature T jT η s162T j = -7 ° CPdhKHDegradation co-efficient (**)CdhT j = -7 ° CPdhDegradation co-efficient (**)Cdh1.00-T j = -7 ° CPdh5.2KHDegradation co-efficient (**)Cdh0.09-T j = -7 ° CPdh5.2KHDegradation co-efficient (**)Cdh0.09-T j = -12 ° CPdh4.5KHDegradation co-efficient (**)Cdh0.99-T j = -12 ° CPdh4.5KHDegradation co-efficient (**)Cdh0.99-T j = -12 ° CPdh8.0KHDegradation co-efficient (**)Cdh0.98-T j = bivalent temperaturePdh8.0KHT j = operation limit temperatureCDPd2.00Degradation temperaturePdh8.0KHT j = operation limit temperature (***)Pdh8.0Bivalent temperaturePdn8.0KHT j = bivalent temperaturePdn8.0Bivalent temperaturePdn8.0Bivalent temperaturePdn8.0Contact temperaturePdn8.0Dedradation tem	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
tamperature 20 ° C and outdoor temperature T jT j = -7 ° CPdh-T j = -7 ° CPdh-Degradation co-efficient (**)Odh-Degradation co-efficient (**)Odh-T j = + 7 ° CPdh-Degradation co-efficient (**)Odh-Degradation co-efficient (**)Odh0.00Degradation co-efficient (**)Odh0.00Degradation co-efficient (**)Odh0.99T j = +7 ° COOPd3.48Degradation co-efficient (**)Odh0.88T j = operation limit temperaturePdh8.0KWRaterOperation limit temperatureOPdDegradation co-efficient (**)Pdh8.0Nu2°Degradation co-efficient (**)Pdh8.0KWT j = operation limit temperatureOPdT j = operation limit temperaturePdh8.0KWT j = operation limit temperatureOPdDewer consuption in modes other than active mode°Power consuption in modes other than active mode°Dewer consuption in modes other than active mode°Dewer consuption in modes other than active mode°Power consuption in modes other than active mode°Dewer consuption in modes other than active mode°Dewer consuption in modes other than active mode°Dewer consuption in modes other than active mode°<	Rated heat output (*)	Prated	8.0	kW		ηs	162	%
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)Gdh1.00-Tj = +7 * CPdh5.2kWDegradation co-efficient (**)Gdh0.99-Tj = +12 * CPdh4.5kWDegradation co-efficient (**)Gdh0.98-Tj = bivalent temperaturePdh8.0kWTj = operation limit temperaturePdh8.0kWTj = operation limit temperaturePdh8.0kWTj = operation limit temperature (***)Pdh8.0kWBivalent temperatureTbiv2* CReference design conditions for spaceTdesignh2* CPower consumption in modes other than active modeOutskWOff modePor0.015kWStandby modePas0.015kWCapacity controlvariableRated heat output (*)PsupSound power level, indoors/outdoorsLaw41 / 54Annual energy consumptionQelec3.850Annual energy consumptionQelec3.850Annual energy consumptionAEC846MTSUBLENT ELECTRIC ALR COMDITIONING SYSTEMS MANE/ACTURING TURKEY JOINT STOCK COMPANYMater Mater MacH Rutif Zorla Bulvari Ho: 19 Yunasere - MariTo identification and signature of the person empowered to bind the supplier: Kenchi SANTOKMIN	Degradation co-efficient (**)	Cdh	-	-				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Tj = + 2 ° C	Pdh	8.0	kW	Tj = + 2 ° C	COPd	2.00	-
Degradation co-efficient (**) Odh 0.99 - Tj = +12 ° C OOPd 5.92 Degradation co-efficient (**) Odh 0.98 - Tj = bivalent temperature Pdh 8.0 KW Tj = operation limit temperature (***) Pdh 8.0 KW Tj = operation limit temperature (***) Pdh 8.0 KW Bivalent temperature (***) Pdh 8.0 KW Bivalent temperature (***) Tbiv 2 ° C Reference design conditions for space Tdesignh 2 ° C Power consumption in modes other than active mode Operation limit temperature TOL -25 Off mode Por 0.015 KW Supplementary heater Rated heat output (*) Psup 0.0 Capacity control 0.015 KW Type of energy input Electrical 220 Supplementary consumption Qegradations Law 41 / 54 dBA Annual energy consumption 220 220 Sound power level, indoors/outdoors Law 2350 kWh Psup 220 220	Degradation co-efficient (**)	Cdh	1.00	-				
Tj = +12 ° C Pdh 4.5 KW Degradation co-efficient (++) Cdh 0.98 - Tj = bivalent temperature Pdh 8.0 KW Tj = operation limit temperature (+++) Pdh 8.0 KW Bivalent temperature (+++) Pdh 8.0 KW Bivalent temperature (+++) Pdh 8.0 KW Bivalent temperature (+++) Pdh 2 C Reference design conditions for space Tessignh 2 C Power consumption in modes other than active mode Operation limit temperature TOL Off mode Porr 0.015 KW Thermostat-off mode Porr 0.015 KW Standby mode Pase 0.015 KW Other items Capacity control variable Sound power level, indoors/outdoors Law 41 / 54 dBA Annual energy consumption Qelec 3.850 KWh Annual energy consumption AEC 846 KWh MITSUBISH ELECTRIC AIR CONTINUING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Maniae 088 4.Kisim Kecilikoyab Mah. Amet Mazif Zorlu Bulvari No:19 Yunuserre - Mani The identification and signature of the person empowered to bind the supplier: Kenichi SAITO	Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	3. 48	-
Degradation co-efficient (**) Cdh 0.98 - Tj = bivalent temperature Pdh 8.0 KW Tj = bivalent temperature COPd 2.00 Bivalent temperature Tbiv 2 ° C Poperation limit temperature (***) COPd 2.00 Bivalent temperature Tbiv 2 ° C Poperation limit temperature (***) COPd 2.00 Bivalent temperature Toiv 2 ° C Poperation limit temperature (***) COPd 2.00 Bivalent temperature Toiv 2 ° C Poperation limit temperature TOL -25 Power consumption in modes other than active mode 2 ° C Poperature Supplementary heater Off mode Poyr 0.015 KW Rated heat output (*) Psup 0.0 Thermostat-off mode Pox 0.000 KW Type of energy input Electrical Cankcase heater mode Pox 0.000 KW Type of energy input Electrical Gapacity control variable Sand power level, indoors/outdoors LmA 41 / 54 dBA Annual	Degradation co-efficient (**)	Cdh	0.99	-				
Tj = bivalent temperature Pdh 8.0 kW Tj = operation limit temperature (***) Pdh 8.0 kW Bivalent temperature (***) Pdh 8.0 kW Bivalent temperature (***) Pdh 2 ° C Bivalent temperature (***) Pdh 2 ° C Bivalent temperature (***) Pdh 2 ° C Bivalent temperature (***) Totas graph 2 ° C Power consumption in modes other than active mode 0peration limit temperature (***) Operator Off mode Porp 0.015 kW Supplementary heater Thermostat-off mode Porp 0.015 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Capacity control variable Saud power level, indoors/outdoors Lm A11 / 54 dBA Annual energy consumption Quelec 3.850 kWh Minital energy efficiency 7 wh 135 Daily electricity consumption Qelec 3.850 kWh Minital GSB 4.Kisim Keellikoyob Mah. Amet	Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	5. 92	-
Tj = operation limit temperature (+++) Pdh 8.0 kW Bivalent temperature heating Tbiv 2 ° C Power consumption in modes other than active mode 0 0 0 Off mode Porp 0.015 kW Supplementary heater Power consumption in modes other than active mode 0 0 0 Off mode Porp 0.015 kW Supplementary heater Rated heat output (*) Psip 0.0 0 Standby mode Psip 0.000 kW Type of energy input Electrical Capacity control variable Supplementary flow rate, outdoors - 2220 Sound power level, indoors/outdoors LMA 41 / 54 dBA Annual energy consumption Quelec 3.850 kWh Annual energy consumption Quelec 3.850 kWh Annual electricity consumption AEC 346 kWh MITSWEISHI LECTRICA IR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manica 088 4. Kisim Keeilikoyob Mah. Atmet Nazif Zorlu Bulvari No:19 Yunuseme - Mani The identification and signature of the person empowered to bind	Degradation co-efficient (**)	Cdh	0. 98	-				
Bivalent temperature heating Tbiv 2 ° C Reference design conditions for space heating Tdesignh 2 ° C Power consumption in modes other than active mode Supplementary heater Total temperature NTOL 60 Off mode Porr 0.015 kW Rated heat output (*) Psup 0.0 Thermostat-off mode Porr 0.015 kW Rated heat output (*) Psup 0.0 Standby mode Pse 0.015 kW Type of energy input Electrical Crankcase heater mode Porr 0.000 kW Type of energy input Electrical Canacity control variable Sand ya 2584 kWh Rated air flow rate, outdoors 2220 Sound power level, indoors/outdoors LmA 41 / 54 dBA Annual energy consumption Quelec 3.850 kWh Poil velocitity consumption Quelec 3.850 kWh Mate heating energy efficiency 7 wh 135 Deily electricity consumption Qelec 3.850 kWh Matisa 088 4.Kisim Keelikoyeb Mah. Amet Nazif Zorlu Bulvari No:19 Yumuseme - Mani <t< td=""><td>Tj = bivalent temperature</td><td>Pdh</td><td>8.0</td><td>kW</td><td>Tj = bivalent temperature</td><td>COPd</td><td>2.00</td><td>-</td></t<>	Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-
Reference design conditions for space heating Tdesignh 2 ° C Power consumption in modes other than active mode Supplementary heater Supplementary heater Off mode Power 0.015 kW Thermostat-off mode Por 0.015 kW Standby mode Pose 0.015 kW Crankcase heater mode Pox 0.000 kW Other items Capacity control variable Rated air flow rate, outdoors - Sound power level, indoors/outdoors Lmk 41 / 54 dBA Annual energy consumption Quec 3.850 kWh Por heat pump combination heater: U Water heating energy efficiency nwh 135 Declared load profile L KWh Main action and signature of the person empowered to bind the supplier: Kenichi SAITO	Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Reference design conditions for space heating Tdesignh 2 ° C Power consumption in modes other than active mode Supplementary heater Supplementary heater Off mode Power 0.015 kW Thermostat-off mode Por 0.015 kW Standby mode Pose 0.015 kW Crankcase heater mode Pox 0.000 kW Other items Capacity control variable Rated air flow rate, outdoors - Sound power level, indoors/outdoors Lmk 41 / 54 dBA Annual energy consumption Quec 3.850 kWh Por heat pump combination heater: U Water heating energy efficiency nwh 135 Declared load profile L KWh Main action and signature of the person empowered to bind the supplier: Kenichi SAITO			<u>.</u>					
heating Itelesignin 2 C temperature Itelesignin 2 C Power consumption in modes other than active mode Supplementary heater Supplementary heater Supplementary heater Off mode Porr 0.015 kW Rated heat output (*) Psup 0.0 Thermostat-off mode Pro 0.015 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Other items Capacity control variable Rated air flow rate, outdoors - 2220 Sound power level, indoors/outdoors LmA 41 / 54 dBA dBA - 2220 Sound power level, ondoors/outdoors LmA 41 / 54 dBA - 2220 - 2220 Sound power level, indoors/outdoors LmA 41 / 54 dBA - 2220 - 2220 Sound power level, indoors/outdoors LmA 41 / 54 dBA - - 2220 Declared load profile L Variable - - - -	Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Off mode P _{OFF} 0.015 kW Thermostat-off mode P ₁₀ 0.015 kW Standby mode P ₅₈ 0.015 kW Standby mode P ₅₈ 0.015 kW Crankcase heater mode P _{0K} 0.000 kW Other items Capacity control variable Pate air flow rate, outdoors - 2220 Sound power level, indoors/outdoors L _{NA} 41 / 54 dBA Annual energy consumption - 2220 For heat pump combination heater: Declared load profile L L Water heating energy efficiency η wh 135 Daily electricity consumption AEC 846 kWh Maisa 0SB 4.Kisim Kecilikoyosb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4.Kisim Kecilikoyosb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier: Kenichi SAITO		Tdes i gnh	2	°C		WTOL	60	°C
Thermostat-off mode PT0 0.015 kW Standby mode PSB 0.015 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Other items Capacity control variable Rated air flow rate, outdoors - 2220 Sound power level, indoors/outdoors LmA 41 / 54 dBA Annual energy consumption - 2220 Sound power level, indoors/outdoors LmA 41 / 54 dBA dBA - 2220 Sound power level, indoors/outdoors LmA 41 / 54 dBA dBA - 2220 Sound power level, indoors/outdoors LmA 41 / 54 dBA dBA - 2220 For heat pump combination heater: Declared load profile L Water heating energy efficiency η wh 135 Daily electricity consumption Qelec 3.850 kWh KM Annual electricity consumption AEC 846 kWh MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosh Mah. Amet Nazif	Power consumption in modes other than	active mo	de		Supplementary heater			
Standby mode P _{SB} 0.015 kW Type of energy input Electrical Crankcase heater mode P _{OK} 0.000 kW Type of energy input Electrical Other items Capacity control	Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Crankcase heater mode P _{CK} 0.000 kW Other items Capacity control variable Rated air flow rate, outdoors 2220 Sound power level, indoors/outdoors L _{NA} 41 / 54 dBA Annual energy consumption Q _{HE} 2584 kWh For heat pump combination heater:	Thermostat-off mode	P _{T0}	0.015	kW				
Other items Other items Capacity control variable Rated air flow rate, outdoors 2220 Sound power level, indoors/outdoors L _{WA} 41 / 54 dBA Annual energy consumption Q _{HE} 2584 kWh - 2220 For heat pump combination heater: Declared load profile L Water heating energy efficiency η wh 135 Daily electricity consumption Qelec 3.850 kWh KWh - 135 Mitsubishi Electricity consumption AEC 846 kWh - - - Mitsubishi Electric AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 058 4.Kisim Kecilikoyosh Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier; Kenichi SAITO	Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Capacity control variable Rated air flow rate, outdoors - 2220 Sound power level, indoors/outdoors L _{WA} 41 / 54 dBA ABA - 2220 Annual energy consumption Q _{HE} 2584 kWh Provide the support of the start	Crankcase heater mode	P _{CK}	0.000	kW				
Sound power level, indoors/outdoors L _{WA} 41 / 54 dBA Annual energy consumption Q _{HE} 2584 kWh For heat pump combination heater:	Other items							
Annual energy consumption Q _{HE} 2584 kWh For heat pump combination heater:	Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
For heat pump combination heater: Declared load profile L Water heating energy efficiency η wh 135 Daily electricity consumption Qelec 3.850 kWh Annual electricity consumption AEC 846 kWh Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier: Kenichi SAITO	Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Declared load profile L Water heating energy efficiency η wh 135 Daily electricity consumption Qelec 3.850 kWh Annual electricity consumption AEC 846 kWh Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier: Kenichi SAITO	Annual energy consumption	$Q_{\rm HE}$	2584	k₩h				
Daily electricity consumption Qelec 3.850 kWh Annual electricity consumption AEC 846 kWh Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier: Kenichi SAITO	For heat pump combination heater:							
Annual electricity consumption AEC 846 kWh Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Mani The identification and signature of the person empowered to bind the supplier: Kenichi SAITO	Declared load profile		L		Water heating energy efficiency	η wh	135	%
Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY The identification and signature of the person empowered to bind the supplier; Kenichi SAITO	Daily electricity consumption	Qelec	3.850	k₩h				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY The identification and signature of the person empowered to bind the supplier; Kenichi SAITO	Annual electricity consumption	AEC	846	kWh				
The identification and signature of the person empowered to bind the supplier: Kenichi SAITO	Contact details							
Kenichi SAITO						lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
	The identification and signature of the	ne person	empowered	to bind the				
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department	The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.	· Details and precautions on installation, maintena	ance and ass	embly can be	e found in the	installation and or operation manuals.			

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

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	8.0	kW	Seasonal space heating energy efficiency	η s	219	%
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	8.0	kW	Tj = + 2 ° C	COPd	3. 65	-
Cdh	0.99	-				
Pdh	5. 1	kW	Tj = + 7 ° C	COPd	5.05	-
Cdh	0.99	-				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7.12	-
Cdh	0.98	-				
Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.65	-
Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3. 65	-
		1			LJ	
Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de	1	Supplementary heater		1	
P _{0FF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
P _{T0}	0.015	kW				
P_{SB}	0. 015	kW	Type of energy input		Electrical	
Рск	0.000	kW				
		• • • •				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
L _{WA}	41 / 54	dBA				
Q_{HE}	1928	kWh				
		•	-			
	L		Water heating energy efficiency	η wh	135	%
Qelec	3.850	kWh				
AEC	846	kWh				
	1	II				
NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	9 Yunusemre - Ma	anisa, Turkey
e person	empowered	to bind the	supplier; Kenichi SAITO			
nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
	Prated I load at ure T j Pdh Cdh PoFF Pro Cw Cw Cw Cw Cw Cw Cw Cw Cw Cw	Prated 8.0 Ioad at indoor indoor ure T j Pdh - Cdh - Pdh Cdh 0.99 Pdh 5.1 Cdh 0.99 Pdh 4.7 Cdh 0.99 Pdh 4.7 Cdh 0.98 Pdh 8.0 Pdh 8.0 0 9 Pdh 8.0 0.98 9 Pdh 8.0 0 9 Pdh 8.0 0 9 Pdh 0.015 0.015 0.015 PGK 0.0015 0.015 0.000 variable L Qelec 3.850 AEC 846 NUFACTURING TURKEY JOINT S e person empowered 1	Prated 8.0 kW load at indoor ure T j Pdh - kW Cdh - - Pdh 8.0 kW Cdh - - Pdh 8.0 kW Cdh 0.99 - Pdh 5.1 kW Cdh 0.99 - Pdh 4.7 kW Cdh 0.99 - Pdh 8.0 kW Cdh 0.98 - Pdh 8.0 kW Pdh 8.0 kW Dhiv 2 ° C active mode - - PorF 0.015 kW PsB 0.015 kW PocK 0.000 kWh L - - Qelec 3.850 kWh AEC 846 kWh	Prated8.0kWPrated8.0kWIoad at indoorenergy efficiencyure T jpdh-Pdh-KWCdhPdh8.0kWCdh0.99-Pdh5.1kWCdh0.99-Pdh4.7kWCdh0.98-Pdh8.0kWFdh8.0kWFdh8.0kWFdh8.0kWFdh8.0kWFdh8.0kWFdh8.0kWFdh8.0kWFdh8.0kWFdh2CCdh0.98-Fdh8.0kWFde grad2CToiv2° Cactive modeSupplementary heaterPorF0.015kWPorF0.000kWPorF0.000kWVariableRated air flow rate, outdoorsLVariableRated air flow rate, outdoorsLWater heating energy efficiencyQelec3.850kWhAEC846kWhMuFACTURING TURKEY JOINT STOCK COMPANYManisa OSB 4.Kisim Kecilikoyoeb Mah. Atmet Nazif Zore person empowered to bind the supplier:Kenichi SAITOmate / medium-temperature section.Manager, Quality Assuarance Department	Prated8.0kWPrated8.0kWIoad at indoorindoorPater1Pater-Pater </td <td>Prated 8.0 KW Ioad at indoor Seasonal epace heating energy efficiency 7 s 219 Ure T j Pdh - KW Declared coefficient of performance or primary energy ratio for per load at indoor temperature Tj Pdh - - - - Coefficient of performance or primary energy ratio for temperature Tj Pdh - - - - Coefficient of performance or primary energy ratio for temperature Tj Pdh - - - - - - Pdh 5.1 KW - - - - Odh 0.99 - - - - - Pdh 5.1 KW - - - - - Odh 0.99 -</td>	Prated 8.0 KW Ioad at indoor Seasonal epace heating energy efficiency 7 s 219 Ure T j Pdh - KW Declared coefficient of performance or primary energy ratio for per load at indoor temperature Tj Pdh - - - - Coefficient of performance or primary energy ratio for temperature Tj Pdh - - - - Coefficient of performance or primary energy ratio for temperature Tj Pdh - - - - - - Pdh 5.1 KW - - - - Odh 0.99 - - - - - Pdh 5.1 KW - - - - - Odh 0.99 -

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	128	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	2. 27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 19	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 18	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	2. 8	kW	Tj = +12 ° C	COPd	5. 79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7. 1	kW	Tj = bivalent temperature	COPd	2. 27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
			-				
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	5053	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	k₩h				
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind th	e supplier: Kenichi SAITO			
百藤建一				Manager, Quality Assuarance Department			
				TURKEY			
Details and pressutions on installation maintans			farmed in the	installation and or energtion monuple			

· 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-SWM80YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Rated heat output (*) Declared capacity for heating for part temperature 20 ° C and outdoor temperatur Tj = -7 ° C Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = +7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature Tj = operation limit temperature (***)	re Tj Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh	7. 1 0. 99 4. 4 0. 98 5. 0 0. 98 3. 0 0. 96 7. 1	kW kW kW kW 	Seasonal space heating <u>energy efficiency</u> Declared coefficient of performance or prim part load at indoor temperature 20 ° C and Tj = -7 ° C Tj = + 2 ° C Tj = +7 ° C Tj = +12 ° C		perature Tj 3. 20 4. 75 5. 61 5. 61	% - - -
<pre>temperature 20 ° C and outdoor temperatur Tj = -7 ° C Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = +7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	re Tj Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh	7. 1 0. 99 4. 4 0. 98 5. 0 0. 98 3. 0 0. 96 7. 1	- kW - kW - kW	part load at indoor temperature 20 ° C and Tj = -7 ° C Tj = $+2$ ° C Tj = $+7$ ° C	outdoor tem COPd COPd COPd	perature Tj 3. 20 4. 75 5. 61 5. 61	- -
<pre>Tj = - 7 ° C Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh	0.99 4.4 0.98 5.0 0.98 3.0 0.96 7.1	- kW - kW - kW	$Tj = -7 \circ C$ $Tj = +2 \circ C$ $Tj = +7 \circ C$	COPd COPd COPd	3. 20 4. 75 5. 61	-
Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Cdh Cdh Cdh Cdh Cdh Cdh Pdh Pdh	0.99 4.4 0.98 5.0 0.98 3.0 0.96 7.1	- kW - kW - kW	Tj = + 2 ° C Tj = + 7 ° C	COPd COPd	4. 75	-
<pre>Tj = + 2 ° C Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	Pdh Cdh Cdh Cdh Pdh Cdh Pdh Pdh	4.4 0.98 5.0 0.98 3.0 0.96 7.1	- kW - kW -	Tj = + 7 ° C	COPd	5. 61	-
Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Cdh Pdh Cdh Pdh Pdh	0.98 5.0 0.98 3.0 0.96 7.1	- kW - kW -	Tj = + 7 ° C	COPd	5. 61	-
Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Pdh Cdh Pdh Cdh Pdh Pdh	5.0 0.98 3.0 0.96 7.1	- kW -				-
Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Cdh Pdh Pdh	0. 98 3. 0 0. 96 7. 1	- kW -				-
Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Pdh Cdh Pdh Pdh	3. 0 0. 96 7. 1	-	Tj = +12 ° C	COPd		
Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Pdh	0. 96 7. 1	-	Tj = +12 ° C	COPd	0.10	
Tj = bivalent temperature	Pdh Pdh	7. 1	-			6.19	-
	Pdh					·	
Tj = operation limit temperature (***)		7 5	kW	Tj = bivalent temperature	COPd	3. 20	-
	-	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-
							
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space . heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than a	active mo	de		Supplementary heater		11	
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.5	kW
Thermostat-off mode	P _{T0}	0. 022	kW			11	
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items				1			
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA			·	
Annual energy consumption	Q _{HE}	3636	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details			Į				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUF	UFACTURING T	URKEY JOINT ST	OCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	lu Bulvari No∶1	19 Yunusemre – Ma	nisa, Turkey
The identification and signature of the	person	empowered t	o bind the	supplier; Kenichi SAITO			
The signature is signed in the average climat	ate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
· Details and precautions on installation, maintenanc	ce and asse	embly can be	found in the	installation and or operation manuals.			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	111	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = − 7 ° C	Pdh	4.9	kW	Tj = - 7 ° C	COPd	2. 60	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 33	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 80	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1. 45	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1. 45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	6923	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	lanisa, Turkey
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The signature is signed in the average cli	mate / mediu	ım-tomporatu	re section	Manager, Quality Assuarance Department			
				TURKEY			
· Details and precautions on installation, maintena	ince and asso	embly can be	found in the				
· Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	141	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	4. 8	kW	Tj = - 7 ° C	COPd	3. 43	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = +2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 45	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	7. 40	-
Degradation co-efficient (**)	Cdh	0. 95	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1. 40	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	5493	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comportatu		TURKEY			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	e found in the	installation and or operation manuals.			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	162	%
Declared capacity for heating for part	: load at	indoor	•	Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	8.0	kW	Tj = + 2 ° C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	3. 48	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	8. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
			-				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 015	kW				
Standby mode	P _{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	2584	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	139	%
Daily electricity consumption	Qelec	3. 820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – N	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
The signature is signed in the average cli • Details and precautions on installation, maintena • Details and precautions on recycling and/or dis	nce 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-SWM80YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	8.0	kW	Seasonal space heating energy efficiency	η s	219	%
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	8.0	kW	Tj = + 2 ° C	COPd	3. 65	-
Cdh	0. 99	-				
Pdh	5.1	kW	Tj = + 7 ° C	COPd	5. 05	-
Cdh	0. 99	-				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7. 12	-
Cdh	0. 98	-				
Pdh	8. 0	kW	Tj = bivalent temperature	COPd	3. 65	-
Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	3. 65	-
Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
P _{T0}	0. 015	kW				
P_{SB}	0. 015	kW	Type of energy input		Electrical	
P _{CK}	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
L _{WA}	41 / 54	dBA				
Q_{HE}	1928	kWh				
			•			
	L		Water heating energy efficiency	η wh	139	%
Qelec	3. 820	kWh				
AEC	841	kWh				
NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
e person	empowered	to bind the				
nate / mediu	ım-temperatu	re section.	Manager, Quality Assuarance Department			
	Prated I load at ure T j Pdh Cdh PoFF Pro Cw Cw Cw Cw Cw Cw Cw Cw Cw Cw	Prated 8.0 load at indoor ure T j Pdh Cdh Pdh Cdh Pdh S.0 Cdh Pdh S.1 Cdh Pdh S.1 Cdh O.99 Pdh S.1 Cdh O.99 Pdh S.1 Cdh O.99 Pdh S.1 Cdh O.99 Pdh S.0 Pdh 8.0 Pdh 8.0 Pdh 8.0 Porr 0.015 PsB 0.015 PGK 0.000 variable L Qelec 3.820 AEC 841	Prated 8.0 kW load at indoor ure T j Pdh - kW Cdh - - Pdh 8.0 kW Cdh - - Pdh 8.0 kW Cdh 0.99 - Pdh 5.1 kW Cdh 0.99 - Pdh 4.7 kW Cdh 0.98 - Pdh 8.0 kW Cdh 0.98 - Pdh 8.0 kW Cdh 0.98 - Pdh 8.0 kW Ddh 8.0 kW Gdh 0.98 - Pdh 8.0 kW Div 2 ° C active mode - - PorF 0.015 kW PogK 0.000 kW PogK 0.000 kW Qele	Prated 8.0 kW Prated 8.0 kW Ioad at indoor energy efficiency Ure T j - kW Pdh - kW Cdh - - Pdh - - Pdh 8.0 kW Cdh - - Pdh 8.0 kW Cdh 0.99 - Pdh 5.1 kW Cdh 0.99 - Pdh 4.7 kW Cdh 0.99 - Pdh 8.0 kW Tj = +7 ° C Cdh 0.98 - Tj = operation limit temperature Tj = operation limit temperature Haing water operating limit temperature active mode Supplementary heater Porr 0.015 kW Pog 0.000 kW Pog 0.000 kWh Att / 54 dBA Quelec 3.820 kWh Att / 54	Prated8.0kWPrated8.0kWI load at indoorindoorPater1Pater-Pater	Prated8.0KWIoad at indoorSeasonal space heating energy efficiency η s219Declared coefficient of performance or primary energy ratio for per load at indoor temperature 20 °C and outdoor temperature Tj Tj = -7 °CCond outdoor temperature TjPdhPdhPdh8.0KWTj = -7 °CCOPdCdhPdh5.1KWTj = +7 °CCOPdCdh0.99Pdh4.7KWTj = +12 °CCOPdCdh0.98Pdh8.0KWTj = operation limit temperatureCOPdPdh8.0KWPdh8.0KWPdh8.0KWPdh8.0KWPdh8.0KWPdh8.0KWTbiv2°CToiv mode-C-Pdr0.015KW-Pas0.000KW-Pas0.000KW-Pas0.000KWPas0.000KWPas0.000KWPas0.000-VariableRated air flow rate, outdoors-Law41 / 54dBAQeilec3.820KWhAEC841KWh

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	128	%
Declared capacity for heating for part	: load at	indoor	1	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 te	mperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	2. 27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 19	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 18	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	2.8	kW	Tj = +12 ° C	COPd	5. 79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7. 1	kW	Tj = bivalent temperature	COPd	2. 27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	5053	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - Ma	anisa, Turkey
The identification and signature of th	ne person	empowered	to bind th				
百藤定一				Kenichi SAITO			
17 HUY DE -				Manager, Quality Assuarance Department TURKEY			
· Details and precautions on installation maintena			farmal in the				

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Rated heat output (*) Declared capacity for heating for part temperature 20 ° C and outdoor temperatur Tj = -7 ° C Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = +7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature Tj = operation limit temperature (***)	re Tj Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh	7. 1 0. 99 4. 4 0. 98 5. 0 0. 98 3. 0 0. 96 7. 1	kW kW kW kW 	Seasonal space heating <u>energy efficiency</u> Declared coefficient of performance or prim part load at indoor temperature 20 ° C and Tj = -7 ° C Tj = + 2 ° C Tj = +7 ° C Tj = +12 ° C		perature Tj 3. 20 4. 75 5. 61 5. 61	% - - -
<pre>temperature 20 ° C and outdoor temperatur Tj = -7 ° C Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = +7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	re Tj Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh	7. 1 0. 99 4. 4 0. 98 5. 0 0. 98 3. 0 0. 96 7. 1	- kW - kW - kW	part load at indoor temperature 20 ° C and Tj = -7 ° C Tj = $+2$ ° C Tj = $+7$ ° C	outdoor tem COPd COPd COPd	perature Tj 3. 20 4. 75 5. 61 5. 61	- -
<pre>Tj = - 7 ° C Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh	0.99 4.4 0.98 5.0 0.98 3.0 0.96 7.1	- kW - kW - kW	$Tj = -7 \circ C$ $Tj = +2 \circ C$ $Tj = +7 \circ C$	COPd COPd COPd	3. 20 4. 75 5. 61	-
Degradation co-efficient (**) Tj = + 2 ° C Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Cdh Cdh Cdh Cdh Cdh Cdh Pdh Pdh	0.99 4.4 0.98 5.0 0.98 3.0 0.96 7.1	- kW - kW - kW	Tj = + 2 ° C Tj = + 7 ° C	COPd COPd	4. 75	-
<pre>Tj = + 2 ° C Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature</pre>	Pdh Cdh Cdh Cdh Pdh Cdh Pdh Pdh	4.4 0.98 5.0 0.98 3.0 0.96 7.1	- kW - kW -	Tj = + 7 ° C	COPd	5. 61	-
Degradation co-efficient (**) Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Cdh Pdh Cdh Pdh Pdh	0.98 5.0 0.98 3.0 0.96 7.1	- kW - kW -	Tj = + 7 ° C	COPd	5. 61	-
Tj = + 7 ° C Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Pdh Cdh Pdh Cdh Pdh Pdh	5.0 0.98 3.0 0.96 7.1	- kW -				-
Degradation co-efficient (**) Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Cdh Pdh Pdh	0. 98 3. 0 0. 96 7. 1	- kW -				-
Tj = +12 ° C Degradation co-efficient (**) Tj = bivalent temperature	Pdh Cdh Pdh Pdh	3. 0 0. 96 7. 1	-	Tj = +12 ° C	COPd		
Degradation co-efficient (**) Tj = bivalent temperature	Cdh Pdh Pdh	0. 96 7. 1	-	Tj = +12 ° C	COPd	0.10	
Tj = bivalent temperature	Pdh Pdh	7. 1	-			6.19	-
	Pdh					·	
Tj = operation limit temperature (***)		7 5	kW	Tj = bivalent temperature	COPd	3. 20	-
	-	7.5	kW	Tj = operation limit temperature (***)	COPd	2.63	-
							
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space . heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than a	active mo	de		Supplementary heater		11	
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.5	kW
Thermostat-off mode	P _{T0}	0. 022	kW			11	
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items				1			
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA			·	
Annual energy consumption	Q _{HE}	3636	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details			Į				
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The signature is signed in the average climat	ate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
· Details and precautions on installation, maintenanc	ce and asse	embly can be	found in the	installation and or operation manuals.			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	111	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	4.9	kW	Tj = - 7 ° C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 33	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 80	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1.45	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	6923	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – N	anisa, Turkey
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The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comportatu		TURKEY			
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\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	141	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	4. 8	kW	Tj = - 7 ° C	COPd	3. 43	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = +2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 45	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	7. 40	-
Degradation co-efficient (**)	Cdh	0. 95	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1.40	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	5493	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
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The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
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· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	e found in the	installation and or operation manuals.			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Rated heat output (*) Declared capacity for heating for part cemperature 20 °C and outdoor temperat Tj = -7 °C	ure Tj Pdh		kW	Seasonal space heating energy efficiency Declared coefficient of performance or prim	ηs	162	%
cemperature 20 °C and outdoor temperat	ure Tj Pdh			Declared coefficient of performance or prim	ary energy		
	Pdh				ary chergy	ratio for	
Tj = - 7 ° C				part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
	0.11	-	kW	Tj = − 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	8.0	kW	Tj = + 2 ° C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	3. 48	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	5. 92	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	8. 0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{0FF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0.015	kW				
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
)ther items				<u> </u>			
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	2584	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	139	%
Daily electricity consumption	Qelec	3. 820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	u Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
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Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Rated heat output (*)							
Natou Noat Output (1)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	219	%
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	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	8.0	kW	Tj = + 2 ° C	COPd	3. 65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5. 1	kW	Tj = + 7 ° C	COPd	5. 05	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4. 7	kW	Tj = +12 ° C	COPd	7. 12	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3. 65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3. 65	-
		<u>.</u>					
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°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 _{OFF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 015	kW				
Standby mode	P_{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	1928	kWh				
For heat pump combination heater:				-			
Declared load profile		L		Water heating energy efficiency	η wh	139	%
Daily electricity consumption	Qelec	3. 820	kWh				
Annual electricity consumption	AEC	841	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS M				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	u Bulvari No:	19 Yunusemre – M	anisa, Turkey
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Details and precautions on installation, maintena	ance and ass	embly can be	found in the	installation and or operation manuals.			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	130	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = − 7 ° C	COPd	2. 27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 19	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 18	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	2. 8	kW	Tj = +12 ° C	COPd	5. 79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7. 1	kW	Tj = bivalent temperature	COPd	2. 27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
			-				
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	4972	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 000	kWh				
Annual electricity consumption	AEC	880	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	anisa, Turkey
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百藤建一				Manager, Quality Assuarance Department			
1-1 ridi b+				TURKEY			
. Details and pressutions on installation maintens				installation and or operation manuals			

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Ratedneatoutput (*)Prated8.0KWDeclaredcapacityforheatingforpartloadatindoorDeclaredcapacityforheatingforpartloadatindoorTj = -7° CPdh7.1KWTj = -partloadDegradationco-efficient (**)Cdh0.99-Tj = -Tj = -Tj = + 2° CPdh4.4KWTj = -Tj = -Degradationco-efficient (**)Cdh0.98-Tj = -Tj = + 7° CPdh5.0KWTj = -Degradationco-efficient (**)Cdh0.98-Tj = -Tj = + 7° CPdh3.0KWTj = -Degradationco-efficient (**)Cdh0.98-Tj = -Tj = + 12° CPdh3.0KWTj = -Tj = bivalent temperaturePdh7.1kWTj = -Tj = operation limit temperature (***)Pdh7.5KWTj = -Bivalent temperatureTbiv-7° C° COperatHeatingPower consumption in modes other than active modeSupplementSupplementOff modePoFF0.022KWRated	asonal space heating ergy efficiency coefficient of performance or prin 1 at indoor temperature 20 °C and -7 °C +2 °C +7 °C			-
temperature 20 ° C and outdoor temperature T jpart loadT j = -7 ° CPdh7.1KWDegradation co-efficient (**)Cdh0.99-T j = + 2 ° CPdh4.4KWT j = -Degradation co-efficient (**)Cdh0.98-T j = + 7 ° CPdh5.0KWT j = -Degradation co-efficient (**)Cdh0.98-T j = +12 ° CPdh3.0KWT j = -Degradation co-efficient (**)Cdh0.96-T j = bivalent temperaturePdh7.1KWT j = operation limit temperature (***)Pdh7.5Bivalent temperatureT j -° CPower consumption in modes other than active modeSupplementOff modePOFF0.022KWThermostat-off modePoF0.022KWStandby modeP _{SB} 0.022KW	l at indoor temperature 20 °C and - 7 °C ⊧ 2 °C	outdoor tem COPd	perature Tj 3.20	-
Tj = -7 ° CPdh7.1kWTj = -Degradation co-efficient (**)Cdh 0.99 -Tj = +Tj = + 2 ° CPdh 4.4 kWTj = +Degradation co-efficient (**)Cdh 0.98 -Tj = +Tj = + 7 ° CPdh 5.0 kWTj = +Degradation co-efficient (**)Cdh 0.98 -Tj = +Tj = +12 ° CPdh 3.0 kWTj = +Degradation co-efficient (**)Cdh 0.96 -Tj = +Tj = bivalent temperaturePdh 7.1 kWTj = +Tj = operation limit temperature (***)Pdh 7.5 kWTj = cBivalent temperatureTbiv -7 ° C 0 0 Reference design conditions for spaceTdesignh -10 ° C 1 Power consumption in modes other than active mode 0.022 kW 1 2 Off mode P_{0FF} 0.022 kW 1 2 Standby mode P_{38} 0.022 kW 1 1	- 7 ° C + 2 ° C	COPd	3. 20	-
Degradationco-efficient (**)Cdh 0.99 -Tj = + 2 ° CPdh 4.4 kWTj = 4Degradationco-efficient (**)Cdh 0.98 -Tj = + 7 ° CPdh 5.0 kWTj = 4Degradationco-efficient (**)Cdh 0.98 -Tj = +12 ° CPdh 3.0 kWTj = 4Degradationco-efficient (**)Cdh 0.96 -Tj = bivalent temperaturePdh 7.1 kWTj = 4Tj = operation limit temperature (***)Pdh 7.5 kWTj = 6Bivalent temperatureTbiv -7 ° COperatReference design conditions for spaceTdesignh -10 ° CPuplementPowerconsumption in modes other than active modeSupplementSupplementOff mode P_{0FF} 0.022 kWRatedThermostat-off mode P_{0FF} 0.022 kWType	+ 2 ° C			-
Tj = + 2 ° CPdh4.4kWTj = +Degradation co-efficient (**)Cdh0.98Tj = + 7 ° CPdh5.0kWTj = +Degradation co-efficient (**)Cdh0.98Tj = +12 ° CPdh3.0kWTj = +Degradation co-efficient (**)Cdh0.96Tj = bivalent temperaturePdh7.1kWTj = tTj = operation limit temperature (***)Pdh7.5kWTj = cBivalent temperatureTbiv-7° COperatReference design conditions for space heatingTdesignh-10° CCPower consumption in modes other than active modeSupplementSupplementSupplementOff mode P_{0FF} 0.022kWRatedThermostat-off mode P_{10} 0.022kWType		COPd	4. 75	
Degradationco-efficient (**)Cdh 0.98 $-$ Tj = +7° CPdh 5.0 kWTj = +Degradationco-efficient (**)Cdh 0.98 $-$ Tj = +12° CPdh 3.0 kWTj = +Degradationco-efficient (**)Cdh 0.96 $-$ Tj = bivalent temperaturePdh 7.1 kWTj = bivalent temperature (***)Tj = operation limit temperature (***)Pdh 7.5 kWTj = cBivalent temperatureTbiv -7 ° COperatReference design conditions for spaceTdesignh -10 ° CHeatintPower consumption in modes other than active modeSupplementSupplementOff mode P_{T0} 0.022 kWRatedStandby mode P_{SB} 0.022 kWType		COPd	4. 75	
Tj = + 7 ° CPdh5.0kWTj = +Degradation co-efficient (**)Cdh0.98Tj = +12 ° CPdh3.0kWTj = +Degradation co-efficient (**)Cdh0.96Tj = bivalent temperaturePdh7.1kWTj = tTj = operation limit temperature (***)Pdh7.5kWTj = tBivalent temperatureTbiv-7° COperatReference design conditions for space heatingTdesignh-10° CHeatin temperPower consumption in modes other than active modeSupplementSupplementOff modePorF PorF0.022kWRatedThermostat-off modePorF Standby mode0.022kWType	⊢7 °C			-
Degradationco-efficient (**)Cdh 0.98 $-$ Tj = +12° CPdh 3.0 kWTj = +Degradationco-efficient (**)Cdh 0.96 $-$ Tj = bivalent temperaturePdh 7.1 kWTj = tTj = operation limit temperature (***)Pdh 7.5 kWTj = tBivalent temperatureTbiv -7 ° COperatReference design conditions for spaceTdesignh -10 ° CHeatinPower consumption in modes other than active modeSupplementSupplementSupplementOff mode P_{TF} 0.022 kWRatedThermostat-off mode P_{SB} 0.022 kWType	⊢7 °C			
Tj = +12° CPdh 3.0 kWTj = +12Degradation co-efficient (***)Cdh 0.96 Tj = bivalent temperaturePdh 7.1 kWTj = tTj = operation limit temperature (****)Pdh 7.5 kWTj = tBivalent temperatureTbiv -7 ° COperatReference design conditions for spaceTdesignh -10 ° CHeatingPower consumption in modes other than active modeSupplementSupplementSupplementOff mode P_{T0} 0.022 kWRatedStandby mode P_{SB} 0.022 kWType		COPd	5. 61	-
Degradationco-efficient (***)Cdh 0.96 $-$ Tj = bivalent temperaturePdh 7.1 kWTj = tTj = operation limit temperature (****)Pdh 7.5 kWTj = tBivalent temperatureTbiv -7 ° COperatReference design conditions for space heatingTdesignh -10 ° CHeatinPower consumption in modes other than active modeSupplementSupplementSupplementOff mode P_{0FF} 0.022 kWRatedThermostat-off mode P_{SB} 0.022 kWType			L1	
Tj = bivalent temperaturePdh7.1kWTj = bTj = operation limit temperature (****)Pdh7.5kWTj = bBivalent temperatureTbiv-7° COperationReference design conditions for spaceTdesignh-10° CHeatingPower consumption in modes other than active modeSupplementSupplementSupplementOff modePOFF0.022kWRatedThermostat-off modePoge0.022kWType	+12 ° C	COPd	6.19	-
Tj = operation limit temperature (***)Pdh7.5kWTj = operationBivalent temperatureTbiv-7° COperationReference design conditions for space heatingTdesignh-10° CHeatingPower consumption in modes other than active modeSupplementSupplementSupplementOff mode P_{0FF} 0.022kWRatedThermostat-off mode P_{5B} 0.022kWType				
Bivalent temperature Tbiv -7 ° C Operative Reference design conditions for space Tdesignh -10 ° C Heating Power consumption in modes other than active mode Supplement Supplement Supplement Off mode PoFF 0.022 kW Rated Thermostat-off mode PoFB 0.022 kW Type	pivalent temperature	COPd	3. 20	-
Reference design conditions for space Tdesignh -10 ° C Heating Power consumption in modes other than active mode Supplement Supplement Supplement Supplement Off mode POFF 0.022 kW Rated Thermostat-off mode PT0 0.022 kW Type	operation limit temperature (***)	COPd	2. 63	-
Reference design conditions for space Tdesignh -10 ° C Heating Power consumption in modes other than active mode Supplement Supplement Supplement Supplement Off mode POFF 0.022 kW Rated Thermostat-off mode PT0 0.022 kW Type			LI	
heating Difference Power consumption in modes other than active mode Constraint Supplement Off mode PoFF 0.022 kW Rated Thermostat-off mode PoFF 0.022 kW Type	tion limit temperature	TOL	-25	°C
Power consumption in modes other than active mode Supplement Off mode POFF 0.022 kW Thermostat-off mode PTO 0.022 kW Standby mode PSB 0.022 kW	ng water operating limit rature	WTOL	60	°C
Thermostat-off mode P _{T0} 0.022 kW Standby mode P _{SB} 0.022 kW Type	itary heater			
Standby mode P _{SB} 0.022 kW Type	heat output (*)	Psup	0.5	kW
			II	
Crankcase heater mode P _{CK} 0.000 kW	of energy input		Electrical	
Other items		1		
Capacity control Variable Rated	air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors L _{WA} 41 / 54 dBA				
Annual energy consumption Q _{HE} 3555 kWh				
For heat pump combination heater:				
Declared load profile L Water	heating energy efficiency	η wh	134	%
Daily electricity consumption Qelec 4.000 kWh			I	
Annual electricity consumption AEC 880 kWh				
Contact details				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSE	3 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:1	9 Yunusemre - Ma	nisa, Turkey
The identification and signature of the person empowered to bind the supplier Kenichi S.				
The signature is signed in the average climate / medium-temperature section. Manager, TURKEY	Quality Assuarance Department			
\cdot Details and precautions on installation, maintenance and assembly can be found in the installation a				

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	112	%
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	4.9	kW	Tj = - 7 ° C	COPd	2.60	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 33	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4.3	kW	Tj = + 7 ° C	COPd	4. 80	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0. 95	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1.45	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{T0}	0.022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	6875	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4. 820	kWh				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of the	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comportatu		TURKEY			
· Details and precautions on installation, maintena	ince and asse	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	142	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = − 7 ° C	Pdh	4.8	kW	Tj = - 7 ° C	COPd	3. 43	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5.45	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	7.40	-
Degradation co-efficient (**)	Cdh	0. 95	_				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1.40	_
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6.5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	5444	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4. 820	kWh				
Annual electricity consumption	AEC	1060	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – N	lanisa, Turkey
The identification and signature of th	ne person	empowered	to bind the				
The signature is signed in the sucress sli	mata / madiu	m_tomporatu	ra anation	Kenichi SAITO Manager, Quality Assuarance Department			
The signature is signed in the average cli	mare / medit	um-remberatu	re section.				
· Details and precautions on installation maintena	ince and ass	embly can be	found in the				
Details and precautions on installation, maintena Details and precautions on recycling and/or dis		•		•			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	167	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	8.0	kW	Tj = + 2 ° C	COPd	2.00	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	5. 2	kW	Tj = + 7 ° C	COPd	3. 48	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 ° C	Pdh	4.5	kW	Tj = +12 ° C	COPd	5. 92	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	2.00	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de	I	Supplementary heater		II	
Off mode	P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 015	kW			••	
Standby mode	P _{SB}	0. 015	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	2517	kWh				
For heat pump combination heater:			·				
Declared load profile		L		Water heating energy efficiency	η wh	135	%
Daily electricity consumption	Qelec	3.850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	u 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			
· Details and precautions on installation, maintena				TURKEY			

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

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST17D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	227	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	ary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	8.0	kW	Tj = + 2 ° C	COPd	3. 65	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5. 1	kW	Tj = + 7 ° C	COPd	5. 05	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	4. 7	kW	Tj = +12 ° C	COPd	7. 12	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	8. 0	kW	Tj = bivalent temperature	COPd	3.65	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3. 65	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater		1	
Off mode	P _{0FF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0.015	kW			• • • •	
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items			1				
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q _{HE}	1862	kWh				
For heat pump combination heater:			· · · ·	•			
Declared load profile		L		Water heating energy efficiency	η wh	135	%
Daily electricity consumption	Qelec	3. 850	kWh				
Annual electricity consumption	AEC	846	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorl	u 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			
Details and precautions on installation, maintena				TURKEY			

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	130	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 °C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	2. 27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	3. 19	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 18	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	2. 8	kW	Tj = +12 ° C	COPd	5. 79	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7. 1	kW	Tj = bivalent temperature	COPd	2. 27	-
Tj = operation limit temperature (***)	Pdh	7.4	kW	Tj = operation limit temperature (***)	COPd	1.83	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.6	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	4972	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – Ma	nisa, Turkey
The identification and signature of the	ne person	empowered	to bind th	e supplier: Kenichi SAITO			
百藤建一				Manager, Quality Assuarance Department			
M MOL D+				TURKEY			
· Detaile and presentions on installation maintance				installation and or operation manuals			

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η s	183	%
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 T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	7.1	kW	Tj = - 7 ° C	COPd	3. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	4.4	kW	Tj = + 2 ° C	COPd	4. 75	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	5. 61	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.0	kW	Tj = +12 ° C	COPd	6. 19	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3. 20	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	2. 63	_
			•				
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdes i gnh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de	I	Supplementary heater		II	
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.5	kW
Thermostat-off mode	P _{T0}	0. 022	kW			LL	
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	3555	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	134	%
Daily electricity consumption	Qelec	4. 080	kWh				
Annual electricity consumption	AEC	898	k₩h				
Contact details			· · ·	-			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MAN	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	e person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average clim	nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			

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

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	112	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = − 7 ° C	Pdh	4.9	kW	Tj = - 7 ° C	COPd	2. 60	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 2 ° C	COPd	3. 33	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 3	kW	Tj = + 7 ° C	COPd	4. 80	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 1	kW	Tj = +12 ° C	COPd	6.65	-
Degradation co-efficient (**)	Cdh	0. 95	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	1. 45	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1.35	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.45	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	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 _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	Q_{HE}	6875	kWh				
For heat pump combination heater:				·			
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				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	ım-temperatu	re section	Manager, Quality Assuarance Department			
				TURKEY			
· Details and precautions on installation, maintena	ince and asso	embly can be	found in the				
· Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	ηs	142	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 $^\circ$ C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	4. 8	kW	Tj = - 7 ° C	COPd	3. 43	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 2 ° C	Pdh	3.8	kW	Tj = + 2 ° C	COPd	4. 15	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = + 7 ° C	Pdh	4. 5	kW	Tj = + 7 ° C	COPd	5. 45	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 ° C	Pdh	3.1	kW	Tj = +12 ° C	COPd	7. 40	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	6. 7	kW	Tj = bivalent temperature	COPd	2. 00	-
Tj = operation limit temperature (***)	Pdh	4. 7	kW	Tj = operation limit temperature (***)	COPd	1.40	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	6. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2. 00	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than	active mo	de		Supplementary heater			
Off mode	P_{0FF}	0. 022	kW	Rated heat output (*)	Psup	3. 3	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 54	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	5444	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	109	%
Daily electricity consumption	Qelec	4. 750	kWh				
Annual electricity consumption	AEC	1044	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre - M	lanisa, Turkey
The identification and signature of th	ne person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Manager, Quality Assuarance Department			
		comportatu		TURKEY			
· Details and precautions on installation, maintena	nce and asse	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or dis	posal at end-	of-life can be	e found in the	installation and or operation manuals.			

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Symbol	Value	Unit	Item	Symbol	Value	Unit	
Prated	8.0	kW	Seasonal space heating energy efficiency	η s	167	%	
load at	indoor		Declared coefficient of performance or prim	ary 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	8.0	kW	Tj = + 2 ° C	COPd	2.00	-	
Cdh	1.00	-					
Pdh	5. 2	kW	Tj = + 7 ° C	COPd	3. 48	-	
Cdh	0. 99	-					
Pdh	4.5	kW	Tj = +12 ° C	COPd	5. 92	-	
Cdh	0. 98	-					
Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.00	-	
Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	2.00	-	
Tbiv	2	°C	Operation limit temperature	TOL	-25	°C	
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
active mo	de		Supplementary heater		ll		
P _{0FF}	0. 015	kW	Rated heat output (*)	Psup	0.0	kW	
P _{T0}	0.015	kW					
P_{SB}	0. 015	kW	Type of energy input		Electrical		
Рск	0.000	kW					
	variable		Rated air flow rate, outdoors	-	2220	m³/h	
L_{WA}	41 / 54	dBA					
Q_{HE}	2517	kWh					
		·					
	L		Water heating energy efficiency	η wh	139	%	
Qelec	3.820	kWh					
AEC	841	kWh					
				u Bulvari No∷	19 Yunusemre – Ma	anisa, Turkey	
e person	empowered	to bind the					
nate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department				
			TURKEY				
	load at ure T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Tbiv Tbiv Tdesignh active mo P _{OFF} P _{TO} P _{SB} P _{CK} C UFACTURING T e person	Ioad at indoor Ioad at indoor ure T j Pdh - Cdh - Pdh 8.0 Cdh 1.00 Pdh 5.2 Cdh 0.99 Pdh 4.5 Cdh 0.99 Pdh 4.5 Cdh 0.98 Pdh 8.0 Pdh 8.0 Pdh 8.0 Pdh 8.0 Pdh 8.0 Pdh 0.015 PorF 0.015 PorK 0.000 Variable L L QHE 2517 L Qelec 3.820 AEC 841	Ioad at indoor ure T j Pdh - Pdh - Pdh - Pdh - Pdh - Pdh 8.0 KW Cdh Pdh 5.2 Pdh 5.2 Pdh 5.2 Pdh 4.5 Cdh 0.99 Pdh 8.0 KW Cdh Qh 9.9 Pdh 8.0 KW KW Pdh 8.0 KW 8.0 KW 2 C C Idesignh 2 C C Gotive mode KW PorF 0.015 KW PorK O.000 KW Pck 0.000 Variable KWh L Qelec J. 820 KWh <tr tr=""> AEC 841</tr>	Prated 6.0 kW load at indoor energy efficiency ure T j	Prate 8.0 KW energy efficiency 7/8 Ioad at indoor at indoor part load at indoor temperature 20 ° C and outdoor 20 ° C and and 20 ° C and 2	Prize 0.0 KW energy efficiency 7/5 10/7 Ioad at indoor are T j Declared coefficient of performance or primary energy ratio for art is indoor temperature 20 ° C and outdoor temperature Tj Pdh -	

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

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM80YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Prated	8.0	kW	Seasonal space heating energy efficiency	η s	227	%
load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
re Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Cdh	-	-				
Pdh	8.0	kW	Tj = + 2 ° C	COPd	3. 65	-
Cdh	0. 99	-				
Pdh	5. 1	kW	Tj = + 7 ° C	COPd	5.05	-
Cdh	0. 99	-				
Pdh	4. 7	kW	Tj = +12 ° C	COPd	7. 12	-
Cdh	0. 98	-				
Pdh	8. 0	kW	Tj = bivalent temperature	COPd	3. 65	-
Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	3.65	-
I						
Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Tdes i gnh	2	°C	Heating water operating limit temperature	WTOL	60	°C
active mo	de		Supplementary heater			
P _{0FF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
P _{T0}	0. 015	kW				
P _{SB}	0. 015	kW	Type of energy input		Electrical	
P _{CK}	0. 000	kW				
	variable		Rated air flow rate, outdoors	-	2220	m³/h
L_{WA}	41 / 54	dBA				
Q_{HE}	1862	kWh				
	L		Water heating energy efficiency	η wh	139	%
Qelec	3. 820	kWh				
AEC	841	kWh				
JFACTURING T	URKEY JOINT ST	FOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∶1	19 Yunusemre – Ma	nisa, Turkey
person	empowered t	to bind the				
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	rre T j Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh Pdh Pdh Tbiv Tdesignh active mo P _{OFF} P _{TO} P _{SB} P _{CK} C UFACTURING TH person f ate / mediu	Pdh - Cdh - Pdh 8.0 Cdh 0.99 Pdh 5.1 Cdh 0.99 Pdh 4.7 Cdh 0.99 Pdh 4.7 Cdh 0.98 Pdh 8.0 Pdh 8.0 Pdh 8.0 Pdh 8.0 Pdh 8.0 Pdh 0.015 Pro 0.015 PsB 0.015 PcK 0.000 variable L Qelec AEC 841 userson empowered to	rre T j Pdh	load at indoorDeclared coefficient of performance or primper to ad at indoor temperature 20 ° C andPdh $-$ Pdh $-$ Pdh $-$ Pdh 8.0 Cdh $-$ Pdh 5.1 KWCdhCdh 0.99 Pdh 5.1 KWCdhCdh 0.99 Pdh 4.7 KWCdhCdh 0.98 Pdh 8.0 KWPdh 8.0 KWPorr 0.015 KWPorr 0.015 KWPorr 0.015 KWPorr 0.000 KWPorr 0.000 KWPorrQelec 3.820 KWhVEACTURING TURKEY JOINT STOCK COMPANYManisa 0SB 4.Kisim Kecilikoyoeb Mah. Ahmet Nazif ZorPerson empowered to bind the supplier:Kenichi SAITOAt / medium-temperature section.Manager, Quality Assuarance Department	Ioad at indoorDeclared coefficient of performance or primary energy part load at indoor temperature 20 ° C and outdoor tem Tj = -7 ° C COPdPdhPdh8.0KWCdhPdh5.1KWCdh0.99-Pdh5.1KWCdh0.99-Pdh4.7KWCdh0.98-Pdh8.0KWPdh8.0KWPdh8.0KWPdh8.0KWPdh8.0KWPdh8.0KWPdh2° CToiv2° CTdesignh2° CPorr0.015KWPorr0.015KWPorr0.015KWPorr0.000KWPorr0.000KWPorr1862KWhRated air flow rate, outdoors-LKater heating energy efficiency7 whGelec3.820KWhAEC841KWhVariableKWhVariableKWhVariableKenchi SAITOEFACTURING TURKEY JOINT STOCK COMPANYMenisa 088 4.Kisim Kecilikoyosh Mah. Amet Nazif Zorlu Bulvari No:repron empowered to bind the supplier: Kenchi SAITOManager, Quality Assuarance Department TURKEY	load at indoorload at indoorre T jPdh $-$ KNNCdh $-$ -Pdh $\overline{0.0}$ KNNCdh $-$ -Pdh $\overline{0.0}$ KNNCdh $-$ -Pdh $\overline{5.1}$ KNNCdh 0.99 $-$ T j = +2 ° CCOPdCdh 0.99 $-$ T j = +7 ° CCOPd-Cdh 0.98 $-$ T j = +7 ° CCOPd-Cdh 0.98 $-$ T j = +12 ° CCOPd3.65Cdh 0.98 $-$ T j = bivalent temperatureCOPd3.65Tbiv 2 ° CCOperation limit temperatureCOL -25 Tdesignh 2 ° CCOperation limit temperatureTUL -25 Part 0.015 KNRated heat output (*)Psup 0.0 0.01 Part 0.015 KNType of energy inputElectricalPart 0.000 KNWVariab GS 4.Kisin Kecilikoyab Mah. Amet Nazif Zorlu Bulvari No:19 Yunusemre - MeUKACURING TURKEY JOINT STOCK COMPANYManisa GS 84.Kisin Kecilikoyab Mah. Amet Nazif Zorlu Bulvari No:19 Yunusemre - MeLLKenichi SATTOManise GS 4.Kisin Kecilikoyab Mah. Amet Nazif Zorlu Bulvari No:19 Yunusemre - Me<

· 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.