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Mitsubishi Electric Erp Directive Related Product Information: erp.mitsubishielectric.eu/erp PRODUCT FICHE Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals This information is based on EU regulation No 811/2013 and No 813/2013.

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Water heating energy efficiency under warmer climate conditions die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen Pafficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus Pafficienza energetica di ris Vater heating energy efficiency under warmer climate conditions die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen Pafficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus Pafficienza energetica di ris de energie-efficientie voor waterverwarming onder warmere klimaato-olosubtiessa Energieffektivitet vid vartenuppvärmning under varmare klimatförhållanden energiefektiviteten ved vandopvarmning under varmere klimatorhold a eficiência energética do i vedenlämmit/ksen energiatehokkuus lämpimissä ilmasto-olosubteissa energetická účinnost ohřevu vody za teplejších klimatičkých podmínek energiefektiviteten ved vandopvarmning under varmere kapa npu no-ronnu knuwaruv+uv ycnoeux efektywność energetyczna Sound power level L _{WA} outdoor der Schallleistungspegel L _{WA} im Freien le niveau de puissance acoustique L _{WA} à l'extérieur il ivello di poterza sonora Net geludsvermogensniveau L _{WA} bulten Ljudefektrivián L _{WA} i udorhuka lorvel de poténcia sonora On rivel de poténcia sonora			енен уей уапооруантный иноет консете кы эфективност при подгряване на вода при
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Image: Sound power level L _{WA} outdoor der Schallteistungspegel L _{WA} im Freien le niveau de puissance acoustique L _{WA} à l'extérieur Sound power level L _{WA} outdoor Ljudeffektnivân L _{WA} i utomhus lydeffektnivân L _{WA} i utomhus	vedenlämmi	vody za	ефективност при подгряване на вода при по-топли климатични
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	Fenañol
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	unidad exterior Eξωτερική μονάδα
	unidad interior Ecrumpokh μονάδα
	- la aplicación de media temperatura In εφαριμογή σε μέση θεριμοκρασία
	- la aplicación de baja temperatura η εφαρμογή σε χαμηλή θερμοκρασία
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n klimatu edie)	ficiencia energética del caldeo de aqua(en condiciones climáticas medias)
édias) owanego)	η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) -
	el nivel de potencia acústica L _{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
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ı calde	eficiencia energética de caldeo de agua en condiciones climáticas má
is quentes lo	η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες -
	el nivel de potencia acústica L _{vin} , en exteriores η στάθμη ηχητικής ισχύος L _{vin} εξωτερικού χώρου

Model(s):	Outdoor unit:	PUZ-SWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	134	%
Declared capacity for heating for par-	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor tempera	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = − 7 ° C	Pdh	12. 4	kW	Tj = - 7 ° C	COPd	1. 98	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3. 40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	6.3	kW	Tj = + 7 ° C	COPd	4. 61	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.9	kW	Tj = +12 ° C	COPd	6. 28	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	12. 4	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	1. 75	-
			•				
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	3.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	8473	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	123	%
Daily electricity consumption	Qelec	4. 380	kWh				
Annual electricity consumption	AEC	965	kWh				
Contact details				•			
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
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百藤建一				Kenichi SAITO Manager, Quality Assuarance Department			
121 HOLE DE -				Manager, Quality Assuarance Department TURKEY			
· Dataile and proceptions on installation maintang				installation and or operation manuals			

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

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM140YAA
	Indoor unit:	EHST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	ηs	175	%
Declared capacity for heating for par	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor tempera	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	12. 4	kW	Tj = - 7 ° C	COPd	2. 70	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.6	kW	Tj = + 2 ° C	COPd	4. 51	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.91	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 1	kW	Tj = +12 ° C	COPd	7.03	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12. 4	kW	Tj = bivalent temperature	COPd	2. 70	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	2.40	-
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 _{OFF}	0. 022	kW	Rated heat output (*)	Psup	3.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	6517	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	123	%
Daily electricity consumption	Qelec	4. 380	kWh				
Annual electricity consumption	AEC	965	kWh				
Contact details							
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The signature is signed in the average cli	ance and ass	embly can be	e found in the	Manager, Quality Assuarance Department TURKEY 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-SWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	104	%
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	8.5	kW	Tj = - 7 ° C	COPd	2. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.5	kW	Tj = +12 ° C	COPd	6.60	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10. 7	kW	Tj = bivalent temperature	COPd	1.60	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	1. 20	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	10. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.60	-
Bivalent temperature	Tbiv	-13	°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	6.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	12867	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4.860	kWh				
Annual electricity consumption	AEC	1070	kWh				
Contact details							
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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-SWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	131	%
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 temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	8.5	kW	Tj = - 7 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.6	kW	Tj = + 7 ° C	COPd	5. 10	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	7.60	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operation limit temperature (***)	Pdh	9. 2	kW	Tj = operation limit temperature (***)	COPd	1. 50	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.90	-
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	4.8	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	10275	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4. 860	kWh				
Annual electricity consumption	AEC	1070	kWh				
Contact details		-					
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	ANUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – M	anisa, Turkey
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The signature is signed in the suproge sli	mata / madiu	m_tomporatu	ra anation	Kenichi SAITO Manager, Quality Assuarance Department			
The signature is signed in the average cli	mare / meult			TURKEY			
· Details and precautions on installation, maintena	ance 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-SWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	ηs	149	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	14. 0	kW	Tj = + 2 ° C	COPd	1.90	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	8. 8	kW	Tj = + 7 ° C	COPd	3. 10	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = +12 ° C	Pdh	5.5	kW	Tj = +12 ° C	COPd	5.40	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.90	-
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. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable	-	Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	4934	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	130	%
Daily electricity consumption	Qelec	4. 030	kWh				
Annual electricity consumption	AEC	888	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
The identification and signature of the	ie person	empowered	to bind the	e supplier; Kenichi SAITO			
The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
Details and precautions on installation, maintena Details and precautions on recycling and/or dis				installation and or operation manuals.			

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

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM140YAA
	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.

Rated heat output (*)Prated14.0KWDeclared capacity for heating for part load at indoorindoorindoortemporature 20 ° C and outdoor temporature T jj- $T j = -7 ° C$ Pdh- $W = 7 ° C$ Pdh-Degradation co-efficient (**)Odh-T j = + 2 ° COdh-T j = + 2 ° CPdh-Degradation co-efficient (**)Odh-T j = + 7 ° CPdh-Degradation co-efficient (**)Odh0.99T j = + 7 ° CPdh6.0Begradation co-efficient (**)Odh0.99Degradation co-efficient (**)Odh0.97T j = +12 ° COdh0.97T j = +12 ° COdh0.97T j = - 7 ° COdh-T j = + 12 ° COdh0.97T j = - 7 ° COdh-T j = + 7 ° CPdh-Degradation co-efficient (**)Odh0.97T j = - 7 ° COdh-T j = - 7 ° COdhDegradation co-efficient (**)OdhDegradation co-efficient (**)OdhD grantiant temperaturePdhT j = - 7 ° COdhD granting T init temperaturePdhD granting T init temperaturePdhD granting T init temperaturePdhD granting T init temperaturePdhD granting T init temperaturePdiD granting T init temperaturePdiD findePag	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
temperature 20 ° C and outdoor temperature T jTj = -7 ° CPah-Tj = -7 ° CPah-Degradation co-efficient (++)Cah-Tj = +2 ° CPah1.00Tj = +7 ° CPah1.00Tj = +7 ° CPah9.0MWDegradation co-efficient (++)CahDegradation co-efficient (++)Cah0.99Tj = +12 ° CPah5.1MWDegradation co-efficient (++)CahDegradation co-efficient (++)Cah0.97Tj = +12 ° CPah1.40MWTj = coperation limit temperatureCOPdDegradation co-efficient (++)Cah0.97Tj = to valent temperaturePahTj = coperation limit temperatureCOPdStavient temperaturePahNumerican limit temperatureCOPdStavient temperatureToiPower consumption in addes other than active modeCoperation limit temperatureOff modePai0.022MWNumericanCapacity controlVariableSund cover level. indoors/cutcorsLaiAnnual energy consumptionQelecAnd cover level. indoors/cutcorsLaiDeclared load profileLDeclared load profileL </td <td>Rated heat output (*)</td> <td>Prated</td> <td>14. 0</td> <td>kW</td> <td></td> <td>ηs</td> <td>217</td> <td>%</td>	Rated heat output (*)	Prated	14. 0	kW		ηs	217	%
$ \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			nary energy	ratio for	
Degradation co-efficient (++)OdhTj = + 2 ° CPdh14.0kWTj = + 2 ° COOPd3.10Degradation co-efficient (++)Odh1.00-Fj = + 7 ° COOPd5.01Degradation co-efficient (++)Odh0.99+Fj = + 7 ° COOPd5.01-Tj = +12 ° CPdh5.1KWTj = + 7 ° COOPd7.01-Degradation co-efficient (++)Odh0.97Tj = +12 ° COOPd3.10-Tj = bivalent temperaturePdh14.0KWTj = oparation limit temperatureOOPd3.10-Tj = oparation limit temperaturePdh14.0KWTj = oparation limit temperatureOOPd3.10-Sivalent temperatureTbiv2° CCPde10.0Bivalent temperatureTbiv2° CCPde10.0-Beating0.022KWVPaup0.0KWNULPoer consumption in modePau0.022KWType of energy inputElectricalOff modePau0.000KWNULPaup0.0KWStandy modePau0.000KWNulPaup0.0KWOther itemsOgeration limit temperature detains-2640 π^2/h Sourd oper level, indoors/outdoorsLM41/58dBA-2640 π^2/h Annual energy consumption <td< td=""><td>temperature 20 °C and outdoor temperat</td><td>ture T j</td><td></td><td></td><td>part load at indoor temperature 20 $^\circ$ C and</td><td>outdoor ten</td><td>nperature Tj</td><td></td></td<>	temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	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	-	-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	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	14. 0	kW	Tj = + 2 ° C	COPd	3. 10	-
Degradation co-efficient (**) Odh 0.99 - Tj = +12 * C ODPd 5.1 KW Degradation co-efficient (**) Odh 0.97 - Tj = bivalent temperature Pdh 14.0 KW Tj = operation limit temperature Pdh 14.0 KW Tj = operation limit temperature Pdh 14.0 KW Bivalent temperature Toi 2 C Reference design conditions for space Toix 2 C Power consumption in modes other than active mode Dupration limit temperature TOL -25 C Off mode Powr 0.022 KW Reted heat output (*) Poup 0.0 KW Crankosas heater mode Powr 0.0022 KW Type of energy input Electrical Electrical Other items C Annual energy consumption Quet adapter	Degradation co-efficient (**)	Cdh	1.00	-				
Tj = +12 ° C Pdh 5.1 KW T j = +12 ° C ODPd 7.01 - Tj = bivalent temperature Pdh 14.0 KW - T j = bivalent temperature ODPd 3.10 - Tj = operation limit temperature Pdh 14.0 KW T j = operation limit temperature ODPd 3.10 - Bivalent temperature Tbiv Z ° C Operation limit temperature TOL -25 ° C Bivalent temperature Tobiv Z ° C Operation limit temperature TOL -25 ° C Power consumption in modes other than active mode Outperature Supplementary heater OU -25 ° C Off mode Port 0.022 KW Type of energy input Electrical - Crankcase heater mode Pox 0.000 kW Type of energy input Electrical - 2640 m³/h Sound power level, indoors/outdors Las 41/ 58 dBA Annual energy consumption Que 3407 KW Misulsski ELECIRIC AIR COMDITIONING SYSTEMS MANEFACTRENG TUREY JOINT STOCK COMPANY <t< td=""><td>Tj = + 7 ° C</td><td>Pdh</td><td>9.0</td><td>kW</td><td>Tj = + 7 ° C</td><td>COPd</td><td>5. 01</td><td>-</td></t<>	Tj = + 7 ° C	Pdh	9.0	kW	Tj = + 7 ° C	COPd	5. 01	-
Degradation co-efficient (**) Odh 0.97 - Tj = bivalent temperature Pdh 14.0 KW Tj = bivalent temperature ODPd 3.10 - Tj = operation limit temperature (***) Pdh 14.0 KW Tj = operation limit temperature ODPd 3.10 - Bivalent temperature (***) Pdh 14.0 KW Tj = operation limit temperature ODPd 3.10 - Bivalent temperature (***) Pdh 14.0 KW Tj = operation limit temperature ODPd 3.10 - Bivalent temperature (***) Pdh 2 * C Depretion limit temperature TOL -25 * C Bivalent temperature Tosice Tdesigh 2 * C Heating water operating limit temperature TOL -25 * C Power consumption in modes other than active mode Por 0.022 KW Rated heat output (*) Psup 0.0 KW Thermostat-off mode Por 0.022 KW Type of energy input Electrical Electrical Crankcase heater mode Por 0.022 KW Ty	Degradation co-efficient (**)	Cdh	0.99	-				
Tj = bivalent temperature Pdh 14.0 KW Tj = operation limit temperature (***) Pdh 14.0 KW Bivalent temperature (***) Pdh 14.0 KW Bivalent temperature (***) Pdh 2 C Reference design conditions for space Tdesignh 2 C Power consumption in modes other than active mode Operation limit temperature TU -25 Off mode Power 0.022 kW Rated new motion temperature WTOL 60 * C Bupplementary heater 0.022 kW Rated heat output (*) Psup 0.0 kW Other items 0.000 kW Type of energy input Electrical m²/h Capacity control variable 3407 kWh Rated air flow rate, outdoors - 2640 m²/h Sound power level, indoors/outdoors Law 41 / 58 dBA Annual energy consumption Qee 3807 KWh Daily electricity consumption Qee 4.030 kWh Mater heating energy efficiency n/h 130 % Capacity con	Tj = +12 ° C	Pdh	5. 1	kW	Tj = +12 ° C	COPd	7. 01	-
Tj = operation limit temperature (***) Pdh 14.0 KW Tj = operation limit temperature (***) Pdh 14.0 KW Bivalent temperature mean for space Tbiv 2 ° C Bivalent temperature mean for space Tdesignh 2 ° C Power consumption in modes other than active mode Operation limit temperature TOL -25 ° C Off mode Port 0.022 KW Rated heat output (*) Psup 0.0 kW Thermostat-off mode Port 0.022 kW Rated heat output (*) Psup 0.0 kW Crankcase heater mode Port 0.000 kW Type of energy input Electrical m²/h Control variable Sand Rated air flow rate, outdoors - 2640 m²/h Soud power level, indoors/outdoors Lm 41 / 58 dBA Annual energy consumption 0.ed 3407 Wh For heat pump combination heater: Declared lead profile L Water heating energy efficiency n wh 130 % Daily electricity consumption AEC 888	Degradation co-efficient (**)	Cdh	0.97	-				
Bivalent temperature heating Tbiv 2 C Bivalent temperature heating Tdesign 2 C Power consumption in modes other than active mode 0.022 kW Off mode Porp 0.022 kW Thermostat-off mode Porp 0.022 kW Standby mode Pos 0.022 kW Grankcase heater mode Pox 0.000 kW Other items 0.000 kW Type of energy input Electrical Gapacity control variable 0.000 kWh Type of energy input Electrical Sound power level, indoors/outdoors LmA 41 / 58 dBA dBA m²/h Annual energy consumption Qie 4007 kWh Water heating energy efficiency n/wh 130 % Contact details MITSUBISHI LEETRIC AR CONDITIONING SYSTEMS MANUFACTURING TURKEY JUINT STOCK COMPANY Manisa GS8 4.Kisin Kecilikoyab Mah. Amet Mazif Zorlu Bulvari No:19 Yunuseme - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kanager, Quality Assuarance Department TURKEY	Tj = bivalent temperature	Pdh	14. 0	kW	Tj = bivalent temperature	COPd	3. 10	-
Reference design conditions for space Tdesignh 2 ° C Heating water operating limit WTOL 60 ° C Power consumption in modes other than active mode Supplementary heater Supplementary heater Supplementary heater Supplementary heater Supplementary heater Off mode Porr 0.022 kW Rated heat output (*) Psup 0.0 kW Thermostat-off mode Pro 0.022 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Other items	Tj = operation limit temperature (***)	Pdh	14. 0	kW	Tj = operation limit temperature (***)	COPd	3. 10	-
Reference design conditions for space Tdesignh 2 ° C Heating water operating limit WTOL 60 ° C Power consumption in modes other than active mode Supplementary heater Supplementary heater Supplementary heater Supplementary heater Supplementary heater Off mode Porr 0.022 kW Rated heat output (*) Psup 0.0 kW Thermostat-off mode Pro 0.022 kW Type of energy input Electrical Crankcase heater mode Pox 0.000 kW Type of energy input Electrical Other items				-				
heating itestign 2 0 Power consumption in modes other than active mode Itemperature It	Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Power consumption in modes other than active mode Supplementary heater Off mode PorF 0.022 kW Thermostat-off mode Pro 0.022 kW Standby mode Psg 0.022 kW Crankcase heater mode Pox 0.000 kW Other items Capacity control variable Rated air flow rate, outdoors - 2640 m³/h Sound power level, indoors/outdoors LwA 41 / 58 dBA Annual energy consumption Qie 3407 kWin For heat pump combination heater: Declared load profile L		Tdes i gnh	2	°C		WTOL	60	°C
Thermostat-off mode PTO 0.022 kW Standby mode Pss 0.022 kW Crankcase heater mode Pox 0.000 kW Other items 0.000 kW Type of energy input Electrical Capacity control variable Rated air flow rate, outdoors - 2640 m³/h Sound power level, indoors/outdoors LMA 41 / 58 dBA Annual energy consumption QNE 3407 kWh For heat pump combination heater: Declared load profile L L Water heating energy efficiency 7 wh 130 % Daily electricity consumption Qelec 4.030 kWh Marisa 0SB 4.Kisim Kecilikoyosb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunuseme - Manisa, Turkey MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4.Kisim Kecilikoyosb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunuseme - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY TURKEY		active mo	de					
Standby mode P ₅₈ 0.022 kW Type of energy input Electrical Crankcase heater mode P _{0K} 0.000 kW Type of energy input Electrical Other items Capacity control variable Rated air flow rate, outdoors - 2640 m³/h Sound power level, indoors/outdoors L _{NA} 41 / 58 dBA - 2640 m³/h Annual energy consumption Q _{HE} 3407 kWh - 2640 m³/h For heat pump combination heater: - Declared load profile L Water heating energy efficiency η wh 130 % Daily electricity consumption Qelec 4.030 kWh Manual electricity consumption % 888 kWh - 130 % MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4. Kisim Kecilikoyosb Mah. Amet Nazif Zorlu Bulvari No:19 Yunusemer - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO Manager, Quality Assuarance Department TURKEY	Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Crankcase heater mode P _{OX} 0.000 kW Other items Capacity control variable Rated air flow rate, outdoors - 2640 m³/h Sound power level, indoors/outdoors L _{MA} 41 / 58 dBA Annual energy consumption QHE 3407 kWh For heat pump combination heater: Declared load profile L Water heating energy efficiency η wh 130 % Daily electricity consumption Qelec 4.030 kWh Marisa 088 4.Kisim Kecilikoyosb Meh. Atmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa. Turkey MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 088 4.Kisim Kecilikoyosb Meh. Atmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa. Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY	Thermostat-off mode	P _{T0}	0. 022	kW				
The items Capacity control variable Capacity control variable Rated air flow rate, outdoors - 2640 m³/h Sound power level, indoors/outdoors L _{KA} 41 / 58 dBA ABA - 2640 m³/h Annual energy consumption Q _{HE} 3407 kWh Rated air flow rate, outdoors - 2640 m³/h For heat pump combination heater: Declared load profile L Variable Water heating energy efficiency 7/wh 130 % Daily electricity consumption Qelec 4.030 kWh Water heating energy efficiency 7/wh 130 % 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 - Manisa. Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY TURKEY	Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Capacity control variable Rated air flow rate. outdoors - 2640 m³/h Sound power level, indoors/outdoors L _{WA} 41 / 58 dBA	Crankcase heater mode	P _{CK}	0.000	kW				
Capacity control Variable Sound power level, indoors/outdoors L _{MA} 41 / 58 dBA Annual energy consumption Q _{HE} 3407 kWh For heat pump combination heater: Declared load profile L Water heating energy efficiency 7 wh 130 % Daily electricity consumption Qelec 4.030 kWh KWh Manual electricity consumption % 130 % Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4.Kisim Kecilikoyosh Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY TURKEY	Other items							
Annual energy consumption Q _{HE} 3407 kWh For heat pump combination heater: Declared load profile L Water heating energy efficiency η wh 130 % Daily electricity consumption Qelec 4.030 kWh Manual electricity consumption % 130 % 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 - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY TURKEY	Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
For heat pump combination heater: Declared load profile L Water heating energy efficiency η wh 130 % Daily electricity consumption Qelec 4.030 kWh Manual electricity consumption AEC 888 kWh Contact details MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa OSB 4.Kisim Kecilikoyosb Mah. Atmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY	Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Declared load profile L Water heating energy efficiency nwh 130 % Daily electricity consumption Qelec 4.030 kWh Muster heating energy efficiency nwh 130 % Annual electricity consumption AEC 888 kWh Muster heating energy efficiency nwh 130 % 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 - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY TURKEY	Annual energy consumption	\mathbf{Q}_{HE}	3407	k₩h				
Daily electricity consumption Qelec 4.030 kWh Annual electricity consumption AEC 888 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 - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY TURKEY	For heat pump combination heater:							
Annual electricity consumption AEC 888 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 - Manisa, Turkey The identification and signature of the person empowered to bind the supplier; Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY TURKEY	Declared load profile		L		Water heating energy efficiency	η wh	130	%
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 - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. TURKEY	Daily electricity consumption	Qelec	4. 030	k₩h				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY Manisa 0SB 4. Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY	Annual electricity consumption	AEC	888	kWh				
The identification and signature of the person empowered to bind the supplier: Kenichi SAITO The signature is signed in the average climate / medium-temperature section. TURKEY	Contact details							
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY						lu Bulvari No:	19 Yunusemre – N	lanisa, Turkey
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department TURKEY	The identification and signature of the	ne person	empowered	to bind the				
	The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department			
Details and precaditions on installation, maintenance and assembly can be round in the installation and or operation inditudis.	Details and precautions on installation, maintena	ince and ass	embly can be	e found in the				

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

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	135	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	12. 4	kW	Tj = - 7 ° C	COPd	1. 98	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3. 40	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	6. 3	kW	Tj = + 7 ° C	COPd	4. 61	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3. 9	kW	Tj = +12 ° C	COPd	6. 28	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	12. 4	kW	Tj = bivalent temperature	COPd	1. 98	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	1. 75	-
			•				
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	3.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q_{HE}	8392	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	123	%
Daily electricity consumption	Qelec	4. 380	k₩h				
Annual electricity consumption	AEC	965	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 MOLE DE -				TURKEY			
Details and propertiens on installation maintance			6 1 1 1	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-SWM140YAA
	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	14.0	kW	Seasonal space heating energy efficiency	ηs	177	%
Declared capacity for heating for par	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor tempera	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	12. 4	kW	Tj = - 7 ° C	COPd	2. 70	-
Degradation co-efficient (**)	Cdh	1.00	_				
Tj = + 2 ° C	Pdh	7.6	kW	Tj = + 2 ° C	COPd	4. 51	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.91	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 1	kW	Tj = +12 ° C	COPd	7.03	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12. 4	kW	Tj = bivalent temperature	COPd	2. 70	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	2.40	-
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	3.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	6437	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	123	%
Daily electricity consumption	Qelec	4. 380	kWh				
Annual electricity consumption	AEC	965	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 TURKEY			
The identification and signature of the	ne person mate / mediu nnce and ass	empowered	to bind the resection.	e supplier; Kenichi SAITO Manager, Quality Assuarance Department TURKEY installation and or operation manuals.	u duivari No:	ı∍ runusemre - M	anisă, lui

· 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-SWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	ηs	105	%
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 ten	nperature Tj	
Tj = - 7 ° C	Pdh	8.5	kW	Tj = - 7 ° C	COPd	2. 20	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4.5	kW	Tj = +12 ° C	COPd	6.60	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10. 7	kW	Tj = bivalent temperature	COPd	1.60	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1. 20	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	10. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.60	-
Bivalent temperature	Tbiv	-13	°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	6.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	12819	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4.860	kWh				
Annual electricity consumption	AEC	1070	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre – M	anisa, Turkey
The identification and signature of th	ie person	empowered	to bind the				
The signature is signed in the average cli	mate / mediu	ım-temperatu	re section	Kenichi SAITO Manager, Quality Assuarance Department			
				TURKEY			
· Details and precautions on installation, maintena	nce and ass	embly can be	found in the				
\cdot Details and precautions on recycling and/or disp	oosal at end-		found in the	installation and or operation manuals.			

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

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

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

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

Model (s):	Outdoor unit:	PUZ-SWM140YAA
	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	14.0	kW	Seasonal space heating energy efficiency	ηs	132	%
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 ten	nperature Tj	
Tj = - 7 ° C	Pdh	8.5	kW	Tj = - 7 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4. 6	kW	Tj = + 7 ° C	COPd	5. 10	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	7.60	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operation limit temperature (***)	Pdh	9. 2	kW	Tj = operation limit temperature (***)	COPd	1. 50	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.90	-
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	4.8	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	10226	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4.860	k₩h				
Annual electricity consumption	AEC	1070	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
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(*) 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-SWM140YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14. 0	kW	Seasonal space heating energy efficiency	ηs	152	%
Declared capacity for heating for part	load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	14. 0	kW	Tj = + 2 ° C	COPd	1.90	-
Degradation co-efficient (**)	Cdh	1.00	-			<u></u>	
Tj = + 7 ° C	Pdh	8. 8	kW	Tj = + 7 ° C	COPd	3. 10	-
Degradation co-efficient (**)	Cdh	0. 99	-			<u></u>	
Tj = +12 ° C	Pdh	5.5	kW	Tj = +12 ° C	COPd	5.40	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.90	-
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 1	
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	4837	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	130	%
Daily electricity consumption	Qelec	4. 030	kWh				
Annual electricity consumption	AEC	888	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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Details and precautions on installation, maintena Details and precautions on recycling and/or dis		,		installation and or operation manuals.			

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

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

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

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

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

Model (s) :	Outdoor unit:	PUZ-SWM140YAA
	Indoor unit:	ERST20D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	14. 0	kW	Seasonal space heating energy efficiency	η s	223	%
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	14. 0	kW	Tj = + 2 ° C	COPd	3. 10	-
Cdh	1.00	-				
Pdh	9.0	kW	Tj = + 7 ° C	COPd	5. 01	-
Cdh	0.99	-				
Pdh	5. 1	kW	Tj = +12 ° C	COPd	7. 01	-
Cdh	0.97	-				
Pdh	14.0	kW	Tj = bivalent temperature	COPd	3. 10	-
Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	3. 10	-
		1				
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. 022	kW	Rated heat output (*)	Psup	0.0	kW
P _{T0}	0. 022	kW				
P_{SB}	0. 022	kW	Type of energy input		Electrical	
P _{CK}	0.000	kW				
	variable		Rated air flow rate, outdoors	-	2640	m³/h
L_{WA}	41 / 58	dBA				
\mathbf{Q}_{HE}	3310	kWh				
			•			
	L		Water heating energy efficiency	η wh	130	%
Qelec	4. 030	kWh				
AEC	888	k₩h				
NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No∷	19 Yunusemre – Ma	anisa, Turkey
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· Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	η s	134	%
Declared capacity for heating for part	t load at	indoor	1	Declared coefficient of performance or prin	mary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor te	mperature Tj	
Tj = - 7 ° C	Pdh	12. 4	kW	Tj = - 7 ° C	COPd	1.98	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.5	kW	Tj = + 2 ° C	COPd	3. 40	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	6.3	kW	Tj = + 7 ° C	COPd	4. 61	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	3.9	kW	Tj = +12 ° C	COPd	6. 28	-
Degradation co-efficient (**)	Cdh	0. 97	-				
Tj = bivalent temperature	Pdh	12.4	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	1.75	-
			_				
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_{OFF}	0. 022	kW	Rated heat output (*)	Psup	3.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	8473	k₩h				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	123	%
Daily electricity consumption	Qelec	4. 380	kWh				
Annual electricity consumption	AEC	965	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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· 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-SWM140YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	ηs	175	%
Declared capacity for heating for par	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor tempera	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	nperature Tj	
Tj = - 7 ° C	Pdh	12. 4	kW	Tj = - 7 ° C	COPd	2. 70	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	7.6	kW	Tj = + 2 ° C	COPd	4. 51	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	6.4	kW	Tj = + 7 ° C	COPd	5.91	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 1	kW	Tj = +12 ° C	COPd	7.03	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	12. 4	kW	Tj = bivalent temperature	COPd	2. 70	-
Tj = operation limit temperature (***)	Pdh	11.0	kW	Tj = operation limit temperature (***)	COPd	2.40	-
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	3.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	6517	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	123	%
Daily electricity consumption	Qelec	4. 380	kWh				
Annual electricity consumption	AEC	965	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
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The signature is signed in the average cli	mate / mediu	um-temperatu	re section.	Manager, Quality Assuarance Department TURKEY			
The signature is signed in the average cli	ance and ass	embly can be	e found in the	Manager, Quality Assuarance Department TURKEY 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-SWM140YAA
	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	14. 0	kW	Seasonal space heating energy efficiency	ηs	104	%
Declared capacity for heating for part	t load at	indoor		Declared coefficient of performance or prin	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ture T j			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = − 7 ° C	Pdh	8.5	kW	Tj = - 7 ° C	COPd	2. 20	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	0. 99	-				
Tj = + 7 ° C	Pdh	4.4	kW	Tj = + 7 ° C	COPd	4. 30	-
Degradation co-efficient (**)	Cdh	0. 98	-				
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	6.60	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10. 7	kW	Tj = bivalent temperature	COPd	1.60	-
Tj = operation limit temperature (***)	Pdh	8. 0	kW	Tj = operation limit temperature (***)	COPd	1.20	-
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	10. 5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.60	-
Bivalent temperature	Tbiv	-13	°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	6.0	kW
Thermostat-off mode	P _{T0}	0.022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	$Q_{\rm HE}$	12867	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4.860	kWh				
Annual electricity consumption	AEC	1070	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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		comporatu		TURKEY			
· Details and precautions on installation, maintena	nce and ass	embly can be	found in the	installation and or operation manuals.			
\cdot Details and precautions on recycling and/or 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-SWM140YAA
	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.

	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14. 0	kW	Seasonal space heating energy efficiency	ηs	131	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor tem	perature Tj	
Tj = - 7 ° C	Pdh	8.5	kW	Tj = - 7 ° C	COPd	3. 30	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	5. 2	kW	Tj = + 2 ° C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0. 99	-			s	
Tj = + 7 ° C	Pdh	4.6	kW	Tj = + 7 ° C	COPd	5. 10	-
Degradation co-efficient (**)	Cdh	0. 98	-			s	
Tj = +12 ° C	Pdh	4. 5	kW	Tj = +12 ° C	COPd	7.60	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operation limit temperature (***)	Pdh	9. 2	kW	Tj = operation limit temperature (***)	COPd	1. 50	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	11.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.90	-
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	4.8	kW
Thermostat-off mode	P _{T0}	0. 022	kW				
Standby mode	P_{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	Рск	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	\mathbf{Q}_{HE}	10275	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	η wh	105	%
Daily electricity consumption	Qelec	4.860	k₩h				
Annual electricity consumption	AEC	1070	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 – Ma	anisa, Turkey
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The signature is signed in the success ali	nata / madiu		ve eestien	Kenichi SAITO Manager, Quality Assuarance Department			
The signature is signed in the average clin	nate / medit	uu-temperatu	re section.	TURKEY			
· Details and precautions on installation, maintena	nce and acc	embly can be	found in the				

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM140YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14. 0	kW	Seasonal space heating energy efficiency	ηs	149	%
Declared capacity for heating for part	: load at	indoor	•	Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ter	mperature Tj	
Tj = - 7 ° C	Pdh	_	kW	Tj = − 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	_	_				
Tj = + 2 ° C	Pdh	14.0	kW	Tj = + 2 ° C	COPd	1.90	-
Degradation co-efficient (**)	Cdh	1.00	_				
Tj = + 7 ° C	Pdh	8.8	kW	Tj = + 7 ° C	COPd	3. 10	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = +12 ° C	Pdh	5.5	kW	Tj = +12 ° C	COPd	5.40	-
Degradation co-efficient (**)	Cdh	0. 98	_				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.90	-
			1			I	
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		11	
Off mode	P _{0FF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW			Į Į	
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{cK}	0.000	kW				
Other items		I	1 1				
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
I Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	4934	kWh				
For heat pump combination heater:			IĮ_	I			
Declared load profile		L		Water heating energy efficiency	η wh	130	%
Daily electricity consumption	Qelec	4. 030	kWh				
Annual electricity consumption	AEC	888	kWh				
Contact details			1 1				
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
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<u>-</u>				Kenichi SAITO			
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· Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.

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

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

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

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

Model(s):	Outdoor unit:	PUZ-SWM140YAA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14. 0	kW	Seasonal space heating energy efficiency	η s	217	%
Declared capacity for heating for part	: load at	indoor		Declared coefficient of performance or prim	nary energy	ratio for	
temperature 20 °C and outdoor temperat	ure Tj			part load at indoor temperature 20 $^\circ$ C and	outdoor ten	nperature Tj	
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 ° C	Pdh	14.0	kW	Tj = + 2 ° C	COPd	3. 10	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 ° C	Pdh	9.0	kW	Tj = + 7 ° C	COPd	5. 01	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = +12 ° C	Pdh	5.1	kW	Tj = +12 ° C	COPd	7.01	-
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	3. 10	-
Tj = operation limit temperature (***)	Pdh	14. 0	kW	Tj = operation limit temperature (***)	COPd	3. 10	-
			1				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space	Tdes i gnh	2	°C	Heating water operating limit	WTOL	60	°C
heating Power consumption in modes other than	active mo	de	I	temperature Supplementary heater			
Off mode	P _{OFF}	0. 022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{T0}	0. 022	kW			ĮĮ	
Standby mode	P _{SB}	0. 022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{cK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				,
Annual energy consumption	Q _{HE}	3407	kWh				
For heat pump combination heater:	112		II				
Declared load profile		L		Water heating energy efficiency	η wh	130	%
Daily electricity consumption	Qelec	4. 030	kWh				
Annual electricity consumption	AEC	888	kWh				
Contact details	,,						
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MA	NUFACTURING T	URKEY JOINT S	TOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zor	lu Bulvari No:	19 Yunusemre - M	anisa, Turkey
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				Kenichi SAITO			
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Details and precautions on installation, maintena							

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

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

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

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

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